TSD File Inventory Index

US EPA RECORDS CENTER REGION 5
1001543

Date: September 6, 2006

Initial: C M Generao

Facility Name:	U.S. Air Force (Scott AFB)
Facility Identification Number:	ILT 570 024 177

A.1 General Correspondence		**B.2 Permit Docket (B.1.2)**	
A.2 Part A / Interim Status A.2	1	.1 Correspondence B.1.1	1
.1 Correspondence		.2 All Other Permitting Documents (Not Part of the ARA) B.1.2	1
.2 Notification and Acknowledgment		**C.1 Compliance - (Inspection Reports)** C.1 (2)	2
.3 Part A Application and Amendments		**C.2 Compliance/Enforcement** C.2	1
.4 Financial Insurance (Sudden, Non Sudden)		.1 Land Disposal Restriction Notifications	
.5 Change Under Interim Status Requests		.2 Import/Export Notifications	
.6 Annual and Biennial Reports		**C.3 FOIA Exemptions - Non-Releasable Documents** C.3	1
A.3 Groundwater Monitoring		**D.1 Corrective Action/Facility Assessment**	
.1 Correspondence		.1 RFA Correspondence	
.2 Reports		.2 Background Reports, Supporting Docs and Studies	
A.4 Closure/Post Closure		.3 State Prelim. Investigation Memos	
.1 Correspondence A.4.1-A.4.4	1	.4 RFA Reports	
.2 Closure/Post Closure Plans, Certificates, etc See A.4.1		**D. 2 Corrective Action/Facility Investigation**	
A.5 Ambient Air Monitoring		.1 RFI Correspondence	
.1 Correspondence		.2 RFI Workplan	
.2 Reports		.3 RFI Program Reports and Oversight	
B.1 Administrative Record		.4 RFI Draft /Final Report	
		5. RFI QAPP	

.6 RFI QAPP Correspondence		.8 Progress Reports	
.7 Lab Data, Soil-Sampling/Groundwater		**D.5 Corrective Action/Enforcement**	
.8 RFI Progress Reports		.1 Administrative Record 3008(h) Order	
.9 Interim Measures Correspondence		.2 Other Non-AR Documents	
.10 Interim Measures Workplan and Reports		**D.6 Environmental Indicator Determinations**	
D.3 Corrective Action/Remediation Study		.1 Forms/Checklists	
.1 CMS Correspondence		**E. Boilers and Industrial Furnaces (BIF)**	
.2 Interim Measures		.1 Correspondence	
.3 CMS Workplan		.2 Reports	
.4 CMS Draft/Final Report		**F Imagery/Special Studies** (Videos, photos, disks, maps, blueprints, drawings, and other special materials.)	
.5 Stabilization		**G.1 Risk Assessment**	
.6 CMS Progress Reports		.1 Human/Ecological Assessment	
.7 Lab Data, Soil-Sampling/Groundwater		.2 Compliance and Enforcement	
D.4 Corrective Action Remediation Implementation		.3 Enforcement Confidential	
.1 CMI Correspondence		.4 Ecological - Administrative Record	
.2 CMI Workplan		.5 Permitting	
.3 CMI Program Reports and Oversight		.6 Corrective Action Remediation Study	
.4 CMI Draft/Final Reports		.7 Corrective Action/Remediation Implementation	
.5 CMI QAPP		.8 Endangered Species Act	
.6 CMI QAPP Correspondence		.9 Environmental Justice	
1			

Note: Transmittal Letter to Be Included with Reports.
Comments:_____

Re: Stormwater Permits --MS4 Permit

Michael Prescott to: Brianc Bell 08/20/2009 10:31 AM

Cc: Daniel Chachakis, Lance Elson, Lee Regner, Matthew Gluckman

Brian,
Thank-you for conducting the review and providing comments. I already sent my final report to the team leader, Dan Chachakis, and the Federal Facility Program Manager, Lee Regner, and we will probably have a debrief call to discuss the inspection and findings. At that time, I would expect Dan or Lee to determine how best to convey your comments to the facility.
Michael
Michael Prescott
EPA Contractor
----- Original Message -----
From: <Bell.Brianc@epamail.epa.gov>
To: "Michael Prescott" <mprescott7@cox.net>
Cc: <Chachakis.Daniel@epamail.epa.gov>; <Elson.Lance@epamail.epa.gov>; <Regner.Lee@epamail.epa.gov>; <Gluckman.Matthew@epamail.epa.gov>
Sent: Tuesday, August 18, 2009 2:16 PM
Subject: Re: Stormwater Permits--MS4 Permit

> Michael,
>
> I reviewed the storm water management plan for Scott AFB. Based on my
> review, it appears that the SWMP covers all the areas required by EPA
> regulations. Given that the SWMP was in the form of an excel
> spreadsheet there wasn't sufficient detail on some activities (e.g.,
> what areas are covered in employee training under MCM#6).
>
> I offer the following comments:
>
> MCM#1
>
> Scott AFB should seek information (i.e., videos, audio recordings,
> photographs, etc.) for its web site and videos from EPA, States, and
> other sources and then relate the message to areas on the base
> See EPA's MS4 Evaluation Guide for ideas about target audiences,
> message development and packaging
>
> MCM#2
>
> Publish articles in the Base newspaper about public events (i.e., stream
> cleanups, Earth Day).
>
> MCM#3
>
> I would also recommend educating all base personnel regarding illicit
> discharges and who they should contact in event of an illicit
> discharge/illegal dumping.
>
> I would also recommend the storm water staff look at EPA's MS4
> Evaluation Guide (attached) for other ideas.
>
> (See attached file: ms4guide_withappendixa.pdf)(See attached file:
> ms4guide_appendicesb-d.pdf)
>
> Brian Bell

> Regional Storm Water Coordinator
> U.S. EPA Region 5
> Ph: 312-886-0981
> FAX: 312-692-2029

Lee Regner/R5/USEPA/US
07/09/2009 03:00 PM

To

Subject Scott AFB Inspection

Dan,

I will send you via interoffice mail some Google maps that locate the two surface impoundments at Scott AFB. Each are just to the south of Scott Lake and the golf course.

Also, let me say that there is a military veterinary clinic (lab) at the base. It is located at 852 South Drive between Chapman and Adams.

Lee

==========

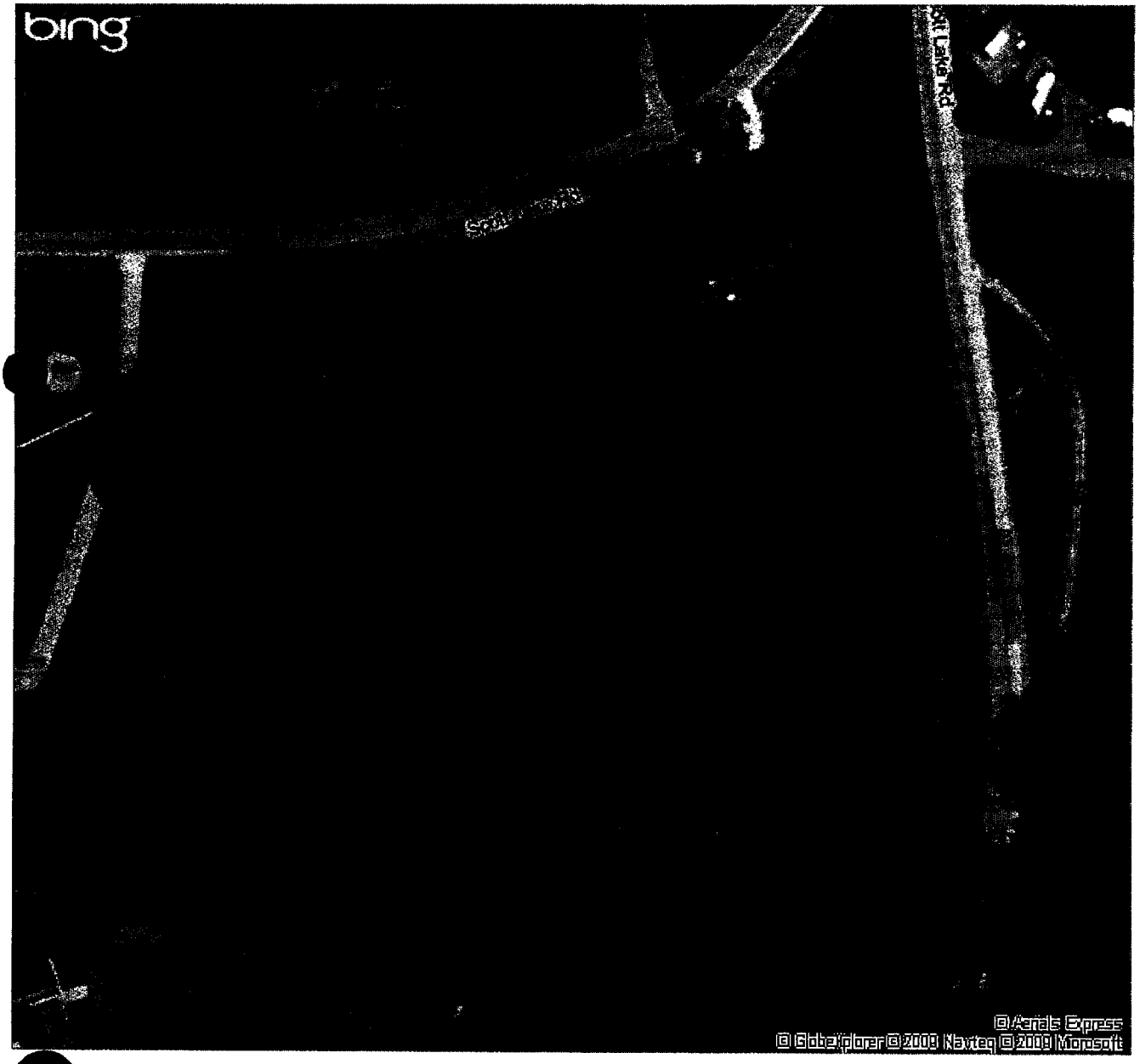
Lee J. Regner
Federal Facilities Program Manager
U.S. EPA; Region 5; Mail Code E-19J
77 West Jackson Boulevard; Chicago, IL 60604
Phone: (312) 353-6478
Fax: (312) 408-2253

Answering that question with specificity, you know, is above my pay grade.

Bing Maps

Scott Air Force Base

FREE! Use **Live Search 411** to find movies, businesses & more: **800-CALL-411.**



Bird's eye view maps can't be printed, so another map view has been substituted.

Summary of Potential Surface Impoundment Facility

Facility Name: Scott Air Force Base

Region: 5

Location of Facility:
701 Hangar Road
Belleville, IL 62225

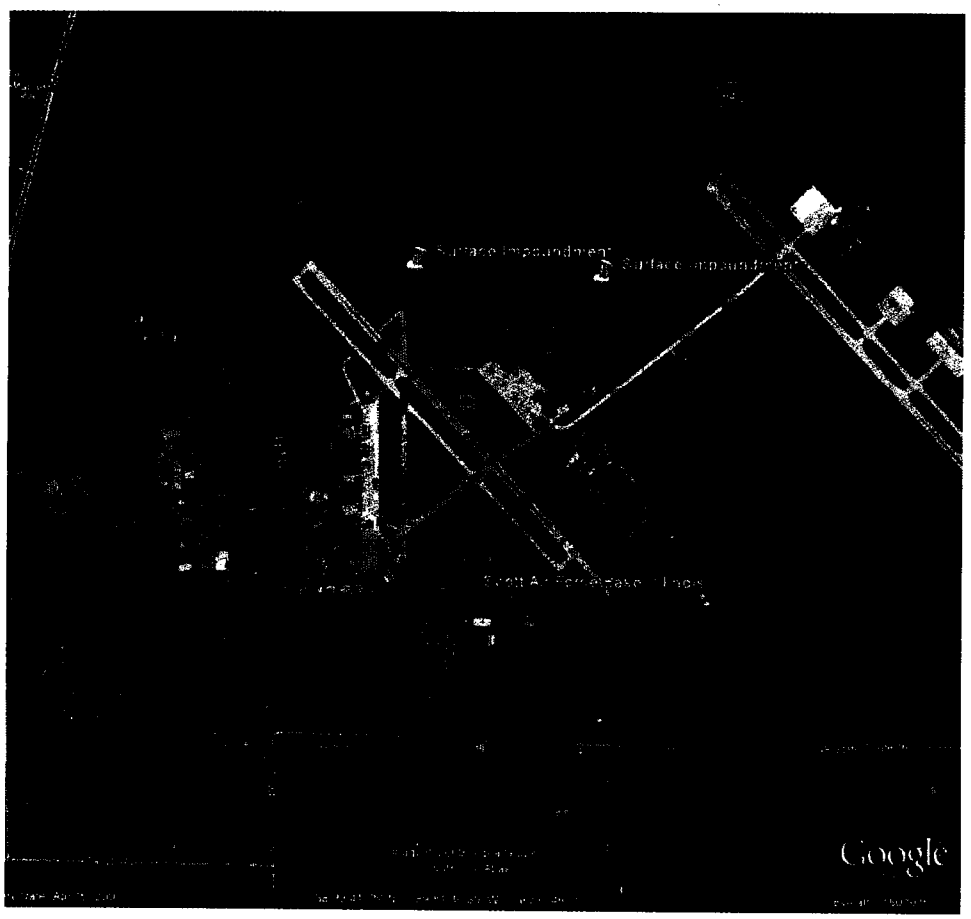
Type of Facility: US Air Force

Permits Held by Facility: CWA Major; NPDES Individual Permit, RCRA TSDF LQG

Permit Number (RCRA): IL7570024177

Materials at Facility (According to DFR): Ethylene Glycol, Chlorine

Initial Impressions: Potential surface impoundment could be CWA-related



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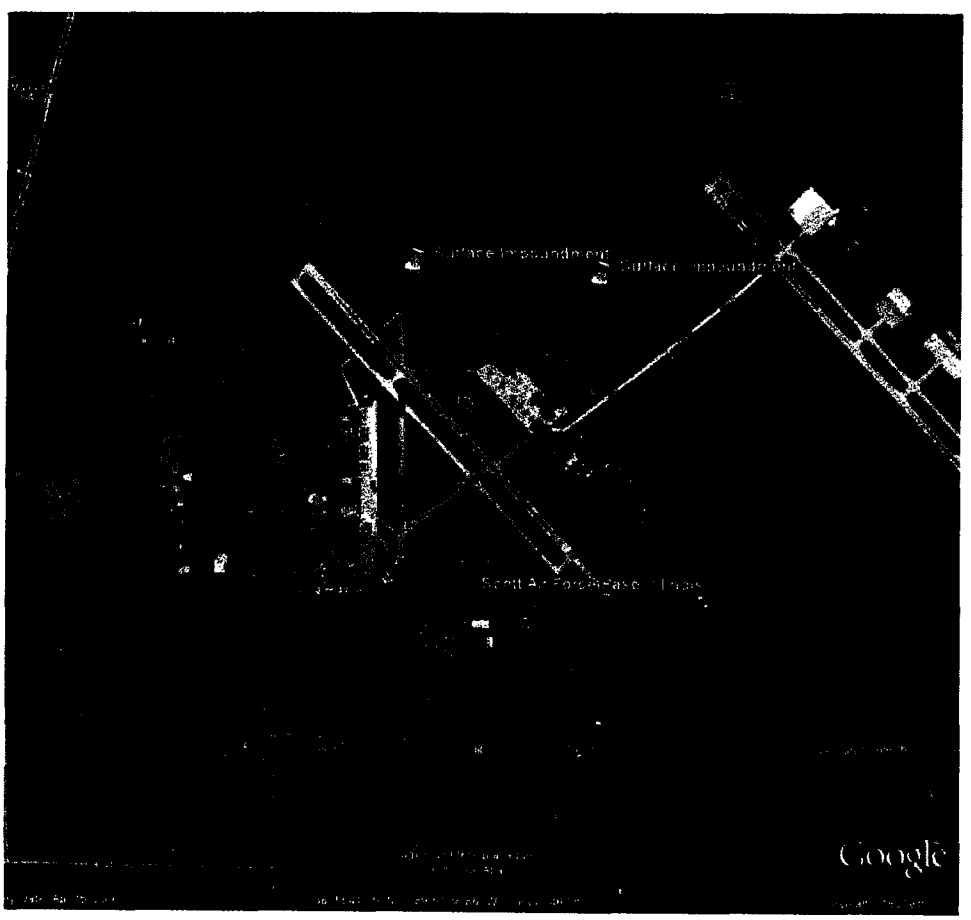


National Federal Facilities* Compliance and Enforcement FY 2009 *Program Agenda*

The Federal Facilities Program strives to achieve EPA's Strategic Goal of ***Improving Compliance*** *by ensuring federal agencies comply with environmental laws. EPA is focused on ensuring long-term environmental compliance, and will work with Federal agencies in both the enforcement and compliance assistance capacities to accomplish this goal. Timely and appropriate enforcement actions will be emphasized in Integrated Strategy areas particularly in those areas where compliance assistance and inspection activities were emphasized in prior year. The National Federal Facilities Program seeks to maximize achievement of environmental benefits by focusing this year's activities on:*

SIX **INTEGRATED STRATEGIES**: *Aligning our various* ***Compliance Assistance, Compliance Incentives, and Monitoring & Enforcement*** *tools to improve compliance:*

- with NPDES stormwater requirements (FY06 – FY09)
- at Federal Underground Storage Tanks (FY07 – FY09)
- at Federal Laboratories (FY07 - FY09)
- Exploratory Integrated Strategy areas: (non-TSDF/non-UST RCRA, Federal prisons, campgrounds on federal lands.

Strategy documents developed for each area will outline the contemplated mix of tools and activities, as well as the timeline for utilizing the selected tool. The strategy document will identify the anticipated environmental outcomes.

FFEO will research the impacts of federal facilities on drinking water sources which may lead to a future integrated strategy.

ENFORCEMENT: *through committed Monitoring and Enforcement, the National Federal Facilities Program will seek an increase in complying actions, pollutant reduction or treatment; and improved environmental management practices by*

- Following up with timely and appropriate **enforcement actions**, as defined within the relevant media-specific enforcement policies for each Federal facility inspected pursuant to an Integrated Strategy area.

MONITORING: *by monitoring compliance, EPA seeks to ensure that Federal Facilities operate in accordance with environmental laws, especially in Integrated Strategy and Exploratory areas.*

- Targeting ten inspections (FED.FAC05) to support the integrated strategies, (up to three of which may support the UST Strategy). These inspections are to be conducted by EPA regions to ensure an appropriate field presence. Inspections can be achieved through any combination of single media or multimedia inspections per the National Program Managers Guidance.

COMPLIANCE ASSISTANCE: *Through Compliance Assistance, EPA will seek an increase in the percent of regulated federal entities that improved their understanding of environmental requirements; an increase in the number of regulated federal entities that improve environmental management practices; and an increase in the percent of regulated federal entities that reduce, treat, or eliminate pollution by:*

- Conducting at least two compliance assistance activities per Region (FED.FAC-01) to support the integrated strategies identified above.

- Supporting continual improvements in federal Environmental Management System (EMS) implementation, in particular by including EMS improvements in enforcement action settlements and related SEPs; and providing EMS-related compliance assistance in conjunction with inspections.

- Maximizing use of ***FedCenter***, the Federal facility environmental stewardship and compliance assistance center, to deliver compliance assistance tools and training opportunities developed by Federal agencies as well as EPA regions and HQ.

*These activities, along with the activities identified in the OECA National Program Manager Core Federal Facility Program Guidance, are anticipated to serve as a baseline of priority activity from a national program perspective, in addition to which regions may pursue their own priorities.

The National Federal Facilities Program also strives to achieve EPA's Strategic Goal of ***Restoring Land*** *by overseeing federal agencies' cleanup of contaminated property. We will measure the volume of contaminated media addressed by our actions and focus this year on:*

- Taking timely and appropriate enforcement actions to address non-compliance of clean up responsibilities
- Piloting innovative approaches to achieve post-ROD cleanup efficiencies
- Bringing resolution to remaining National Priority Sites where no Federal Facility Agreement (FFA) has been reached
- Elevating FFA disputes that are not resolved in a timely manner
- Crafting approaches to support federal efforts to return contaminated property to productive use
- Assuring proper and enforceable safeguards through review of cleanup decision documents, with a particular emphasis on long-term stewardship

DATA QUALITY & REPORTING: *Capturing the environmental results of our activities in the federal facilities sector is critical to demonstrate the impact of our work. We will measure our progress on EPA's Strategic Goals by*

Ensuring that the environmental results articulated above are captured for each and every federal facility activity through completion of the relevant data sheets and entry of the data in the appropriate data system.

Lee Regner/R5/USEPA/US To
03/20/2009 03:01 PM

Subject Scott AFB Inspection

Dan,

I am going to send you via interoffice mail copies of some miscellaneous material that I have regarding Scott AFB.

Lee

==========

Lee J. Regner
Federal Facilities Program Manager
U.S. EPA; Region 5; Mail Code E-13J
77 West Jackson Boulevard; Chicago, IL 60604
Phone: (312) 353-6478
Fax: (312) 886-9697
E-mail: regner.lee@epa.gov

Click below to visit FedCenter
http://www.fedcenter.gov

Scott Air Force Base
Public Affairs Office
(618) 256-4241

Southwest Illinois News is a weekly news publication spotlighting attractions, events, entertainment, tourism and business developments in Southwestern Illinois.

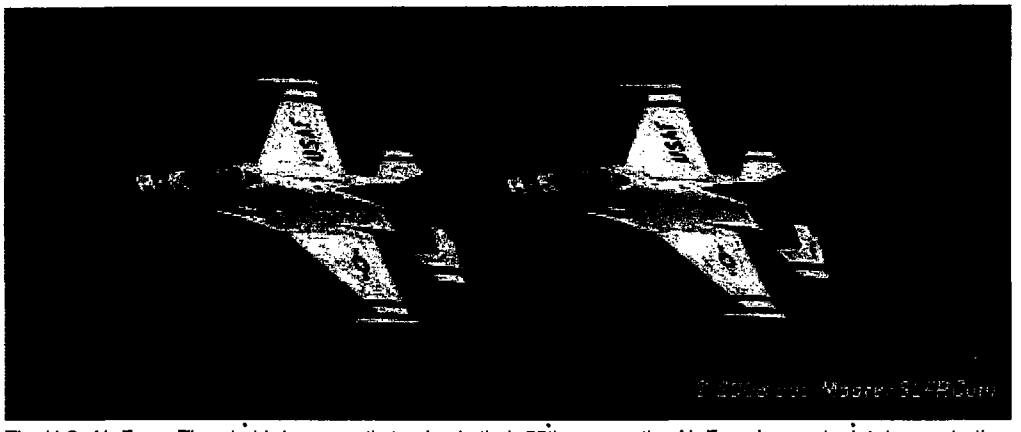
Southwest IL News

- Southwest, IL News
- Illinois Hotels
- Alton, IL
- Belleville, IL
- Cahokia Mounds
- Collinsville,IL
- East St. Louis, IL
- Fairview Heights,IL
- Fort de Chartres,IL
- Fort Massac, IL
- Gateway Int'l
- Grafton, IL
- Lebanon,IL
- Lewis & Clark
- Our Lady of Snows
- Scott Air Force Base
- Waterloo, IL
- Wood River, IL

St. Louis From Page

- St. Louis News
- Community Info
- St. Louis CitySide
- Business News
- St. Charles News
- Art Gallery News
- Hotel News
- Restaurant News
- Style St. Louis
- Not Just For Kids
- Entertainment News

Downtown Map



The U.S. Air Force Thunderbirds, currently touring in their 55th year as the Air Force's premier jet demonstration team, will perform at Scott Air Force Base, September 20 - 21, in the 'Airpower Over the Midwest' airshow.

U.S. Air Force Thunderbirds to Fly in 'Airpower Over the Midwest' Show at Scott Air Force Base

SCOTT AIR FORCE BASE, IL (SWI-News.com), September 18, 2008 - The U.S. Air Force Thunderbirds will thunder over Scott Air Force Base this weekend, **September 20 - 21, 2008** as part of the **'Airpower Over the Midwest'** airshow.

Visitors to the base, located near Belleville, IL, will see a mix of formation flying and solo routines by the Tunderbirds. The four-aircraft diamond formation will demonstrate the training and precision of Air Force pilots, while the solo aircraft will highlight the maximum capabilities of the F-16.

The pilots will perform approximately 30 precision aerial maneuvers demonstrating the capabilities of Air Force high performance aircraft. The entire show, including ground and air, runs about an hour and fifteen minutes.

The base will open its gates to the community for this year's show with civilian and military performers including: Lucas Oil, the F/A-18 Tac Demo and ACC F-15 Demo, the Trojan Horseman, P-38, P-51, C-9C, AFR Jet Car, B-52, T-2B, PV-2, C-21A, TBM, KC-135, C-2, the 450 Stearman, and the USSOCOM Parachute Team.

Visits can also see a static display of military and civilian aircraft and enjoy performances by the Show Me Air Kings, radio controlled aircraft.

The air show is free and open to the public. Parking is also free. The Shiloh & Belleville gates will be open 9:00 a.m. - 5:00 p.m. each day. Visitors can also take the Metrolink to the Shiloh-Scott station where buses will take you to the Air Show area of the base. Normal Metrolink and bus fees apply. For more information about Air Show 2008, visit www.scottairshow.com

Scott Air Force Base

During World War I, pilots trained on a small field in the Shiloh Valley Township near Belleville, Illinois. Local businesses worked with the Federal Government to formally develop 624 acres as an aviation field and in 1917, "Scott Field", named after Corporal Frank S. Scott, officially opened for formal flying instruction. In 1922, the Air Service Balloon and Airship School opened. Soon after, an airship hanger, containing more than 18 million cubic feet, was constructed.

- Downtown Map
- America's Center
- Busch Stadium
- Gateway Arch
- Scottrade Center
- Laclede's Landing
- Old Courthouse
- Union Station

Metropolitan Map

- Metropolitan Map
- Casinos
- Central West End
- Clayton, MO
- Daniel Boone Home
- Grand Center
- Grant's Farm
- Forest Park
- Kimmswick, MO
- MO Botanical Garden
- St. Charles, MO
- West Port Plaza
- Transportation
- Lambert Airport

Today, Scott Air Force Base is home to the U.S. Transportation Command which is comprised of the Air Force's Air Mobility Command, the Army's Military Traffic Management Command and the Navy's Military Sealift Command. Additional commands include the Air Force Command, Control, Communications and Computer Agency and the Air Weather Service.

Scott's 375th Airlift wing, which manages the domestic aeromedical evacuation system, is supported by the Air Force Reserve's 932nd Aeromedical Airlift Group.

Nearly 6,500 military and 3,500 civilians work at Scott Air Force Base. The complex, which occupies almost 4,000 acres with 900 buildings, has grown into a small town with its own police and fire departments, hospital, department store, grocery store, movie theater, restaurants and a motel for visitors. There are homes, duplexes and mobile homes for more than 1,700 families and dormitory rooms for 600 unmarried service members. ■

Restaurants Wineries Hotels

Return to Southwest Illinois News

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Scott Air Force Base

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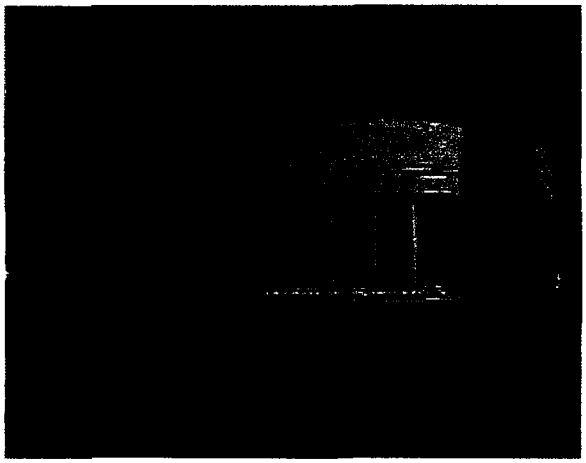


Units

Welcome to the 375th Airlift Wing, home to Air Mobility Command's Showcase Wing: We are a Total Force team, engaging globally by providing priority airlift, aeromedical evacuation, combat support and medical expertise while ensuring outstanding quality of life for all.

search

Advanced

- U.S. Trans Command
- Air Mobility
- 18th Air Fc
- 932nd Airli
- 126th Air F Wing
- Air Force Communica
- Defense Ir Systems Ag
- Surface D and Distribu Command
- Scott Com Squadron - Patrol

375th Airlift Wing Mission

The 375th Airlift Wing makes possible the command and control of the United States' entire military transportation effort-- the logistics efforts of the world's greatest military in the air, on the ground and over the sea. Together, we execute every Air Mobility Command sortie worldwide, in peace and in war.

When the people or cargo is of the highest priority, we provide the mobility in C-21s. When lives hang in the balance, we provide aeromedical evacuation worldwide. The same incredible Airmen who enable global mobility at home station become combat-ready expeditionary forces for combatant commanders worldwide.

At home station, the 375th AW is comprised of several staff agencies and four groups: the 375th Medical Group, 375th Operations Group, 375th Mission Support Group and 375th Communications Group.

The 375th AW's operational support aircraft fleet consists of C-21A Learjets stationed here and at two geographically separated units around the country.

The OSA missions, which are centrally scheduled by U.S. Transportation Command, provide transportation for government officials and cargo requiring time-sensitive airlift.

As the host unit, the 375th AW supports four major headquarters and a numbered air force with worldwide responsibilities: U.S. Transportation Command, Air Mobility Command, the Surface Deployment Distribution Command, Defense Information Technology Systems Agency and the 18th Air Force. It also provides support for the Air Force Communications Agency, the Defense Information Technology Contracting Office, the 932nd Airlift Wing (Reserve) and the Illinois Air National Guard's 126th Air Refueling Wing--along with approximately 66 other associate partner units.

The 375th AW is Air Mobility Command's Showcase Wing--leveraging technology, ingenuity and manpower.

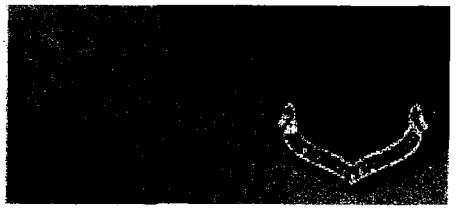
375th AW Breakdown

375th Communications Group
375th Medical Group
375th Mission Support Group
375th Operations Group

375th AW Staff Agencies

Command and Control
Comptroller
Equal Opportunity
Historian
Inspector General
Judge Advocate
Plans, Programs and Readiness
Public Affairs
Safety
Sexual Assault Prevention and Response

Air Mobility Command



This base/wing is an installation of **Air Mobility Command (AMC)**, a major command of the U.S. Air Force.

Alan Walts/R5/USEPA/US
10/02/2008 10:28 AM

To Patrick Kuefler/R5/USEPA/US@EPA
cc Lee Regner/R5/USEPA/US@EPA
bcc
Subject Re: Fw: Federal Facility SW Targets

Looks like Scott AFB is the only significant DOD construction project in R5 DOD Total construction FY09.pdf

Alan Walts
Deputy Director, Office of Enforcement and Compliance Assurance
U.S. EPA, Region 5
77 W. Jackson Blvd, Chicago, IL 60604
Phone: (312) 353-8894
Fax: (312) 886-9697

Patrick Kuefler/R5/USEPA/US

Patrick Kuefler/R5/USEPA/US
10/02/2008 08:23 AM

To
Subject Fw: Federal Facility SW Targets

Alan - I'm trying to come up with inspection targets for FF construction SW sites. I received a list of federal construction projects slated for 09. Mostly sites in combined sewer areas, VA centers (which I'd like to avoid) and small town post offices. Do you have any resources or information on other sites? DOD? Attached is the list that I have.

Patrick F. Kuefler
Chief, Section II
Water Enforcement & Compliance Assurance Branch
Phone 312/353-6268, FAX 312/886-0168
----- Forwarded by Patrick Kuefler/R5/USEPA/US on 10/02/2008 08:21 AM -----

Jenny Davison/R5/USEPA/US
09/24/2008 12:13 PM

To
Subject Fw: Federal Facility SW Targets

FYI-
----- Forwarded by Jenny Davison/R5/USEPA/US on 09/24/2008 12:13 PM -----

Amir Ingram/DC/USEPA/US
09/24/2008 12:11 PM

To Jenny Davison/R5/USEPA/US@EPA
cc Lance Elson/DC/USEPA/US@EPA

Subject Federal Facility SW Targets

Jenny,

TABLE 1

POTENTIAL TARGETS FOR THE ENFORCEMENT COMPONENT OF THE INTEGRATED WASTEWATER STRATEGY

Facility Name/Permit Number	Major/ Minor Facility	Significant Non-Compliance (SNC) Within Last 12 Quarters	Number of Quarters out of Compliance	DMR Violation	Effluent Violation	Never Inspected	Reportable Non-Compliance (RNC)	Based on Inspections, Multi-Media Enforcement Opportunities
DC0000019								
ABERDEEN PROVING GROUND, ABERDEEN AREA WASTEWTR TREATMENT PLANT MD0021237	Major	X	9/12	X			X	
Region 4 U S ARMY ANNISTON ARMY DEPOT ANNISTON, AL 36201 AL0002658	Major	X	10/12		X			RCRA-SNC within last 12 month
USAF ROBINS AFB HOUSTON COUNTY, GA 31098 GA0002852	Major		6/12		X			
USDOE-Y12 NATL SECURITY CMPLEX OAK RIDGE, TN 37830 TN0002968	Major	X	9/12	X	X			
BLUEGRASS ARMY DEPOT MADISON COUNTY 40475 KY0020737	Minor		12/12		X	X		
Region 5 SCOTT AFB	Major		7/12			X		

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SCOTT, IL 62225 IL0026859								
Region 6 USA-PINE BLUFF ARSENAL PINE BLUFF, AR 71602 AR0001678	Major	X	12/12		X			
USAF-TINKER AFB TINKER AFB, OK 73145 OK0000809	Major	X	8/12		X			
AMERICAN WATER SERVICES FORT SILL, OK 73503 OK0030317	Minor		12/12			X	X	
US ARMY BELTON LAKE AT FORT HOODBELL & CORYELL COUNTIES FORT HOOD-DEPT OF AR, TX 76544 TX0002313	Minor		12/12	X	X	X		
US DEPT OF THE INTERIOR BASIN-BREWSTER BIG BEND NTL PARK TX 79834 TX0094684	Minor		10/12		X	X	X	

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 375TH MEDICAL GROUP (AMC)

4 April 2009

Dear Health Care Provider,

This list contains the current medications stocked at Scott Air Force Base Pharmacy. This list can also be accessed online at www.raolibrary.org. Our formulary system is designed to provide the most therapeutic and cost-effective medications that will treat the patients seen by Scott AFB providers. **Since all medications are dispensed generically, please prescribe allowing generic substitution.** This will save your patient's time, the Pharmacy's time, and most importantly, YOUR TIME. Medications listed that are in **bold** print indicate new additions to our formulary. Medications identified with ** indicate Basic Core Formulary medications that are available at all military treatment facilities, allowing continuity of care.

Our pharmacy's policy is to dispense up to a 3-month supply when the medication is used in treating a chronic disease. **However, the prescription must reflect that a 3-month supply is desired.** We do have a few quantity limits based on TRICARE restrictions and our disease state management protocols. These medications are identified by an asterisk (*) in front of their name. Some prescriptions may be refilled for 1-year if indicated on the prescription. Medications used to treat acute problems should be prescribed for the minimum amount required. If your patient requires a drug not on our formulary, that medication will have to be purchased by the patient via TRICARE network pharmacies ($3 generic/$9 brand/$22 non-formulary) for 30-day supply or, preferably, the TRICARE Mail Order Pharmacy (TMOP) where a 90-day supply can be received for single co pay ($3 generic/$9 brand/$22 non-formulary). The TMOP can be reached at http://www.express-scripts.com, or **toll free at 1-866-DOD.TMOP (866-363-8667).** If you have questions regarding medication availability, cost share/co pays and alternatives under the TRICARE pharmacy benefit, help is available at: http://www.tricareformularysearch.org/

Dear Patient,

Welcome to the Scott Air Force Base Pharmacy. All civilian prescriptions and all refills called in to the automated refill line are filled at our Satellite Pharmacy, which is located at 312 W. Winters St. It is very important that you review your written prescription before leaving your provider's office to ensure legibility and completeness to include name, date, signature, quantity, refills, and provider's DEA number (required for controlled medications and for providers not in our database). If you can't read it, chances are that we will not be able to either. **Altering a written prescription is illegal and has lead to involvement with Security Forces.**

The Main Pharmacy will only fill prescriptions entered into the computer by 375th Medical Group providers in the hospital or at the Family Practice Clinic. Prescriptions are not automatically filled when the provider enters them into the computer. **YOU MUST TAKE A NUMBER AT THE PHARMACY WINDOW TO ACTIVATE YOUR PRESCRIPTION AND START THE FILLING PROCESS.** The modification is in conjunction with an Air Force-wide technology change and is an effort to better serve the patient that is present at the facility.

REFILLS MUST BE CALLED IN USING OUR AUTOMATED REFILL LINE AT 256-7400. When calling in your prescription, please listen carefully in order to determine when your refills will be available for pick-up. Generally, this is between 1 and 2 duty days. Holidays and down days do not count as duty days. Refills will be held for two weeks. You do not need to take a number for a refill pick-up. Additionally, the Satellite Pharmacy is pleased to offer drive-thru refill pickup service during normal duty hours. This service is available for the pickup of small to medium sized prescription orders. Prescriptions that are liquid or of excessive size cannot be put through the tube system and will require pickup inside the satellite pharmacy. Thank you for your cooperation. If you have a question, contact us at (618) 256-7371.

Sincerely,

K. WADE TILLER, Lt Col(s), USAF, BSC
Pharmacy Flight Commander

ALLERGY/ANTIHIST/DECONGESTANT
ACTIFED TAB
ALLEGRA 30mg, 60mg, & 180mg TAB
ALLEGRA-D 12 HR & 24 HR SR TAB
ATARAX 10mg & 25mg TAB **
ATARAX 10mg/5mL SYRUP **
BENADRYL 12.5mg/5mL ELIXIR
BENADRYL 25mg & 50mg CAP
CHLOR-TRIMETON 2mg/5mL SYRUP
CHLOR-TRIMETON 4mg TAB
CHLOR-TRIMETON 8mg SR CAP
CLARITIN 10mg TAB & 1mg/mL SYRUP
DECONAMINE SR CAP
TWINJECT 0.15mg & 0.3mg AUTO-INJECTOR **
PERIACTIN 4mg TAB **
SUDAFED 30mg/5mL SYRUP
ZYRTEC 10mg TAB & 1mg/mL SYRUP
ZYRTEC-D TAB

ANALGESICS AND ANTIPYRETICS
ASPIRIN 325mg TAB
ASPIRIN EC 81mg & 325mg TAB
CELEBREX 100mg & 200mg & 400mg CAP
DISALCID 500mg & 750mg TAB **
FELDENE 20mg CAP
FIORICET TAB **
INDOCIN 25mg & 50mg CAP **
MOBIC 7.5mg & 15mg TAB **
MOTRIN 100mg/5mL SUSPENSION **
MOTRIN 400mg, 600mg & 800mg TAB **
NAPROSYN 250mg, 375mg & 500mg TAB **
PYRIDIUM 100mg TAB **
TYLENOL 325mg & 500mg TAB
TYLENOL 160mg/5mL ELIXIR
TYLENOL INFANT DROPS
*ULTRAM 50mg TAB (720 tabs/90days) **

ANTIPARKINSONIAN AGENTS
ARTANE 2mg TAB**
COGENTIN 0.5mg & 1mg & 2mg TAB**
ELDEPRYL 5mg TAB
SINEMET TAB & CR TAB (all strengths) **

ANTIMUSCARINICS/ANTISPASMODICS
BENTYL 10mg CAP & 20mg TAB **
DONNATAL ELIXIR & TAB
LEVBID 0.375mg SR TAB
LEVSIN 0.125mg TAB
PRO-BANTHINE 15mg TAB

ANTICONVULSANTS
CARBATROL 100mg, 200mg & 300mg CAP
DEPAKENE 250mg CAP & 250mg/5mL SYRUP
DEPAKOTE 125mg SPRINKLE CAP
DEPAKOTE 125mg, 250mg, & 500mg TAB **
DEPAKOTE ER 250mg & 500mg TAB **
DILANTIN 125mg/5mL SUSPENSION **
DILANTIN 30mg & 100mg CAP **
DILANTIN 50mg CHEWABLE TAB **
FELBATOL 400mg & 600mg TAB
FELBATOL 600mg/5mL SUSP
MYSOLINE 50mg & 250mg TAB
NEURONTIN TABS & CAPS (all strengths) **
TEGRETOL 100mg CHEWABLE & 200mg TAB **
TEGRETOL 100mg/5mL SUSPENSION **

ANTIDIABETIC AGENTS
ACTOS 15MG, 30MG & 45MG TAB
ALCOHOL PADS FOR DIABETICS
AMARYL 2mg & 4mg TAB
AVANDAMET TAB (all strengths) **
AVANDIA 2mg, 4mg & 8mg TAB **
GLYBURIDE 2.5mg & 5mg TAB **
GLYNASE 3mg PRESTAB **
GLIPIZIDE 5mg & 10mg TAB **
GLUCAGON 1mg INJECTION KIT
GLUCOTROL XL 2.5mg, 5mg & 10mg TAB
GLUCOPHAGE 500mg, 850mg, & 1000mg TAB **
GLUCOVANCE TAB (all strengths)
JANUVIA 25MG, 50MG, & 100MG TAB
JANUMET 500MG/50MG; 1000MG/50MG TAB
LANTUS (GLARGINE) INSULIN **

ANTIDIABETIC AGENTS (con't)
LANCETS FOR DIABETIC TESTING
NOVOLIN INSULIN (all types-vials only) **
NOVOLOG & NOVOLOG MIX 70/30 INSULIN **

ANTI-INFECTIVE LIQUIDS
AMOXIL 125mg/5Ml, 250mg/5mL, 400mg/5ml **
AUGMENTIN 200mg/5mL, 250mg/5mL & 400mg/5mL**
AUGMENTIN ES 600mg/5mL SUSPENSION **
BACTRIM SUSPENSION **
CEFZIL 250mg/5mL SUSPENSION
CLEOCIN 75mg/5mL SUSPENSION
*DIFLUCAN 10mg/mL & 40mg/mL (children only)
DURICEF 250mg/5mL & 500mg/5mL SUSP
E.E.S. 200mg/5mL SUSPENSION **
FURADANTIN 25mg/5mL SUSPENSION
GANTRISIN 500mg/5mL SUSPENSION
GRIFULVIN 125mg/5mL SUSPENSION **
KEFLEX 250mg/5mL SUSPENSION **
NYSTATIN SUSPENSION **
OMNICEF 125mg/5ml & 250mg/5ml SUSPENSION
PEDIAZOLE 200mg/600mg/5mL SUSPENSION **
PENICILLIN VK 250mg/5mL SUSPENSION **
ZITHROMAX 100mg/5mL & 200mg/5mL SUSP
ZITHROMAX 1g PACKET SUSPENSION

ANTI-INFECTIVE TABLETS/CAPSULES
AMOXIL 250mg**& 500mg CAP**, & 875mg TAB
AUGMENTIN 250mg, 500mg & 875mg TAB **
BACTRIM & BACTRIM DS TAB **
BIAXIN 250mg & 500mg TAB
CEFZIL 250mg &500mg TAB
CLEOCIN 150mg CAP **
CIPRO 250mg, 500mg, & 750mg TAB**
DAPSONE 25mg TAB
DECLOMYCIN 150mg TAB
DICLOXACILLIN 250 mg CAPSULE
DIFLUCAN 100mg & 200mg TAB
DIFLUCAN 150mg TAB **
DYNAPEN 250mg CAP **
E-MYCIN 250mg TAB **
E.E.S. 400mg TAB **
FLAGYL 250mg & 500mg TAB **
GANTRISIN 500mg TAB
GRIS-PEG 125mg TAB **
KEFLEX 250mg & 500mg CAP **
LEVAQUIN 250mg & 500mg & 750mg TAB **
MACROBID 100mg CAP
MACRODANTIN 25mg & 50mg & 100mg CAP **
MINOCIN 50mg & 100mg CAP
MYCELEX 10mg TROCHES
NYSTATIN TABS 500,000 UNITS **
PENICILLIN VK 250mg & 500mg TAB **
TETRACYCLINE 250mg & 500mg CAP **
VANTIN 100mg & 200mg TAB
VERMOX 100mg TAB **
VIBRAMYCIN 100mg TAB **
ZITHROMAX 250mg TAB ** *(10 tabs/30 days)*
ZITHROMAX 500mg TAB TRI-PAK

ANTILIPEMIC AGENTS
COLESTID GRANULES & 1g TAB **
FENOGLIDE 40mg & 120mg TAB **
LIPITOR 10mg, 20mg, 40mg, & 80mg TAB
LOPID 600mg TAB **
NIACIN 50mg & 500mg TAB
NIASPAN 500mg, 750mg & 1000mg TAB**
PRAVACHOL 10mg, 20mg, 40mg &80mg TAB **
QUESTRAN LIGHT 4g/scoop POWDER
ZETIA 10mg TAB
ZOCOR 5mg, 10mg, 20mg, 40mg & 80mg TAB **
VYTORIN (all strengths) TAB **

ANTIMALARIAL AGENTS
ARALEN 500mg TAB
LARIAM 250mg TAB
PLAQUENIL 200mg TAB
PRIMAQUINE 26.3mg TAB

ANTINEOPLASTIC AGENTS
HYDREA 500mg CAP

ANTINEOPLASTIC AGENTS (con't)
IMURAN 50mg TAB
MEGACE 40mg TAB & 40mg/mL SUSPENSION
METHOTREXATE 2.5mg TAB **
TAMOXIFEN 10mg TAB **
ZOLADEX 3.6mg & 10.8mg IMPLANTS**

ANTITUBERCULARS
ETHAMBUTOL 400mg TAB **
ISONIAZID 50mg/5mL SYRUP **
ISONIAZID 100mg & 300mg TAB **
PYRAZINAMIDE 500mg TAB **
RIFAMPIN 150mg & 300mg CAP **

ANTITUSSIVE, EXPECTORANT & MUCOLYTIC
ROBITUSSIN PLAIN or DM SYRUP
MUCINEX TABLETS
TESSALON PERLES 100MG

ANTIVIRALS
SYMMETREL 100mg CAP **
ZOVIRAX 200mg CAP & 400mg, 800mg TAB **
VALTREX 500mg & 1g TAB

AUTONOMIC/ CHOLINERGIC DRUGS
ARICEPT 5mg & 10mg TABS
MESTINON 60mg TAB & 180mg SR TAB
URECHOLINE 10mg & 25mg TAB

BLOOD FORMATION/COAGULATION
COUMADIN TAB (all strengths) **
FER-IN-SOL SOLUTION
FERROUS SULFATE 325mg TAB **
LOVENOX INJ (all strengths) **
PLAVIX 75mg TAB **
TRENTAL 400mg TAB

CARDIAC DRUGS
CORDARONE 200mg TAB **
LANOXIN 0.125mg & 0.25mg TAB **
LANOXIN 0.25mg/ml SOLUTION
TAMBOCOR 100mg TAB

DENTAL AGENTS
PERIDEX 0.12% ORAL RINSE **
PERIOSTAT 20mg TAB
PREVIDENT 5000 PLUS & BRUSH-ON GEL
SODIUM FLUORIDE 1.1mg/ml DROPS
TRIAMCINOLONE DENTAL PASTE

DEVICES
EASIVENT HOLDING CHAMBER **
EASIVENT MASK (SM, MED, LG) **
*INSULIN SYRINGE, LO or HIGH DOSE (600 syringes/90 days) **
OPTIHALER INHALER SPACER **
PEAK FLOW METERS (LOW & HIGH RANGE)
*PRECISION XTRA GLUCOSE TEST STRIPS (612 strips/90 days) **
PRECISION XTRA GLUCOSE MONITOR **
PRECISION XTRA BLOOD ß-KETONE STRIPS
TABLET SPLITTER

DIURETICS
ALDACTAZIDE 25mg/25mg TAB
ALDACTONE 25mg & 100mg TAB **
BUMEX 0.5mg, 1mg & 2mg TAB
HYDROCHLOROTHIAZIDE 25mg & 50mg TAB **
HYGROTON 25mg &50mg TAB **
LASIX 20mg, 40mg & 80mg TAB **
MAXZIDE 37.5/25mg & 75/50mg TAB **
ZAROXOLYN 2.5mg & 5mg TAB

EAR AGENTS
AURALGAN OTIC SOLUTION **
COLYMCIN-S OTIC SUSPENSION
CORTISPORIN OTIC SOLUTION & SUSP **
DOMEBORO OTIC SOLUTION
FLOXIN OTIC 0.3% SOLUTION

VOSOL & VOSOL HC OTIC DROPS

EYE AGENTS
ACULAR 0.5% OPH SOLUTION
ALPHAGAN-P 0.1%, 0.15% OPH SOL **
ATROPINE 1% OPH SOLUTION
BACITRACIN OPH OINTMENT
BLEPHAMIDE OPH SUSPENSION
CILOXAN OPH 0.3% SOLU
COMBIGAN OPH SOLUTION
CORTISPORIN OPH SUSPENSION
COSOPT 2%/0.5% OPH SOLUTION
CYCLOGYL 0.5% & 1% OPH SOLUTION
DIAMOX 250mg TAB & 500mg SR CAP
FLAREX 0.1% OPH SOLUTION
GARAMYCIN OPH SOLUTION & OINTMENT **
ILOTYCIN OPH OINTMENT **
ISOPTO HOMATROPINE 2% & 5% OPH SOL
LOTEMAX 0.5% OPH SUSPENSION
LUMIGAN OPH SOLUTION
MAXITROL OPH OINTMENT
MURO-128 5% OPH SOLUTION & OINTMENT
MYDRIACYL 1% OPH SOLUTION
NAPHCON A OPH SOLUTION
NEOSPORIN OPH OINTMENT & SOLUTION **
NEOSYNEPHRINE 2.5% & 10% OPH SOLUTION
PATADAY 0.2% OPH SOLUTION
PATANOL 0.1% OPH SOLUTION
PILOCARPINE 1% , 2%, 4%OPH SOL **
PILOPINE HS 4% OPH GEL **
POLYSPORIN OPH OINTMENT
POLYTRIM OPH SOLUTION **
PRED FORTE 1% OPH SUSPENSION **
PRED MILD 0.12% OPH SOLUTION
SULAMYD 10% OPH OINTMENT & SUSP **
TIMOPTIC 0.25% & 0.5% OPH SOLUTION **
TIMOPTIC-XE 0.25 & 0.5% OPH SOLUTION **
TRUSOPT OPH SOLUTION
VIGAMOX OPH SOLUTION
VIROPTIC 1% OPH SOLUTION
XALATAN 0.005% OPH SOLUTION **
ZYLET 0.5%/0.3% OPH SUSPENSION

ELECTRO/CALORIC/WATER BALANCE
ALAKALINIZING AGENTS
BICITRA
UROCIT-K (all strengths)

AMMONIA DETOXICANTS
CEPHULAC 10gm/15mL SYRUP **

REPLACEMENT ION THERAPY
K-PHOS NEUTRAL TAB
POTASSIUM CHLORIDE 10 mEq TAB **
PHOSLO 667mg GelCap
POTASSIUM CHLORIDE 10% ELIXIR **

URICOSURIC AGENTS
BENEMID 500mg TAB **
COLCHICINE 0.6mg TAB

GASTROINTESTINAL DRUGS
ASACOL 400mg TAB
AZULFIDINE 500mg TAB **
CARAFATE 1gm TAB
CIMETIDINE 300mg, 400mg TB & 300mg/5mL SYR
COMPAZINE 5mg & 10mg TAB & 25mg SUPP
CYTOTEC 200mg TAB
COLACE 100mg CAPSULE
COLYTE SOLUTION
DULCOLAX 5mg TABS & 10mg SUPP
FLEETS ENEMA & PEDIATRIC ENEMA
FLEETS PHOSPHO-SODA
IMODIUM 2mg CAP **
METOCLOPRAMIDE 10mg TAB & 5mg/5mL**
MIRALAX **119g & 238g** POWDER
NEXIUM 20mg & 40mg SR CAP **
NuLYTELY SOLN
PANCREASE (CREON) CAP
PEPTO-BISMOL TAB
PHENERGAN 25mg TAB **
PHENERGAN 12.5mg & 25mg SUPP **
PRILOSEC 10mg & 20mg CAP **

GASTROINTESTINAL DRUGS (cont)
RANITIDINE 150mg TAB & 15mg/mL LIQ **
TIGAN 300mg CAP
TORECAN 10mg TAB
TRILYTE SOLUTION
TRANSDERM SCOP 1.5mg TDRM
*ZOFRAN 4mg & 8mg TAB (45 tabs/90 days)

HORMONES/ REPLACEMENT ADRENALS
CORTEF 5mg & 10mg TAB
CORTONE ACETATE 25mg TAB
DECADRON 0.5mg, 0.75mg & 4mg TAB
FLORINEF 0.1mg TAB
MEDROL DOSEPAK 4mg TAB
ORAPRED 15mg/5mL **
PREDNISONE 1mg, 5mg, 10mg & 20mg TAB **
PREDNISONE 5mg/5mL SOLUTION
PRELONE 15mg/5mL SYRUP

ANDROGENS
METHYLTESTOSTERONE 10mg CAP
TESTOSTERONE TRANSDERM 2.5mg/d & 5mg/d

ANTI-ANDROGEN
EULEXIN 125mg CAP

CONTRACEPTIVES
ALESSE TAB **
DEMULEN 1-35 TAB
IMPLANON SYSTEM
LEVLEN 28 TAB
LO-ESTRIN FE 1.5/30 & 1/20
LO/OVRAL 28 TAB
MICRONOR 28 TAB **
MIRENA IUD
NORDETTE 28 TAB **
NORINYL 1-35 TAB **
NUVARING
ORTHO-NOVUM 7/7/7 TAB
ORTHO-CYLEN 28 TAB **
ORTHO-EVRA PATCH
ORTHO-TRI-CYCLEN 28 TAB **
ORTHO-TRI-CYCLEN LO 28 TAB **
OVRAL TAB
TRI-LEVLEN TAB
YASMIN TAB **
YAZ TAB **

ESTROGENS
ESTRACE 1mg & 2mg TAB
ESTRADERM 0.05mg & 0.1mg TDRM
ESTRATEST & ESTRATEST HS TAB
EVISTA 60mg TAB
FEMHRT 0.5/2.5mg & 1/5mg TAB
PREMPRO TAB (all strengths) **
PREMARIN TAB (all strengths) **
PREMARIN VAGINAL CREAM **

PROGESTINS
AYGESTIN 5mg TAB
DEPO PROVERA 150mg/mL INJ
PROVERA 2.5mg, 5mg, & 10mg TAB **

THYROID-RELATED AGENTS
CYTOMEL 5mcg & 25mcg & 50mcg TAB
PROPYLTHIOURACIL 50mg TAB **
SYNTHROID TABS (all strengths) **

HYPOTENSIVE AGENTS
ADALAT CC 30mg, 60mg & 90mg TAB **
ALDOMET 250mg TAB
APRESOLINE 10mg & 25mg & 50mg TAB **
BETAPACE 80mg, 120mg, & 160mg
CAPOTEN 25mg & 50mg & 100mg TAB **
CARDURA 2mg, 4mg & 8mg TAB **
CATAPRES 0.1mg & 0.2mg TAB **
CATAPRES TTS-1, TTS-2 & TTS-3 TDRM
COREG 3.125mg, 6.25mg, 12.5mg & 25mg TAB
COZAAR 25mg, 50mg & 100mg TAB
DILTIAZEM 60mg TAB
HYTRIN 1mg, 2mg, 5mg & 10mg CAP **
HYPOTENSIVE AGENTS (cont.)
HYZAAR TAB (all strengths)
INDERAL 10mg, 40mg & 80mg TAB
INDERAL LA 60mg, 80mg, 120mg & 160mg CAP
LONITEN 2.5mg & 10mg TAB
LOPRESSOR 25mg & 50mg & 100mg TAB **
LOTREL CAPS (all strengths) **
MICARDIS 20mg, 40mg & 80mg TAB **
MICARDIS HCT (all strengths) TAB **
MONOPRIL 10mg, 20mg & 40mg TAB
NIFEDIPINE 10mg CAP
NORVASC 2.5mg, 5mg, & 10mg TAB**
PLENDIL 2.5mg, 5mg & 10mg TAB
TEKTURNA 150mg TAB
TEKTURNA HTZ 150/12.5, 150/25, 300/12.5, 300/25mg TAB
TENORETIC 50/25mg, 100/25 mg, TAB
TENORMIN 25mg, 50mg & 100mg TAB **
TIAZAC 120mg, 180mg, 240mg, 300mg & 360mg CAP
TOPROL-XL 25mg, 50mg, 100mg & 200mg TAB
TRANDATE 200mg TAB
VERAPAMIL 80mg & 120mg TAB
VERAPAMIL SR 120mg, 180mg & 240mg TAB **
ZESTRIL/PRINIVIL (all strengths) TAB **
ZESTORETIC/PRINZIDE (all strengths) TAB **

MIGRAINE AGENTS
CAFERGOT TAB
FIORICET TAB **
*MAXALT MLT 5mg & 10mg (36 tabs/90 days)
*MAXALT 5mg & 10mg TAB (36 tabs/90 days)
MIDRIN CAP
*IMITREX 6mg INJ (2 syr/box-max 12 boxes/90 days) *
*ZOMIG 2.5mg & 5mg TAB (36 tabs/90 days) **
*ZOMIG ZMT 2.5mg & 5mg TAB (36 tabs/90 days)

MISCELLANEOUS AGENTS
ACTONEL 75mg 150mg TAB
BONIVA 150Mg TAB**
CLOMID 50mg TAB
CUPRIMINE 250mg CAP
DIDRONEL 200mg TAB
DDAVP 0.1mg/mL NASAL SPRAY
EDEX 20mcg & 40mcg INJECTION KIT
FORTICAL NASAL SOLUTION
FOSAMAX 10mg, 35mg, & 70mg TAB **
KAYEXALATE 15gm/60mL SUSPENSION
*LEVITRA (all strengths) TAB (18 tabs/90 days)
> age 50 requires Prior Authorization Form
LUPRON DEPOT 3.75mg, 7.5mg, 11.25mg INJ KIT
NEORAL (GENERIC) 25mg & 100mg CAP
NEORAL 100mg/mL SOLUTION
OXSORALEN 10mg CAP
PARLODEL 2.5mg TAB
PROSCAR 5mg TAB **
STRATTERA 10mg, 18mg, 25mg, 40mg, 60mg CAP
UROXATRAL 10mg TAB **
ZYLOPRIM 100 & 300mg TAB **

NASAL (LOCAL ACTING) AGENTS
AFRIN NASAL SPRAY
*ASTELIN NASAL SPRAY (4 inhalers/90 days) **
*FLONASE NASAL SPRAY (3 inhalers/90 days) **
NASALCROM NASAL SPRAY
*NASONEX NASAL SPRAY (6 inhalers/90 days)

PSYCHOTHERAPEUTICS
AMITRIPTYLINE 10mg, 25mg & 50mg TAB **
BUSPAR 5mg, 10mg & 15mg TAB **
CELEXA 10mg, 20mg & 40mg TAB **
EFFEXOR 25mg, 37.5mg, 50mg, 75mg & 100mg TAB
EFFEXOR XR 37.5mg, 75mg & 150mg CAP
HALDOL 1mg & 5mg TAB
LITHIUM CARBONATE 150mg & 300mg CAP **
NORPRAMIN 25mg & 50mg TAB
PAMELOR 10mg & 25mg CAP **
PAXIL 10mg, 20mg, 30mg & 40mg TAB
PROZAC 10mg & 20mg CAP ** *(Preferred SSRI)*
RISPERDAL TAB (all strengths) & 1mg/mL SOL **
SEROQUEL 25mg, 50mg, 100mg, 200mg & 300mg TAB
SEROQUEL XR 50mg,150mg,200mg,300mg,400mg TAB

PSYCHOTHERAPEUTICS (con't)
SERZONE 100mg, 150mg, 200mg & 250mg TAB
SINEQUAN 10mg & 25mg CAP **
THORAZINE 25mg, 50mg & 100mg TAB
TOFRANIL 10mg & 25mg TAB **
TOFRANIL PM 75mg CAP **
TRAZODONE 50mg, 100mg & 150mg TAB **
WELLBUTRIN SR TABS (all strengths) **
ZOLOFT 50mg & 100mg TABS **
ZYPREXA 2.5mg, 5mg, 7.5mg, 10mg & 15mg TAB
ZYPREXA ZYDIS 5mg, 10mg, 15mg & 20mg TAB

RESPIRATORY AGENTS
* ADVAIR DISKUS (all strengths) (3 disk/90days) **
* ADVAIR HFA (6 inhalers/90days) **
***ASMANEX TWISTHALER (6 inhalers/90days)** **
*ATROVENT HFA INHALER (6 inhalers/90days) **
*ATROVENT INH SOL 0.02% (540 amps/90 days) **
BRETHINE 5mg TAB
COMBIVENT INHALER **
*FLOVENT HFA INH 44mcg, 110mcg & 220mcg (6 inhalers/90 days) **
FLOVENT DISKUS (6 inhalers/90days) **
*INTAL INHALER (6 inhalers/90days)
*INTAL SOL FOR NEBULIZER (540 amps/90days)
NORMAL SALINE 5mL BULLETS
*PROVENTIL 0.083% NEB SOLOLUTION (500 amps/90 days) **
*PROVENTIL 0.5% NEB SOL (9 boxes/90 days) **
PROVENTIL 2mg TAB
*PROVENTIL HFA INHALER (6 inhalers/90days) **
PROVENTIL 2mg/5mL SYRUP
*PULMICORT RESPULES 0.25mg & 0.5mg (360 amps or 720 amps/90 days) **
*SEREVENT DISKUS ** (3 diskus/90 days)
SINGULAIR 5mg & 10mg TABS **
SINGULAIR 4mg CHEW TABS & GRANULES **
*SPIRIVA 18mcg HANDIHALER (90 caps/90 days)
SYMBICORT 80/45 mcg, 160/4.5 mcg INHALER
THEOPHYLLINE 80mg/5mL LIQUID **
*TILADE INHALER (9 inhalers/90 days)
*VENTOLIN HFA INHALER (6 inhalers/90days) **

SCHEDULE II DRUGS (no refills allowed)
ADDERALL 5mg, 10mg,15mg, 20mg & 30mg TAB
ADDERALL XR CAP (all strengths) **
CONCERTA 18mg, 27mg, 36mg & 54mg TAB **
CODEINE SULFATE 30mg TAB
DEMEROL 50mg & 100mg TAB
DEXEDRINE 5mg TAB
DILAUDID 2mg & 4mg TAB
METHADONE 5mg & 10mg TAB
METHYLIN ER 10mg & 20mg TAB
METHYLPHENIDATE 5mg, 10mg TAB, 20mg SR **
MORPHINE SULF (MSIR) 15mg & 30mg TAB **
MS CONTIN TAB (all strengths) **
OXYCONTIN 10mg, 20mg, 40mg & 80mg TAB
PERCOCET 5/325mg TAB **
ROXICODONE 5mg TAB
ROXANOL 20mg/mL SOLUTION

SCHEDULE III, IV & V
(Up to a 90 day supply & refills for a total of 6 months from the date written)
AMBIEN 5mg & 10mg TAB **
ATIVAN 0.5mg, 1mg & 2mg TAB
DARVOCET-N-100 TAB
DARVON-N-100 TAB
HALCION 0.125mg & 0.25mg TAB
KLONOPIN 0.5mg, 1mg & 2mg TAB **
LIBRIUM 5mg, 10mg, & 25mg CAP
LOMOTIL TAB
METHYLTESTOSTERONE 10mg CAP
MIDRIN CAP **
NOVAHISTINE EXPECORANT
PHENOBARBITAL 15mg, 30mg & 100mg TAB **
PHENOBARBITAL 20mg/15ml ELIXIR **
RESTORIL 7.5mg, 15mg & 30mg CAP **
ROBITUSSIN AC SYRUP (120mL bottles)
SERAX 10mg, 15mg, & 30mg CAP
TESTOSTERONE TRANSDERM SYSTEM 2.5mg/day & 5mg/day
TYLENOL #3 TABS & 12/120mg/5mL ELIXIR **
VALIUM 2mg, 5mg & 10mg TAB **
VICODIN 5/500mg ** & 7.5/750mg TAB
XANAX 0.25mg, 0.5mg, 1mg & 2mg TAB

SKELETAL MUSCLE RELAXANTS
FLEXERIL 5mg & 10mg TAB **
LIORESAL 10mg & 20mg TAB
NORFLEX 100mg TAB
ROBAXIN 500mg & 750mg TAB **

SMOOTH MUSCLE RELAXANTS
DETROL LA 2mg & 4mg CAP **
DITROPAN 5mg TAB
DITROPAN XL 5mg, 10mg, 15mg TAB **
URISPAS 100mg TAB

SUPPOSITORIES/ENEMAS
ANUSOL HC 25mg SUPP & 2.5% CREAM **
COMPAZINE 25mg SUPP
CORTENEMA
PHENERGAN 12.5mg & 25mg SUPP **
PRAMOSONE CREAM
PROCTOFOAM HC FOAM
ROWASA ENEMA

TOPICALS
ALDARA 5% CREAM
BACITRACIN OINTMENT
BACTROBAN OINTMENT **
BENZOYL PEROXIDE 10% GEL
BENZACLIN 1%/5% GEL
CAPITROL SHAMPOO
CARAC 0.5% CREAM
CARMOL 20% & 40% CREAM
CLEOCIN 1% TOPICAL SOLUTION **
CORDRAN TAPE
DERMA-SMOOTHE/FS
DESONIDE 0.05% CREAM & OINTMENT
DIFFERIN 0.1%, 0.3% GEL
*DOVONEX CREAM (900gm/90 days)
*DOVONEX SOLUTION (900mL/90 days)
DRYSOL 20% SOLUTION
DUAC GEL
EFUDEX 2% SOL & 5% CREAM
ELDOPAQUE FORTE 4% CREAM
ELDOQUIN 2% CREAM
ELIDEL 1% CREAM
ELIMITE 5% CREAM **
ELOCON 0.1% CREAM
ERYTHROMYCIN TOPICAL 2% SOLN & GEL**
HYDROCORTISONE 1% CREAM & OINTMENT
KENALOG 0.1% CREAM ** & OINTMENT
KENALOG SPRAY
KLARON 10% LOTION
LAC-HYDRIN 12% LOTION
LIDEX 0.05% CREAM, GEL & OINTMENT **
LIDOCAINE VISCOUS 2% SOLUTION
LIDOCAINE 2% JELLY
LIDOCAINE 5% OINT
LIDOCAINE 4% SOLN
LOTRIMIN 1% CREAM & SOLUTION
LUXIQ FOAM 0.12%
MEDIPLAST 40%
METROCREAM 0.75% CREAM
METROGEL 1% GEL *(replaces 0.75%)*
MYCOLOG II CREAM
NIX 1% SOLN
NITROBID 2% OINTMENT
NIZORAL 2% CREAM & SHAMPOO
NYSTATIN CREAM, OINTMENT & POWDER
PRAMOSONE CREAM
PROTOPIC 0.1% & 0.03% OINTMENT
RETIN-A CREAM **, GEL & MICRO GEL
Limited to patients up to and including age 35
SELSUN SHAMPOO **
SILVADENE 1% CREAM **
SYNALAR 0.01% SOLUTION
*TAZORAC 0.1% & 0.5% GEL (300gm/90 days)
*TAZORAC 0.1% & 0.5% CREAM (180gm/90 days)
TEMOVATE 0.05% CRM, OINTMENT, SOLN & GEL
WESTCORT 0.2% CREAM

VAGINAL PREPARARTIONS
CLEOCIN VAGINAL CREAM **
CLOTRIMAZOLE VAGINAL CREAM
METROGEL 0.75% VAGINAL GEL **
PREMARIN VAGINAL CREAM **
TERAZOL-7 VAGINAL CREAM

VASODILATING AGENTS
IMDUR 30mg, 60mg &120mg TAB **
ISORDIL 10mg & 20mg TAB & 40mg SR TAB **
NITROBID 6.5mg CAP
NITRO-DUR 0.1mg, 0.2mg, 0.3mg, & 0.4mg TDRM **
NITROGLYCERIN 0.3mg & 0.4mg SL TAB **
NITROLINGUAL SPRAY **
PERSANTINE 25mg, 50mg & 75mg TAB

VITAMINS/MINERALS
CYANOCOBALAMIN 1mg/mL INJ VIAL
FOLIC ACID 1mg TAB **
LURIDE 2.2mg TAB
MEPHYTON 5mg TAB
MULTIVITAMIN WITH AND WITHOUT IRON
MULTIVITAMIN SOL WITH FLUOR & IRON
MULTIVITAMIN DROP
MULTIVITAMIN DROP WITH IRON
PRENATAL VIT W/FOLIC ACID 1mg TAB **
limited to women up to and including age 45
NIACIN 50mg & 500mg TAB
NIASPAN 500mg, 750mg & 1000mg TAB**
PYRIDOXINE 50mg TAB
ROCALTROL 0.25mg, 0.5mg CAP
THIAMINE 50mg TAB
VITAMIN B-12 1000mcg/ml INJ
VITAMIN D 1000 IU CAP
VITAMIN D 50,000 UNIT CAP
WELLCOVORIN 5mg TAB

ITEMS REMOVED
AZMACORT INHALER per DoD 12May 120 days
AEROBID INHALER per DoD 12May+ 120 days

FOSAMAX D (still have Fosamax)
NULYTELY SOLUTION (replaced w/TriLyte
TRICOR (replaced with Fenoglide)
TRIGLIDE (replaced with Fenoglide)
MIACALCIN (replaced with Fortical)

ITEMS RECENTLY ADDED
***ASMANEX TWISTHALER (6 inhalers/90days)** **
***FLOVENT DISKUS (6 inhalers/90days)** **

JANUVIA 25MG, 50MG, & 100MG TAB
JANUMET 500MG/50MG; 1000MG/50MG TAB

TENORETIC 50/25mg, 100/25 mg, TAB April 09
IMPLANON SYSTEM April 09
ACTOS 15MG, 30MG & 45MG TAB
VITAMIN D 1000 IU CAP

ACTONEL 75mg 150mg TAB
ALCOHOL PADS FOR DIABETICS
FENOGLIDE 40mg & 120mg TAB **
FORTICAL NASAL SOLUTION
LANCETS FOR DIABETIC TESTING
PATADAY 0.2% OPH SOLUTION
SEROQUEL XR 200mg, 300mg, 400mg TAB **
SYMBICORT 80/45, 160/4.5 INHALER
TEKTURNA 150mg TAB
TEKTURNA HTZ 150/12.5, 150/25, 300/12.5, 300/25mg TAB

Resource Conservation and Recovery Act (RCRAInfo)

Query Results

Report an Error

RCRAInfo

Data Disclaimer...

Consolidated facility information (from multiple EPA systems) was searched to select facilities

Handler ID: Beginning With: IL7570024177

Results are based on data extracted on NOV-14-2008

Note: Click on the underlined CORPORATE LINK value for links to that company's environmental web pages. Click on the underlined MAPPING INFO value to obtain mapping information for the facility.

Go To Bottom Of The Page

HANDLER NAME:	US AIR FORCE/SCOTT AIR FORCE BASE	HANDLER ID:	IL7570024177
STREET:	701 HANGAR ROAD	FACILITY INFORMATION:	View Facility Information
CITY:	BELLEVILLE	CORPORATE LINK:	No
STATE:	IL	COUNTY:	SAINT CLAIR
ZIP CODE:	622255035	MAPPING INFO:	MAP
EPA REGION:	5	RCRA Corrective Action:	PROFILE

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
VTESH CHELLAPPA					6182562125	Public

LIST OF NAICS CODES AND DESCRIPTIONS

NAICS CODE	NAICS DESCRIPTION
5133	Telecommunications
336999	All Other Transportation Equipment Manufacturing
48811	Airport Operations
92811	National Security
22132	Sewage Treatment Facilities
56173	Landscaping Services
81292	Photofinishing
336412	Aircraft Engine and Engine Parts Manufacturing
334412	Bare Printed Circuit Board Manufacturing
541921	Photography Studios, Portrait
92119	Other General Government Support

Last updated on Thursday, March 12th, 2009.

Facility Registry System (FRS)

Facility Detail Report

FRS

Report an Error

Facility Name:	US AIR FORCE/SCOTT AIR FORCE BASE
Location Address:	701 HANGAR ROAD
Supplemental Address:	375 AIRLIFT WING
City Name:	BELLEVILLE
State	IL
County Name:	SAINT CLAIR
ZIP/Postal Code:	622255035
EPA Region:	05
Congressional District Number:	12
Legislative District Number:	
HUC Code:	07140204
Federal Facility:	YES
Federal Agency:	U.S. AIR FORCE
US Mexico Border Indicator:	NO
Tribal Land :	NO
Latitude:	38.536877
Longitude:	-89.860197
Method:	ADDRESS MATCHING-HOUSE NUMBER
Reference Point Description:	
Duns Number:	
Registry ID:	110000438964

Illinois Region 6
Collinsville
Chris Cahnovsky
Manager
618-346-5120

Map this facility

Environmental Interests

Information System	Information System ID	Environmental Interest Type	Data Source	Last Updated Date	Supplemental Environmental Interests:
ACES	170000144788	STATE MASTER	ACES		-163815AAA AIR PROGRAM
ACES	170001465386	STATE MASTER	ACES		-IL0026859 NPDES PERMIT
ACES	170001491892	STATE MASTER	ACES		-ILR002659 NPDES PERMIT
AIRS/AFS	1716300135	AIR SYNTHETIC MINOR ()	AIRS/AFS	10/07/2008	
CERCLIS	IL7570024177	SUPERFUND	CERCLIS		

NCDB	C05#08288913880100	COMPLIANCE ACTIVITY	NCDB		
NCDB	C05#09209013890100	COMPLIANCE ACTIVITY	NCDB		
NCDB	I05#198908281388 1	COMPLIANCE ACTIVITY	NCDB		
NCDB	I05#1990051705GRG 1	COMPLIANCE ACTIVITY	NCDB		
NCDB	I05#199009201389 1	COMPLIANCE ACTIVITY	NCDB		
NCDB	I05#19930930IL003 1	COMPLIANCE ACTIVITY	NCDB		
NCDB	I05#19940927IL003 1	COMPLIANCE ACTIVITY	NCDB		
NCDB	I05#19980929FEP11 1	COMPLIANCE ACTIVITY	NCDB		
NEI	NEI53046	CRITERIA AND HAZARDOUS AIR POLLUTANT INVENTORY	NEI		
NPDES	IL0026859	ICIS-NPDES MAJOR	ICIS	03/16/2005	**ICIS-** ENFORCEMENT/COMPLIANCE ACTIVITY
NPDES	ILR002659	ICIS-NPDES NON-MAJOR	ICIS	06/01/2003	
NPDES	ILR400611	ICIS-NPDES NON-MAJOR	ICIS	09/15/2004	
PCS	IL0026859	NPDES MAJOR	NPDES PERMIT	09/03/2004	
PCS	ILR002659	NPDES NON-MAJOR	NPDES PERMIT	06/01/2003	
PCS	ILR400611	NPDES NON-MAJOR	NPDES PERMIT	01/07/2004	
RCRAINFO	IL7570024177	CORRECTIVE ACTION (ACTIVE)	RCRAINFO	03/01/2006	
RCRAINFO	IL7570024177	UNIVERSAL WASTE HANDLER (ACTIVE)	RCRAINFO	03/01/2006	
RCRAINFO	IL7570024177	LQG (ACTIVE)	EPA INSPECTION	03/01/2006	
RCRAINFO	IL7570024177	HAZARDOUS WASTE BIENNIAL REPORTER (ACTIVE)	RCRAINFO	12/31/2005	
RCRAINFO	IL7570024177	TSD (ACTIVE)	EPA INSPECTION	03/01/2006	
TRIS	62222SCTTR701HA	TRI REPORTER	TRI REPORTING FORM	06/30/2008	

Facility Mailing Addresses

Affiliation Type	Delivery Point	City Name	State	Postal Code	Information System

ALTERNATE MAILING ADDRESS	375 CES/CEVC 701 HANGER ROAD	SCOTT AFB	IL	62225	PCS
OWNER	375 CES/DEMWW	SCOTT AIR FORCE BASE	IL	62225	NPDES
[redacted]NER	701 HANGER ROAD	SCOTT AFB	IL	62225	NPDES
[redacted]CILITY MAILING ADDRESS	701 HANGER RD	SCOTT AIR FORCE BASE	IL	622255035	AIRS/AFS
OWNER	701 HANGER ROAD	SCOTT AFB	IL	62225	PCS
PRIMARY MAILING ADDRESS	701 HANGAR ROAD, BLDG 3300	SCOTT AIR FORCE BASE	IL	62225	PCS
PRIMARY MAILING ADDRESS	701 HANGAR RD	SCOTT AIR FORCE BASE	IL	62225	PCS
OWNER	375 CES/CEV 702 HANGER RD	SCOTT AFB	IL	622255035	RCRAINFO
FACILITY MAILING ADDRESS	375 CES/CEV 702 HANGAR RD	SCOTT AFB	IL	622255035	RCRAINFO
MAILING ADDRESS	701 HANGAR ROAD, BLDG 3300	SCOTT AIR FORCE BASE	IL	62225	NPDES
MAILING ADDRESS	701 HANGAR RD	SCOTT AIR FORCE BASE	IL	62225	NPDES
OWNER	375 CES/DEMWW	SCOTT AIR FORCE BASE	IL	62225	PCS
OPERATOR	375 CES/CEV 702 HANGER RD	SCOTT AFB	IL	622255035	RCRAINFO
FACILITY MAILING ADDRESS	702 HANGAR RD 375 CES/CEV	SCOTT AFB	IL	62225	TRIS

NAICS Codes

Data Source	NAICS Code	Description	Primary
NEI	928110	NATIONAL SECURITY.	
RCRAINFO	92811		

SIC Codes

Data Source	SIC Code	Description	Primary
PCS	9711	NATIONAL SECURITY	
NPDES	9711	NATIONAL SECURITY	
AIRS/AFS	9711	NATIONAL SECURITY	
TRIS	9711	NATIONAL SECURITY	
NEI	9711	NATIONAL SECURITY	
NCDB	GF		
NCDB	GF		

Contacts

[redacted]ffiliation Type	Full Name	Office Phone	Information System	Mailing Address
PUBLIC CONTACT	CHRISTINE SPARGUR	6182564241	TRIS	
COGNIZANT OFFICIAL	DEPARTMENT OF THE AIR FORCE	6182564165	PCS	

REGULATORY CONTACT	VTESH CHELLAPPA	6182562125	RCRAINFO	
PERMITTING CONTACT			RCRAINFO	
COGNIZANT OFFICIAL	DON KOLNSBERG	6182562927	PCS	

Organizations

Affiliation Type	Name	DUNS Number	Information System	Mailing Address
OWNER	SCOTT AIR FORCE BASE		NPDES	View
MAILING ADDRESS	SCOTT AIR FORCE BASE		NPDES	View
MAILING ADDRESS	SCOTT AIR FORCE BASE		NPDES	View
OWNER	SCOTT AIR FORCE BASE		PCS	View
OPERATOR	SCOTT AFB		RCRAINFO	View
OWNER	DEPARTMENT OF THE AIR FORCE		NPDES	View
OWNER	DEPARTMENT OF THE AIR FORCE		PCS	View
OWNER	SCOTT AFB 375 CES/CEV		RCRAINFO	View

Alternative Names

Alternative Name	Source of Data
U.S. AIR FORCE SCOTT AIR FORCE BASE	TRI REPORTING FORM
US AIR FORCE SCOTT AFB	EPA INSPECTION
SCOTT AIRFORCE BASE	NCDB
SCOTT AFB/D KOLNSBERG	ACES
DEPARTMENT OF THE AIR FORCE	NPDES PERMIT
SCOTT AFB	NPDES PERMIT
U.S. AIR FORCE SCOTT AFB	TRI REPORTING FORM
US AIR FORCE	AIRS/AFS
SCOTT AIR FORCE BASE	PCS

Query executed on: MAR-12-2009

Additional information for CERCLIS or TRI sites:

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* National Library of Medicine (NLM) EXIT EPA TOXMAP

375 CES/CEAN
Natural Resources Management

Mission

- Assist the Wing in complying with environmental laws and avoidances of Notices of Violation (NOVs)/Enforcement Actions (EAs)

- Provide primary support for mission protocols; Conservation, Compliance, Pollution Prevention and Restoration

- Build supporting financial programs and budgets by using management tools such as the Environmental, Safety and Occupational Health Council (ESOHC), the Environmental, Safety and Occupational Health Compliance Assessment and Management Program (ESOHCAMP), and the Environmental Impact Analysis Process (EIAP)

Organization

- Chief - John Patterson
- Air Quality & Hazardous Waste* - Mark McCoy, P.G.
- Natural/Cultural - Cindy Nolan, P.G.
- P2, Recycling & eMS* - Carla Daggitt, P.E.
- Restoration* - Richelle Collingham
- Toxics & EOHCAMP - Carolyn Byrd
- USTs, ASTs & Spills – Jim Bergmann, CHMM
- Water/Waste Water - Dave Lewis and Vanessa Frangos

* Contractor personnel support for eMS/EPCRA-TIER II, HAZMAT Pharmacy, 90 Day Collection Point and Restoration

Air Quality Program
Mark McCoy, P.G. (256-2167)

- **Protocol Duties**
  - Ensure all required base permits are current IAW the Federally Enforceable State Operating Permit (FESOP)
  - Review/comment on all demolition and construction plans for potential permit requirements

- **Squadron Support**
  - Notify CEAN of any potential issue regarding Air Quality (generators, airplanes) as soon as possible
  - Comply with applicable air quality guidance
    (40 CFR 60, 35 IAC Subtitle B, AFI 7040)

Hazardous Waste Program
Mark McCoy, P.G. (256-2167)

- **Protocol Duties**
  - Ensure base compliance with existing regulations regarding hazardous waste storage IAW SAFB Hazardous Waste Management Plan (HWMP)
  - Review/comment on all demolition and construction plans for potential hazardous waste
  - Ensure all hazardous waste is properly manifested for off-base transportation and disposal IAW 49 CFR 105. CEAN signs all manifests

- **Squadron Support**
  - Comply with applicable hazardous waste guidance (40 CFR 262, 35 IAC Subtitle G, AFI 32-7042, AFPAM 32-7043)

Natural/Cultural
Cindy Nolan, P.G. (256-2492)

- **Protocol Duties**
  - Ensure base compliance with Federal and State laws and AF policy
  - Document historical buildings and the impact of any base construction/repair/demolition work. Base advocate with Illinois SHPO
  - Administer in place MOA between Scott AFB and SHPO for minor repairs to historical buildings. Eliminates wait time for SHPO project approval

- **Squadron Support**
  - Notify CEAN of any planned impacts to historical buildings as soon as possible. SHPO documentation and approval can take 6-12 months
  - Notify CEAN if a planned project has the potential to affect natural resources on the base (lakes, wooded areas, wetlands) as soon as possible. Impacts may require COE, federal and state permits. Process can also take 6-12 months

P2, Recycling and eMS
Carla Daggitt, P.E. (256-2531)

- Protocol Duties/Squadron Support
- P2 (Pollution Prevention)
  - Ensure compliance with P2 regulations
  - Support purchase of equipment/materials/products that reduce pollution and disposal costs
- Recycling
  - Serve as base Qualified Recycling Program Manager. Contract QA by CEO. Base Collection Area located in former trailer park area by CE Yard; Hours M-F 0730-1600 (paper, cardboard, aluminum cans, plastic, toners, metals)
  - Maximize recycling to meet base diversion rate goal. Recycling includes construction debris
- eMS (Environmental Management System)
  - Serve as eMS coordinator under the base eMS Chairman (375 MSG/CD)
  - Ensure eMS awareness for all personnel (includes contractors); watch video/read eMS handout

Restoration
Richelle Collingham (256-2125)

- **Protocol Duties**
  - Protect human health and environment by cleaning up contamination resulting from past activities
  - Ensure cleanup activities are conducted IAW Federal and State regulations and Air Force policy. Primary POC with regulators
  - Program and budget cleanup requirements, including remedial action operation activities, which may extend 30 years beyond the Remedy in Place (RIP)
  - Ensure community involvement in the cleanup process as required by the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

- **Squadron Support**
  - Notify CEAN of planned work in/adjacent to restoration sites as soon as possible
  - Ensure personnel are aware of potential health hazards if working in or adjacent to a restoration site
  - Document land available for beneficial reuse after cleanup

Toxics and EOHCAMP
Carolyn Byrd (256-2387)

- **Protocol Duties**
  - Toxics covers asbestos, lead based paint, mold, PCBs, pesticides and radon gas
  - Provide licensed inspection/sampling for small projects
  - Provide partial database of toxics
  - Review/comment on all demolition and construction plans for potential toxics
  - Manage Environmental and Occupational Health Compliance Assessment and Management Program (EOHCAMP). Coordinate EOHCAMP activities with UECs

- **Squadron Support**
  - Include environmental toxic specifications in designs/contracts. Designs should investigate/address toxics

USTs, ASTs, & Spills

Jim Bergmann, CHMM (256-3452)

- **Protocol Duties**
  - Submit/maintain permits for USTs and ASTs
  - Provide 40 Hr/8-Hr Refresher Training for spill team IAW 29 CFR 1910.120
  - Review/comment on all demolition and construction plans for potential permit requirements

- **Squadron Support**
  - Complete/document tank inspections and training (SPCC) (IAW 40 CFR 112)
  - Notify CEAN of actions which affect POL storage (USTs, ASTs, drums) as soon as possible

Water, Storm Water & Wastewater
Dave Lewis (256-2319)

- **Protocol Duties**
  - Ensure compliance with IEPA for water, storm water and waste water programs
  - Review/comment on all demolition and construction plans for program compliance and required water, storm water and waste water permits

- **Squadron Support**
  - Include permit requirements in designs/contracts
  - Notify CEAN of actions which may affect water, storm water and waste water as soon as possible

OVERVIEW OF SCOTT AIR FORCE BASE (SAFB)

SAFB MISSION (EDITED FROM SAFB WEBSITE www.scott.af.mil)

The 375th Airlift Wing (AW) makes possible the command and control of the United States' entire military transportation effort. As the host unit, the 375th AW supports four major headquarters and a numbered air force with worldwide responsibilities: U.S. Transportation Command, Air Mobility Command, the Surface Deployment Distribution Command, Defense Information Technology Systems Agency and the 18th Air Force. It also provides support for the Air Force Communications Agency, the Defense Information Technology Contracting Office, the 932nd Airlift Wing (Reserve) and the Illinois Air National Guard's 126th Air Refueling.

Scott Air Force Base maintains an airport with an 8,000-foot runway, an Air Traffic Control Tower (built in 1997), and 22 home-based aircraft.

C-9A Nightingale (3 total)
-- The C-9A is a modified version of Boeing DC-9, and is the only aircraft in the Air Force inventory specifically designed for movement of litter and ambulatory patients.
-- Flown and maintained by the 932nd Airlift Wing
-- Can carry 40 litter patients or 40 ambulatory and four litter patients, or combinations of those
-- Maneuvers a hydraulically-operated folding ramp, a separate ventilation system for patients requiring isolation and medical refrigerator

C-21A (12 total)
-- The C-21A is the military version of the Learjet 35A business jet
-- Wing owns all US-based C-21s, 50 total aircraft, operating out of 6 locations throughout the US
-- Mission provides cargo and passenger airlift; carries 8 passengers and 42 cubic feet of cargo space

KC-135E (11 total) - The KC-135E is a modified Boeing 707
-- The mission is to provide air refueling to virtually all Air Force, Navy and Marine Corp aircraft
-- Flown and maintained by the 126th Air National Guard
-- Max offload is 200,000 lbs. of fuel.

KEY STATISTICS (EDITED FROM SAFB WEBSITE www.scott.af.mil)

How many buildings are on Scott? Besides family housing, there are 963 buildings, comprising more than 7 million square feet of space. Of those buildings, 37 are on the National Registry of Historic Places.

How many people are assigned to Scott AFB? Scott has roughly 5,800 active duty military and 2,000 Air National Guard and Air Force Reserve members, as well as approximately 8,314 family members assigned. The base also employs more than 3,100 Federal civilian employees and more than 2,400 non-appropriated fund contract civilians and private business employees. There are an estimated 17,000 retired military members in the local area.

How many single family housing units are on Scott AFB? Scott AFB has about 1,400 family housing units.

Scott AFB comprises how many acres? Scott AFB is 2,560 acres. The base also has easement/right of way to another 1,029 acres.

BASIC AIR FORCE ORGANIZATION AND KEY ACRONYMS

Air Force Bases (AFBs) are typically large complexes around central runways and taxiways with the apron areas next to aircraft support buildings. AFBs typically have a Host Wing and numerous tenants that sometimes are included in the Host Wing's environmental programs, but some others may not. For example, an Air National Guard Tenant, might be covered under the Host Wing's SPCC Plan and NPDES/Storm Water Permit, but might have their own RCRA Generator ID number. Some tenants have environmental staff, others rely on the Host Wing and/or regional expertise within their organization.

Most contact for environmental programs is with the Civil Engineering Dept. (CE) and the environmental group (CEV). The BioEnvironmental Engineer (BEE) may also be involved with EPCRA issues and sampling and analysis of water, wastewater, and wastes. POL, which stands for Petroleum, Oils, and Lubricants, is a generic term used to cover the fuel and oil supply areas as well as the people that are involved with them. Liquid Fuels Maintenance (LFM) maintains the equipment that stores and supplies POL. Many AFBs use a central Pharmacy system to dispense hazardous materials and restrict the amount provided to different shops. AGE stands for Aerospace Ground Equipment which support the aircraft. Corrosion control is the term for the organization that would be involved with resurfacing and painting aircraft.

The key areas of the base to visit include aircraft maintenance, vehicle maintenance, heat/power plant, civil engineering shops, POL facilities, hazardous waste storage areas, treatment plants (if any), and key tenants.

ENVIRONMENTAL COMPLIANCE DATA FROM OTIS

According to the OTIS data for SAFB, the facility has four CAA Permits, three CWA Permits, is a TSDF and LQG for RCRA, and submitted TRI reports up until 2005 for chlorine and ethylene glycol. The last inspection for CAA was on 9/25/08 and no enforcement actions were noted in the OTIS record for the past 5 years. The last inspection for CWA was on 4/15/08 for the Major NPDES Permit; the last inspection for the second CWA Permit was on 1/28/03; and never for the third Permit. The facility was in noncompliance with one of the CWA Permits for 8 of the last 9 quarters, but no enforcement actions were noted in the OTIS record for the past 5 years. The last RCRA inspection was on 8/19/08 and the last RCRA enforcement action was an NOV on 6/15/04.

LOCATION/DIRECTIONS (EDITED FROM GOOGLE)

SAFB is located about 20 miles east of St. Louis and near Belleville and O'Fallon, IL. From St. Louis Airport, proceed east on I-70 for about 16 miles to I-64 east and then another 16 miles to exit 19A and follow signs to SAFB. From Chicago, proceed South on I-55 to the Collinsville area to take 159 south to I-64 east or proceed further to I-255 south to I-64 east to stay on interstates. Then take exit 19A and follow signs to SAFB.

SUGGESTED HOTELS (BASED ON RECOMMENDATIONS FROM TRIPADVISOR.COM)

The Drury Inn in O'Fallon, IL was the highest rated hotel in the area, followed by the Days Inn and Sleep Inn, also in O'Fallon.

SPILL LOG

DATE	TIME	LOCATION	MATERIAL	QUANTITY	SURFACE INFORMATION	ENTER WATERWAY	REPORTABLE	INCIDENT NUMBER	IMMEDIATE ACTION	CAUSE
8-Mar-04	unknown	Shiloh housing area	hydraulic oil	10 -15 gal	pavement and entered storm drain	yes	yes	H20040302	Oil absorbent boom placed at storm water inlet. Pads placed along ditch to collect oil.	Broken hydraulic line on a service truck.
17-Mar-04	1630	POL Fillstand	JP-8	10 gal	Containment area	no	no		Absorbent pads used to clean up spill.	High level shutoff failed during fillstand operations
12-Nov-04	unknown	Street near Bldg 61	hydraulic oil	5-10 gal	pavement	no	no		Absorbent clay was placed on fluid, swept up, and placed in drums.	Broken hydraulic line street sweeper.
27-Feb-05	afternoon	In front of Bldg 560	JP-8	100 gal	pavement/grass	no	yes	H20050295	Spill contained and picked up with spill control materials. Waste was put in drums.	Overfill device on refueling vehicle did not activate during fuel transfer.
23-Sep-05	1200	Bulk Fuels Area	MOGAS	10 gal	concrete	no	no		Spill occurred in containment area. Fuel evaporated.	Pump seal malfunction on fuel truck.
19-Oct-05	830	Behind Bldg. 1513	water/herbcide mixture	20 gal (contained 2.2 oz Gallery and 4 oz pennant Magnum)	pavement	no	no		Spill was contained and picked up with absorbant and pads. Waste was drummed and disposed through HAZ Waste facility.	Hose came off a contractor's truck.
10-Jan-06	1903	Railroad Tracks South of South Dr	gasoline	13 gal	rock & railroad tracks	no	no			A car was hit by a train on the tracks and dragged 1/4 mile.
24-Feb-06	1200	Bldg 4010 TMO parking Lot	hydraulic oil	10-12 gal	asphalt	no	no		Absorbent was placed on the spill. The waste was picked up and disposed through HAZ Waste facility.	A hydraulic line on a truck was pinched during loading.
21-Mar-06	7:30-8:00	Tank 8733 Bulk Fuels Area	JP-8	1 gal	concrete dike	no	no		Spill occurred in dike. Small amount allowed to go to the OWS during draining	Repairs were being completed by a contractor on high level alarms. JP-8 spilled from the sensing line for the hydraulic control valve.
18-Apr-06	morning	Airmen Leadership School	water/herbcide mixture	20 gal (contained 2.2 oz Gallery and 4 oz pennant Magnum)	pavement	no	no		absorbant was placed on spill and material picked up.	Operator thought he was transferring mixture from small tank to large tank but was actually doing the reverse. Overfilled the the small tank.
20-Apr-06	1931	Fillstand #2	JP-8	15 gals	Containment area	no	no		absorbant was placed on fuel on the concrete and a small amount went to the retention basin	High level shutoff failed during fillstand operations
5-Jun-06		Flightline	JP-8	1 qt	pavement	no	no		absorbant used to pick up fuel	leaking C-130
17-Aug-06	1110	ILANG apron BRAVO 3	JP-8	15-20 gals	pavement	no	yes	H20061044	Absorbants and booms used to block drains and to contain on pavement.	Malfunction of wing valve on KC-135 aircraft.

9-Sep-06		Housing Area	hydraulic oil	1 qt	pavement	no	no		absorbant used to pick up oil.	leaking trash truck
14-Sep-06	1400	POL Yard - USTs Headers	Diesel	20 gals	Pavement and containment area	no	no		Absorbants and booms used to block drains and to contain on pavement.	Human error - attempted to fill a full truck.
28-Nov-06	1230	Bldg 1600 - Radio Room Second Floor	Sulfuric Acid	8 oz	metal rack and onto plastic	no	no		Plastic container placed under drip. Aborbants used	UPS battery was leaking.
9-Mar-07	1100	Fillstand	JP-8	15-20 gals	Containment area	no	no		Spill pads and booms used to contain fuel. A small amount entered the contaiment basin.	Equipment Malfunction
12-Mar-07	1500	Outside Mascoutah Gate	Transmission fluid	2 gals	pavement	no	no		Fire Dept provided pads to absorb fluid	Transmission line on Peterson landscaping truck ruptured.
14-Mar-07	745	Bldg 1575	Halon 1301	50 lbs	air	no	yes	NRC: 829142 IEMA: H2007-0308	Bldg evacuated. Oxygen level tested. Area ventilated.	The system is being removed. Contractor was working on removal.
15-May-07	842	Taxiway F	JP-8	3-5 gals	Pavement and storm drain	yes	yes	NRC: 835402 IEMA: H20070649	Boom/absorbent placed on pavement. Drain covers removed and absorbents used to pick up fuel.	Gauge malfunctioned during fueling.
17-May-07		Fillstand	JP-8	10 gal	Containment area	no	no		6 gallons recovered and remaining picked up w/absorbents	
24-May-07	1400	Bldg 700	antifreeze	1 pt	storm drain	yes	no		storm drain was dry which allowed the antifreeze to be picked up with absorbents.	Malfunction on a dump truck headed in for maintenance.
8-Jul-07	17:18	Fillstand	JP-8	20 gals	Containment area	no	no		Drains were blocked and 15 gals of fuel was recovered. Approximately 5 gallons did enter the containment basin.	Mechanical failure of the high level shut off and inaccurate inventory on truck prior to filling.
11-Jul-07	15:40	Fillstand	JP-8	5 gals	Containment area	no	no		"Pig Putty" was used to stop the leak on the truck, drains were blocked, and absorbents used to pick up fuel.	Gasket between tank and bottom loader failed on R-11 refueler.
31-Jul-07	1530	CE yard (Bldg 543)	hydraulic oil	5-10 gallons	Pavement	no	no		Absorbent was placed on the spill.	Pinch line on a contractor's truck.
18-Sep-07	1030	Refueler Parking Area	Diesel	1-2 gallons	Pavement	no	no		Absorbents used to clean-up fuel.	Nozzle on C-300 truck did not shut off during filling of a jerrycan. Truck taken out-of-service for a new nozzle.
8-Jan-08	1010	Parking Lot Bldg 505	gasoline	6 gallons	Pavement & Storm Drain	yes	yes	NRC: 859115 IEMA: H20080032	Absorbents were placed around storm drain and used to pick up sheen on puddles on pavement. A boom was placed downstream of outfall.	A fuel line leaked on a delivery van. The truck was towed in for repairs.
11-Jan-08	1045	Mascoutah Gate	antifreeze and transmission oil	antifreeze undetermined 2 qts oil	soil	no	no		Absorbents were used to soak up oil.	A commercial truck hit a barrier coming into the Mascoutah Gate.

27-May-08	1115	Patriots Landing 4826C Paine Cir	Hyrdraulic Fluid	45 Gallons	Street &<1 gallon storm drain	yes	yes	NRC 872184 IEMA: H20080727	Absorbents were used to soak up hydraulic fluid and block drains. A vacuum truck cleaned the area after the absorbents were picked up and	A garbage truck ruptured a hydraulic line.
4-May-09	2358	Flightline near Spot 1	JP-8	3 gallons	pavement	no	no		Emergency shutoff valve and filter separator isolation valve were closed to stop leak. Absorbents were used to clean up spill area	Fuel was leaking from pump housing area on refueler (91L030) after refueling aircraft at Spot 1.

IAP Manager Refresher Training
Course Overview

Course Objective: This training is designed to meet requirements outlined in the Resource Conservation Recovery Act and to ensure that personnel handling hazardous waste at Initial Accumulation Points (IAP) are trained to perform their duties in accordance with federal, state and local regulatory standards and requirements. Federal and state regulatory requirements and Airforce Pamphlet 32-7043 have been used to develop this training.

Training participants will be given ample opportunity to ask questions throughout this training and will demonstrate a working knowledge through participation in two group-oriented practical exercises (group tests).

Training Requirements

All personnel involved in handling hazardous waste must be trained in proper waste management procedures to include all EPA, OSHA, and DOT requirements. Training requirements for hazardous waste operations and emergency response can be found in AFI 32-4002, *Hazardous Materials Emergency Planning and Response Compliance.* [40 CFR 262.34(a)(4) and (d)(5)(iii), 40 CFR 264/265.16, 29 CFR 1910.120(q), 29 CFR 1910.1200(h)(2), Subpart H of 49 CFR Part 172, and 49 CFR 177.816]

Personnel Requiring Training. All Air Force personnel, whose jobs entail handling, monitoring, storing, or disposing of hazardous waste must be properly trained prior to performing any tasks involving hazardous waste. This includes, but is not limited to, persons who perform the following:

- operate accumulation points;
- decide which wastes are hazardous waste;
- fill hazardous waste containers or tanks;
- remove hazardous waste from accumulation tanks or containers;
- transport hazardous waste to or from accumulation points;
- inspect hazardous waste accumulation points, storage, treatment, or disposal facilities;
- complete hazardous waste manifests;
- transport hazardous wastes to or from storage and treatment units and disposal facilities; and
- perform hazardous waste clean-up (non-emergency response).

Training Frequency. All such personnel must successfully complete initial and annual refresher hazardous waste training. All supervisors of personnel performing hazardous waste activities must successfully complete hazardous waste management training before they supervise hazardous waste operations.

Air Force Training Programs. EPA and OSHA require two general components to this training:

- how to perform duties in a way that ensures the facility's compliance with all regulations, and
- how to respond to emergencies involving hazardous waste.

To fully comply with all regulations, both programs must be tailored to meet each installation's specific requirements. Unique procedures for waste determination, accumulation, transportation, and turn-in, must be incorporated into the training program, along with an installation's specific emergency response procedures. All hazardous waste training must cover, at a minimum, the training elements listed in Table 8.1, AF PAM 32-7043, to include the most current federal, state, and local requirements.

Hazard Communication Training. Although 29 CFR 1910.1200, *Hazard Communication Standard*, does not specifically apply to hazardous waste, the DoD *Federal Hazard Communication Program* (AFOSHTD 161-21-1W and AFOSHTD 161-21-1G) can be used to help train personnel in the hazards, harms, general precautions and procedures for hazardous wastes.

Training Documentation. Training records must document previous training received, type of present training, date, instructor, test score, and projected date of refresher training. Training records must be maintained as long as the individual is associated with the facility, and for 3 years after the individual is no longer working with, hazardous waste. There are two methods for documenting training. Individual supervisors must use AF Form 1098, Special Task Certification and Recurring Training, or the installation hazardous waste training manager may also maintain the hazardous waste centralized records. [40 CFR 264/265(d) and (e)]

Introduction to RCRA and Other Laws and Regulations

Regulation of hazardous waste management evolved primarily from amendments to the Solid Waste Disposal Act (SWDA), passed in 1965 to focus on municipal waste disposal practices at sites such as dumps and landfills. Before enactment of the Resource Conservation and Recovery Act (RCRA) in 1976, there were few federal laws or standards regulating the management of hazardous waste. Regulation of these materials was primarily left up to the state and local governments. The 1984 passage of the Hazardous and Solid Waste Amendments (HSWA) of RCRA established the current framework for hazardous waste management requirements.

RCRA. In 1976, Congress passed RCRA, which established a national program to protect human health and the environment from improper handling of solid waste and to encourage conservation of natural resources. RCRA mandates a **cradle-to-grave** system of managing hazardous waste and directs the EPA to establish and enforce regulations for the management of hazardous waste.

Federal regulations implementing RCRA are promulgated through the ***Federal Register*** and compiled annually into the Code of Federal Regulations (CFR). Regulations define how law or statute's broad policy directives are to be implemented. RCRA requirements are found in 40 CFR Parts 240 through 280. RCRA, as amended by Hazardous and Solid Waste Amendments, consists of 10 Subtitles, A through J. Subtitle C is the RCRA section pertinent to hazardous waste. The Staff Judge Advocate maintains the most current versions of each of these regulations. Failure to comply can potentially result in criminal and civil penalties. Therefore, knowledge of all hazardous waste requirements is crucial to successful hazardous waste management.

Other Applicable Federal Laws and Regulations. Although RCRA is the primary regulation guiding Air Force hazardous waste management practices, other legislation and regulations impact hazardous waste management. The impact of these laws on an installation varies depending on the types of waste produced, as well as the media (land, water, or air) into which the wastes can be released. **IAC, 40 CFR=RCRA, 49 CFR=DOT, 29 CFR=OSHA (HAZCOM), AFI 32-7042 (AF HWMP)**

Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA). CERCLA regulates all hazardous substances. It was established in 1980 to clean up inactive, abandoned sites and enact emergency response procedures for hazardous substance spills.

Illinois Administrative Code (IAC). The State of Illinois has established environmental regulations with which federal facilities must comply. The bulk of the State hazardous waste regulations are found within Title 35 - Environmental Protection, and Subtitles 702 through 728.

Federal Facility Compliance Act (FFCA). The most recent RCRA amendment, the FFCA, extends the waiver of the federal Government's sovereign immunity relative to the provisions of RCRA Subtitle C. FFCA establishes requirements for federal facilities to comply with all federal, state, interstate, and local solid waste regulations respecting hazardous waste disposal and management in the same manner as private facilities. It allows state and federal agencies to assess federal facilities with fines for RCRA violations.

DoD Directives and Air Force Policies. The following DoD directives establish hazardous waste requirements: DoD 4160.21-M, *Defense Reutilization and Marketing Manual*, March 1990 with change 1; DoDD 5100.50, *Protection and Enhancement of Environmental Quality*, May 24, 1973 with changes 1 and 2; and DoDD 6050.8, *Storage and Disposal of Non-DoD-Owned Hazardous or Toxic Materials on DoD Installations*, February 27, 1986. Air Force requirements include AFPD 32-70, *Environmental Quality*; AFI 32-7042, *Solid and Hazardous Waste Compliance*; AFI 32-7045, *Environmental Compliance Assessment and Management Program*; AFI 32-7001 *Environmental Budgeting*; AFI 32-7080, *Pollution Prevention Program*; AFI 32-4002, *Hazardous Materials Emergency Planning and Response Compliance*; and AFI 48-119, *Medical Service Environmental Quality Programs*. Another related publication is DRMS-M 6050.1, *Environmental Compliance for the DRMS Hazardous Property Program*.

Hazardous Waste Characterization

A waste is a solid, liquid, or gaseous substance that no longer has a use for its intended purpose. EPA defines waste as hazardous if it has certain properties that could pose dangers to human health and the environment after it is discarded. The hazardous waste life cycle begins with the generation of waste, determining if the waste generated is hazardous, and characterizing hazardous waste. Hazardous waste generation is the physical activity creating the waste, while hazardous waste characterization defines and identifies waste as hazardous.

Generation. Generation of hazardous waste results from a variety of processes and procedures. The unit or group involved in the hazardous waste generation is referred to as the generating activity. Examples of Air Force generating activities include corrosion control, transportation, vehicle maintenance, auto hobby activities, explosive ordnance disposal, non-destructive inspection, dry cleaning, reproduction and printing, aircraft maintenance, base hospital activities, photo lab activities, pest management, materials and analytical lab activities, and plating. Although there are several generating activities on an installation, the installation as a whole is considered a single generator for regulatory purposes.

EXAMPLES OF GENERATED HAZARDOUS WASTE

Spent Solvents
Paint Thinners
Contaminated Paint Removers
Wiping Rags
Expended Photo Developing Solutions
Waste Petroleum Products
Battery Acid
Dry Cleaning Solvents
Contaminated Inks
Cleaning Fluids
Pesticide Residues
Expended Electroplating Solutions
Other Hazardous Materials Which Can No Longer Be Used

Is it Regulated? Most solid waste that is generated is not hazardous. To determine whether a specific substance being discarded is regulated as hazardous by RCRA, the following four questions must be answered:

Is the substance a solid waste?
Is the substance excluded from classification as a solid waste?
Is the substance exempted?
Is the substance hazardous?

Hazardous Waste Regulatory Process. Each generating activity must determine if any substance that is to be discarded is actually a hazardous waste subject to RCRA Subtitle C rules. The regulatory process has four criteria, which establish a hazardous waste so regulated.

1. **Is the Substance a Solid Waste?** The first step is to determine if the substance is classified as a solid waste. Solid wastes, by definition, are not strictly solid; solid wastes can include liquids and containerized gases. The following criteria define a substance as a solid waste: [40 CFR 261.2]
   - The substance is abandoned by being disposed of, burned, or incinerated.
   - The substance is accumulated, stored, or treated (but not recycled) before or in lieu of being disposed of, burned, or incinerated.
   - The substance is a secondary material and is recycled; or accumulated, stored, or treated before recycling.
   - The substance is inherently waste-like and is recycled.

2. **Is the Substance Excluded from Classification as a Solid Waste?** If the generating activity believes a waste falls under one of the following exclusions (the list is not all inclusive), they should review the exclusions with the environmental manager to make the proper determination: [40 CFR 261.4]
   - substances that are being recycled by being used, reused, or returned to the original process without first being reclaimed (such as "off-spec" jet fuel),
   - domestic sewage,
   - industrial wastewater discharges covered by the Clean Water Act,
   - irrigation return flows, and
   - radioactive substances controlled by the Atomic Energy Act.

3. **Is the Substance Exempted?** There are many substances, which although hazardous, are exempt under a variety of criteria. If a generating activity believes that a waste falls under one of the following general exemptions (the list is not all-inclusive), they should review the following RCRA exemptions with the environmental manager to make the proper determination:
   - sample collected for testing to determine characteristics or composition, as long as the sample is in transport to or from the laboratory, or being stored prior to transport or at the laboratory (once the sample is returned, it is no longer exempted); [40 CFR 261.4]
   - treatability study samples not exceeding 10,000 kg in quantity; [40 CFR 261.4]
   - certain recyclable substances (such as scrap metal); [40 CFR 261.6]
   - residues of hazardous waste in empty containers or inner liners, provided the waste is not a listed acute hazardous waste; and [40 CFR 261.7]
   - PCB wastes regulated under the Toxic Substances Control Act. [40 CFR 261.8]

4. **Is the Substance Hazardous?** The final step is to determine if the solid waste is hazardous. EPA considers a waste to be hazardous if it possesses certain characteristics (ignitable, corrosive, reactive, or toxic) or if it is on a list of specific wastes determined by the EPA to be hazardous. A mixture of a nonhazardous waste and a characteristic hazardous waste or a listed hazardous waste is considered a hazardous waste until proven otherwise.

Characterization. Once a waste is determined hazardous, it must be listed or characterized. Each generating activity characterizes their hazardous waste following the Air Force process of identifying the type of hazardous waste, describing the hazardous waste, and quantifying the amount generated. A listed hazardous waste is a waste already determined by the EPA to be hazardous and is specifically listed as such.

Characteristic hazardous wastes meet one or more of the following descriptions:

- **Ignitable**--a liquid that has a flash point less than 140 °F; a nonliquid capable, under normal ambient conditions, of causing fire through friction, absorption of moisture, or spontaneous chemical changes and, when ignited, burns so vigorously and persistently that it creates a hazard; a compressed gas defined as ignitable by DOT regulation (49 CFR 173.300); or an oxidizer as defined by DOT regulation (49 CFR 173.151). Ignitable wastes are identified by the EPA hazardous waste number D001. [40 CFR 261.21]

- **Corrosive**--aqueous solutions having a pH less than or equal to 2 (strong acid) or greater than or equal to 12.5 (strong base); or a liquid which corrodes steel faster than 0.25 inch per year at 130 °F. Corrosive wastes are identified by the EPA hazardous waste number D002. [40 CFR 261.22]

- **Reactive**--materials that react violently with water; are normally unstable and readily undergo violent changes without detonating; form potentially explosive mixtures with water; when mixed with water, generate toxic gases, vapors or fumes in a quantity sufficient to harm humans or the environment; contain cyanide or sulfide which, when exposed to conditions of pH between 2 and 12.5, generates toxic gases, vapors, or fumes in a quantity sufficient to harm humans or the environment; is capable of detonation or an explosive reaction if subjected to a strong initiating source or if heated under confinement; capable of detonation or explosive decomposition or reaction at normal ambient conditions; or classified as a DOT forbidden explosive, a Class A explosive (1.1 or 1.2 explosives), or Class B explosive (1.2 or 1.3 explosives). Reactive wastes are identified by the EPA hazardous waste number D003. [40 CFR 261.23]

- **Toxic**--materials that are harmful or fatal when swallowed or comes in contact with the skin. When disposed of on land, contaminated liquid might drain (leach) from the waste and pollute groundwater. Toxicity is determined through the Toxicity Characteristic Leaching Procedure (TCLP), a test contained in *Test Methods for Evaluating Waste, Physical/Chemical Methods*, EPA Pub SW-846. The test determines if the hazardous waste contains certain constituents (certain metals, pesticides, and organic chemicals) at concentrations listed in Table 1 of 40 CFR 261.24. Toxic wastes are identified by a range of EPA hazardous waste numbers, D004 through D043. [40 CFR 260.11and 261.24]

Characteristic Hazardous Wastes

D001	**Ignitable**	Flash point less than 140 °F (i.e., MOGAS or thinners)
D002	**Corrosive**	pH less than or equal to 2 or greater than or equal to 12.5 (i.e., battery acid)
D003	**Reactive**	Material that reacts violently with air or water causing a release of poisonous, toxic fumes (i.e., peroxides, chlorine, or cyanides)
D004	**Toxic**	D004 through D043 materials that can be poisonous to humans (i.e., pesticides or heavy metals)

Examples of Characteristic Hazardous Wastes

Waste paint	**D001 (Flashpoint less than 140 °F)**
Waste hydraulic absorbent	**D006 (cadmium)**
Waste sludge from floor drains	**D008 (lead)**
Waste fuel	**D001, D018 (Flashpoint equals 100 °F and benzene)**
Waste adhesives	**D006, D007 (cadmium and chromium)**
Waste parts washer liquid	**D007 (chromium)**
Waste fuel filters	**D001 (Flashpoint equals 100 °F)**
Waste tire wash water	**D006 (cadmium)**

Listed Hazardous Wastes. Listed wastes include wastes determined by the EPA to be hazardous and placed on selected lists published in the CFR. There are three groups of listed wastes:

- **Nonspecific Source Wastes**--wastes generated by generic activities, such as degreasing and surface preparation. Known as **F-list wastes**, nonspecific source listed wastes include certain **spent solvents**, plating wastes, metal treating wastes, and certain chlorinated organic compounds. [40 CFR 261.31]

- **Specific Source Wastes**--generated by specific sources or industries. Known as **K-list wastes**, they include organic chemicals, inorganic pigments, waste from petroleum refining, veterinary, pharmaceutical, cooking industries, and explosives. The Air Force does not typically generate any K-list wastes. [40 CFR 261.32]

- **Discarded Commercial Wastes**--wastes that contain discarded commercial products, off-specification commercial chemical products, container residues, or spill residues, and have a sole active ingredient consisting of the generic chemicals listed on the P-list or U-list. These waste codes refer to specific chemical substances that are the product of a specific manufacturing or formulation process. Discarded commercial wastes include chloroform, creosote, dated drugs, and reagents. [40 CFR 261.33] **VIRGIN MATERIAL ,**

Acute Hazardous Waste. Within the listed wastes, there are certain wastes, which **are acutely toxic** in nature and are classified as acute hazardous waste. **These hazardous wastes have been found to be fatal to humans in low doses or capable of significantly contributing to an increase in serious irreversible or incapacitating reversible illnesses.** Requirements for acute wastes are more stringent than those for hazardous waste. Acute hazardous waste includes **all P-list wastes and some F-list wastes.** [40 CFR 261.31, 261.32, and 261.33] **P = ACUTELY HAZARDOUS**

Hazardous Waste Mixtures. Nonhazardous solid waste mixed with a listed waste is still considered a hazardous waste. However, if the waste is listed solely because it exhibits one of the four characteristics of a hazardous waste, and the mixture no longer exhibits any of those characteristics, the mixture is not considered hazardous. **Comment:** Mixing hazardous waste with nonhazardous waste to render it nonhazardous is a treatment method requiring a permit. [40 CFR 261.3]

Used Oil and Oil Filters. Used oil requirements are identified in 40 CFR Part 279. Used oil will only be disposed of as hazardous waste when it cannot be recycled or burned for its energy value. Waste oil to be disposed of must be evaluated to determine whether it exhibits a hazardous waste characteristic or contains a listed hazardous waste. This includes oil filters, oil-soaked absorbent materials, or oily rags which are not recycled.

Used oil that is mixed with hazardous waste or contains more than 1000 ppm total halogens is presumed to be hazardous waste because it has been mixed with a listed, halogenated hazardous waste and is subject to all applicable hazardous waste management requirements when it is burned for energy recovery. Transporters are required to analyze each shipment of waste oil for halogen concentrations. [40 CFR 279.10(b) and 279.44]

Waste Analysis Plans. The waste analysis plan is the primary document used to identify waste streams that are regulated as hazardous waste. Written by Civil Engineering, Asset Management-Natural Resources, the waste analysis plan describes the installation's procedures for identifying all potential hazardous waste streams and determining which hazardous waste streams require detailed hazardous waste determination. Each installation's waste analysis plan is incorporated into the hazardous waste management plan. The waste analysis plan includes the following:

- a list of all wastes generated at the installation that require evaluation and analysis;
- test methods used (in accordance with the EPA analytical methods published in *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods,* EPA publication SW-846);

- hazardous waste sampling methods;
- sample analysis locations and frequency;
- a description of the analytical methods used;
- sample documentation; and
- sample quality assurance/quality control procedures.

Accumulation Management

Overview. As hazardous waste is being generated and characterized, it must be properly stored. The Storage Phase, which is the second Phase of the hazardous waste life cycle, has three steps: container/tank management, generator classification, and accumulation management. Container/tank management includes selecting the proper containers and tanks to accumulate and transport hazardous waste, and the proper handling and storing of each. Generator classification is determining the type of generator for each AF installation, based on the quantity of hazardous waste and acute hazardous waste generated each month. Generator classification determines specific storage requirements in the accumulation management step. Accumulation management includes selecting and designing the proper site(s) for accumulation of the hazardous waste.

Container Management. Hazardous waste must be stored in EPA-approved containers or tanks.

Container Selection. Since hazardous waste most likely be transported in the container in which it is collected and stored, select the proper hazardous waste container based on the DOT Hazardous Materials Table listed at 49 CFR 172.101. Hazardous materials description and proper shipping names are listed in alphabetical order. In selecting the proper container, the user searches the table for the hazardous material that generates the hazardous waste and identifies the packaging requirements.

Specification Packaging versus Performance-Oriented Packaging. DOT has moved from detailed construction specification packaging to performance-oriented packaging to compete with international shipping in accordance with Title 49, which includes performance-oriented packaging (HM-181) requirements.

Container Condition. Most hazardous waste containers on Air Force installations are 55-gallon drums. All containers storing hazardous waste must be in good condition. Good condition means there should be no severe rusting, no sharp-edged creases or dents, no bulging heads caused by over-pressurization of a container (usually from overfilling), and no severe structural defects. If a container is not in good condition or begins to leak, the hazardous waste must be immediately transferred to another container or over-packed in a salvage drum. Containers with pools of hazardous waste on the top must be decontaminated or over-packed. [40 CFR 264/265.171]

Container Opening. Follow proper procedures when opening, filling, and handling a container. Use bung wrenches to open a closed (non-removable) head drum. Removable head drums are opened by loosening the nut on the retaining ring, removing the retaining ring, and then removing the drumhead. If the material in the drum is combustible, flammable, or unknown, spark-proof wrenches (made from bronze or aluminum) should be used to prevent accidental ignition of the waste due to sparks. Slowly loosen the bung or retaining ring to allow for any pressure buildup to dissipate. [40 CFR 264/265.173]

Container Filling. Do not overfill containers; fill to 90% of capacity. For example, only fill a 55-gallon drum to 50 gallons. Liquids expand in containers as the temperature increases. The pressure created by the expansion of the liquid in a completely filled container may cause bulging heads and damages the integrity of the container. Bulging containers also create a safety hazard for personnel adding waste to or handling containers. Use a funnel in the bung to fill closed head containers. This will ensure that all waste is poured into the container and does not spill on the top of the container. After filling, the funnel should be removed and the container closed. If the funnel has any hazardous waste residues remaining, the residues should be rinsed into the container, or the funnel placed in a suitable closed hazardous waste accumulation container. Keep containers closed unless adding or removing waste. To prevent improper mixing, containers must be kept in a secured area. [40 CFR 264/265.173 and 49 CFR 173.24(h)]

Container Handling. Handle drums and other containers with equipment designed for the task. Secure containers to pallets before moving pallets. Use drum carts designed for the container types to reduce the likelihood of dropping a container during handling. Never balance drums on the forks of a forklift or tow motor. Do not stack drums more than two high. Drums containing flammable liquids should not be stacked. Do not allow the movement of vehicles such as trucks, fork lifts, POVs, etc., in or near the container storage area unless loading or unloading. If containers must be stored outdoors, store them in an area protected from precipitation, whenever possible.

Containers with Ignitable or Reactive Waste. Containers accumulating ignitable or reactive waste must be located at least 50 feet away from (inside) the installation property boundary. These containers must also be kept away from sparks, open flames, extreme heat, or other sources of ignition. Grounding and bonding may be required for flammable wastes. [40 CFR 264/265.17 and 264/265.176]

Empty Containers. All empty chemical and waste containers must be responsibly managed to prevent contamination of the environment from residues and to comply with EPA and DOT regulations. A properly managed, empty drum may be exempt from hazardous waste regulations.

A container or an inner liner removed from a container that held hazardous waste is classified as empty and is not regulated as a hazardous waste if the following conditions are met:

EMPTY CONTAINER

- All waste that can be removed by common methods has been accomplished, and
  - Less than one inch remains in the bottom, or
  - No more than 3% of the total capacity by weight remains for containers less than or equal to 110 gallons, or
  - No more than 0.3% of the total capacity by weight for containers greater than 110 gallons.
- **Acute hazardous waste containers** are considered empty when the container or inner liner is free of product by proper triple rinsing or cleaning, or the inner liner is removed.
- **Hazardous waste compressed gas containers** are empty when container pressure approaches atmospheric pressure. [40 CFR 261.7 and 49 CFR 173.29]

Marking Hazardous Waste Containers for Accumulation. Each container must be marked with the words "Hazardous Waste" and with the date the volume limit was met (55 gallons or 1 quart of acutely hazardous waste) for initial accumulation points. Containers should also be marked with a unique container identification number assigned by the accumulation point manager once the accumulation time limit starts. All marking should be large enough (one to two inches) to be seen from a distance. [40 CFR 262.34(a)(2)(3) and (c)]

Container Inspection. All containers must be inspected at least weekly for potential release problems. [40 CFR 264/265.174]

Tank Management. Hazardous waste stored in tanks must meet very specific requirements due to the large volume of hazardous waste in tanks that could be released during an incident. Basically, tank systems must be properly designed and installed, have adequate corrosion protection, employ secondary containment, be capable of detecting releases of hazardous waste, be operated to prevent releases, and be inspected according to the requirements. For existing tank systems less than 15 years old, which do not have secondary containment, the installation must conduct an assessment of the tank to ensure the tank is not leaking and is fit for use. The assessment must be conducted by an independent, qualified professional engineer and must

Container Management

- **DOT approved containers in good condition with no major rust, dents, or creases. (Any defect whereby the integrity of the container may be compromised.**
- **Waste must be compatible with container (i.e., acids cannot be placed in a metal drum, solvents can not be placed in a plastic drum).**
- **The name of waste must be marked on the drum. The containers received from the CAS should be pre-stenciled with either Hazardous, or Non-RCRA Waste. The only markings the IAP manager or their alternate need be concerned with is further identifying the exact contents (i.e. "Waste Paint", "Waste JP-8 Absorbents", etc.).**
- **Drum(s) must be securely closed, bung tight and / or ring nut & bolt in place (Note: A container may be securely closed for a solid but not necessarily securely closed for a liquid. Ensure that if the container were turned over, *none of the contents would escape - not even a drop.)***

Accumulation Management. Accumulation management includes three different periods of accumulation: initial accumulation at the IAP, temporary or interim accumulation at a 90-day accumulation point, and extended storage at permitted storage facilities. This discussion is directed to IAP management.

Initial Accumulation (Satellite) Point. Generally, an initial accumulation (satellite) point is an accumulation area close to the generating activity. Accumulation continues at an initial accumulation point until 55 gallons of hazardous waste or 1 quart of acute hazardous waste is collected. ***Once the 55-gallon or 1-quart limit is reached, the generating activity must transfer the hazardous waste container to a 90-day accumulation site within 3 days.***

In Illinois, **the 90-day accumulation limit begins when 55-gallons of hazardous waste or 1-quart of acute hazardous waste is collected.** Once either of these limits is reached, the waste **must be immediately transferred to a 90-day facility** and the accumulation start date applied. [35 IAC 722.134]

Containers must be kept in a secure area to prevent accidental mixing of wastes and to maintain the validity of the container's contents without costly analysis. A system, which provides security and secondary containment, is recommended. Basic requirements for fire protection, worker safety and health, and reducing environmental harm should be considered in the location of an initial accumulation point.

Inspection Records. Containers and tanks at accumulation points must be inspected either daily (tanks) or weekly (containers). An inspection checklist should be developed to ensure consistency in all inspections and incorporated into the hazardous waste management plan. It is also recommended that containers at initial accumulation points be inspected daily. The EPA does not require inspection records or logs to be maintained at accumulation points; however many states do, and they are required at permitted facilities. Inspection records/logs should include the date, inspector's name, and actions taken to remedy any problems identified. Inspection records must be maintained for at least 3 years from the date of each inspection. [40 CFR 262.34(a) & (d), and Part 265 Subparts I/J]

Selection of Initial Accumulation Point Managers and Alternates. Each generating activity assigns a primary and alternate initial accumulation point manager for the waste streams they generate. Managers are normally the shop supervisors and their assistants for shops that generate hazardous waste. **HAVE PROPOSAL LETTER SIGNED BY SQUADRON COMMANDER**

IAP managers and alternates are responsible for the following activities:

- **providing safe equipment and locations for initial accumulation points;**
- **coordinating each location with accumulation point manager, environmental manager, ground safety, fire protection, and bioenvironmental engineering services;**
- **ensuring hazardous waste accumulation complies with federal, state, and local hazardous waste management requirements; and**
- **ensuring that all personnel that handle hazardous waste at the initial accumulation points receive annual training.**

IAP Managers must accomplish the following:

- assume overall responsibility for management of the hazardous waste accumulation point;
- coordinate requirements and problems with environmental manager, ground safety, fire protection, and the bioenvironmental engineering services;
- ensure accumulation point has appropriate warning signs;
- ensure accumulation point has appropriate spill/release response kit and personnel are properly trained in its use;
- ensure approved fire extinguishers are readily available if flammable hazardous waste is stored in the accumulation point and personnel are properly trained in their use;
- perform and document inspections of the accumulation point - inspections must be performed weekly for containers and daily for tanks;
- ensure that hazardous wastes are collected and stored in approved containers and tanks;
- maintain hazardous waste containers in proper condition (e.g., no pitting, no sharp edge creases or dents, no material defects, no bulging heads);
- ensure that containers are kept closed except when they are being filled;

- ensure that hazardous waste is not placed in a container that is not properly marked;
- ensure that hazardous waste containers are properly painted/marked before they receive any hazardous waste;
- ensure initial hazardous waste management training is provided to personnel before they handle hazardous waste; coordinate training with environmental manager and ensure proper documentation;
- ensure annual hazardous waste management refresher training is provided to all personnel who handle hazardous waste and document the training;
- properly annotate the AF Form 2005 and obtain a copy of DRMS Form 1930 (Waste Profile Sheet) prior to processing the hazardous waste for turn-in and disposal;
- implement remedial action when a hazardous waste spill/release is detected; stop all other actions and contain spill to best of ability based on unit capability and resources; initiate base response by immediately notifying appropriate agency; and
- maintain all hazardous waste documentation and correspondence for a minimum of 3 years.

Closing an Accumulation Point. When closing an accumulation point, the installation must control, minimize, or eliminate, to the extent necessary to protect human health and the environment, the post-closure escape of hazardous waste and constituents, and minimize the need for further maintenance. This includes removing or preventing the escape of any hazardous waste, hazardous constituents, leachate, contaminated run-off, or hazardous waste decomposition products to the ground, surface water, or the atmosphere. During closure, all contaminated equipment, structures, and soil must be properly disposed of or decontaminated. [40 CFR 262.34(a), 265.111, and 265.114]

Initial Accumulation Point Management (Recap)

- A maximum of 55 gallons of hazardous waste (HW) or one quart of "Acutely HW " can be stored at any Initial Accumulation Point (IAP). There may be more than one container, and more than one "waste stream" at an IAP, but no more than 55 gallons total HW may be accumulated at the IAP.
- Drum(s) must be grounded if contents are ignitable.
- Containers must be securely closed except when adding waste.
- The IAP and containers must be at or near the point of waste generation.
- Mark the drum with information identifying its contents (e.g., "Hazardous Waste Paint" or other distinction).
- IAP must be marked with "HW", or "Non-RCRA" Initial Accumulation Point (which ever applies), Point of Contact (POC) Name & Telephone Number.
- Ensure that IAP "Evacuation Routes" are current and posted in the proper location.

IAP Management Continuity Book. Each IAP must have its own "Continuity Book" with the following information or a page showing the location of each item:

IAP Management Continuity Book

- Emergency Response Procedures
- Personnel
- IAP Manager/Alternate Appointment Letter
- Job Descriptions
- Training Requirements
- Training Records
- Generation Log
- Weekly Inspection Records
- Turn-In Instructions for Completing AF Form 2005
- Authorization to Establish Each IAP (must be signed by Environmental Flight, Fire Dept., and Wing Safety)
- Hazardous Waste Management Plan
- Hazardous Waste Profile Sheets

HAZARDOUS WASTE DISPOSAL

Overview. The final phase of the hazardous waste life cycle is disposal, involving the three steps of turn-in, transport, and disposal. The disposal phase begins when the generating activity is ready to turn in their hazardous waste. Turn-in is the transfer of authority to dispose of the hazardous waste properly, usually to a 90-day yard.

The disposal phase requires a coordinated effort by all installation personnel including the generating activity, the environmental flight, bioenvironmental engineering services, accounting and finance, contracting, and the disposal agent, normally DRMO. The entire disposal phase of the hazardous waste life cycle is guided by documentation.

AF Form 2005, Issue/Turn-In Request. This Air Force document begins the actual turn-in process when the generating activity is ready to dispose of the hazardous waste. At Scott AFB, the hazardous waste generating activity completes AF Form 2005 then provides it to the 90-Day Site for further processing. The environmental manager advises the generating activity on completion of the above information. Copy 1 of this form is retained at the 90-Day Site, and the remaining copies are given to the generating activity.

Turn-In. The generating activity must ensure that containers are in good condition. Prior to turning in hazardous waste, each container should be inspected by the generating activity and the environmental flight to ensure that it is in good condition and suitable for transportation. The container should have no leaks and no accumulation of liquid on the top head. Also, there should be no serious corrosion, dents, sharp creases, or bulging heads. If the container has a leak or if it is not in good condition, the waste in the drum must be transferred to a container in good condition or the container must be overpacked in a salvage drum. [40 CFR Parts 264/265, Subpart I; 49 CFR 173.24, 173.24(a), and Part 177, Subpart B]

Hazardous Waste Disposal Procedures

- Prior to drum reaching capacity (usually before the waste reaches the top rib of the drum or 4-5 inches from the top), **call 618-256-2184 (90 Day Site) for a pick up or to drop off the container(s).**
- Before calling the 90-Day Site ensure that the following information is readily available to give to their personnel: name of IAP manager or alternate, squadron, shop symbol, shop name, phone number, building number, profile number.
- Ensure container is securely closed; bung, nut and bolt are tight.
- Upon receipt of waste, you will be given a copy of the AF Form 2005 for your records, keep these for 3 years.
- Log container in continuity book as turned in, keep records for 3 years.
- Mark each new drum to be placed at your IAP at time of delivery / pick-up.

Emergency Procedures and Prevention

Throughout the life cycle of the hazardous waste, caution must be taken to manage and operate hazardous waste in a way that protects human health and minimizes the possibility of a fire, explosion, or release into the environment. AF installations must develop written emergency response procedures for all hazardous waste generation and storage locations and incorporate these contingency plan requirements into the installation's hazardous materials (HAZMAT) emergency planning and response plan (called the HAZMAT Plan), described in Air Force Pamphlet, AFPAM 32-4013, *Hazardous Material Emergency Planning and Response Guide*. The installation's HAZMAT Planning Team and Response Team play integral roles in the development of the HAZMAT Plan to cover all hazardous waste contingencies. They can assist generating activities in developing their site-specific requirements.

Preparedness Requirements at Initial Accumulation Points. Generating activities should maintain communication and alarm systems, fire and spill control equipment, an emergency shower, and an

emergency eyewash near their initial accumulation points. The HAZMAT Planning Team can assist generating activities, accumulation point managers, and permitted storage facilities in identifying their equipment requirements and incorporating its use in site-specific procedures.

Equipment Testing. All required emergency equipment must be tested and maintained to ensure its reliability during an incident. A periodic inspection schedule should be established and all inspections documented. [40 CFR 264.33 and 265.33]
Response Requirements. Call the Fire Department. Response arrangements have been established.

HAZMAT Plan -- Contingency Plan Requirements. To minimize hazards to human health or the environment detailed written emergency procedures and developed for the handling of hazardous waste emergencies (fire, explosion, or release). Permitted facilities and large quantity generators must incorporate the procedures into a contingency plan. All procedures and plans must incorporate the requirements of 29 CFR Part 1910.120, *Hazardous Waste Operations and Emergency Response*, paragraphs (p) and (q); and *The Emergency Planning and Community Right-to-Know Act of 1986*. [40 CFR 262.34(a)(4), 264.51, and 265.51]

The HAZMAT Plan is implemented whenever there is an emergency that involves hazardous waste. The HAZMAT Plan must include the following contingency plan requirements: current listing of emergency coordinators (Incident Commanders or On-Scene Commanders who will manage the emergency incident); arrangements to coordinate activities amongst all on- and off-base emergency responders (command, control and coordination); a thorough description of available emergency equipment; and an evacuation plan and procedures for accumulation site or storage facility personnel. [40 CFR 264.1, 264.52, 265.51 and 265.52]

Emergency Procedures and Prevention

- All on-base spills will be reported to the base Fire Dept. at 9-1-1.
- Give the following information: location (building #), type of waste (flammable, corrosive, reactive, toxic), amount of spill, rate of release, area affected, anyone that was injured, and have the MSDS/Profile sheet on hand.
- Pollution prevention is the key to minimize waste, spills, and health hazards.
- Conduct HAZCOM training in the proper usage of HAZMAT & HAZWASTE
- Be familiar with the Spill Plan and the evacuation procedures.

Personnel Safety

Basic health and safety issues must be recognized and followed whenever and wherever hazardous wastes are present. This section discusses some of the hazards posed by hazardous waste and how to protect you and fellow co-workers.

Typical Hazards and Harms. Hazardous wastes are characterized as indicated below. Many of these hazards cannot be seen or are not obvious, so personnel must know the physical and chemical characteristics of the hazardous wastes, especially the exposure symptoms and emergency first aid treatment.

IGNITABLE	**Gases, liquids, or oxidizers which burn easily**
CORROSIVE	**Mainly acids or bases**
REACTIVE	**Explodes easily, reacts violently with water, or generates toxic gases at low or high pH**
TOXIC	**Toxic to human health**

Hazardous wastes present a multitude of chemical and physical hazards that can harm personnel who come in contact or are exposed. If personnel become aware of these hazards through training and follow the proper procedures when handling hazardous wastes, the chance of harm to themselves, other personnel, property, and the environment is reduced dramatically.

There are several ways for hazardous wastes to create harm:

- Thermal (heat, heat of reaction, and cold)
- Radiation; asphyxiation (lack of oxygen)
- Corrosive (action by acid or base)

- Contact (chemical burns or dermatitis)

- Etiologic (biologic exposure, such as medical infectious waste)
- Mechanical (direct physical contact with container, slipping, falling, sharp objects)
- Toxic (poisonous) Effects

Exposure Routes. Workers may be exposed to hazardous chemicals and wastes through:

- **Contact**
- **Inhalation**
- **Absorption**
- **Ingestion**
- **Injection**

The following paragraphs briefly describe these exposure routes; more detailed information and the specific hazards from your wastes may be obtained from the installation bioenvironmental services and the manufacturers Material Safety Data Sheet (MSDS).

- **Contact** with the skin, eyes, and mucous membranes is the most common way in which chemicals damage humans. Some wastes, such as acids and bases, may cause burns; some may remove the skin's natural oils; others may cause rashes. Protective clothing, gloves, and eye protection are critical for workers handling hazardous materials and wastes that pose contact hazards.

- **Inhalation** is one the most important routes of exposure. Not only can chemicals damage the respiratory system, but also they can be transferred to the bloodstream and eventually damage or accumulate in other parts of the body. Respiratory protection is critical for workers handling hazardous chemicals and wastes that pose an inhalation hazard.

- **Absorption.** While the skin usually acts as a very effective barrier, some chemicals can be absorbed through the skin. Warmth and moisture increase the penetration rate through the skin. Sweating opens the skin pores. Inflamed skin and hair follicles also speed the absorption process. Skin protection is critical for workers handling hazardous wastes that pose an absorption hazard.

- **Ingestion** of a hazardous waste is less common than the other routes of exposure, but can be a problem when proper precautions are not taken. Protective clothing will protect a person from ingesting a hazardous waste if splashed. Because of the potential for hand-to-mouth transfer, eating, drinking, smoking, and applying cosmetics should be prohibited until personnel have been decontaminated, removed their protective clothing, and washed accordingly.

- **Injection** is the least common form of entry, but can be one of the most hazardous. Puncture wounds from sharp objects allow hazardous waste toxins to directly enter the blood stream. Breaks in the skin can serve as avenues for injections of toxins into the blood stream. Personnel must be aware of surroundings that contain physical hazards and protect themselves accordingly with the proper protective clothing and procedures.

Toxic Health Effects. Health effects can vary greatly based on the type of exposure and the person being exposed. A person can receive an acute exposure, resulting from a single incident. Or exposure can be chronic, resulting from repeated doses over a period of time. Exposure effects can be localized, affecting only the tissue with which it came in contact. Or the exposure effect can be systemic, traveling through the body to affect certain body organs or systems. Exposure effects can also be a combination of the above. Exposure reactions are also based on time. An acute reaction has an adverse health effect immediately, with symptoms developing rapidly. A chronic reaction is an adverse health effect with symptoms that develop slowly or recur frequently due to the exposure. To help determine how toxic a hazardous waste is to humans, personnel should become familiar with the toxicological terms and exposure values, such as permissible exposure limit (PEL), threshold limit value-time weighted average (TLV-TWA), occupational exposure limit (OEL), and others. The installation bioenvironmental engineering services can provide further information and training in these terms and values.

How to Protect Yourself and Your Co-Workers. Before personnel become involved with hazardous wastes, they must be appropriately trained to understand the hazardous wastes with which they will come in contact, their potential hazards and harms, exposure symptoms and emergency first aid treatment, the appropriate engineering controls and steps to operate, the appropriate personal protective clothing and equipment required to perform the various types of hazardous waste activities, and the specific procedures for each activity in which they take part. They must then follow these requirements to the letter and ensure their co-workers do the same.

Protective Equipment - Engineering Controls. Hazardous waste work areas should be equipped with the appropriate engineering controls to reduce and maintain personnel exposure below published acceptable limits, thus minimizing the potential harm and hazards of hazardous wastes.

Personal Protective Equipment. When engineering controls are impractical, personal protective equipment may be required. Personal protective equipment includes respiratory and skin protection to protect the worker against chemical (corrosive, toxic, or etiologic) and physical harms (thermal, asphyxiation, or mechanical). Personal protective equipment must be properly selected to fit the potential harms, the task, the environment (work areas), and the worker. OSHA Standards 29 CFR Part 1910, Subpart I, AFOSH Standards 127-31 and 48-1, and bioenvironmental engineering services must be consulted on the proper selection of personal protective equipment.

Written Program. When a written personal protective equipment program is required it should address the following: selection based upon hazards; use and limitations of the equipment; work mission duration; maintenance and storage; decontamination and disposal; training and proper fitting; donning and doffing procedures; inspection procedures prior to, during, and after use; evaluation of the effectiveness of the personal protective equipment program; and limitations during temperature extremes, heat stress, and other appropriate medical considerations. [29 CFR 1910.120 (g)(5) and (p)(1)]

Safe Working Procedures. All initial accumulation points, accumulation sites, and permitted facilities must develop site-specific procedures for the handling of hazardous waste. These procedures should cover normal day-to-day, non-routine, and emergency activities. The fire protection flight, ground safety, environmental management, and bioenvironmental engineering services should be consulted for specific site requirements. The HAZMAT Planning Team should review all emergency procedures to ensure they are compatible with the HAZMAT Plan protocols. [40 CFR 262.34(a)(4) and (d)(5)(iii) and Parts 264/265, Subpart D]

Container Safety. Container and tank management is a critical safety issue. If the hazardous waste is not released from its container or tank, personnel will not be exposed to the harms of the hazardous waste. Procedures must be developed to ensure the following: hazardous waste is only placed in containers or tanks in good condition; the containers or tanks are compatible with the hazardous waste; the handling of containers minimizes the risk of a release; containers are kept closed during storage; and daily (tanks) or weekly (containers) inspections are conducted. [40 CFR 264.17 and 265.17; 40 CFR Parts 264/265, Subparts I & J]

Explosion Safety. To reduce the potential for fires or explosions, all hazardous waste which presents an ignitability hazard must be handled according to flammable and combustible liquids requirements cited in 29 CFR Part 1910.106, National Fire Protection Association's *Flammable and Combustible Liquids Code* (NFPA Standard 30), and AFOSH Standard 127-43. [40 CFR 264.17(a) and 265.17(a)]

One common problem with hazardous waste is the mixing of incompatible wastes, leading to violent reactions, container or tank failures with release of hazardous waste, toxic or flammable gas clouds, fires, or explosions. Situations created by incompatible waste mixing pose extreme danger to site personnel, emergency responders, the public, and the environment. Incompatible wastes and materials must be kept separate at all times through proper procedures and engineering controls. AFOSH Standard 127-68, *Chemical Safety*, and the *Handbook of Chemical Hazard Analysis Procedures* (FEMA/DOT/EPA, 1989) can be used to determine the compatibility of hazardous wastes. Material safety data sheets for the materials that generate the hazardous waste should be reviewed for incompatible mixtures and unsuitable containers. [40 CFR 264.17(b), 264.172, 264.177, Appendix V and 265.17(b), 265.172, 265.177, Appendix V] **Note: The Installation Hazardous Waste Program Manager, Bioenvironmental Engineering Services, and fire protection flight should be consulted when there is an uncertainty about mixing or container compatibility of any hazardous wastes.**

Changes to Hazardous Waste Process. Before any hazardous waste disposal process or activity is modified, or a new process or activity is planned, the Installation Hazardous Waste Program Manager, Bioenvironmental Engineering Services, and HAZMAT Planning Team should be consulted.

Additional Sources of Information. There are multiple sources for information concerning hazardous waste, including federal, state, and local regulations, Air Force publications, and national consensus standards. Air Force Occupational Safety and Health Standards provide an excellent source of information for identifying and complying with health and safety requirements. Many of the AFOSH Standards were developed to help the Air Force implement specific OSHA regulations. State and local environmental authorities can assist in determining installation specific requirements. Each installation maintains a staff of technical specialists (fire, safety, military public health, bioenvironmental engineering services, and environmental management) who are there to assist all generating activities in meeting and maintaining compliance.

Applicable AFOSH Standards:

AFOSH Standard 91-31, *Protective Clothing and Other Equipment.*
AFOSH Standard 91-32, *Emergency Shower and Eyewash Units.*
AFOSH Standard 91-43, *Flammable and Combustible Liquids.*
AFOSH Standard 91-56, *Fire Protection and Prevention.*
AFOSH Standard 91-68, *Chemical Safety.*
AFOSH Standard 48-1, *Respiratory Protection Program.*
AFOSH Standard 48-8, *Controlling Exposures to Hazardous Materials.*
AFOSH Standard 48-21, *Hazard Communication.*

Waste Minimization/Pollution Prevention

Overview. Reducing generation of hazardous waste to a minimum is an important objective of pollution prevention. Pollution prevention is a departure from years of end-of-the-pipe waste management practices. It establishes a cradle-to-grave management approach to waste management. It focuses on planning for and evaluating he use of materials, processes, or practices in order to educe or eliminate wastes at the source before they become an environmental problem. The goal of pollution prevention is to establish a long-term downward trend in the volume of wastes generated and contaminants and pollutants released to the environment. By achieving this goal, the costs resulting from reactionary waste management practices and dependence on hazardous materials use will also be greatly reduced.

Air Force Pollution Prevention Program. The Air Force has developed a proactive pollution prevention policy that calls for the reduction of hazardous material use and releases of pollutants into the environment to as near zero as feasible. All Air Force installations are required to prepare a Pollution Prevention Management Plan, which establishes reduction baselines for the following six areas:

1. The EPA's 17 Priority Pollutants
2. Ozone Depleting Chemicals (ODCs)
3. Items Containing Recycled Content
4. Emergency Planning and Community Right-to-Know Act Chemicals
5. Municipal Solid Waste (MSW)
6. Hazardous Waste

Pollution Prevention Management Plan Goals. Goals for pollution prevention are established in the Air Force Pollution Prevention Plan. Examples of past goals are: the reduction of hazardous waste by 25% from a 1992 baseline by 1995 and 50% from the 1992 baseline by 1999 applicable to hazardous waste generating activities.

Projects that demonstrate how an installation will achieve these goals are identified in the installation's Pollution Prevention Management Plan. The Pollution Prevention Management Plan also addresses affirmative procurement of environmentally friendly products, energy conservation, and air and water pollutant reduction. Many pollutant reduction methods can be identified through opportunity assessments.

Waste Minimization Hierarchy. ***Source reduction*** as the primary means of reducing pollution. EO 13148 dated 22 Apr 00 identifies *recycling and reuse as* alternatives after all source reduction options have been examined. Another option is *treatment (*after source reduction and recycling has been deemed unfeasible). *Disposal is used* only as the last resort after all other options have been exhausted.

Team Approach. Program implementation requires a team approach. All Air Force members have a role and responsibility to enhance the environmental quality at their installation. Worker training, awareness, and compliance are integral to a successful program. Pollution prevention will only succeed with a commitment from all levels of personnel and a commitment from all levels of management to support environmental awareness and promote continuous improvement.

Benefits of Pollution Prevention. Incentives to reduce both the volume and toxicity of the waste generated and hazardous materials used at installations include the following benefits:

- reduced overall waste treatment costs,
- reduced manpower and equipment requirements for pollution control and treatment,
- reduced transportation and disposal costs for off-site disposal,
- decreased record-keeping requirements,
- reduced liability costs (reduce or eliminate fines for noncompliance),
- reduced operating costs through more efficient use of materials (decreased energy costs),

- an improved image in the community,
- reduced operating costs through the use of more efficient technologies, and
- reduced impact on public health and environment, which can help foster good relationships with regulators.

Meeting Pollution Prevention Goals. There are many ways to assist the Air Force in meeting its Pollution Prevention goals. Each individual that handles or generates hazardous wastes plays an important role in implementing pollution prevention. One of the simplest, most efficient ways of instituting pollution prevention is through the implementation of best management practices.

Best management practices such as knowing what wastes may be hazardous, keeping them segregated from non-hazardous wastes, inventory management, and disposing of wastes properly are the first steps toward achieving waste reductions in your shop. Perhaps less material is required than currently used, maybe some of the wastes that are disposed of can be recycled, perhaps less hazardous materials can be used in the processes resulting in little or no hazardous waste generation. Creativity and efficiency are integral to pollution prevention.

FREQUENTLY ASKED QUESTIONS

1. **Recycling programs in place at Scott AFB?**
   A. Cardboard – Recycling Yard. **NO LAMINATED CARDBOARD**
   B. Scrap Metal – Recycling Yard.
   C. Used Oil – Collected by Contractor. **PICKED UP 2ND AND LAST FRIDAY OF EACH MONTH**
   D. Used Oil Filters - Hot drain for 24 hours after removal, crush, recycle as scrap metal.
   E. Office Paper - Place in bins designated for white paper recycling or other designated type.
   F. Aluminum Cans - Located at various places on Scott near soda machines.
   G. Florescent Bulbs and Batteries- Bring to the 90-Day Hazardous Waste Site. Separate the batteries by type (i.e Alkaline, Nicad, Lithium, and Mercury. Ensure battery contacts are taped. **Alkaline can be discarded in trash**

2. **How to dispose of hazardous waste?**
   A. Prior to drum being completely filled (top chime/rib or 4–5 inches from the top). Before the 55-gallon capacity is reached, call CES/CEAN at 6-2184 or 6-2167/2092 and request pick-up.
   B. Give name of IAP manager or alternate, squadron, shop symbol, phone number, building number (not street address), profile number and name of waste.
   C. Ensure container is properly labeled with type of waste (Hazardous, Universal, or Non-RCRA Waste) and specific waste name (adhesive, paint, lithium batteries, etc.).
   D. AF Form 2005 for the waste being picked up will be deliverd to you to be maintained in your records (maintain for three years).
   E. After HW personnel have returned and weighed the container of waste from your shop they will call you back with that weight so you can annotate it on the AF Form 2005.

3. **What to do with an unknown waste?**
   A. Call Installation Hazardous Waste Manager at CES/CEAN (256-2167) or the Centralized Accumulation Site Manager (256-2184) to inform them that you have an unknown waste that requires sampling.
   B. Contact the IHWM / CASM and request a sample of your waste. A waste profile sheet is not required at this point.
   C. Label the waste "Unknown Waste – Awaiting Analysis"
   D. Place the date the waste was generated on the container.
   E. Follow up with Bioengineering to ensure the waste is analyzed/characterized in a timely manner.
   F. Once the analysis is received from Bioenvironmental Engineering, label, segregate and manage the waste as appropriate (i.e., as a Nonregulated Waste, Hazardous Waste, etc.).
   G. Contact CES/CEAN Asset Management-Natural Resources Flight (6-2167/6-2184) if you are not sure about what you should do.

4. **What to do when I want to discontinue a waste stream or close an IAP? Notification and documentation of closure** is required. Contact the CES/CEV Asset Management-Natural Resources Flight for assistance (6-2167/6-2184)

5. **What to do in case of a spill?** This depends largely on what the spilled material is, and whether it is Hazardous, Non-RCRA or Nonhazardous.
   A. Minor spills – If the spilled material can be handled safely, uses proper PPE and clean up the spill in accordance with the MSDS. Safe spill cleanup requires that you have been properly trained to assess the situation, to obtain and properly use the right PPE and cleanup materials, and the ability to obtain and properly apply MSDS information. If the spilled material cannot be cleaned up safely, leave the area and contact CES/CEAN Asset Management-Natural Resources Flight (6-2092/2167/2184) and the Fire Dept. (9-1-1). Prevent other personnel from entering the spill area.
   B. Major spill – If the spilled material cannot be cleaned up safely, leave the area and contact CES/CEAN Asset Management-Natural Resources Flight (6-2092/2167/2184)) and the Fire Dept. (9-1-1). Prevent other personnel from entering the spill area.

6. **What to do with expired shelf life items?**
   A. Check with supply to see if the shelf life has been extended.
   B. If not, obtain an MSDS, and call the 90-Day Site to arrange for a turn in at 6-2184/2167.

7. **What do I do with used antifreeze?** Call the Contractor for pick-up Don't wait until the tanks are full, call at 80% fill level. User testing is not required. If you are not sure of what to do, contact 375 CES Asset Management-Natural Resources at (618) 256 - 2184, 6-2167, or 6-2092.

8. **What is the longest time I can accumulate hazardous waste in a drum at an IAP?** There is no time limit, but there is a quantity limit of 55 gallons or 1 quart of acutely hazardous waste at one time.

9. **What to do with various spent/used batteries?**
   A. In Illinois, lithium, nicad, and mercury, batteries are Universal Waste and should be brought to the 90-Day Site. (Separate the batteries by type.)
   B. Alkaline batteries: full drums can be disposed of at the 90-Day Site as Non-RCRA waste or discarded in the trash.

10. **What to do with waste paint in cans and aerosol paint cans?**
    A. Empty aerosol cans may be disposed of as solid waste – placed in trash containers. "Empty" means the can is empty of its contents and the pressure inside the aerosol spray cans the same as the pressure outside the can – "atmospheric" pressure.
    Note: Do not release the contents of an aerosol spray can containing a hazardous material, by spraying it into the atmosphere. This is illegal!

    B. Bring the empty aerosol cans to the 90-Day Hazardous Waste Site. Aerosol cans may be brought to the 90-Day Site where they will be punctured and drained into drums, and then disposed of or recycled. Waste paint in opened top cans may be brought to the 90-Day Site.

Note: If you have any question about the proper handling or disposition of hazardous waste, please call CES/CEV Asset Management-Natural Resources Flight and ask for Mr. Mark McCoy the Hazardous Waste Program Manager or Kevin Emerson, the 90-Day Site Manager.

Important Phone Numbers

Position	POC	Telephone
375 CES/CEV Hazardous Waste Management	Mark McCoy	6-2167
375 CES/CEV Chief, Asset Management	John Patterson	6-2092
90-Day Hazardous Waste Site Manager	Kevin Emerson	6-2184
Hazardous Material/AF-EMIS Systems Tech	Zack Middleton	6-1198
Recycling Facility		
Pollution Prevention (HAZMAT)	Carla Daggitt	6-2092
EMS Program Support	Randy Weber	6-6017
Fire Department / Emergency Services		9-1-1
Ground Safety		6-6312
Bioenvironmental Engineering		6-7307
Public Affairs		6-2600/4241
Staff Judge Advocate		6-2358

Practical Exercise

(Group Exercise #1)

You are the IAP Manager. You return from TDY and notice upon inspection that your IAP has the following containers:

1. Full 55-gallon drum of JP-8 absorbent materials (with free liquids)
2. Full 55-gallon drum of oily absorbent
3. Partially full 55-gallon drum of antifreeze weighing 330 lbs.
4. Partially full 55-gallon drum of JP-8 fuel filters
5. Two full 30-gallon drums of waste paint (flammable)

What, if anything, do you need to do to get your IAP into compliance?

Practical Exercise

(Group Exercise #2)

You are the IAP's alternate manager. The IAP manager is on leave. You inspect your IAP and find what appears to be smoke coming from small holes in the top of a 5-gallon can. The top of the can looks wet. A smaller can is sitting on top of the 5-gallon container. It appears that this smaller can has leaked an unknown amount of material.

What is the first thing you will do? (Evacuate building)

What is the second thing you will do? (Call the fire department)

Will you notify anyone? If so, whom will you notify?

1. Fire Dept

2. 375th CES/CEV

3. Section Supervisor

4.

AF Form 2005, Issue/Turn-In Request Instructions

Blocks	Information Required
1-3	Enter the letters "TIN".
8-11	Enter the parent Federal Stock Class (FSC) that produced the waste.
	9150 Petroleum, oils, lubricants **6850** Solvents **8010** Paints, waste paint related material **5950** Transformers **6350** Antifreeze, windshield washer fluid **9999** Spill Residue
12-14	Enter the letters "PHW".
15-18	Enter the EPA hazardous waste number (D001, F001, P068, etc).
19-22	Enter the contract line item number; usually same as the FSC.
23-24	Enter the unit of issue (quantity - GL or LB) for contract line item number.
25-29	Enter the quantity of waste going to disposal (50 = 00050).
30	Enter the activity code "R".
31-35	Enter the generating activity's organization and shop code.
36-39	Enter the Julian date.
40-43	Enter the next serial number from the organization's control register.
44	Enter the material condition code; use the letter "H".
62	Enter the action taken code; enter the number "9".
A	Identify the generating activity manager's name, organization, telephone number, and date.
D	Write the words "Hazardous Waste", if applicable, to readily identify to 90-Day Site. Provide a hazardouswaste profile sheet.
F	Identify the cost of disposal, and unit of issue from the applicable disposal contract. **Example**: *$1.23/GL*
J	Enter proper shipping description (see table 5.1 for further information). **Example:** *Waste naphtha, petroleum, 3, UN 1255, II*
AF Form 2005 is taken to the 90-Day Site, which will input data to generate the DD Form 1348-1.	

TRIC	DEL DEST / TOTE BOX	EX / DAC	A. INCHECKER, NAME, DATE (TIN)	B. INSPECTOR, NAME-STAMP, DATE (TIN)
1 2 3	4 5 6	7	SSgt. Smith, EMS/AGE,	
T I N			555 9999,9436	
			REQUESTER, TIME & DATE (ISU)	

STOCK NUMBER			UNIT OF ISSUE	QUANTITY	C.	DOCUMENT NUMBER					DMD
NSC	NIIN	ADDN				ACT	ORG	SHOP	DATE	SER. NO.	COMM
8 9 10 11	12 13 14 15 16 17 18 19 20	21 22	23 24	25 26 27 28 29	1 55 GAL. DRUM	30	31 32 33	34 35	36 37 38 39	40 41 42 43	44
6 8 5 0	P H W D 0 0 1 6 8	5 0	LB	0 0 0 5 0		R	9 1 4	Y D	9 4 3 6	0 0 0 7	H

	PART NUMBER		E. T.O. REFERENCE/TECHNICAL PUBLICATION OR END-ITEM APPLICATION/ NEXT HIGHER ASSEMBLY
			(5% Naptha, 95% Water)

D. PART NUMBER/MGFR CODE OR NAME/REMARK
Hazardous waste

WORK ORDER	TEH	CMD	FRA		SD	PROJECT	PRI	REQ	DEL DATE	UJC		MARK FOR	F. T.O. PSC AND/OR ERRC
SHIP TO	51	S1		54	55 56	57 58 59	60 61	AT		CY CIVE	PRN CIVE	DOCUMENT NUMBER POST/POST	
45 46 47 48 49 50		52 53						62	63 64	65	66	67 68 69 70 71 72 73 74 75 76 77 78 79 80	
											9		

G. TIME & DATE OF DELIVERY	H. DELIVERY TIME	I.	J. NOMENCLATURE
			Waste Naphtha, Petroleum, 3, UN1255, II

AF Form 2005 JUN 86

GUIDANCE PER AFI 32-7043
HAZARDOUS WASTE MANAGEMENT GUIDE

1. Each generating activity will assign a primary and alternate initial accumulation point manager for the waste streams they generate. Initial accumulation point (IAP) managers and alternates are responsible for:
   a) Providing safe equipment and locations for initial accumulation points.
   b) Coordinating each location with accumulation point manager, 375 CES/CEAN Hazardous Waste Program Manager, ground safety, fire protection, and Bioenvironmental Engineering Services.
   c) Ensuring hazardous waste accumulation complies with federal, state, and local hazardous waste management requirements.
   d) Ensuring all personnel that handle hazardous waste at the initial accumulation points receive annual training.
2. Hazardous waste must be stored in EPA approved containers. Coordinate with 90-Day Hazardous Waste Site personnel to select the proper hazardous waste container based on the DOT Hazardous Materials Table listed in 49 CFR 172.101. Column 7 of the table refers to special provisions for packaging and transportation. Column 8 identifies the specific packaging requirements.
3. All containers storing hazardous waste must be in good condition. Good condition means there should be no severe rusting, no sharp-edged creases or dents, no bulging heads caused by over pressuring a container and no severe structural defects. If a container is not in good condition or begins to leak, the hazardous waste must be immediately transferred to another container or overpacked in a salvage drum.
4. Do not overfill containers. Fill to no more than 90% of capacity. Keep containers closed unless adding or removing waste. To prevent improper mixing, containers must be kept in a secured area. If the material in the drum is combustible or flammable, spark proof wrenches should be used to prevent accidental ignition of the waste due to sparks. These containers must also be kept away from sparks, open flames, extreme heat, or other sources of ignition. Grounding is required for flammable wastes. Drums containing flammable liquids should not be stacked. If containers must be stored outdoors, store them in an area protected from precipitation.
5. Each container of hazardous waste must be marked with the words "Hazardous Waste." It is recommended that the waste stream contents be marked on the container. All marking should be large enough to be seen from a distance. All containers must be inspected at least weekly for potential release problems. It is recommended that containers at IAP's be inspected daily. Inspection records must be maintained for at least 3 years from the date of each inspection.
6. An IAP must be close to the generating activity (point of generation), and the IAP must be under the control of the operator of the process generating the waste. Accumulation may continue at an IAP until 55 gallons of hazardous waste or 1 quart of acute hazardous waste is accumulated. Before this limit is exceeded, the generating activity must transfer the waste to the 90-Day Hazardous Waste Site.

ADDITIONAL SCOTT AFB REQUIREMENTS

1. A warning sign that includes the following information must be posted at each IAP:
   a) the words "Hazardous Waste Initial Accumulation Point," or "Non-RCRA Regulated Waste, Initial Accumulation Point," as appropriate;
   b) the unit/activity designation (i.e., 89 AGS); and
   c) the names and telephone numbers of the IAP manager and alternate
2. Incidental spills and discharges will not flow into the sanitary or storm water runoff systems, onto the bare ground, or into waterways. Containers shall not be located near any operable (not plugged) floor drains.
3. Indoor IAP's shall be well ventilated where necessary. In the event of a spill or leak, effective ventilation shall be installed to safely direct toxic or flammable vapors out of the work area.
4. Outdoor IAP's will be protected from direct sunlight and precipitation to prevent expansion of any container due to heat buildup, and to reduce corrosion of the container.
5. Spill control and emergency response equipment must be readily available. An emergency notification roster must be posted near the phone. An evacuation route showing each IAP must be posted.

PROPOSED INITIAL ACCUMULATION POINT

1. Shop Name _____
2. Building No./Address _____
3. Point of Contact _____
4. Squadron/Office Symbol _____
5. Phone No. _____
6. New Waste Stream? ☐ Yes ☐ No
7. Current Location/Waste Stream No. _____ ☐ n/a
8. Proposed Waste _____
9. Estimated Monthly Quantity _____ lb/gal

10.

Primary Location

11.

Alternate Location

Approvals:

Asset Management-Natural Resources _____ Wing Safety _____

Fire Department _____ Bio Env. _____

Comments: _____

Scott AFB Initial Accumulation Point (IAP) Inspection Checklist

Inspection conducted by: _____ Date: ____

IAP designation: _____ IAP manager/alternate: _____

IAP location (bldg): _____ Shop ID: _____ Haz. Class: (circle all that apply) Haz Univ Non

	Y	N	Comment
1. Was the IAP manager/alternate available at the time of inspection?	☐	☐	_____

The following are requirements for each IAP. Each IAP manager should maintain a binder containing all appropriate paperwork associated with the IAP. Maintaining this paperwork in a single location will improve access to the reference information and will maintain continuity of operations as personnel rotate. This binder is referred to as an IAP Continuity Book in this checklist.

	Y	N	Comment
2. Is the IAP continuity book readily available?	☐	☐	_____
3. Does the IAP Continuity Book contain a current appointment letter signed by the squadron commander designating an IAP manager and at least one alternate for each shift the organization operates?	☐	☐	_____
4. Does the IAP Continuity Book contain a description of all IAP manager and alternate responsibities?	☐	☐	_____
5. Does the IAP Continuity Book contain an approved and accurate IAP Location Approval Letter for each IAP that has been coordinated with and approved by the IHWPM, Fire Protection, BioEnvironmental, and Wing Safety ?	☐	☐	_____
6. Does the IAP Continuity Book contain a Site-Specific Contingency Plan (SSCP)?	☐	☐	_____
7. Does the SSCP contain all of the following elements:			
a. The actions of facility personnel in response to emergencies?	☐	☐	_____
b. Reference other applicable plans, such as the SPCC?	☐	☐	_____
c. A description of arrangements agreed to by other agencies?	☐	☐	_____
d. A current list of names and addresses for all emergency coordinators?	☐	☐	_____
e. The locations and descriptions of all available emergency response equipment?	☐	☐	_____
f. An evacuation plan that includes evacuation signals, routes, and alternate routes and post-evacuation meeting locations?	☐	☐	_____
8. Required hazardous waste (HW) training consists of the 4-hr Air Force hazardous waste management training with annual refreshers thereafter and hazard communication training. Does the IAP Continuity Book contain up-to-date training records or a description of their location for each of the following personnel?			
a. The IAP manager?	☐	☐	_____
b. Each of the IAP alternate managers?	☐	☐	_____
c. All industrial shop workers who handle, monitor, or dispose of waste?	☐	☐	_____
d. Supervisors of HW/universal waste (UW) generating activities?	☐	☐	_____
e. Forklift training for operators of lifting equipment?	☐	☐	_____
9. Does the IAP Continuity Book contain a HW Accumulation Log for each waste?	☐	☐	_____
10. Does the IAP Continuity Book contain weekly inspection records for at least 3 years? Each inspection must document items 3, 5, 6, and 8e above and items 15, 16, 21b, 23, 25, 26a, 30a, 32, 35, 37c, 37d, 37e, 37h, and 37j below.	☐	☐	_____
11a. Does the IAP Continuity Book contain instructions for completing AF Form 2005?	☐	☐	_____
11b. Are AF Form 2005s generating during the last 3 years available for inspection?	☐	☐	_____

Scott AFB Initial Accumulation Point (IAP) Inspection Checklist (continued)

	Y	N	Comment
12a. Does the IAP Continuity Book contain instructions for completing DD Form 1348-1A?	☐	☐	
12b. Are DD Form 1348-1As generated during the last 3 years available for inspection?	☐	☐	
13. Does the IAP Continuity Book contain current profiles (DRMS Form 1930) for each waste? Is each profile accompanied by the following documentation:	☐	☐	
a. A current MSDS for each material contributing to the waste?	☐	☐	
b. The most recent and past results of any laboratory waste analysis data?	☐	☐	
c. High volume HW streams (4 or more drums per year) analyzed annually?	☐	☐	
d. Low volume HW streams (< 4 drums per year) analyzed every 3 years?	☐	☐	
e. Non-RCRA waste streams analyzed every 3 years? (minimum 3 times)	☐	☐	
f. Have all Underlying Hazardous Constituents (UHC) for HW been identified?	☐	☐	
14a. Review materials in the shop. Have all potentially hazardous waste streams been identified?	☐	☐	
14b. Is their disposal properly accounted for?	☐	☐	
14c. Has each stream been assigned a waste stream identification number?	☐	☐	

This portion of the inspection is conducted at the IAP physical location. Ensure that each container is inspected and any discrepancies identified. Follow up inspections are required to verify that recommended corrections have been implemented.

	Y	N	Comment
15. Is security adequate to prevent entry of unauthorized personnel?	☐	☐	
16. Is the IAP accurately and completely identified with warning signs?	☐	☐	
17. Are the IAP manager and alternate names and phone numbers posted?	☐	☐	
18. Is the IAP well ventilated and/or is emergency ventilation available?	☐	☐	
19. Are outdoor IAPs protected from direct sunlight and precipitation?	☐	☐	
20. Are containers protected from freezing?	☐	☐	
21a. Is the area at or near the point of waste generation (line of sight/50 feet)?	☐	☐	
21b. Is the area clean, free from evidence of spills, and in good repair?	☐	☐	
22. Are drum funnels available and used for adding wastes to closed head drums?	☐	☐	
23. Is secondary containment in place and operational? (spill pallets)	☐	☐	
24. Is there a system in place to prevent discharges to sanitary or storm drains?	☐	☐	
25. Are all drums/containers free from defects (i.e., rust, dents, bulging)?	☐	☐	
26a. Are all drums/containers containing ignitable waste grounded properly?	☐	☐	
26b. Are nonsparking tools being used to open or close drums containing ignitables?	☐	☐	
27. Are all drums/containers compatible with the wastes they contain?	☐	☐	
28. Are all incompatible wastes separated? (separate areas/pallets or a wall)	☐	☐	
29. Are all drums/containers containing corrosives marked with the pH?	☐	☐	
30a. Are all drums/containers properly marked with contents?	☐	☐	
30b. Do the markings agree with the HW profile sheet?	☐	☐	
30c. Are markings and labels easily visible? (1-2" high letters in contrasting color)	☐	☐	
30d. Have all extraneous markings or labels been removed or painted over?	☐	☐	
31. Are all UW containers closed and marked with the accumulation start date?	☐	☐	

Scott AFB Initial Accumulation Point (IAP) Inspection Checklist (concluded)

	Y	N	Comment
32. Are all drums/containers secured/closed and under control of the generator?	☐	☐	
33. Is a system in place to prevent exceeding 55 gallons of hazardous waste?	☐	☐	
34. Is a system in place to prevent exceeding 1 quart of acute hazardous waste?	☐	☐	
35. Is a system in place to prevent exceeding 90% of container capacity?	☐	☐	
36. Have containers ready for transfer to the CAS been identified properly?	☐	☐	
37. Is the following spill control and emergency response equipment readily available:			
a. At least one empty, compatible, DOT-approved container for each waste?	☐	☐	
b. At least one DOT-approved compatible overpack container?	☐	☐	
c. Adequate absorbent materials for each waste type stored?	☐	☐	
d. Personal protective equipment (PPE) for safe handling of wastes?	☐	☐	
e. An emergency eyewash and shower easily accessible?	☐	☐	
f. Proper handling/grappling equipment for safe movement of containers?	☐	☐	
g. An internal communication system in place and operational?	☐	☐	
h. A telephone, two-way radio, or other warning device for external comm?	☐	☐	
i. A nonsparking shovel for containerizing flammable/combustible wastes?	☐	☐	
j. Adequate fire control equipment present, in good condition, and accessible?	☐	☐	
38. Is an inventory for each spill response kit available and accurate?	☐	☐	
39. Is there an emergency notification roster near the telephone?	☐	☐	
40. Has an evacuation route showing the IAPs and safety equipment been posted?	☐	☐	

Identify any deficiencies: _____

Recommendations to correct deficiencies: _____

Estimated completion dates: _____

Followup inspection dates: _____

Actual completion dates: _____

Identify any outstanding accomplishments: _____

WEEKLY INSPECTION CHECKLIST FOR CENTRALIZED ACCUMULATION POINT (CAS)

ITEM	ACCEPTABLE		
	N/A	YES	NO
1. SITE			
a. Is the storage facility maintained in good condition?			
b. Are warning signs, facility evacuation maps and emergency notification procedures posted?			
c. Is an adequate stock of hazardous waste management supplies (e.g., drums, labels tools, etc) available to meet the facility's needs?			
2. CONTAINER MANAGEMENT			
a. For hazardous waste containers, is the accumulation start date within 60 90 days? (circle one)			
b. For universal waste containers, is the accumulation start date within 9 12 months of the current date? (circle one)			
c. Does the number of containers at the facility agree with the facility's container log?			
d. Are containers closed / sealed?			
e. Are containers stored upright on pallets?			
f. Are containers in good condition (i.e., no dents, bulging, corrosion, leaks, etc.)			
g. Do containers meet the specifications of performance-oriented packaging?			
h. Are containers that hold ignitable wastes properly grounded?			
i. Are containers that hold incompatible wastes properly separated?			
j. Are containers stored on an impervious surface or on secondary containment of sufficient capacity?			
k. Has adequate aisle space been left between containers?			
l. If drums are stacked, are they stacked appropriately?			
3. CONTAINER MARKING / LABELING			
a. Is a hazardous waste, non-RCRA regulated waste, or universal waste marking affixed to each container (except containers that are awaiting analysis)?			
b. Are the contents marked on each container?			
c. Is the accumulation start date marked on each container?			
d. Has a unique identification number been assigned and marked on each container?			
e. Have DOT hazard class labels been affixed to each container?			
f. Have additional markings required by DRMO or CAS been affixed to each container?			
4. EMERGENCY / SAFETY EQUIPMENT			
a. Are fire extinguishers conveniently located and properly charged?			
b. Are emergency showers/eye wash stations conveniently located and in working order?			
c. Are communications systems (i.e., phone, intercom, alarm) accessible and in working order?			
d. Are spill response kits and associated equipment (e.g., spare containers, overpack containers, shovels, socks/booms/pigs, etc.) conveniently located and appropriately stocked?			
e. Is personal protective equipment conveniently located and in good condition?			

5. DISCREPANCIES NOTED / CORECTIVE ACTION TAKEN

_____

_____

_____

_____

90-DAY HAZARDOUS WASTE CENTRALIZED ACCUMULATION SITE
BUILDING 3306
SITE-SPECIFIC CONTINGENCY PLAN

SUBMITTED BY: MACTEC

APPROVED BY: 375 CES/CEAN, Mr. Mark McCoy, 1 February 2009

1. SITE SPECIFIC CONTINGENCY PLAN

a. **Next Review Date:** 1 February 2010.

b. **Facility:** 90-Day Hazardous Waste Centralized Accumulation Site, Bldg 3306.

c. **Site Description:** The site is located at Bldg 3306. Bldg 3306 was specifically designed for the storage and containment of hazardous waste.

d. **Secondary Containment:** Bldg 3306 consists of 10 separate storage bays. Each bay has a concrete floor with a concrete dike around the perimeter of each bay providing full containment for up to 90 gallons of liquid.

e. **Operation:** Monday through Friday, 0700-1600 hours

f. **Points of Contact:**

EMERGENCY COORDINATOR	HW FACILITY MANAGER
Scott Air Force Base Senior Fire Officer on Duty Tel: 911/256-5130 375 CES/CEOF 701 Hangar Road Scott Air Force Base Illinois 62225	Mr. Kevin Emerson 618-530-6557 (cell) 618-256-2184 (office) Same as cell (home) 1310 Crown Lane O'Fallon, IL 62269

(1) The Senior Fire Officer on duty has the authority to escalate the response level up to and including activation of the Disaster Control Group.

(2) Office of Emergency Services: 911

(3) After normal duty hours call 256-5891 (Command Post). This number is used to notify the HW Facility Manager or other designated representatives in the event of a problem during nonduty hours.

2. TYPES OF SPILLS

a. **Emergency Response Spill.** An emergency response spill is a spill that poses a threat to personnel, facilities, or the environment or cannot be controlled or isolated. Notify the Base Fire Department any time a spill involves:

(1) 1 pound or more of mercury in the work area. In addition, contact Civil Engineering Customer Service at 256-2202. The HAZMAT Response Team responds to small mercury releases.

(2) Any quantity from a pressurized system.

Routine Spill. A routine spill is an incidental release of one or more **known** hazardous substances that may be absorbed, contained, or otherwise controlled without undue risk to personnel, facilities, or the environment. MACTEC hazardous waste personnel or the Emergency Coordinator must determine that the release of the hazardous substance

poses no health risk or potential safety hazard and that there is not a threat to the environment for the release to be [redacted] as a routine spill. **WHEN IN DOUBT, TREAT THE RELEASE AS AN EMERGENCY RESPONSE SPILL.**

3. RESPONSE ACTIONS: SPILLS, FIRES, EXPLOSIONS (See also Annex 8 of the Scott AFB Hazardous Materials Emergency Planning and Response Plan)

a. Routine Spill. The following response actions will be performed for a routine spill:

(1) Alert personnel in the area that a routine (i.e., nonemergency) spill has occurred. Personnel in affected area will be alerted by the most expeditious means (i.e., telephone, voice, or other signal). Remove all contractors and visitors from the spill scene and instruct them to meet on South Warehouse Drive in front of the gate to Bldg 3306 for further instructions, pending an evaluation of the spill scene by MACTEC personnel. A routine spill response will not require the evacuation of MACTEC or other authorized personnel; however, the spill scene shall be off limits to unauthorized personnel.

(2) MACTEC personnel **MUST POSITIVELY CONFIRM** the contents of the released hazardous substance to establish that routine spill response actions are appropriate. Positive confirmation shall be obtained from the HW profile sheet or the material safety data sheets (MSDS) associated with the spilled material. **IMMEDIATELY CONTACT THE BASE FIRE DEPARTMENT AT 911**. In addition to reporting the information listed below, provide the Base Fire Department with the information contained in the applicable HW profile sheet and/or MSDS to confirm that routine spill response actions are appropriate and that MACTEC personnel should implement routine spill response actions. Information supplied to the Base Fire Department includes:

(a) Your name and phone number

(b) Location of the spill (to include facility number)

(c) Nomenclature of the substance spilled

(d) Time spill occurred (estimated)

(e) Amount spilled (estimated)

(f) Rate of spill, if ongoing (estimated)

(g) Direction and distance spill has traveled

(h) If a potential release to the environment exists, identify the media receiving the potential release (soil, waterway, storm drain, air, etc.)

(i) Other pertinent data or potential hazards

(3) When permission to proceed with routine spill response actions is granted by the Base Fire Department, don appropriate personal protective equipment and implement cleanup activities. MACTEC personnel are only authorized to respond to routine spills, which only require Level D chemical protective clothing (CPC). Level D CPC does not include respiratory protection (i.e., Level D CPC are for conditions with no known inhalation hazards). Routine spill response activities include:

(a) Contain the spill with clay absorbent, spill booms, or absorbent pads; prevent the spill, by any reasonable means possible, from entering the ground, storm drain, waterways, and airways.

(b) If possible, prevent further leaking of containers and from areas by rotating punctured containers with [redacted]maged side up, plugging holes, shutting off valves, etc.

(c) Transfer the leaking fluid into an approved drum/container by using a drum pump, or overpack the [redacted] drum and process for disposal.

(d) Place all spill residues in approved drums for disposal. [Note: Spill residues are items that have come in contact with the hazardous waste or hazardous material as a result of the spill or cleanup procedures. These items must be disposed of appropriately if they cannot be decontaminated (e.g., absorbent, sandbags, rags, wooden items, plastic bags, damaged drums, soil, etc.).]

(4) In addition to calling the Base Fire Department, notify the following personnel/agencies:

(a) Scott Command Post	256-5891
(b) Chief, Environmental Flight	256-2046/2092
(c) Hazardous Waste Compliance Office	256-2167/2092

(5) The Scott Command Post will contact the following personnel/agencies as required:

(a) Wing Safety	256-3611
(b) Security Forces	911/256-2223
(c) Scott AFB Medical Center	911/256-7595
(d) Wing Commander	256-3751

b. Emergency Response Spill. The following response actions will be performed for an emergency response spill, fire or explosion:

(1) Alert all personnel in the area of the spill and initiate area evacuation. Personnel in affected areas will be [redacted]rted by the most expeditious means (i.e., fire alarm, telephone, voice, or other signal). Activate the fire alarm. Immediately notify personnel at Bldg 3306 to evacuate the building and to proceed to South Warehouse Drive to the gate to Bldg 3306. If an inhalation hazard exists, direct personnel to gather at a location upwind of the spill.

(2) **IMMEDIATELY CONTACT THE BASE FIRE DEPARTMENT AT 911.** Report the following information:

(a) Your name and phone number

(b) Location of the spill (to include facility number)

(c) Nomenclature of the substance spilled

(d) Time spill occurred (estimated)

(e) Amount spilled (estimated)

(f) Rate of spill, if ongoing (estimated)

(g) Direction and distance spill has traveled

(h) If a release to the environment has occurred, identify the media receiving the release (soil, waterway, storm drain, air, etc.)

(i) Other pertinent data or potential hazards

(3) **MACTEC personnel are not authorized to respond to emergency response spills except as specified [redacted]w.**

(a) Shut down all equipment in the area that may pose a danger of igniting the spill.

(b) If the spill is ignited, do not attempt to extinguish the fire. Only trained emergency response personnel [redacted]he Base Fire Department shall attempt to extinguish the fire.

(c) Keep all non-response-related vehicles at least 50 feet away from the spill area. If possible, remove said vehicles to the parking area north of Bldg 3306 to allow access for emergency response vehicles.

(d) Ensure that the entire site is checked for personnel. [Note: Bldg 3306's interior is an open bay configuration, making a visual site check for personnel relatively easy.] Inform everyone present that a spill has occurred and that they must evacuate through the entry gate (north exit). All evacuated personnel shall proceed to South Warehouse Drive in front of the gate to Bldg 3306 to meet for a head count (see attached map). If an inhalation hazard exists, direct personnel to gather at a location upwind of the spill.

(e) No further entry of any personnel or vehicles will be permitted into the area unless authorized by the On-Scene Commander.

(f) MACTEC personnel shall provide the On-Scene Commander with a current on-site inventory of hazardous waste in Bldg 3306. This inventory shall be kept with the SSCP in a pouch attached to the entry gate for Bldg 3306. This inventory is updated as necessary to reflect the current inventory.

(4) In addition to calling the Base Fire Department, notify the following personnel/agencies:

(a)	Scott Command Post	256-5981
(b)	Chief, Environmental Flight	256-2046/2092
(c)	Hazardous Waste Compliance Office	256-2167/2092

(5) The Scott Command Post will contact the following personnel/agencies as required:

(a)	Wing Safety	256-3611
(b)	Security Forces	911/256-2223
(c)	Scott Medical Center	911/256-7595
(d)	Wing Commander	256-3751

4. ESTIMATED QUANTITIES OF OIL AND HAZARDOUS SUBSTANCE DATA

Description	Quantity (lb/mo_{avg})	Method (Type Container)	RQ (lb)
Adhesives	50	Various	MSDS
Alkaline w/Potassium Hydroxide	250	30-15 Gal Poly Drums	N/A
Lead Acid	100	30-15 Gal Poly Drums	N/A
Lithium	25	Various Sizes	N/A
Magnesium	5	Various Sizes	N/A
Mercury	5	Various Sizes	N/A
Nickel-Cadmium	100	30-15 Gal Poly Drums	N/A
Corrosive Liquids N.O.S.	50	Various Sizes	100
Drained Used Oil Filters	250	55 Gallon Metal Drum	N/A
Flammable Liquids N.O.S.	200	Various Sizes	100
Mercury Thermometers	1	Various Sizes	1
Mixed Fuel (Diesel, Gasoline, JP-8)	1,000	55 Gallon Metal Drum	100
Non RCRA Hazardous Waste Liquids	500	Various Sizes	N/A
Non RCRA Hazardous Waste Solids	1,500	Various sizes	N/A
Pads Saturated with Oil	230	55 Gallon Metal Drum	N/A
Pads Saturated with JP-8	270	55 Gallon Metal Drum	100
Paint Related Material	180	55 Gallon Metal Drum	MSDS
Sealing Compound	10	Various Sizes	MSDS
Used Oils	2,500	55 Gallon Metal Drum	N/A
Waste Lamps (Universal Waste)	250	Cardboard Boxes	N/A
Annotate Additional Waste Items (If Required)			

The On Site Hazardous Waste Inventory is included in pouch with this Site Specific Contingency Plan.

5. REQUIRED EQUIPMENT AND LOCATIONS: The equipment (and unit of issue) must adequately accommodate a spill from the largest container at the facility. All equipment must be maintained in good condition and in working order. [Note: In any response action, ensure that personnel protective equipment is correctly utilized for its intended purpose and is compatible for use with the spilled material. Personnel must also understand that gloves, goggles, aprons, face shields, and protective clothing have limitations in its ability to protect the user. Permeability rates can affect the viability of protective equipment utilized and must be considered in any spill response activity.]

a. **Emergency Equipment.** See attached map for equipment location.

3	Fire Extinguishers (ABC)	Used for extinguishing small fires not involving flammable metals.
1	Cellular Telephone	For use outside of facility only; may initiate ignition of vapors in explosive atmospheres.
2	Emergency Eyewash/Shower	Used for flushing out eyes/body with water in the event of chemical splashes affecting the eye/body area.

b. **Personal Protective Equipment.** The following items are kept in equipment locker for use in conducting day-operations; see attached map for equipment location.

2	Pairs of Gloves	Used to protect hands from injury during the handling of drums; provides limited chemical exposure protection.
2	Goggles	Used to protect eyes from injury during the handling of drums; provides limited chemical exposure protection.
1	Tyvek Coverall	Used to protect body from injury during spill cleanup of acids, bases, and unknown liquids; provides limited chemical exposure protection.
1	Pair of Boots	Used to protect feet from injury during spill cleanup of acids, bases, and unknown liquids; provides limited chemical exposure protection.

c. **Spill Cleanup Equipment.** See attached map for location.

1	Broom	Used to sweep up spilled material.
2	Overpack Drum (85 gal)	Used to overpack damaged containers.

d. **Spill Kits.** There are five spill kits on site: one aggressive spill kit, three nonaggressive spill kits, and one mercury spill kit. See attached map for kit locations.

(1) **Aggressive Spill Kit.** The aggressive spill kit contains specific equipment for cleaning up acids, bases, and unknown liquids. For routine or emergency response spills involving acids, bases, and unknown liquids, any personal protective equipment utilized **MUST ONLY BE TAKEN FROM THE AGGRESSIVE SPILL KIT**. Aggressive spill pads, socks, and pillows are usually PINK in color. A complete aggressive spill kit contains the following equipment:

6	3" X 4' Socks	Used to absorb spilled liquids containing acids, bases, or unknown liquid.
2	2-Liter Pillows	Used to absorb spilled liquids containing acids, bases, or unknown liquids.
30	Mats	Used to absorb spilled liquids containing acids, bases, or unknown liquids.
	Mercury Spill Kit	**Located within the Aggressive Spill Kit**
2	Sponges	Used to absorb spilled mercury
1lb	Absorbent	Used to absorb spilled mercury

(2) **Nonaggressive Spill Kit.** The nonaggressive spill kits contain specific equipment for cleaning up oils, coolants, solvents, hydrocarbon liquids, and water. For routine or emergency response spills involving oils, coolants, solvents, and water, any personal protective equipment utilized **MUST ONLY BE TAKEN FROM THE NONAGGRESSIVE SPILL KIT.** Nonggressive spill pads, socks, and pillows are usually BLUE in color. A complete [illegible]gressive spill kit contains the following equipment:

35	3" X 4' Socks	Used to absorb spilled liquids containing oils, coolants, solvents, and water.
13	3" X 10' Socks	Used to absorb spilled liquids containing oils, coolants, solvents, and water.
30	2-Liter Pillows	Used to absorb spilled liquids containing oils, coolants, solvents, and water.
50	Mats	Used to absorb spilled liquids containing oils, coolants, solvents, and water.
17	Disposal Bags	Used for containing HW socks, pads, mats, and PPE.
9	Pairs of Rubber Gloves	Used to protect hands from injury during spill cleanup of oils, coolants, solvents, and water; provides limited chemical exposure protection.
35	3" X 8' Socks	Used to absorb spilled liquids containing hydrocarbon liquids.
2	Goggles	Used to protect eyes from injury during spill cleanup of oils, coolants, solvents, and water; provides limited chemical exposure protection.
2	Tyvek® Coveralls	Used to protect body from injury during spill cleanup of oils, coolants, solvents, and water; provides limited chemical exposure protection.
1	Nonsparking Shovel	Used for picking up or removing spilled material containing oils, coolants, solvents, and water.
1	Package Wipes	Used to decontaminate the body during spill cleanup of oils, coolants, solvents, and water; provides limited chemical exposure protection.
1	Emergency Response Guide Book	Used to determine the proper spill response procedures for the specified spilled material.

e. **Additional Equipment.**

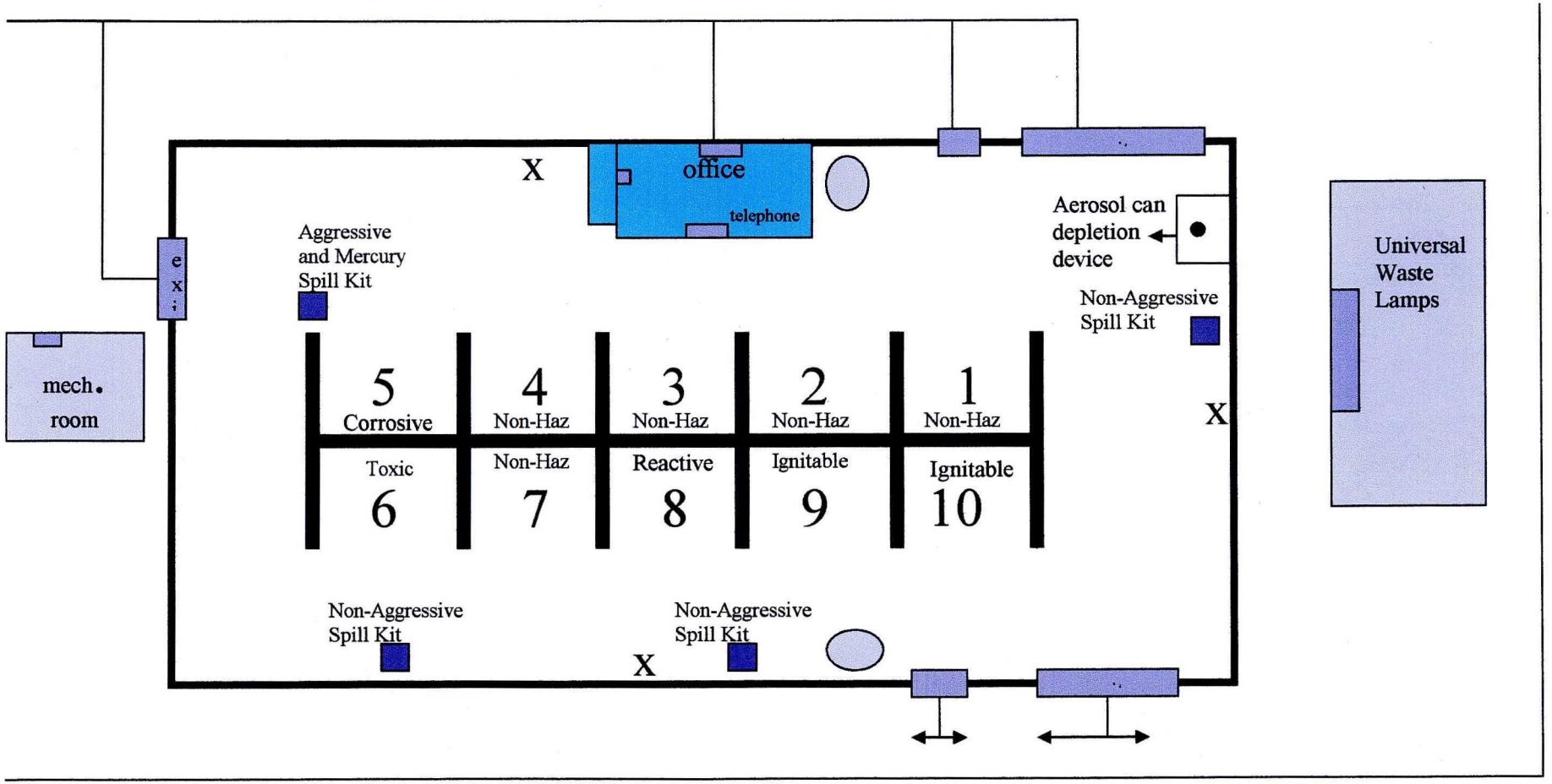
1	Bung Wrench	Used for opening and tightening lids on drums; located inside Bldg 3306.
2	Drum Dolly	Used for moving individual drums; located inside Bldg 3306.

0-Da Centralized Hazardous Waste
ccumulation Site (CAS)
iagram Bldg. 3306

x Fire Extinguishers
Eyewash/Shower
Spill Kits

Fire Alarms Located at all Exits

Evacuate to South Warehouse Drive



Reicer

Local	6850000N011543	GL
NSN	6850014356474	DR
Local	6850PE36GL	GL

8/1/18

03/12/09

- Michael Prescott, Contractor
  35 years experience. P.E.
  130 Federal Facility Inspections
  Private Consultant
  Fully Certified
  Report done within 2 weeks
  Air
  Water
  In Brief. Out Brief.

Scott AFB 14 May 09
Conference Call

Michael
Dan
Lee
Lance
Sue

Screen for SICC & UIC
Funding for another contractor for Air?
↳ need RS to decline.
Call Wayne I EPA ref. Mike
Attn: add section about USTs.
Storm Water Construction

Issues

15 Jun => Revise Protocol & Send

~~25~~ => Conf Call => 9 July 1300 Central

17 July => NLT Noon ~~@~~ send email

07/09/09

1 of 2

Scott AFB
Conference Call

* Dan Chachakis EPA
* Wayne Caughman IEPA + * Mike Grant
↳ send photo
Lee Wagner EPA
Lance Needham EPA HQ
Susan ORC
* Arturo Cisneros
* Michael Prescott Contractor to HQ EPA

Visitor Main Gate
off of 64

1300 at hotel,

RCRA Inspections
Mike => 20 & 21st RCRA
Wayne => Working with Mike 21 & 22 Water
Storm Water
IEPA Air Inspector =
Fuel storage tanks
Not a high priority
Several Central heating plants that are
Boilers

RCRA, Water, Storm Water, Underground Storage tanks

On 21 Aug

Construction Storm Water side, abrivated. EPA
↳ Greg Glubski.

40 sat
90
22 universal

Air Refueling Wing

Surface Impoundment? →

2 of 2

Scott AFB
Conference Call

1. Release Detection
   ↳ E-mail Confirming contact w/ facility

→ Sponsor at gate
   License & Insurance

→ 3 HQ Attorneys : Access issues
   Sally Dezell 202-564-2583
   Anne Hurd 8101
   Craig Schneider 4271

→ Hospital w/ lab and pharmacy
   ↳ RCRA & Water
   Zilene substitute
   Aerosol Cans

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590

25 OCT 2005

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

REPLY TO THE ATTENTION OF
DE-9J

Raymond J. Rottman, Col, USAF
375th Airlift Wing/CC
101 Heritage Drive, Suite 375
Scott AFB, Illinois 62225

Kevin E. Jacobs, Major
Environmental Manager
Illinois Air National Guard
126th Air Refueling Wing
146 Air Guard Way
Scott AFB, Illinois 62225

Re: Compliance Evaluation Inspection
EPA I.D. No.: IL7 570 024 177

Dear Col Rottman and Major Jacobs:

On September 13, 2005, a representative of the United States Environmental Protection Agency (U.S. EPA) inspected the U.S. Air Force Scott Air Force Base (Scott AFB) located in St. Clair County, near Belleville, Illinois. The purpose of the inspection was to evaluate Scott AFB's compliance with the Standards Applicable to Generators of Hazardous Waste, Standards for Land Disposal Restrictions, and Management of Used Oil set forth at 35 Illinois Administrative Code (IAC), Title 35: Environmental Protection, Subtitle G: Waste Disposal, Chapter I: Pollution Control Board, and Title 40 of Code of Federal Regulations (40 CFR) Parts 262 to 265, 268 and 279, respectively. Enclosed please find a copy of our inspection report.

Based on the U.S. EPA's September 13, 2005, inspection, it appears that Scott AFB is in compliance. U.S. EPA's review of the inspection findings has not resulted in the detection of violations of any of the specific requirements under evaluation. This determination does not limit the applicability of the requirements evaluated, other hazardous waste regulations, or regulations under other environmental statutes. U.S. EPA and the Illinois Environmental Protection Agency will continue to evaluate Scott AFB in the future.

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If you have any questions regarding this matter, feel free to contact Mr. Valentino, of my staff, at (312) 886-4582.

Sincerely,

Lorna M. Jereza, P.E., Chief
Compliance Section 1
Enforcement and Compliance Assurance Branch
Waste, Pesticides and Toxics Division

Enclosure (1)

cc: Todd Marvel, Illinois EPA, (w/ encl.)
Lt. Col Stephen E. Shea, USAF, 375th CES/CC, (w/ encl.)
John W. Patterson, Environmental Flight Chief, 375th CES/CEV, (w/ encl.)
Andy Rodriguez, Environmental Compliance Officer, Scott AFB, (w/ encl.)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 W. JACKSON BOULEVARD
CHICAGO, IL 60604

COMPLIANCE EVALUATION INSPECTION REPORT

INSTALLATION NAME:	U.S. Air Force Scott Air Force Base
EPA ID No.:	IL7 570 024 177
LOCATION ADDRESS:	375th Air Wing 701 Hangar Road Scott AFB, Illinois 62225
NAICS CODE:	928110 (National Security)
DATE OF INSPECTION:	September 13, 2005
EPA INSPECTOR:	Michael Valentino

PREPARED BY: Michael Valentino 10-18-05

Michael Valentino, Environmental Engineer — Date

REVIEWED BY: Lorna M. Jereza 10/25/05

Lorna M. Jereza, P.E., Chief — Date
Compliance Section 1
Enforcement and Compliance Assurance Branch

Pacific Environmental Services, under contract to the Air Force, manages the 90-day hazardous waste accumulation building. Waste streams generated and accumulated at the SAPs are transferred to Bldg 3306 by Pacific Environmental Services. Hazardous waste streams are processed through the Defense Re-utilization and Marketing Office (DRMO) prior to their transport to an appropriate permitted hazardous waste treatment, storage or disposal facility (TSDF).

Hazardous waste generated on the base is processed through the DRMO. Mr. Emerson picks up the waste at its generation point and brings it to Bldg 3306 where he arranges for off-site transport to the appropriate TSDF. Fluorescent light bulbs are sent to Earth Protection Services, Inc. in Houston, Texas. Pb-acid batteries are sent to Bell City in nearby Belleville. Ni-Cd and Li batteries are sent to the Recycling Battery Corporation of America.

The 375th Air Wing consists of a Maintenance Squadron, Transportation Squadron and Civil Engineering Unit. The Transportation Squadron generates used oil which is picked up by Safety-Kleen.

Inspection and Observations:

After entering through Cardinal Creek Gate, I met with Mr. Chellappa inside the base at approximately 10:45 am CDT on the morning of September 13, 2005. From our rendezvous location, Mr. Chellappa and I drove to the engineering offices of the 375th Air Wing where we met with Messrs. Rodriguez and Emerson and Captain Maceda. We proceeded to the Command & Control Center, whereupon I displayed my enforcement credentials. After a brief discussion concerning the purpose for and order of the inspection, Mr. Rodriguez and Captain Maceda excused themselves.

I began the records review by looking through all manifests dating to September 2004, when U.S. EPA last conducted a CEI at Scott AFB. I did not observe discrepancies in the manifests, and the receiving facilities returned the manifests to the generator in a timely fashion.

I then reviewed Scott AFB's base-wide contingency plan, entitled, "Hazardous Material Emergency Planning and Response Plan" (October 2002). The plan contained all the necessary elements which are required by the State and Federal regulations. Scott AFB has its own fire department, security department and on-base hospital. A copy of the contingency plan has been provided to each of these entities. Arrangements are in place for each of these entities to respond in the event of a hazardous waste-related spill, fire or explosion at Scott AFB.

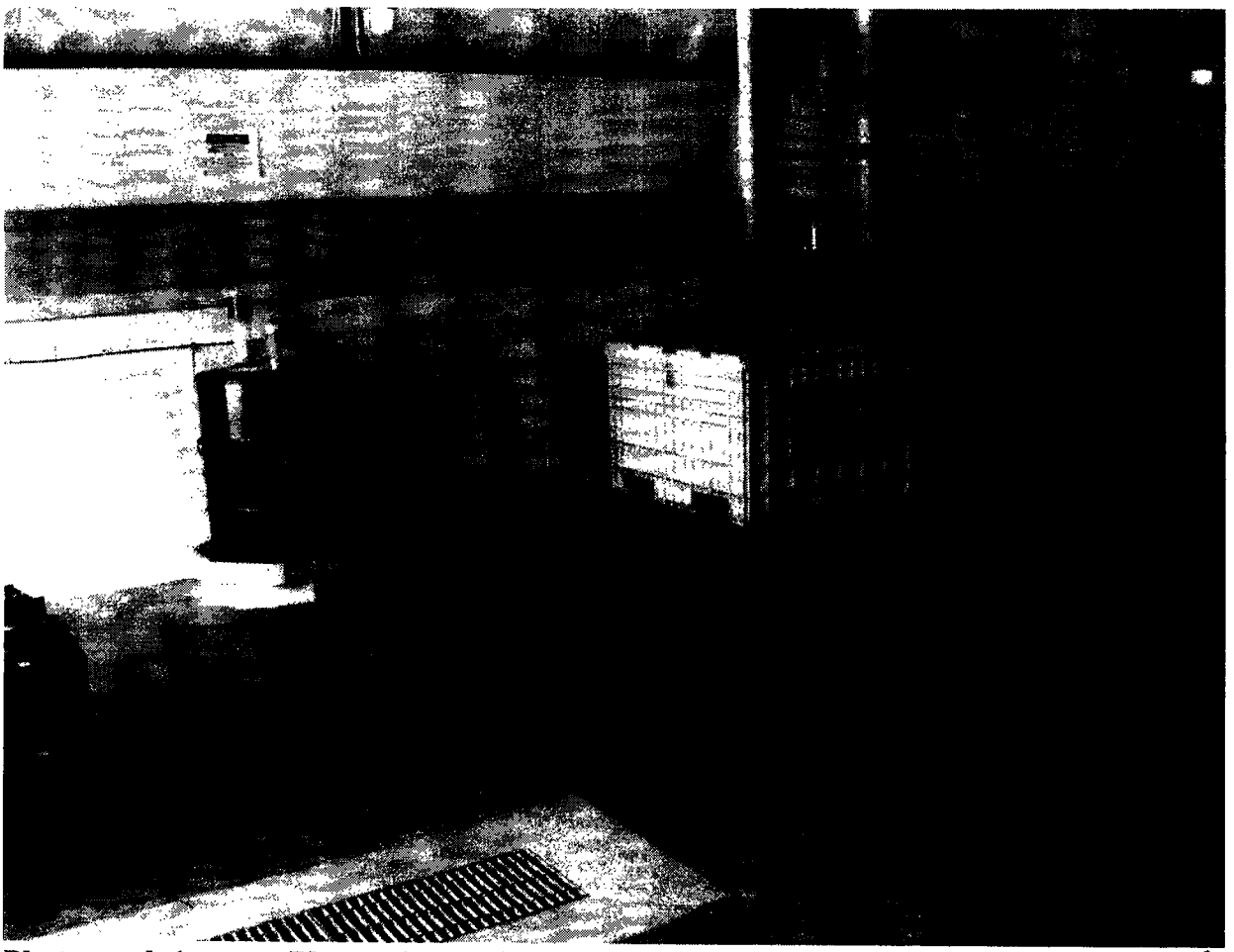
We discussed, and agreed to, breaking for lunch and conducting the walk-through afterward. During the installation walk-through, I took 15 photographs. These are compiled into a Photo Log as Attachment No. 1 to this narrative.

The remainder of the afternoon was spent touring SAPs throughout the 375th Air Wing's motor pool, located at Bldg 548. Larry Ramey, who manages the motor pool, led the tour in this area of the base. I photo-documented these satellite locations which accumulate hazardous wastes and used oils. Anti-freeze is recycled on-site. (*See* Photos #11 - #15) Each of the SAP containers were found to be in good condition, properly labeled, closed and free of any sign of spillage. The 375th Air Wing provides secondary containment for used oil and hazardous waste containers, as well as ensures its inventory is well-maintained by employing weekly inspections at each SAP. Overall waste management by the Bldg 548 Motor Pool is exceptional.

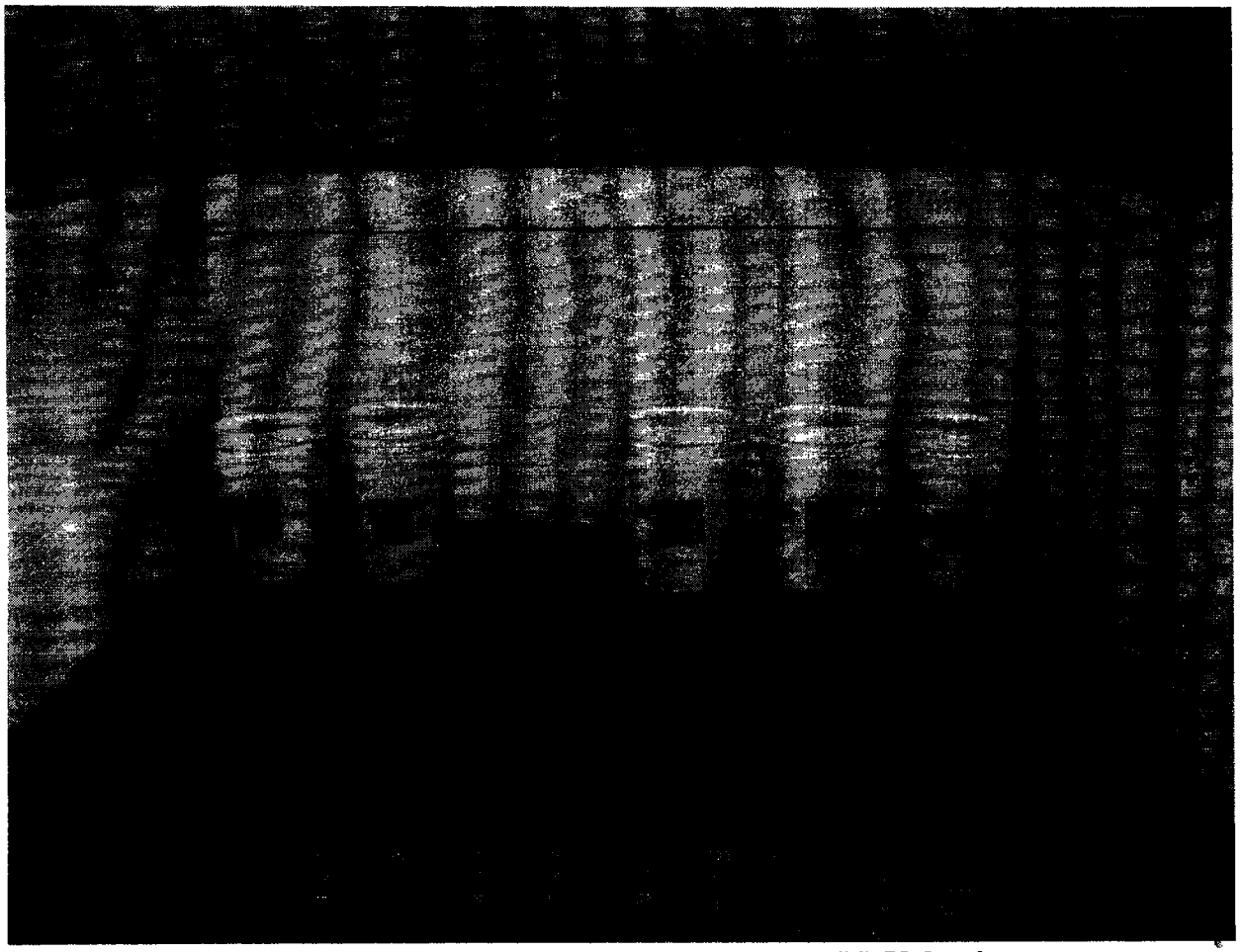
At approximately 4:00 pm, I returned with Scott AFB personnel (Messrs. Emerson and Chellappa) to the 375th Air Wing conference area. I discussed my observations throughout the course of the day. The exit interview concluded at approximately 4:15 pm. I was driven to my vehicle and exited the base shortly thereafter.

Attachments:

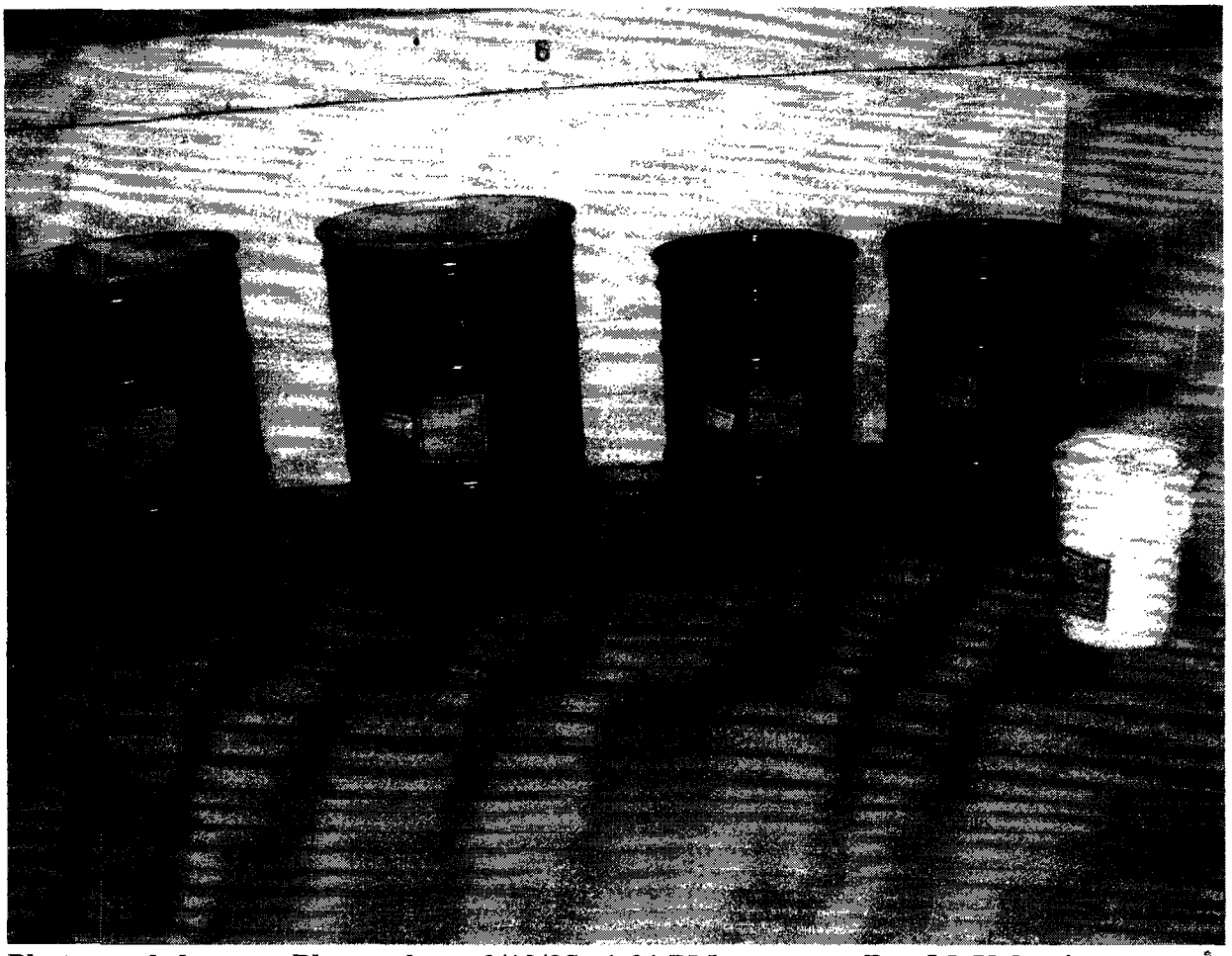
1. Photo Log
2. Checklist



Photograph 1 Photo taken: 9/13/05 1:18 PM By: M. Valentino
Facility: Scott AFB Description: Bldg 3306, Aerosol can SAP and spill kit

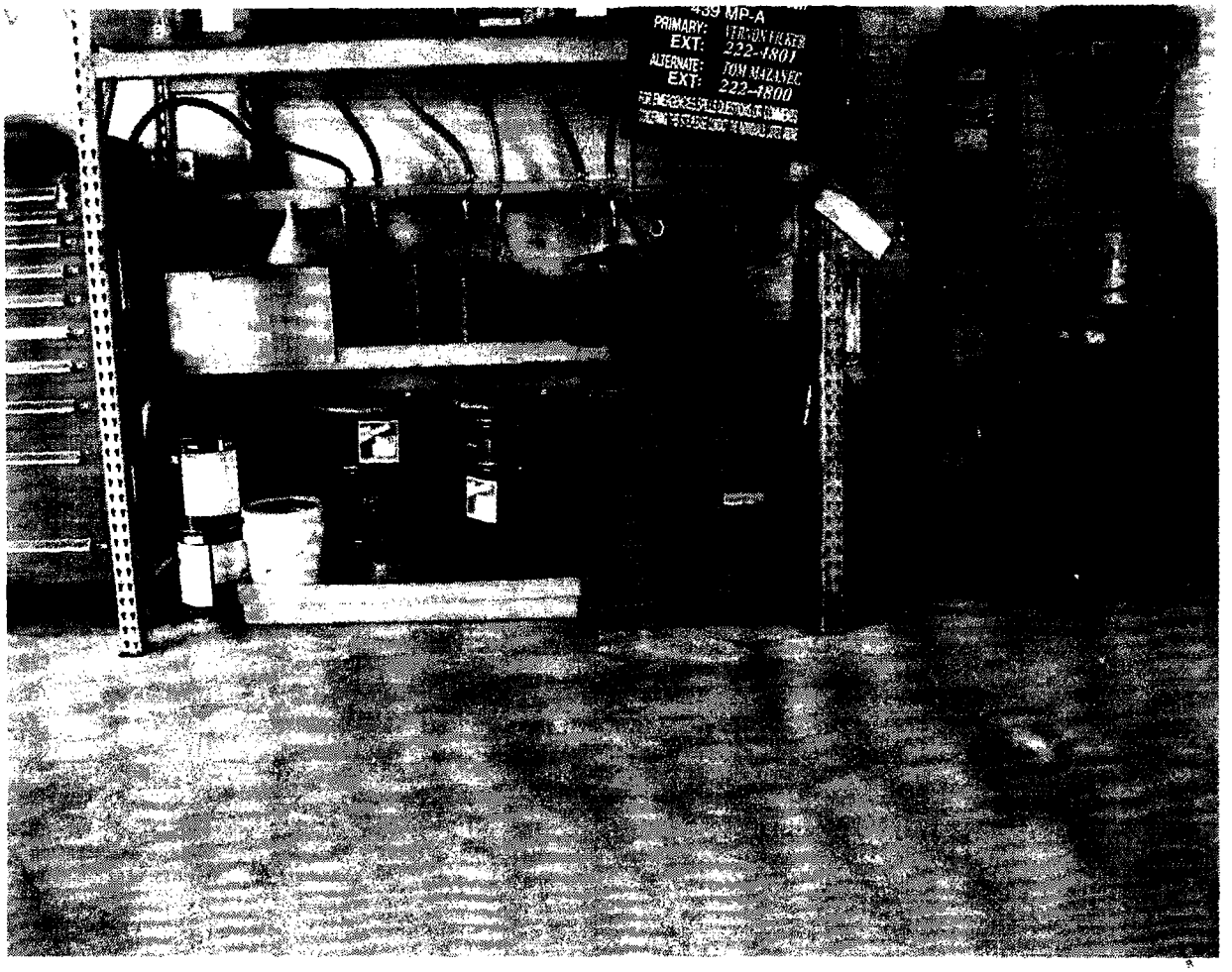


Photograph 2 Photo taken: 9/13/05 1:19 PM By: M. Valentino
Facility: Scott AFB Description: Bldg 3306, Bay #5, Corrosives

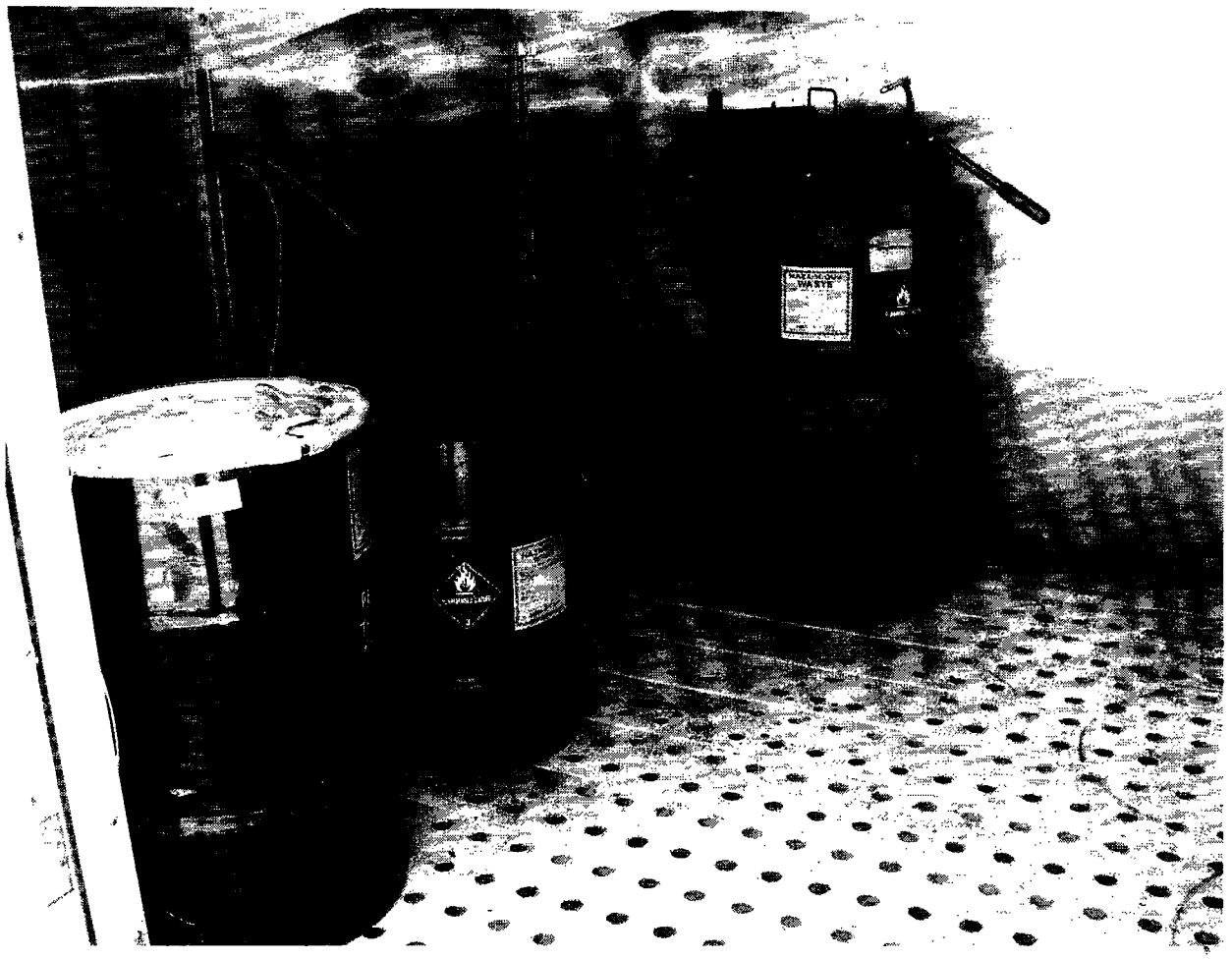


Photograph 3 **Photo taken: 9/13/05 1:21 PM** **By: M. Valentino**
Facility: Scott AFB Description: Bldg 3306, Bay #6

Photograph 4 Photo taken: 9/13/05 1:22 PM By: M. Valentino
Facility: Scott AFB Description: Bldg 3306, Bay #10, Ignitables



Photograph 5 Photo taken: 9/13/05 1:50 PM By: M. Valentino
Facility: Scott AFB Description: Bldg 5006, Site A SAP, 126th ARW



Photograph 6 Photo taken: 9/13/05 1:54 PM By: M. Valentino
Facility: Scott AFB Description: Bldg 5006, Site B SAP Trailer, 126th ARW

Photograph 7 Photo taken: 9/13/05 1:56 PM By: M. Valentino
Facility: Scott AFB Description: Bldg 5006, Site C SAP, 126th ARW

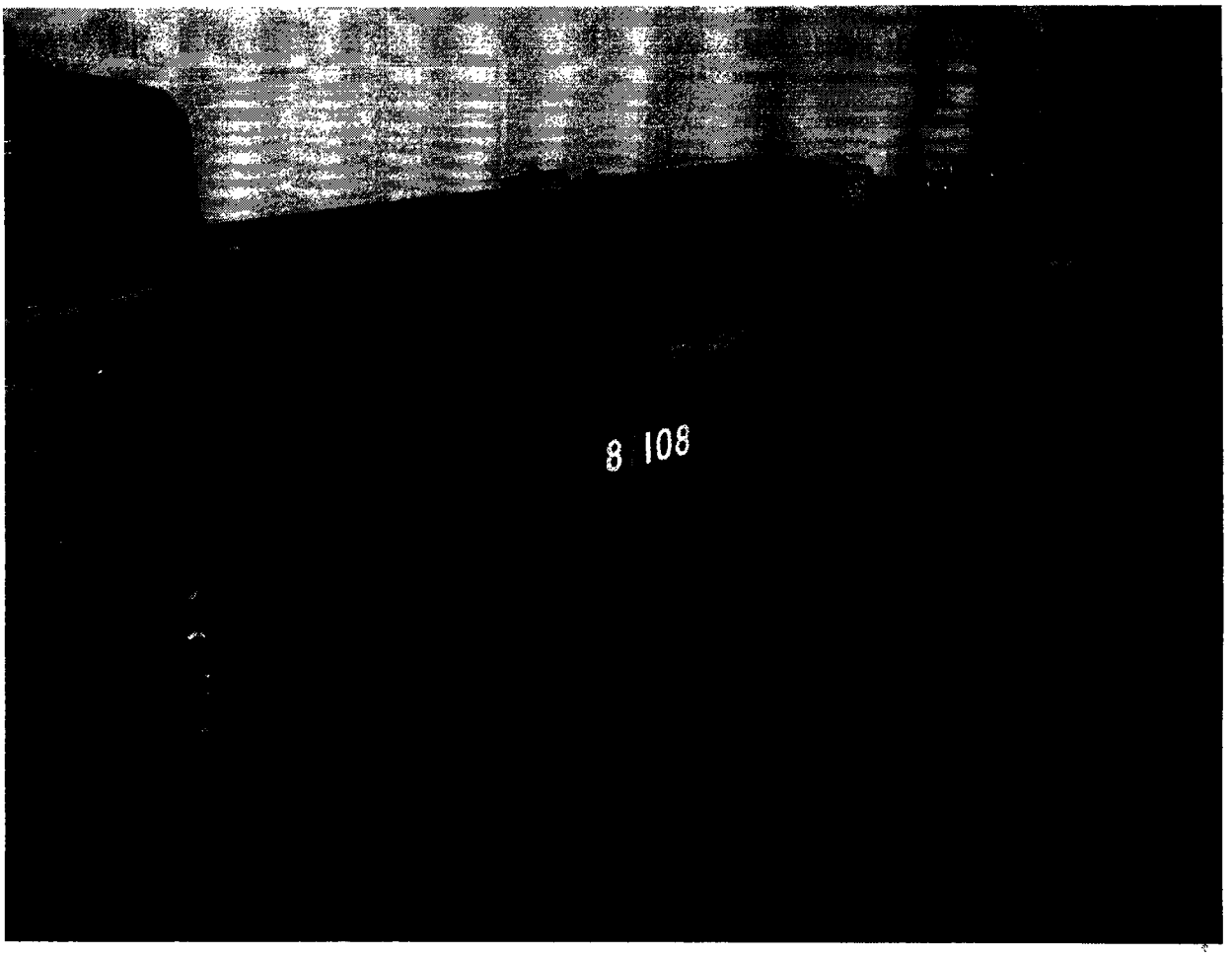
Photograph 8 **Photo taken: 9/13/05 1:56 PM** **By: M. Valentino**
Facility: Scott AFB Description: Bldg 5006, Site A SAP, 126th ARW

Photograph 9 Photo taken: 9/13/05 2:13 PM By: M. Valentino
Facility: Scott AFB Description: Hangar 5024, SAP, 126th ARW

Photograph 10 **Photo taken: 9/13/05 2:25 PM** **By: M. Valentino**
Facility: Scott AFB Description: Outside Hangar 5024, SAP trailer, 126th ARW

Photograph 11 **Photo taken: 9/13/05 3:28 PM** **By: M. Valentino**
Facility: Scott AFB Description: Bldg 548 Motor Pool, Paint Booth SAP, 375th AAW

Photograph 12 **Photo taken: 9/13/05 3:39 PM** **By: M. Valentino**
Facility: Scott AFB Description: Bldg 548 Motor Pool, Oil Filter Crusher, 375th AAW



Photograph 13 **Photo taken: 9/13/05 3:39 PM** **By: M. Valentino**
Facility: Scott AFB Description: Bldg 548 Motor Pool, Used Oil Tank, 375th AAW

Photograph 14 **Photo taken: 9/13/05 3:40 PM** **By: M. Valentino**
Facility: Scott AFB Description: Bldg 548 Motor Pool, Used Oil SAP, 375th AAW

Photograph 15 **Photo taken: 9/13/05 3:40 PM** **By: M. Valentino**
Facility: Scott AFB Description: Bldg 548 Motor Pool, Haz Waste drum, SAP, 375th AAW

9-13-05

Regulation	RCRA GENERATOR INSPECTION CHECKLIST (PART 722)	Violation
	PART 722: STANDARDS APPLICABLE TO GENERATORS OF HAZARDOUS WASTE (>1000 KG/MO.)	
	SUBPART A: GENERAL	
722.111	**Section 722.111 Hazardous Waste Determination** Has the generator correctly determined if the solid waste(s) it generates is a hazardous waste? Yes ✓ No ____ N/A ____ Have hazardous wastes been identified for purposes of compliance with Part 728? Yes ✓ No ____ N/A ____	722.111
808.121(a)	Has the generator correctly determined if the solid waste(s) it generates is a special waste? Yes ✓ No ____ N/A ____	808.121(a)
	Section 722.112 USEPA Identification Numbers	
722.112(a)	Has the generator obtained a USEPA identification number? Yes ✓ No ____ N/A ____	722.112(a)
722.112(c)	Has the generator offered its hazardous waste only to transporters or to treatment, storage or disposal facilities that have a USEPA identification number? Yes ✓ No ____ N/A ____	722.112(c)
	SUBPART B: THE MANIFEST	
	Section 722.120 General Requirements	
722.120(a)	Does the facility manifest its waste off-site? Yes ✓ No ____ N/A ____	722.120(a)
722.120(b)	Does the manifest designate a facility permitted to handle the waste? Yes ✓ No ____ N/A ____	722.120(b)
722.120(d)	Has the generator shipped any waste that could not be delivered to the designated facility? Yes ____ No ✓ N/A ____	722.120(d)
	Section 722.121 Acquisition of Manifests Has the generator used:	
722.121(a)	– an Illinois manifest for wastes designated to a facility within Illinois? Yes ✓ No ____ N/A ____	722.121(a)
722.121(b)	– a manifest from the State to which the manifest is designated? Yes ✓ No ____ N/A ____ – an Illinois manifest if the State to which the waste is designated has no manifest of its own? Yes ____ No ____ N/A ✓	722.121(b)
	Section 722.122 Number of Copies	
722.122	Does the manifest consist of at least 6 copies? Yes ✓ No ____ N/A ____	722.122
	Section 722.123 Use of the Manifest	
722.123(a)	For each manifest reviewed, has the generator: – signed the certificate by hand? Yes ✓ No ____ N/A ____ – obtained the handwritten signature and the date of acceptance by the initial transporter? Yes ✓ No ____ N/A ____ – retained one copy as required by Section 722.140(a)? Yes ✓ No ____ N/A ____ – apparently sent a copy (part 5 for the Illinois manifest) to the Agency within 2 working days? Yes ✓ No ____ N/A ____	722.123(a)
722.123(b)	– has the generator apparently given the remaining copies to the transporter? Yes ✓ No ____ N/A ____	722.123(b)
123(c)	– has the generator followed the procedures prescribed in Section 722.123 for manifesting bulk shipments of hazardous waste by rail or water? Yes ____ No ____ N/A ✓	722.123(c)

SCOTT AIR FORCE BASE
IL7 570 024 177

Regulation	RCRA GENERATOR INSPECTION CHECKLIST (PART 722)	Violation
	SUBPART C: PRE-TRANSPORT REQUIREMENTS	
	Is there any hazardous waste ready for transport off-site? Yes ✓ No ___ N/A ___	
	If so, is the generator complying with the pre-transport requirements in Subpart C? Yes ✓ No ___ N/A ___	
	Section 722.134 Accumulation Time	
722.134(a)	Has the generator complied with the following requirements: Yes ___ No ___ N/A ___	722.134(a)
722.134(a)(1)	A) For waste in containers, has the generator complied with the requirements of Part 725, Subpart I? Yes ✓ No ___ N/A ___	
	and/or	
	B) For waste in tanks, has the generator complied with the requirements of Part 725, Subpart J (except Sections 725.297(c) and 725.300)? Yes ___ No ___ N/A ✓	
	and/or	
	C) For waste on drip pads, has the generator complied with the requirements of Part 725, Subpart W and maintained the required records identified in this subsection? Yes ___ No ___ N/A ✓	
	and/or	
	D) For waste in containment buildings, has the generator complied with Part 725, Subpart DD and maintained the required records identified in this subsection? Yes ___ No ___ N/A ✓	
722.134(a)(2)	For waste in containers, has the generator marked and made visible for inspection on each container, the date upon which accumulation began? Yes ✓ No ___ N/A ___	
722.134(a)(3)	For waste in containers and tanks, has the generator marked or labeled each with the words "Hazardous Waste"? Yes ✓ No ___ N/A ___	
722.134(a)(4)	Has the generator complied with the requirements of Part 725, Subparts C and D, and Sections 725.116 and 728.107(a)(4)? Yes ✓ No ___ N/A ___	
	Specifically, the requirements of items 1 and/or 4 above (listed by regulation) which need to be complied with are as follows:	
	Does the facility accumulate hazardous waste in containers? Yes ___ No ___ N/A ___	
	If "No", go to Subpart J.	
	SUBPART I: USE AND MANAGEMENT OF CONTAINERS	
	Has the generator closed an accumulation area? Yes ✓ No ___ N/A ___	
(725.211) (725.214)	If "Yes", was the accumulation area closed in accordance with Sections 725.211 and 725.214? Yes ✓ No ___ N/A ___	
(725.271)	If the containers have leaked or are in poor condition, has the owner/operator transferred the hazardous waste to a suitable container? Yes ___ No ___ N/A ✓	
(725.272)	Is the waste compatible with the container and/or liner? Yes ✓ No ___ N/A ___	
(725.273a)	Are containers of hazardous waste always closed except to remove or add waste during accumulation? Yes ✓ No ___ N/A ___	
(725.273b)	Are containers of hazardous waste being opened, handled, or stored in a manner which will prevent the rupture of the container or prevent it from leaking? Yes ✓ No ___ N/A ___	

Regulation	RCRA GENERATOR INSPECTION CHECKLIST (PART 722)	Violation
(725.274)	Is the owner/operator inspecting the accumulation area(s) at least weekly, looking for leaks or deterioration? Yes ✓ No ____ N/A ____	
	Is the accumulation area free from any evidence of leaking or deteriorating containers? (See also Section 725.131) Yes ✓ No ____ N/A ____	
(725.276)	Are containers holding ignitable or reactive wastes located at least 15 meters (50 feet) from the facility's property line? Yes ✓ No ____ N/A ____	
	Note: See Section 725.117(a) for additional requirements for ignitable, reactive or incompatible wastes.	
(725.277)	Is the owner/operator complying with the requirements concerning incompatible wastes? Yes ✓ No ____ N/A ____	
	COMMENTS:	
	Does the generator accumulate and/or treat hazardous waste in tanks? Yes ____ No ✓ N/A ____	
	Note: If "No", go to Subpart C.	
	SUBPART J: TANK SYSTEMS No Tanks	
	Has the generator closed an accumulation area? Yes ____ No ____ N/A ____	
(725.211) (725.214)	If "Yes", was the accumulation area closed in accordance with Sections 725.211 and 725.214? Yes ____ No ____ N/A ____	
(725.290)	Does the facility accumulate or treat hazardous waste in tanks? Yes ____ No ____ N/A ____	
	Note: A generator may treat hazardous waste in a tank for less than 90 days without a RCRA permit.	
	If "No", skip Subpart J.	
	a) Tank systems that are used to accumulate or treat hazardous waste which contains no free liquids (using the Paint Filter Liquids Test) and that are situated inside a building with an impermeable floor are exempted from the requirements in Section 725.293. b) Tank systems, including sumps, that serve as part of a secondary containment system to collect or contain releases of hazardous wastes are exempted from the requirements in Section 725.293(a). c) Tanks, sumps and other collection devices used in conjunction with drip pads (as defined in Section 720.110) and regulated under Subpart W, must meet the requirements of this Subpart.	
(725.291a)	For tanks **existing** prior to July 14, 1986 (see definition of tank system under 720.110) and not protected by a secondary containment system, has a written assessment been reviewed and certified by an IRPE(*) in accordance with Section 702.126(d) by January 12, 1988 [except as provided in Section 725.291(c)]? Yes ____ No ____ N/A ____	
(725.291b)	Does this assessment consider at least the following: 1) design standards for the tank and ancillary equipment? Yes ____ No ____ N/A ____ 2) hazardous characteristics of the wastes? Yes ____ No ____ N/A ____ 3) existing corrosion protection measures? Yes ____ No ____ N/A ____ 4) documented age of the tank system? Yes ____ No ____ N/A ____ 5) results of a leak test, internal inspection, or other tank integrity examination? Yes ____ No ____ N/A ____	
	*IRPE = Independent Registered Professional Engineer	

Regulation	RCRA GENERATOR INSPECTION CHECKLIST (PART 722)	Violation
(725.291c)	Has a tank system assessment been performed within 12 months after the materials in the tank become a hazardous waste? Yes_____ No_____ N/A_____ **Note:** If an assessment indicates a tank system is leaking or unfit for use, the owner/operator must comply with the requirements of Section 725.291(b)(5).	
(725.292a)	For **new** tanks (see definition of new tanks under Section 720.110) whose installation commenced after 07/14/86, has a written assessment been reviewed and certified by an IRPE in accordance with Section 702.126(d) prior to operation of the tank system? Yes_____ No_____ N/A_____ Does the assessment include, at a minimum, the following: 1) design standards for tanks and ancillary equipment? Yes_____ No_____ N/A_____ 2) hazardous characteristics of the waste(s) to be handled? Yes_____ No_____ N/A_____ 3) evaluation of potential for corrosion and corrosion protection measures for tank systems with metal components in contact with soil or water? Yes_____ No_____ N/A_____ 4) design or operational measures that will protect underground tank systems from potential damage resulting from vehicular traffic? Yes_____ No_____ N/A_____ 5) designs to ensure adequate foundations, anchoring to prevent flotation or dislodgment and the ability to withstand the effects of frost heave? Yes_____ No_____ N/A_____	
(725.292g)	Has the owner/operator obtained and kept on file at the facility the written statements, including the certification statements [as required in Section 702.126(d)] of the design and installation requirements of Subsections (b) through (f)? Yes_____ No_____ N/A_____	
(725.293a)	Is secondary containment provided for any new tank system before being put into service? Yes_____ No_____ N/A_____ Does an existing tank, used to accumulate F020, F021, F022, F023, F026 or F027 waste(s), have secondary containment by 1/12/89? Yes_____ No_____ N/A_____ For an existing tank of documentable age, is secondary containment provided by 1/12/89 or when the tank is 15 years old, whichever is later? Yes_____ No_____ N/A_____ For an existing tank of undocumentable age, has secondary containment been provided by 1/12/95? Yes_____ No_____ N/A_____ or if the facility is older than 7 years, by the time the facility reaches 15 years of age or 1/12/89, whichever is later? Yes_____ No_____ N/A_____ For tanks that accumulate wastes that become hazardous after 1/12/87, has secondary containment been provided within the time intervals required in Subsections (a)(1) through (a)(4) substituting the date that a material becomes a hazardous waste for 1/12/87? Yes_____ No_____ N/A_____	
(725.293b)	Is the secondary containment system designed, installed and operated to prevent migration of wastes or accumulated liquid out of the system at any time? Yes_____ No_____ N/A_____ Is the secondary containment system capable of detecting and collecting releases and accumulated liquids until the collected material is removed? Yes_____ No_____ N/A_____	

Regulation	RCRA GENERATOR INSPECTION CHECKLIST (PART 722)	Violation
(725.293c)	To meet the requirements of Subsection (b), is the secondary containment system: 1) compatible with the waste(s) in the tank and of sufficient strength and thickness to prevent failure? Yes_____ No_____ N/A_____ 2) placed on a foundation or base capable of providing support, providing resistance to pressure gradients and preventing failure due to settlement, compression of uplift? Yes_____ No_____ N/A_____ 3) provided with a leak detection system designed and operated to detect any release or accumulated liquid within 24 hours? Yes_____ No_____ N/A_____ 4) sloped or otherwise designed or operated to drain and remove liquids resulting from leaks, spills or precipitation? Yes_____ No_____ N/A_____ and is spilled or leaked waste and accumulated precipitation removed from the secondary containment within 24 hours? Yes_____ No_____ N/A_____ **Note:** A RCRA permit may allow for removal of liquids less frequently than 24 hours after accumulation.	
(725.293d)	Does the secondary containment for tanks have one or more of the following: 1) a liner (external to the tank); or 2) a vault; or 3) a double-walled tank; or 4) an equivalent device (approved by the Board)? Yes_____ No_____ N/A_____	
(725.293e)	Does the external liner system(s), vault system(s) and/or double-walled tank(s) meet the additional requirements identified in Section 725.293(e)? Yes_____ No_____ N/A_____	
(725.293f)	Is ancillary equipment protected by secondary containment that meets the requirement of Subsection (h) and (c)? Yes_____ No_____ N/A_____ If "No": 1) Is aboveground piping (exclusive of flanges, joints, valves and connections) inspected daily? Yes_____ No_____ N/A_____ 2) Are welded flanges, joints and connections inspected daily? Yes_____ No_____ N/A_____ 3) Are sealless or magnetic coupling pumps and sealless valves inspected daily? Yes_____ No_____ N/A_____ 4) Are pressurized aboveground piping systems with automatic shut-off devices inspected daily? Yes_____ No_____ N/A_____	
(725.293i)	Until such time as secondary containment is provided, are the following requirements being met for all tank systems: 1) For non-enterable underground tanks, has an annual leak test that meets the requirements of 725.291(b)(5) been conducted? Yes_____ No_____ N/A_____ 2) For other than non-enterable underground tanks and ancillary equipment, has an annual leak test, internal inspection or other tank integrity examination by an IRPE been conducted? Yes_____ No_____ N/A_____ 3) Are written records maintained at the facility to document the assessments required under Subsections (i)(1) and (i)(2)? Yes_____ No_____ N/A_____ **Note:** If a tank system is found to be leaking or unfit for use as a result of a leak test or assessment, the owner/operator must comply with Section 725.296.	
(725.294a)	Has the owner/operator placed hazardous wastes or treatment reagents in the tank system that could cause the system to rupture, leak, corrode or otherwise fail? Yes_____ No_____ N/A_____	

Regulation	RCRA GENERATOR INSPECTION CHECKLIST (PART 722)	Violation
(725.294b)	Do tanks and secondary containment have appropriate controls and practices to prevent spills and overflows including: 1) spill prevention controls? Yes_____ No_____ N/A_____ 2) overfill prevention controls? Yes_____ No_____ N/A_____ 3) sufficient freeboard in uncovered tanks? Yes_____ No_____ N/A_____	
(725.294c)	**Note:** If a leak or spill has occurred in the tank system, the owner/operator shall comply with the requirements of Section 725.296.	
(725.295a)	Does the owner/operator inspect, if present, at least each operating day, the following: 1) overfill/spill control equipment? Yes_____ No_____ N/A_____ 2) the aboveground portion of the tank system for corrosion or releases? Yes_____ No_____ N/A_____ 3) data from monitoring equipment? Yes_____ No_____ N/A_____ 4) the construction materials and the area immediately surrounding the external portion of the system? Yes_____ No_____ N/A_____	
(725.295b)	If the tank system has cathodic protection, is the owner/operator complying with Section 725.295(b) to ensure that they are functioning properly? Yes_____ No_____ N/A_____	
(725.295c)	Does the owner/operator document in the operating record, the results of tank inspections as required in Section 725.295(a) and (b)? Yes_____ No_____ N/A_____	
(725.296)	If the tank system or secondary containment system has a leak or spill or is unfit for use, has the owner/operator: a) immediately ceased using; prevented flow or addition of waste and inspected the system to determine the cause of the release? Yes_____ No_____ N/A_____ b) removed applicable waste from the system within 24 hours of detection? Yes_____ No_____ N/A_____ c) immediately conducted a visual inspection of the release and taken actions to contain visible releases to the environment, prevented further migration to soils or surface water and removed and properly disposed of any contaminated soil or water? Yes_____ No_____ N/A_____	
(725.296d)	d) notified the Agency within 24 hours of detection of release? Yes_____ No_____ N/A_____ d)3) within 30 days of detection of release, submitted a report to the Agency that complies with the requirements of Section 725.296(d)(3)? Yes_____ No_____ N/A_____ **Note:** Notification and reports are not necessary if less than 1 pound of material is spilled and it was immediately contained and cleaned up.	
(725.296e)	e) repaired the tank system prior to returning the tank system to service in the event that a leak has occurred from the primary tank system into the secondary containment system? Yes_____ No_____ N/A_____ e)4) provided secondary containment before returning a tank system to service in the event that the release was from a component of a tank system without secondary containment? Yes_____ No_____ N/A_____ e)4) met the requirements for a new tank system in the event that a component is replaced during repair? Yes_____ No_____ N/A_____ e)4) provided the entire component with secondary containment prior to being returned to use in the event that a leak has occurred in any portion of a component that is not readily accessible for visual inspection? Yes_____ No_____ N/A_____	

Regulation	RCRA GENERATOR INSPECTION CHECKLIST (PART 722)	Violation
(725.296f)	f) In the event that an extensive repair has been conducted in accordance with subsection (e), submitted to the Agency within 7 days after returning the tank system to use, a certification by an IRPE stating that the repaired system is capable of handling hazardous wastes without release for the intended life of the system? Yes_____ No_____ N/A_____ **Note:** If the owner/operator does not satisfy the requirements of subsections (e)(2) through (e)(4), the tank system must be closed in accordance with Section 725.297.	
(725.297a)	At the time of closure of a tank system, has the owner/operator removed or decontaminated all waste residues, contaminated components, contaminated soils and structures and equipment and managed them as hazardous waste [unless Section 721.103(d) applies]? Yes_____ No_____ N/A_____	
(725.297a)	Have the closure plan, closure activities, cost estimates for closure and financial responsibility for tank systems met all requirements specified in Subparts G and H? Yes_____ No_____ N/A_____	
(725.297b)	If the tank system cannot be "clean" closed, has the owner/operator closed the tank system and performed post-closure care in accordance with the closure and post-closure care requirements that apply to landfills (Section 725.410)? Yes_____ No_____ N/A_____ **Note:** Such a tank system is considered a landfill and must meet all of the requirements of landfills specified in Subparts G and H.	
(725.298a)	Are ignitable or reactive wastes placed in a tank system? Yes_____ No_____ N/A_____ If "No", skip to Section 725.299. Is the waste treated, rendered or mixed before or immediately after placement in the tank system so that: – the resulting waste, mixture or dissolved material is no longer ignitable or reactive? Yes_____ No_____ N/A_____ – Section 725.117(b) is complied with? Yes_____ No_____ N/A_____ or Is the waste accumulated or treated so that it is protected from any material or conditions which may lead to ignition or reaction? Yes_____ No_____ N/A_____ or Is the tank used solely for emergencies? Yes_____ No_____ N/A_____	
(725.298b)	Is the facility complying with the requirements regarding maintenance of protective distances between the waste management area and any public ways, streets, alleys or any adjoining property line? Yes_____ No_____ N/A_____	
(725.299)	Are incompatible wastes/materials placed in the same tank? Yes_____ No_____ N/A_____ If "No", skip to Section 725.300. Is Section 725.117(b) being complied with? Yes_____ No_____ N/A_____ Has the tank system been properly decontaminated if it previously held an incompatible waste/material unless Section 725.117(b) is complied with? Yes_____ No_____ N/A_____ COMMENTS:	

Regulation	RCRA GENERATOR INSPECTION CHECKLIST (PART 722)	Violation
	SUBPART C: PREPAREDNESS AND PREVENTION	
(725.131)	Is the facility being operated and maintained to minimize the possibility of a fire, explosion or any release of hazardous waste or hazardous waste constituents which could threaten human health or the environment? Yes ✓ No ____ N/A ____	
(725.132)	Is the facility equipped with the following, if necessary: a) an internal communication or alarm system(s)? Yes ✓ No ____ N/A ____ b) a telephone or other device to summon emergency assistance from local authorities? Yes ✓ No ____ N/A ____ c) portable fire extinguishers, fire control equipment, spill control equipment and decontamination equipment? Yes ✓ No ____ N/A ____ d) water at adequate volume and pressure for fire control? Yes ✓ No ____ N/A ____	
(725.133)	Is the facility testing and maintaining communication/alarm system(s), fire protection equipment, spill control equipment and decontamination equipment? Yes ✓ No ____ N/A ____	
(725.134)	a) Where hazardous waste is being handled, do all employees have immediate access to an internal alarm or other emergency communication device? Yes ✓ No ____ N/A ____ b) If there is ever just one employee on the premises when the facility is operating, does he/she have immediate access to a device capable of summoning external emergency assistance? Yes ____ No ✓ N/A ____	
(725.135)	Is the facility maintaining adequate aisle space? Yes ✓ No ____ N/A ____	
(725.137)	Has the facility attempted to make the following arrangements, as appropriate, for the type of facility and waste: – arrangements with local emergency authorities (i.e. police and fire departments, other emergency response agencies) to familiarize them with the layout of the facility, properties of hazardous waste handled, places where facility personnel would be working, entrances to roads inside the facility and evacuation routes? Yes ✓ No ____ N/A ____ – agreements designating the primary authority where more than one police or fire department might respond? Yes ✓ No ____ N/A ____ – agreements with State emergency response teams, contractors and equipment suppliers? Yes ✓ No ____ N/A ____ – arrangements to familiarize local hospitals with the properties of hazardous waste handled at the facility and the type of injuries or illnesses which could result from fires, explosions or releases at the facility? Yes ✓ No ____ N/A ____	on-base fire and security for response; on-base hospital
	SUBPART D: CONTINGENCY PLAN AND EMERGENCY PROCEDURES	
(725.151a)	Is the contingency plan available? Yes ✓ No ____ N/A ____ If "No", skip to Section 725.155. Is the plan designed to protect human health and the environment from releases to the air, soil and water? Yes ____ No ____ N/A ____	
(725.151b)	Has there been a fire, explosion or release of hazardous waste? Yes ____ No ✓ N/A ____ If "Yes", has the contingency plan been carried out immediately? Yes ____ No ____ N/A ✓	
(725.152a)	Does the plan describe the actions required for response to: – fires? Yes ✓ No ____ N/A ____ – explosions? Yes ✓ No ____ N/A ____ – releases? Yes ✓ No ____ N/A ____	

Regulation	RCRA GENERATOR INSPECTION CHECKLIST (PART 722)	Violation
(725.152c)	Does the plan describe arrangements with: – police and fire departments? Yes ✓ No ___ N/A ___ – hospitals? Yes ✓ No ___ N/A ___ – contractors? Yes ✓ No ___ N/A ___ – emergency response teams? Yes ✓ No ___ N/A ___	
(725.152d)	Does the plan contain the current emergency coordinator's name, phone (office and home) and address? Yes ✓ No ___ N/A ___	EC = base security
(725.152e)	Does the plan identify all emergency equipment including: – description? Yes ✓ No ___ N/A ___ – capability? Yes ✓ No ___ N/A ___ – location? Yes ✓ No ___ N/A ___ Is the list of emergency equipment up-to-date? Yes ✓ No ___ N/A ___	
(725.152f)	Does the plan include: – an evacuation plan? Yes ✓ No ___ N/A ___ – an evacuation signal? Yes ✓ No ___ N/A ___ – alternate evacuation routes? Yes ✓ No ___ N/A ___	
(725.153)	Has the contingency plan (including all revisions) been: a) maintained at the facility? Yes ✓ No ___ N/A ___ b) submitted to: – police department? Yes ✓ No ___ N/A ___ – fire department? Yes ✓ No ___ N/A ___ – hospital? Yes ✓ No ___ N/A ___ – emergency response teams? Yes ___ No ___ N/A ___	
(725.154)	Has the contingency plan been reviewed and revised whenever: a) regulations are revised? Yes ___ No ___ N/A ___ b) the plan fails in an emergency? Yes ___ No ___ N/A ___ c) the facility changes in a way that modifies the emergency response necessary? Yes ___ No ___ N/A ___ d) information regarding emergency coordinators changes? Yes ___ No ___ N/A ___ e) information regarding equipment changes? Yes ___ No ___ N/A ___	
(725.155)	Is the emergency coordinator on-site or on call at all times? Yes ✓ No ___ N/A ___ Is the emergency coordinator familiar with all facility activities, wastes, records, layout and contingency plan? Yes ✓ No ___ N/A ___ Does the emergency coordinator have the authority to commit the resources needed to carry out the actions specified in the contingency plan? Yes ✓ No ___ N/A ___	
(725.156)	If the facility has had a release, fire or explosion, have the procedures of this Section been followed regarding assessment, response and reporting? Yes ___ No ___ N/A ✓ **Note:** If the facility has had a release, explain in detail.	

Regulation	RCRA GENERATOR INSPECTION CHECKLIST (PART 722)	Violation
(725.116a)	**Section 725.116 Personnel Training** Does the facility have a training program? Yes ✓ No____ N/A____ Have facility personnel successfully completed a program of classroom or on-the-job training that teaches them to perform their duties in a way that ensures the facility's compliance with the requirements of Part 725? Yes ✓ No____ N/A____ Is the program directed by a person trained in hazardous waste management procedures? Yes ✓ No____ N/A____ Does the program teach facility personnel hazardous waste management procedures (including contingency plan implementation) relevant to the positions in which they are employed? Yes ✓ No____ N/A____ Does the program cover, at a minimum: – procedures to familiarize facility personnel with emergency procedures, emergency equipment and emergency systems? Yes ✓ No____ N/A____ – procedures for using, inspecting, repairing and replacing facility emergency and monitoring equipment? Yes ✓ No____ N/A____ – key parameters for automatic waste feed cut-off systems? Yes____ No____ N/A____ – communications or alarm systems? Yes____ No____ N/A____ – response to fire or explosions? Yes____ No____ N/A____ – response to groundwater contamination incidents? Yes____ No____ N/A____ – shutdown of operations? Yes____ No____ N/A____	
(725.116b)	Have new employees completed the program within 6 months of the date of employment or assignment to a position requiring them to manage hazardous waste? Yes____ No____ N/A____	
(725.116c)	Have facility personnel received an annual review of the initial training? Yes ✓ No____ N/A____	
(725.116d)	Are the following documents and records being maintained at the facility: 1) the job title for each position related to hazardous waste management and the name(s) of the employee(s) filling each job? Yes____ No____ N/A____ 2) a written job description for each position above, including the requisite skill, education or other qualifications and duties of personnel assigned to each position? Yes____ No____ N/A____ 3) a written description of the type and amount of both initial and continuing training that will be given to each person filling a position dealing with hazardous waste management? Yes____ No____ N/A____ 4) records documenting that the training or job experience has been given to and completed by facility personnel? Yes ✓ No____ N/A____	
(725.116e)	Is the facility maintaining training records until closure of the facility and those of former employees for at least 3 years from the last date of employment? Yes ✓ No____ N/A____	

Regulation	RCRA GENERATOR INSPECTION CHECKLIST (PART 722)	Violation
(728.107a4)	**Section 728.107 Waste Analysis and Recordkeeping** Has the generator who treats a prohibited waste in tanks or containers in order to meet the treatment standards developed and followed a waste analysis plan? Yes_____ No_____ N/A_✓_ Is the plan on-site? Yes_____ No_____ N/A_✓_ Does the plan include a detailed physical and chemical analysis? Yes_____ No_____ N/A_✓_ Has the plan been filed with the Agency at least 30 days prior to commencement of treatment activity? Yes_____ No_____ N/A_✓_ Has the generator submitted the required notification and certification that the waste meets treatment standards when the waste is shipped off-site? Yes_____ No_____ N/A_✓_	no treatment
722.134(c)	**Section 722.134 Satellite Accumulation** Is the generator who accumulates hazardous waste at or near any point of generation where wastes initially accumulate and which is under the control of the operator of the process generating the waste722.134(c) limiting such accumulation to 55 gallons of hazardous waste or 1 quart of acutely hazardous waste marking the containers with the words "Hazardous Waste" or other words identifying the contents? Yes_✓_ No_____ N/A_____ Has the generator who accumulates more than 55 gallons of hazardous waste or 1 quart of acutely hazardous waste complied with the requirements of Section 722.134(a) within 3 working days? Yes_✓_ No_____ N/A_____ If there are more than 55 gallons of hazardous waste or 1 quart of **acutely** hazardous waste in the satellite accumulation area, are the containers marked with the date accumulation began? Yes_✓_ No_____ N/A_____ During the 3 day period, is the generator continuing to comply with the requirements of Section 722.134(c)(1) with respect to the excess waste? Yes_✓_ No_____ N/A_____	722.134(c)
	SUBPART D: RECORDKEEPING AND REPORTING	
722.140(a)	**Section 722.140 Recordkeeping** Has the generator retained for a period of 3 years: – a copy of each signed manifest? Yes_✓_ No_____ N/A_____	722.140(a)
722.140(b)	Has the generator retained a copy of each Annual Report and Exception Report for a period of at least three years from the due date of the report (March 1)? Yes_✓_ No_____ N/A_____	722.140(b)
722.140(c)	Has the generator retained for a period of 3 years: – copies of test results, waste analyses or other determinations made in accordance with Section 722.111? Yes_✓_ No_____ N/A_____	722.140(c)
722.140(d)	Does a generator who is involved in any unresolved enforcement action or as requested by the Director continue to maintain the records required in subsections a) and c)? Yes_____ No_____ N/A_✓_	722.140(d)
722.141(a)	**Section 722.141 Annual Reporting** Has the generator who ships hazardous waste off-site for treatment, storage or disposal filed an annual report with the Agency by March 1 for the preceding calendar year? Yes_✓_ No_____ N/A_____ **Note:** If "No", or if deficiencies are noted with the annual report reviewed, contact the Planning and Reporting Section.	722.141(a)
722.141(b)	Has the generator who treats, stores or disposes of hazardous waste on-site, filed an annual report with the Agency by March 1 for the preceding calendar year? Yes_✓_ No_____ N/A_____	722.141(b)

Regulation	RCRA GENERATOR INSPECTION CHECKLIST (PART 722)	Violation
	Section 722.142 Exception Reporting	
722.142(a)(1)	If the generator has not received a copy of the manifest from the TSD facility within 35 days of the date of delivery to the transporter, has the generator contacted the transporter or the TSD facility to determine the status of the hazardous waste? Yes ✓ No_____ N/A_____	722.142(a)(
722.142(a)(2)	If the generator has not received a copy of the signed manifest within 45 days of the date of delivery to the transporter, has he filed an exception report with the Agency in accordance with the requirements of this Section? Yes_____ No_____ N/A ✓	722.142(a)(2)
	Section 722.143 Additional Reporting	
722.143	Has the generator furnished additional reports as required by the Director? Yes_____ No_____ N/A_____	722.143
	SUBPART E: EXPORTS OF HAZARDOUS WASTE	
	Is the generator an exporter of hazardous waste? Yes_____ No_____ N/A ✓ If "Yes", has the generator complied with the requirements of Subpart E? Yes_____ No_____ N/A ✓	
	SUBPART F: IMPORTS OF HAZARDOUS WASTE	
	Is the generator an importer of hazardous waste? Yes_____ No_____ N/A ✓ If "Yes", has the generator complied with the requirements of Subpart F? Yes_____ No_____ N/A ✓	
	SUBPART G: FARMERS	
	Is the generator a farmer? Yes_____ No_____ N/A ✓ equirements of Subpart G? Yes_____ No_____ N/A ✓	

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77 W. Jackson Blvd
Chicago, IL 60604
Attn: Michael Valentino DE-9J

Waste, Pesticides and Toxics Division

Type of Document:
- ☐ Notice of Violation and Inspection Report/Checklist
- ☑ No Violation Letter and Inspection Report/Checklist
- ☐ Letter of Acknowledgment
- ☐ Information Request
- ☐ Pre-Filing and Opportunity to Confer
- ☐ State Notification of Enforcement Action

Facility Name : Scott Air Force Base

Facility Location: 101 Heritage Dr.

City: Scott AFB **State:** IL

U.S. EPA ID# ILT 570 024 177

Assigned Staff M. Valentino **Phone:** 886-4582

Name	Signature	Date
Author	Michael Valentino	10-19-05
Regional Counsel		
Section Chief	Lorna M. Jaeger	10/25/05
Branch Chief		

Directions/Request for Clerical Support:

After the Section Chief/Branch Chief signs this sheet and original letter:

1. Date stamp the cover letter;
2. Make four copies of the contents of this folder:
   - One copy for the assigned staff;
   - One copy for the section file;
   - One copy for the branch file; and
   - One copy for the official file.
3. Make any additional copies for cc's or bcc's.
4. Mail the original certified mail and distribute office copies and cc's and bcc's.

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5. File the certified mail receipt (green card), with this sign-off sheet and the official file copy, and take to 7th floor RCRA file room;
6. E-mail staff the date that the letter was received by facility.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590

21 MAR 2005

REPLY TO THE ATTENTION OF:

DE-9J

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Raymond J. Rottman, Col, USAF
375th Airlift Wing/CC
101 Heritage Drive, Suite 375
Scott AFB, Illinois 62225

Kevin E. Jacobs, Major
Environmental Manager
Illinois Air National Guard
126th Air Refueling Wing
146 Air Guard Way
Scott AFB, Illinois 62225

Re: Compliance Evaluation Inspection
EPA I.D. No.: IL7 570 024 177

Dear Col Rottman and Major Jacobs:

On September 2, 2004, representatives of the United States Environmental Protection Agency (U.S. EPA), and the Illinois Environmental Protection Agency (IEPA) inspected the U.S. Air Force Scott Air Force Base (Scott AFB) located in St. Clair County, near Belleville, Illinois. The purpose of the inspection was to evaluate Scott AFB's compliance with the Standards Applicable to Generators of Hazardous Waste, Standards for Land Disposal Restrictions, and Management of Used Oil set forth at 35 Illinois Administrative Code (IAC), Title 35: Environmental Protection, Subtitle G: Waste Disposal, Chapter I: Pollution Control Board, and Title 40 of Code of Federal Regulations (40 CFR) Parts 262 to 265, 268 and 279, respectively. Enclosed please find a copy of our inspection report.

Based on the U.S. EPA's September 2, 2004 inspection, it appears that Scott AFB is in compliance. U.S. EPA's review of the inspection findings has not resulted in the detection of violations of any of the specific requirements under evaluation. This determination does not limit the applicability of the requirements evaluated, other hazardous waste regulations, or regulations under other environmental statutes. U.S. EPA and the IEPA will continue to evaluate your facility in the future.

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If you have any questions regarding this matter, feel free to contact Mr. Valentino, of my staff, at (312) 886-4582.

Sincerely,

Lorna M. Jereza, P.E., Chief
Compliance Section 1
Enforcement and Compliance Assurance Branch
Waste, Pesticides and Toxics Division

Enclosure (1)

cc: Todd Marvel, Illinois EPA, (w/ encl.)
Lt. Col Stephen E. Shea, USAF, 375th CES/CC, (w/ encl.)
John W. Patterson, Environmental Flight Chief, 375th CES/CEV, (w/ encl.)
Andy Rodriguez, Environmental Compliance Officer, Scott AFB, (w/ encl.)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 W. JACKSON BOULEVARD
CHICAGO, IL 60604

COMPLIANCE EVALUATION INSPECTION REPORT

INSTALLATION NAME:	U.S. Air Force Scott Air Force Base
EPA ID No.:	IL7 570 024 177
LOCATION ADDRESS:	375th Air Wing 701 Hangar Road Scott AFB, Illinois 62225
NAICS CODE:	928110 (National Security)
DATE OF INSPECTION:	September 2, 2004
EPA INSPECTOR:	Michael Valentino

PREPARED BY: Michael Valentino 3-18-05

Michael Valentino, Environmental Engineer — Date

REVIEWED BY: Lorna M. Jereza 3/21/05

Lorna M. Jereza, P.E., Chief — Date
Compliance Section 1
Enforcement and Compliance Assurance Branch

Purpose of Inspection:

The purpose of the inspection was to conduct a Compliance Evaluation Inspection (CEI) at U.S. Air Force Scott Air Force Base (Scott AFB) for management of its hazardous waste regulated under the Resource Conservation and Recovery Act (RCRA). The CEI sought to evaluate the installation's compliance with certain requirements of RCRA, specifically the Standards Applicable to Generators of Hazardous Waste set forth at 35 I.A.C. Part 722 through 725 [40 Code of Federal Regulations (CFR) §§ 262 — 265], and the Standards for the Management of Used Oil set forth at 35 I.A.C. Part 739 [40 CFR § 279]. On September 2, 2004, the United States Environmental Protection Agency (U.S. EPA) and the Illinois Environmental Protection Agency conducted a joint CEI at Scott AFB.

Participants:

On the date of the inspection, Scott AFB was represented by Andy Rodriguez, Environmental Compliance Chief; Vtesh Chellappa, Hazardous Waste Manager; Paul Schmidtt, Flight Chief; Kevin Emerson, Pacific Environmental Services (Hazardous Waste Contractor); and Major Kevin E. Jacobs, Air National Guard, 126th Air Refueling Wing. The U.S. EPA Region 5 inspector assigned to this installation and who conducted the CEI was Michael Valentino of Compliance Section 1, ECAB, WPTD. Michael Grant, of the Illinois Environmental Protection Agency, Bureau of Land, Collinsville Regional Office, conducted the inspection in conjunction with U.S. EPA Region 5.

Installation Description:

Scott AFB is located about 25 miles east of St. Louis, Missouri, in St. Clair County, southeast of Collinsville, Illinois and northeast of Belleville, Illinois. Scott AFB is an Air Mobility Command base which serves as host base for the 375th Aeromedical Airlift Wing and the Illinois National Guard 126th Air Refueling Wing. Scott AFB has many facilities on base which store or transfer gasoline, diesel and aviation fuel (JP-8), as well as many operations which generate a variety of non-hazardous (*e.g.*, used oil, oil absorbent pads, used oily rags, anti-freeze) and hazardous waste streams (*e.g.*, spent paints and solvents, waste fuels, waste petroleum naphtha from parts washers, spent aerosol cans, paint filters, photo development solutions, and waste corrosives). Scott AFB also manages fluorescent bulbs and various batteries (Pb-acid, Ni-Cd, Li). In all, the 375th Air Wing manages 22 satellite accumulation areas (SAAs), or satellite accumulation points (SAPs) base-wide. The 126th Air Wing manages 25 SAPs. Scott AFB also houses one 90-day hazardous waste accumulation building — designated as Bldg 3306.

Scott AFB is regulated as a large quantity generator (LQG) of hazardous waste. Scott AFB initially filed a RCRA Part A application with U.S. EPA on November 19, 1980. Scott AFB subsequently filed two Part B permit applications for hazardous waste storage, one in 1988, the other in 1990. Scott AFB withdrew its Part B application in 1990, and presently operates solely as an LQG.

The 90-day hazardous waste accumulation building is managed by Pacific Environmental Services, a civilian contractor to the U.S. Air Force. Waste streams generated at the 47 SAAs are transferred to Bldg 3306 by Pacific Environmental Services. Hazardous waste streams are processed through the DRMO[1] prior to their transport to an appropriate permitted hazardous waste treatment, storage or disposal facility (TSDF).

Inspection and Observations:

I coordinated scheduling of the CEI with Inspector Grant prior to the site visit. We prearranged with Mr. Chellappa to meet inside the base on the morning of September 2, 2004. After we rendezvoused, Mr. Chellappa led us to the engineering offices of the 375th Air Wing. There we met with Mr. Rodriguez and Mr. Emerson in a conference room at approximately 8:45 am.

Mr. Emerson said that all waste on the base is processed through the DRMO, picked up by him, and brought to the centralized hazardous waste accumulation area (Bldg 3306), where he arranges for off-site transport to the appropriate TSDF.

I was told that the 375th Air Wing consists of a Maintenance Squadron, Transportation Squadron and Civil Engineering Unit. The Transportation Squadron generates used oil which is picked up by Safety-Kleen.

Fluorescent light bulbs are sent to Earth Protection Services, Inc. in Houston, Texas. Pb-acid batteries are sent to Bell City in nearby Belleville. Ni-Cd and Li batteries are sent to the Recycling Battery Corporation of America.

Inspector Grant and I conducted a review of Scott AFB's records. Messrs. Rodriguez, Emerson and Chellappa were cooperative in answering questions we had. Inspector Grant and I reviewed, in detail, each manifest for the previous twelve-month period. We also performed a cursory review of manifests for the two prior years. Of all the manifests we reviewed, the only discrepancy noted was that one manifest, which was signed by Scott AFB and dated 7/23/04[2], did not appear to have the signed copy from the receiving TSDF.[3]

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[1]Defense Re-utilization and Marketing Office.

[2]Illinois manifest number IL 10644725.

[3]This was resolved on September 21, 2004, when Mr. Chellappa faxed and e-mailed to the author a copy of this manifest which showed receipt by the TSDF on 7/23/04.

I reviewed Scott AFB's contingency plan[4]. I found the plan contained all the necessary elements required by the State and Federal regulations. Scott AFB has its own fire department, security department and on-base hospital. The plan is with each of these entities. Arrangements are in place for each of these entities to respond in the event of an emergency at Scott AFB involving hazardous waste.

Personnel training records were reviewed by Inspector Grand and myself at the various buildings and hazardous waste accumulation points visited during the installation walk-through. I observed that the 375th Air Wing generally kept current year documentation that personnel had been trained, but the records were not consistent with respect to previous years. This appeared to be more a filing issue than matter of failure to train, as the SAPs and hazardous waste management practices observed were found to be in good order (see comments below).

The installation walk-through commenced shortly after 11:15 am. We first visited Bldg 3306, a state-of-the-art facility which serves as Scott AFB's sole 90-day hazardous waste accumulation area. The building is fully equipped with an overhead sprinkler system; has an impermeable and sealed concrete floor; includes 10 separated accumulation bays which allows for optimal waste segregation; is equipped with eyewash stations, emergency shower, adequate spill response kits, and hand-held fire extinguishers which are readily observable and accessible. Each bay is enclosed on three sides, with the walls consisting of approximately 5 ft of cinder block atop a 6" concrete berm. Bay #5 is dedicated to storage of corrosive hazardous waste; Bay #8 to reactive wastes; and Bay #10 to flammable hazardous wastes.

I observed all the containers in the 90-day hazardous waste accumulation area building to be in good condition, compatible with the contents of the container, properly labeled (contents, hazardous waste numbers, dates), and closed, with no evidence of spillage throughout the building. I photo-documented waste inventory and emergency equipment at Bldg 3306 in the installation photo log. (See Attachment No. 1, Photos #1 through #13.)

Weekly inspection logs are kept in a file drawer by Mr. Emerson, whose office is in Bldg 3306. I reviewed them and found them to be in good order. Mr. Emerson keeps track of waste inventory on a spreadsheet which also tracks 30-day, 60-day and 90-day flags for each container which comes into the centralized waste accumulation area. This serves as an added measure to ensure the 90-day limit is not exceeded. Scott AFB also maintains a separate contingency plan for Bldg 3306. One is kept in the building. I reviewed its contents and found it to have the required elements pursuant to the RCRA regulations at 40 CFR § 265.52. Mr. Emerson showed me his hazardous waste training certifications, which are also kept in a file drawer in Bldg 3306.

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[4]A comprehensive base-wide plan that encompassed more than the RCRA requirements set forth at 40 CFR § 265.52, and which was entitled, "Hazardous Material Emergency Planning and Response Plan" (October 2002).

The balance of the morning was spent touring SAPs throughout the 375th Air Wing. I photo-documented these satellite locations. (See Attachment No. 1, Photos #14 through #19.) Each of the SAP containers were found to be in good condition, properly labeled, closed and free of any sign of spillage. The 375th Air Wing provides secondary containment for used oil and hazardous waste containers, as well as ensures its inventory is well-maintained by employing weekly inspections at each SAP. Overall waste management at the SAPs is excellent.

After we broke for lunch, the installation walk-through moved to the 146th Air Wing. We met with Major Kevin E. Jacobs of the Illinois Air National Guard. With Major Jacobs leading the way, we toured the SAPs managed in this area of the base. I photo-documented these SAPs, as well. (See Attachment No. 1, Photos #20 through #30.) All SAPs were provided with secondary containment — and in some cases, tertiary containment. Each container was in good condition, properly labeled, closed and with no evidence of waste spillage. As with the 375th Air Wing, the 146th Air Wing conducts weekly inspection of its SAPs.

After touring the SAPs, we returned to the 146th Air Wing office area. Major Jacobs showed me where personnel training records are kept. I found them to be in good order. I found overall management of hazardous and non-hazardous waste streams and record keeping by the 146th Air Wing to be exemplary.

Shortly after 3:15 pm, Inspector Grant and I returned with Scott AFB personnel (Messrs. Rodriguez, Emerson and Chellappa) to the 375th Air Wing conference area. Inspector Grant and I discussed our observations throughout the course of the day. The exit interview concluded at approximately 4:00 pm. I was driven to my vehicle and exited the base shortly thereafter.

Attachments:

1. Photo Log
2. Checklist

ATTACHMENT NO. 1
PHOTO LOG

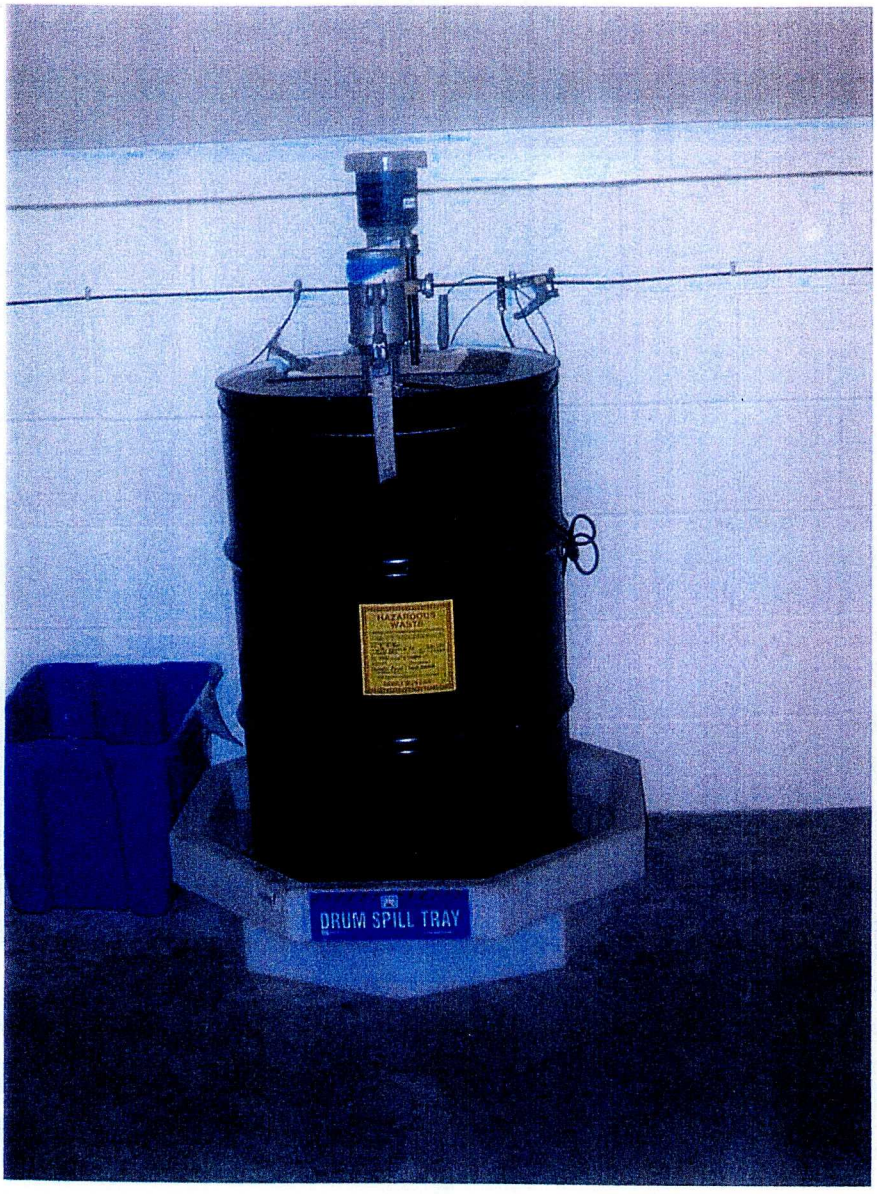

Photo No.: 1	Date/Time: 9/2/04 11:20 am	Site: Scott AFB
By: M. Valentino	Orientation: S	Description: 55-gal aerosol can SAA drum in 90-Day HW Area. Spill tray provides secondary containment. Container is grounded.

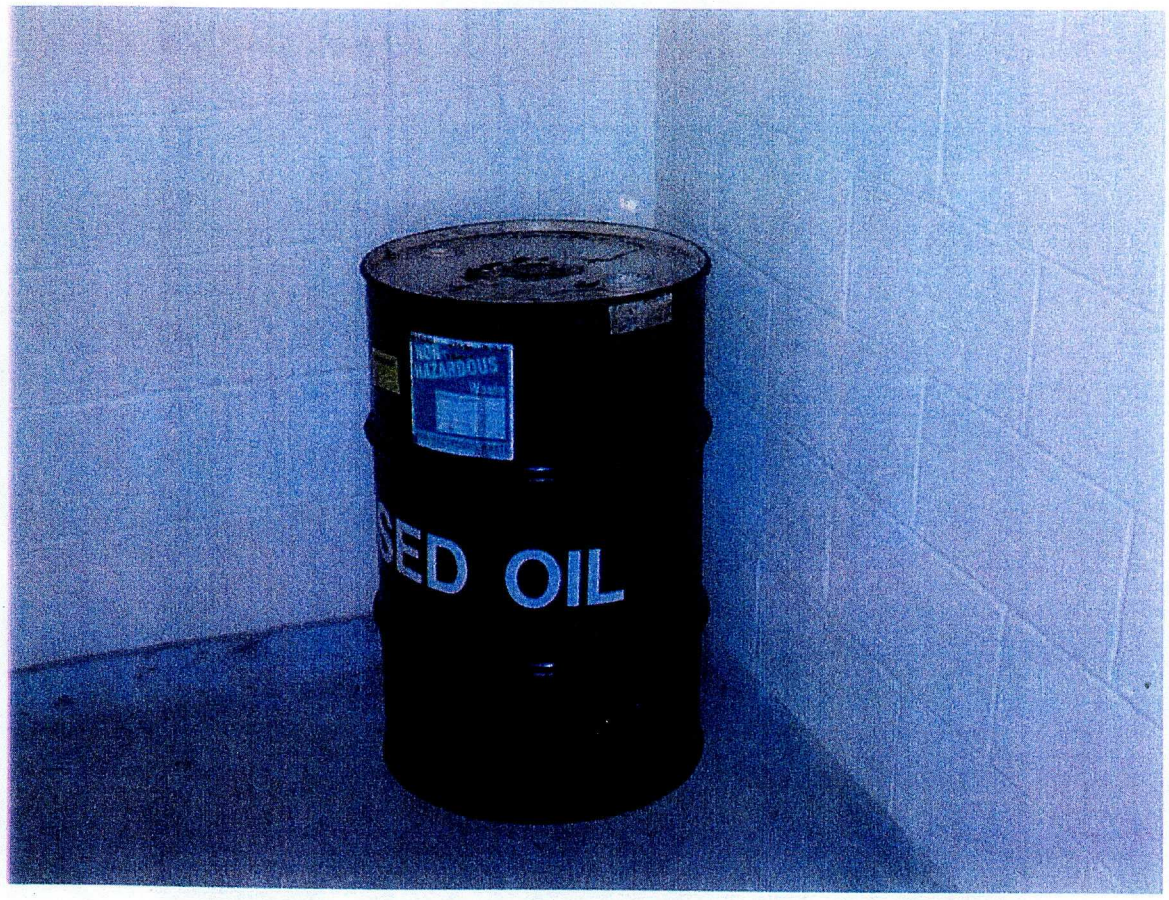

Photo No.: 2	Date/Time: 9/2/04 11:20 am	Site: Scott AFB
By: M. Valentino	Orientation: NW	Description: 35-gal used oil SAA drum in Bay 2 at 90-Day HW Area

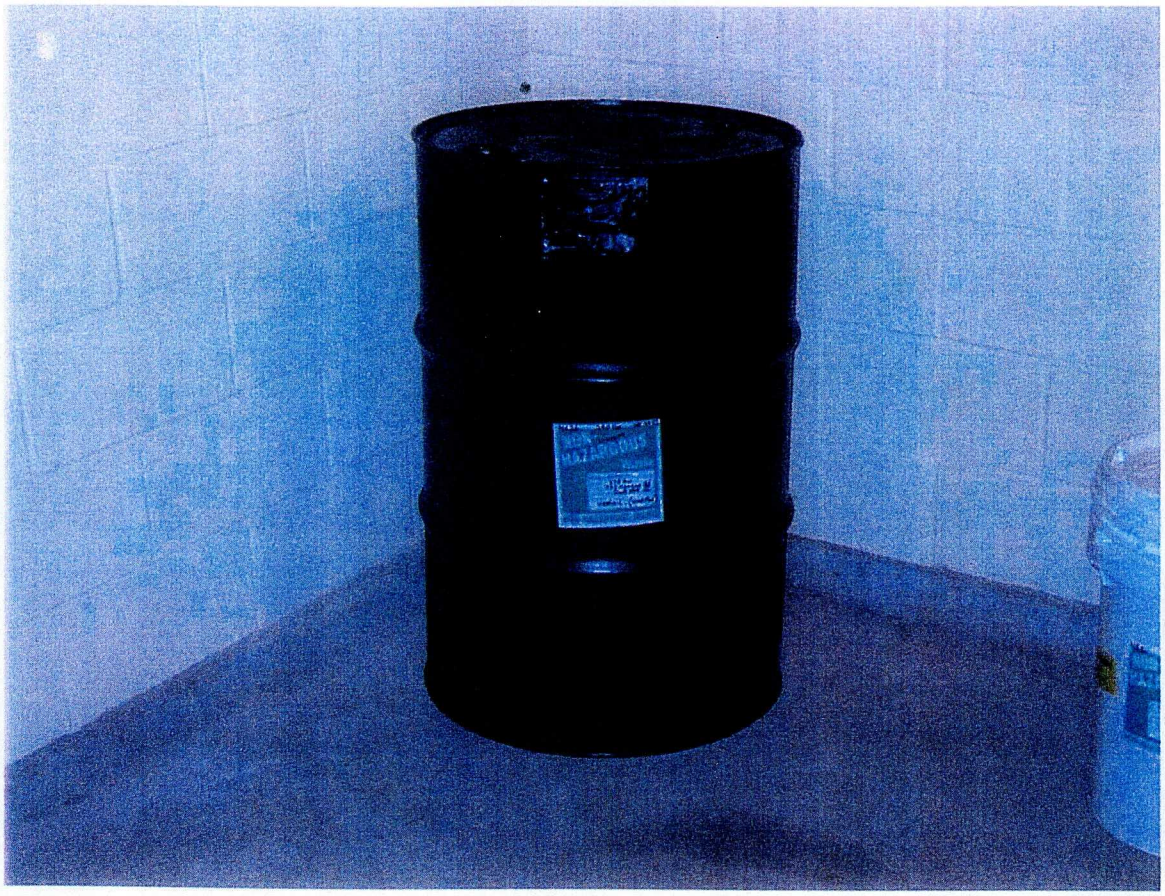

Photo No.: 3	Date/Time: 9/2/04 11:20 am	Site: Scott AFB
By: M. Valentino	Orientation: SE	Description: 55-gal used oil SAA drum in Bay 2 at 90-Day HW Area

Photo No.: 4	Date/Time: 9/2/04 11:31 am	Site: Scott AFB
By: M. Valentino	Orientation: W	Description: Non-hazardous inventory in Bay 3 at 90-Day HW Area

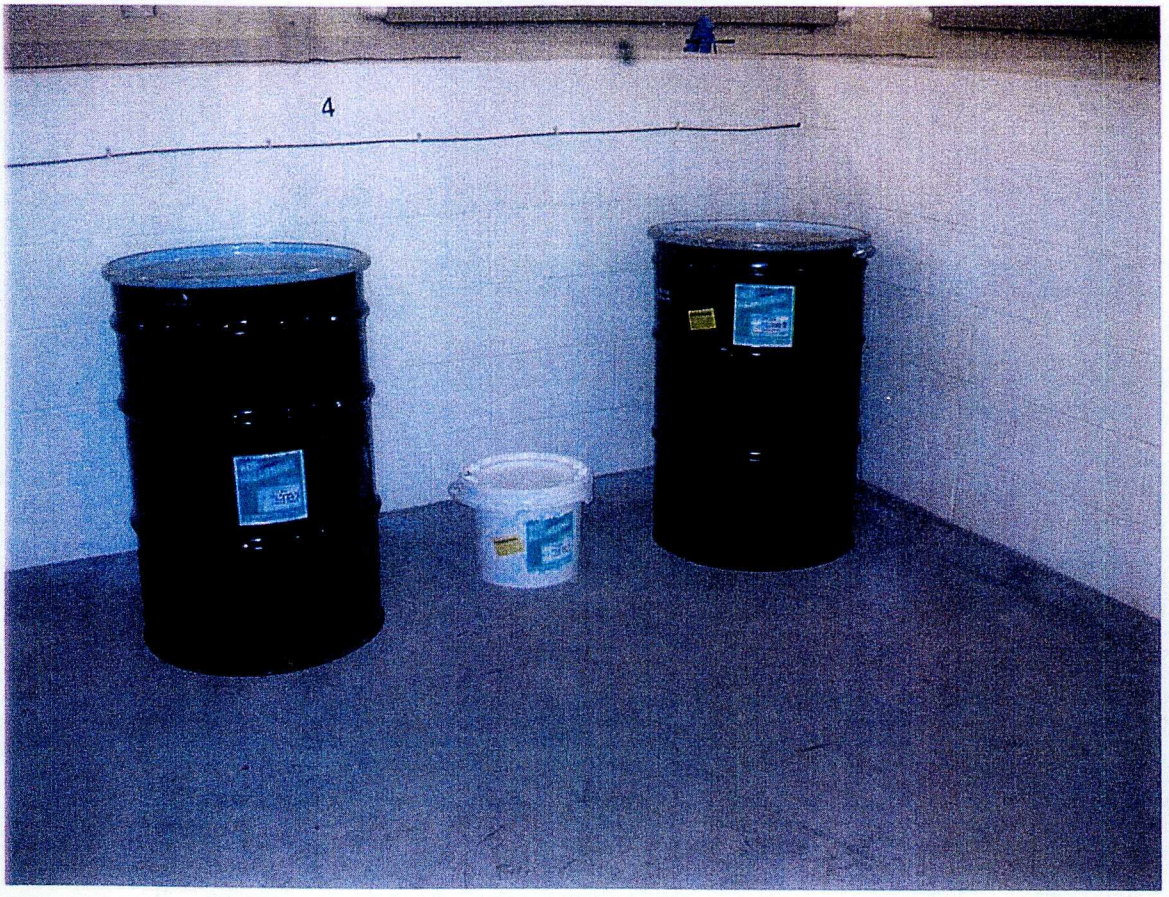

Photo No.: 5	Date/Time: 9/2/04 11:32 am	Site: Scott AFB
By: M. Valentino	Orientation: NW	Description: Non-hazardous inventory in Bay 4 at 90-Day HW Area

Photo No.: 6	Date/Time: 9/2/04 11:33 am	Site: Scott AFB
By: M. Valentino	Orientation: W	Description: 2 55-gal hazardous waste (D002, D008) drums in Bay 5 at 90-Day HW Area

Photo No.: 7	Date/Time: 9/2/04 11:35 am	Site: Scott AFB
By: M. Valentino	Orientation: E	Description: 1 55-gal wash rack sludge (F001, F003) drums in Bay 6 at 90-Day HW Area. Note: some rusting at bottom of drum and along ring, but no evidence of leakage or compromise of the container.

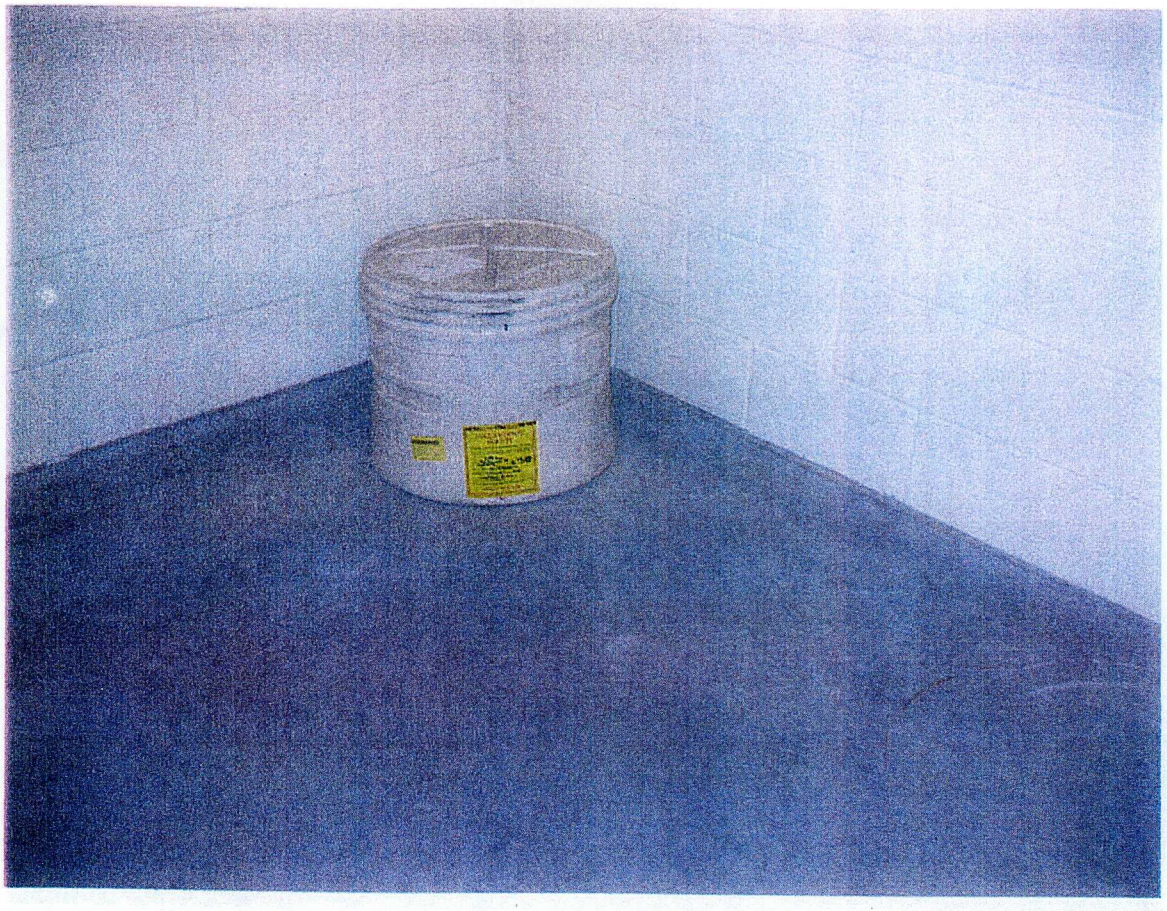

Photo No.: 8	Date/Time: 9/2/04 11:35 am	Site: Scott AFB
By: M. Valentino	Orientation: SE	Description: 1 20-gal container of warfarin (P001) in Bay 6 at 90-Day HW Area

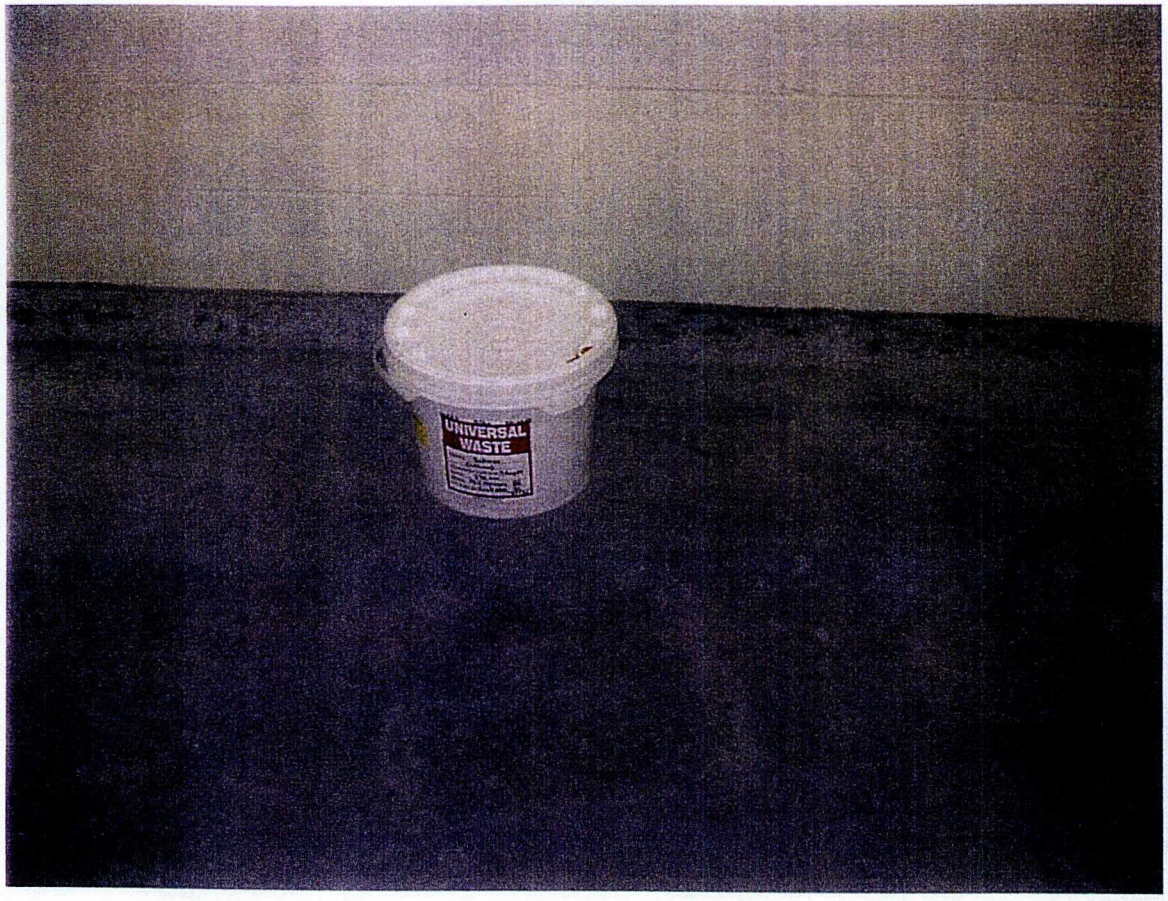

Photo No.: 9	Date/Time: 9/2/04 11:36 am	Site: Scott AFB
By: M. Valentino	Orientation: E	Description: 1 3-gal container of Li batteries in Bay 8 at 90-Day HW Area

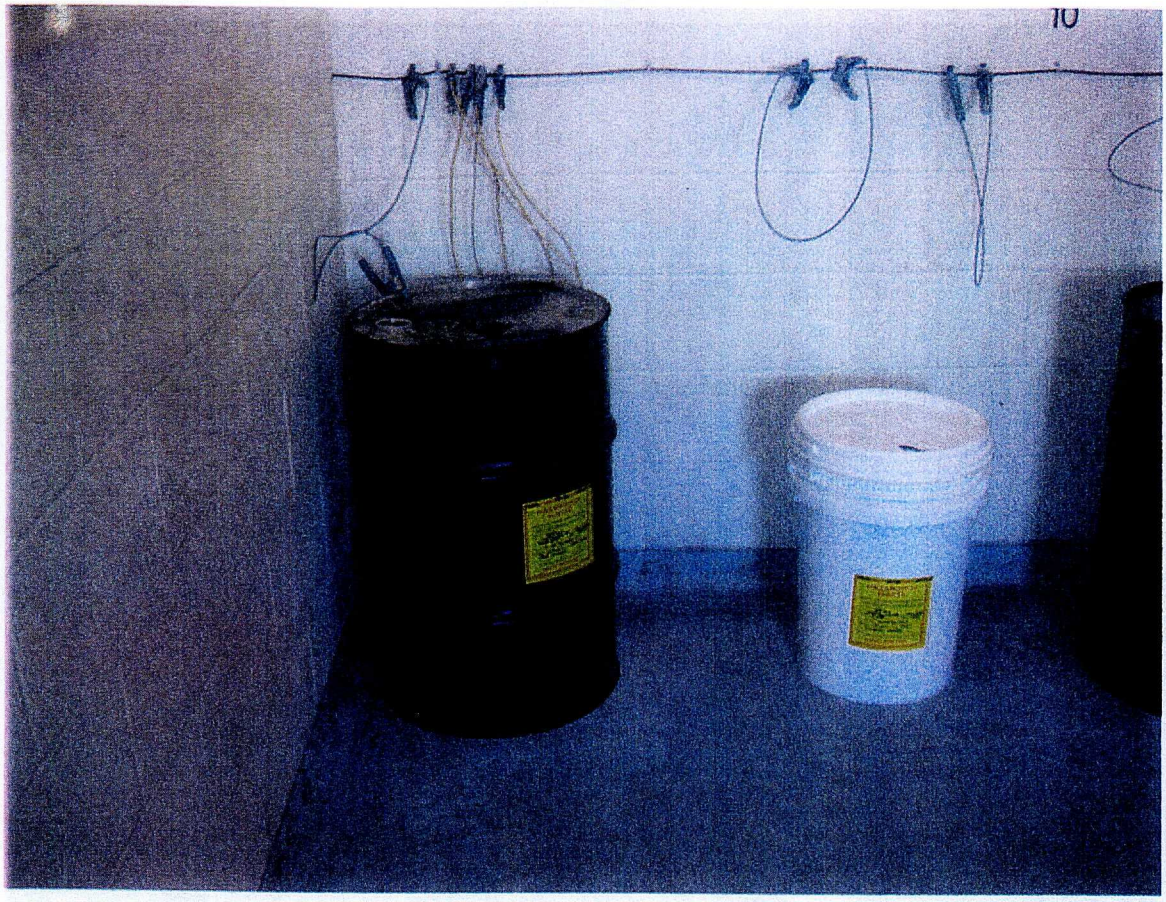

Photo No.: 10	Date/Time: 9/2/04 11:37 am	Site: Scott AFB
By: M. Valentino	Orientation: E	Description: 1 35-gal drum of solvents (D001, D018) and 1 20-gal PVC container of IPA (D001) in Bay 10 at 90-Day HW Area. All metal drums are grounded in this bay.

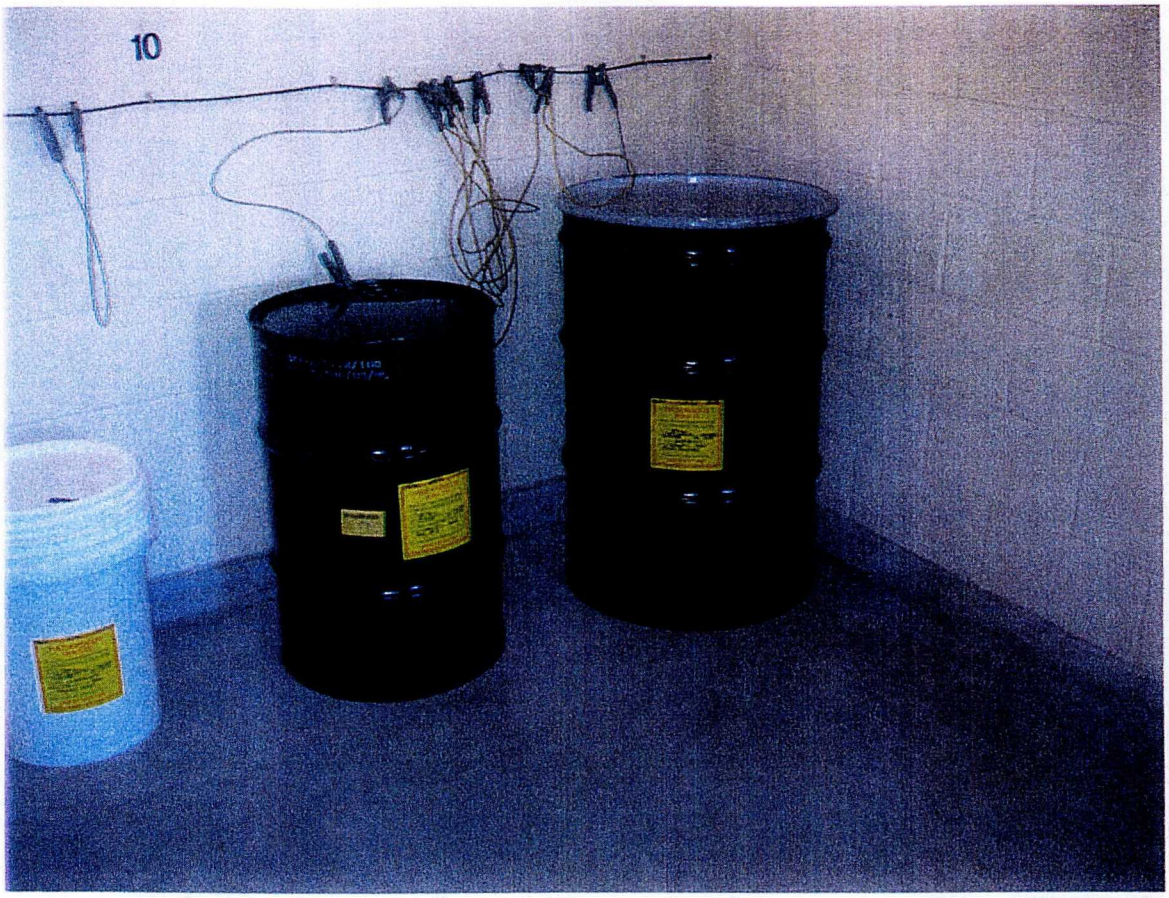

Photo No.: 11	Date/Time: 9/2/04 11:37 am	Site: Scott AFB
By: M. Valentino	Orientation: SE	Description: 1 55-gal drum of JP-8 (D001) and 1 55-gal drum of paint aerosols (D001) in Bay 10 at 90-Day HW Area. Again, flammables are grounded.

Photo No.: 12	Date/Time: 9/2/04 11:39 am	Site: Scott AFB
By: M. Valentino	Orientation: NW	Description: 1 spill kit-overpack drum and 1 fire extinguisher on N wall at 90-Day HW Area. Empty drums to right.

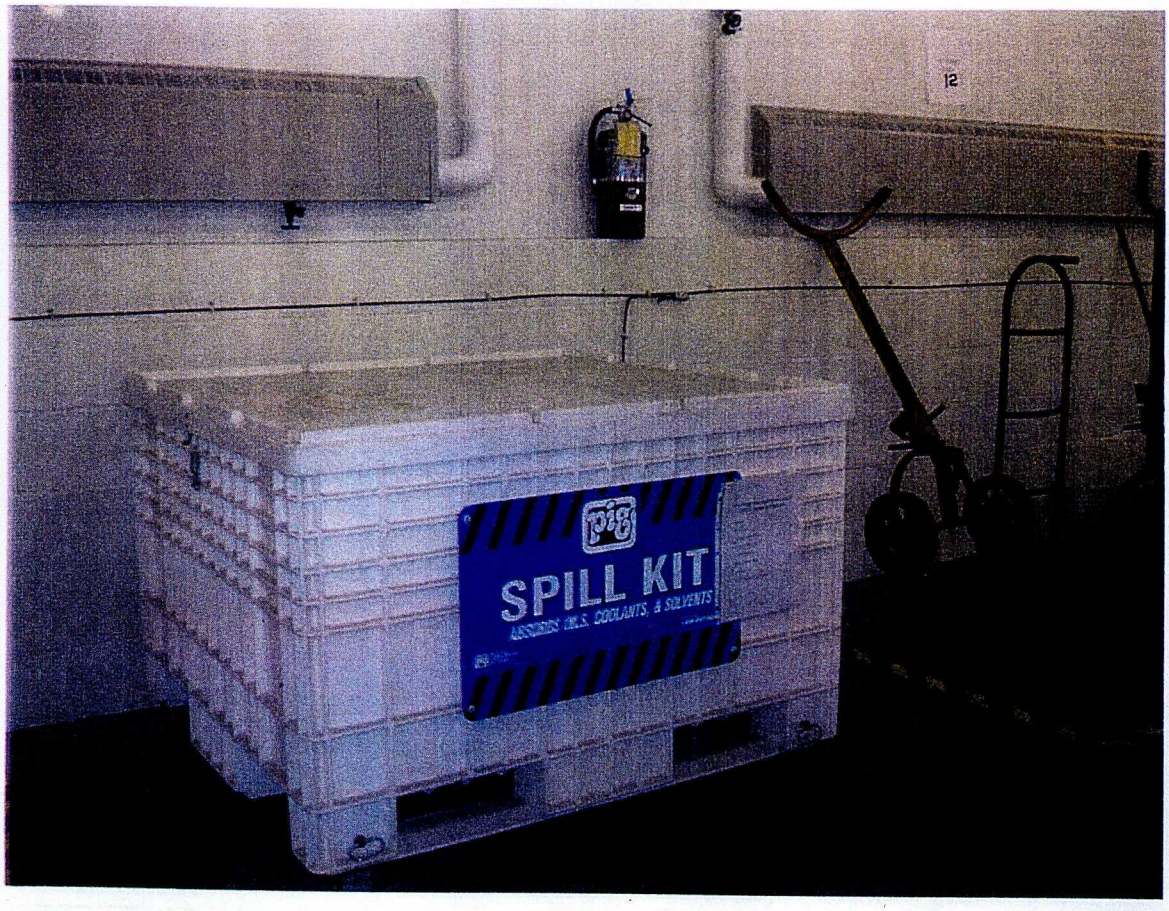

Photo No.: 13	Date/Time: 9/2/04 11:40 am	Site: Scott AFB
By: M. Valentino	Orientation: S	Description: Large spill kit and fire extinguisher along S wall at 90-Day HW Area.

Photo No.: 14	Date/Time: 9/2/04 11:42 am	Site: Scott AFB
By: M. Valentino	Orientation: SW	Description: Containerized bulbs, manifested as universal waste, inside of bulb storage trailer (outside Bldg 3306).

Photo No.: 15	Date/Time: 9/2/04 11:42 am	Site: Scott AFB
By: M. Valentino	Orientation: SE	Description: Containerized bulbs, manifested as universal waste, inside of bulb storage trailer (outside Bldg 3306).

Photo No.: 16	Date/Time: 9/2/04 12:47 pm	Site: Scott AFB
By: M. Valentino	Orientation: ---	Description: Bldg 548, 375th Vehicle Maintenance, showing MSDS, spill kit, fire extinguisher, and 55-gal PVC container of crushed oil filters, with oil recovery drum/filter crusher to far right of photo.

Photo No.: 17	Date/Time: 9/2/04 12:48 pm	Site: Scott AFB
By: M. Valentino	Orientation: ---	Description: Bldg 548, 375th Vehicle Maintenance, showing inventory of non-hazardous (used oil) and hazardous waste streams. Empty drums in foreground. Note secondary containment provided for drum inventory.

Photo No.: 18	Date/Time: 9/2/04 12:50 pm	Site: Scott AFB
By: M. Valentino	Orientation: ---	Description: Bldg 548, 375th Vehicle Maintenance, showing double-walled 180-gal used oil collection tank.

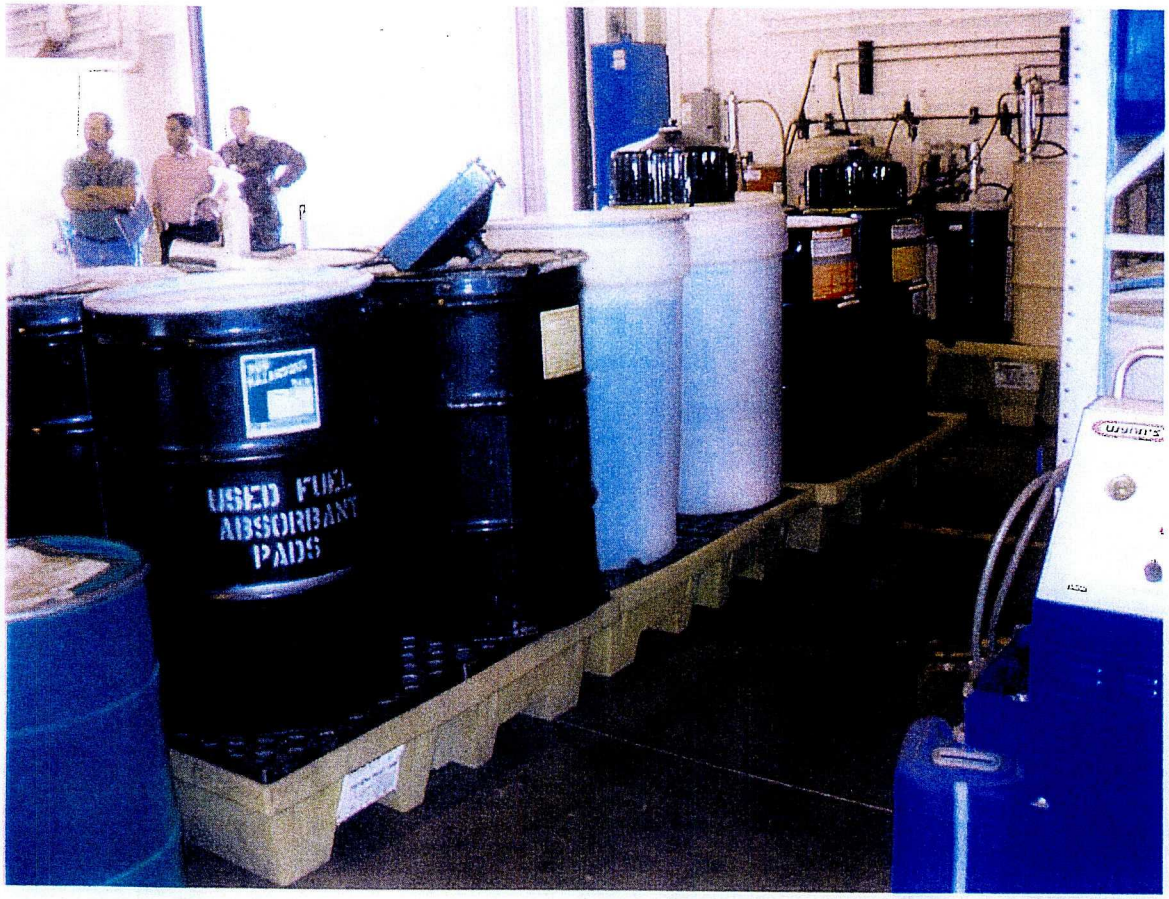

Photo No.: 19	Date/Time: 9/2/04 12:50 pm	Site: Scott AFB
By: M. Valentino	Orientation: ---	Description: Bldg 548, 375th Vehicle Maintenance, showing inventory of non-hazardous (used oil) and hazardous waste streams. Empty drums in foreground. Note secondary containment provided for drum inventory.

Photo No.: 20	Date/Time: 9/2/04 1:43 pm	Site: Scott AFB
By: M. Valentino	Orientation: ---	Description: SAA trailer located outside Bldg 439, showing 2 55-gal drums of solvent and 1 30-gal drum of solvent. The trailer serves as secondary containment for the drums. Note spill kit on shelve to left. Drums were grounded; funnels were closed.

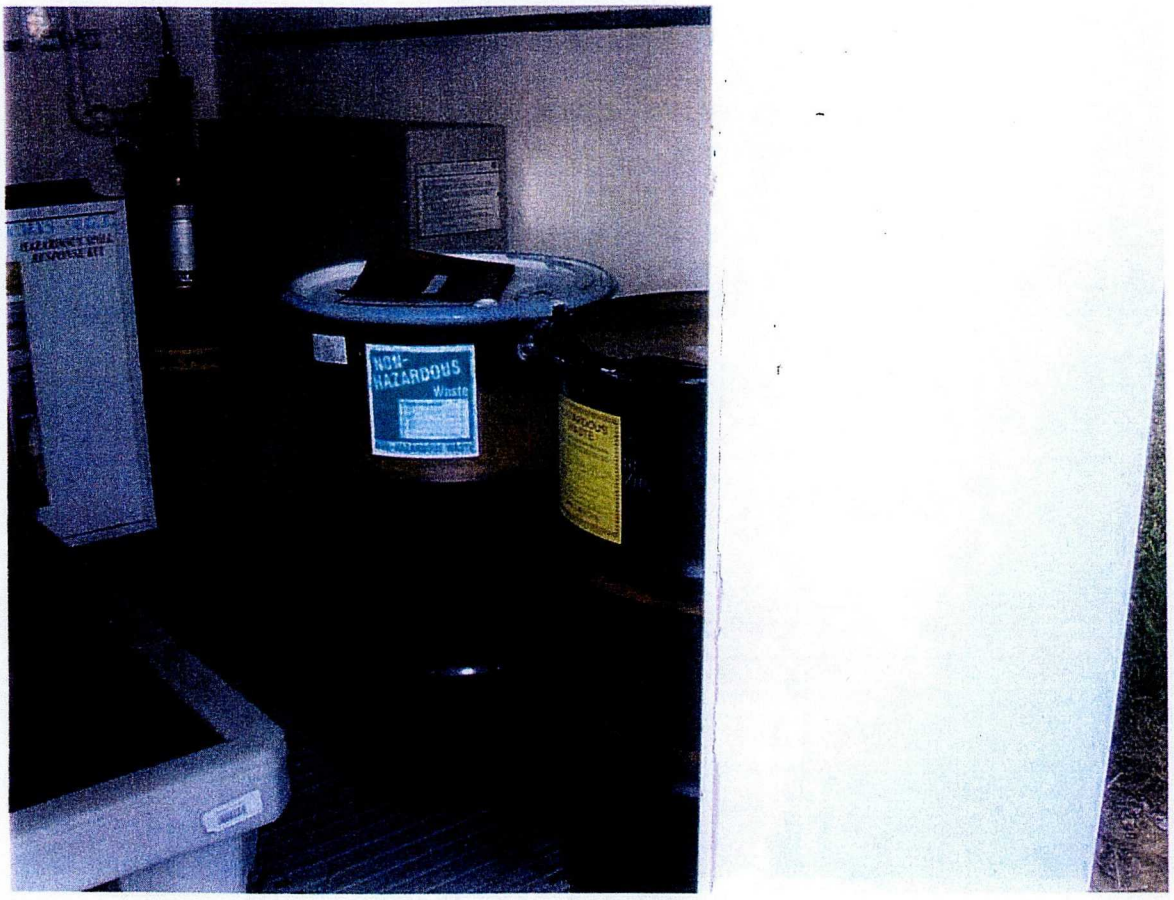

Photo No.: 21	Date/Time: 9/2/04 1:57 pm	Site: Scott AFB
By: M. Valentino	Orientation: ---	Description: 126th AGE. SAA trailer, showing inventory of 1 55-gal drum of used oil filters and 1 55-gal drum of hazardous waste. The trailer serves as secondary containment.

Photo No.: 22	Date/Time: 9/2/04 1:59 pm	Site: Scott AFB
By: M. Valentino	Orientation: ---	Description: 126th AGE. SAA, showing used oil collection drum to right, and 35-gal hazardous waste drums to left. Note secondary containment for hazardous waste drums. All funnels were closed. Flammables were grounded.

Photo No.: 23	Date/Time: 9/2/04 2:00 pm	Site: Scott AFB
By: M. Valentino	Orientation: ---	Description: 126th AGE. SAA, showing 35-gal used oil filter drum to right, and 35-gal hazardous waste drum containing JP-8 fuel (D001) to left. Note secondary containment for hazardous waste drums. Drums were grounded, and within secondary containment.

Photo No.: 24	Date/Time: 9/2/04 2:00 pm	Site: Scott AFB
By: M. Valentino	Orientation: ---	Description: 126th AGE. SAA, showing 2 55-gal used oil collection drum to right, each situated within secondary containment.

Photo No.: 25	Date/Time: 9/2/04 2:10 pm	Site: Scott AFB
By: M. Valentino	Orientation: ---	Description: Main Hangar, Bldg 5026, showing 55-gal used oil absorbent pad SAA container, situated atop secondary containment.

Photo No.: 26	Date/Time: 9/2/04 2:17 pm	Site: Scott AFB
By: M. Valentino	Orientation: ---	Description: Bldg 5022, Engine Shop SAA inventory of non-hazardous used oil drums (3 55-gal; 1 35-gal).

Photo No.: 27	Date/Time: 9/2/04 2:18 pm	Site: Scott AFB
By: M. Valentino	Orientation: ---	Description: Bldg 5022, Engine Shop. 55-gal SAA drum containing JP-8 (D001), housed within storage locker which serves as secondary containment.

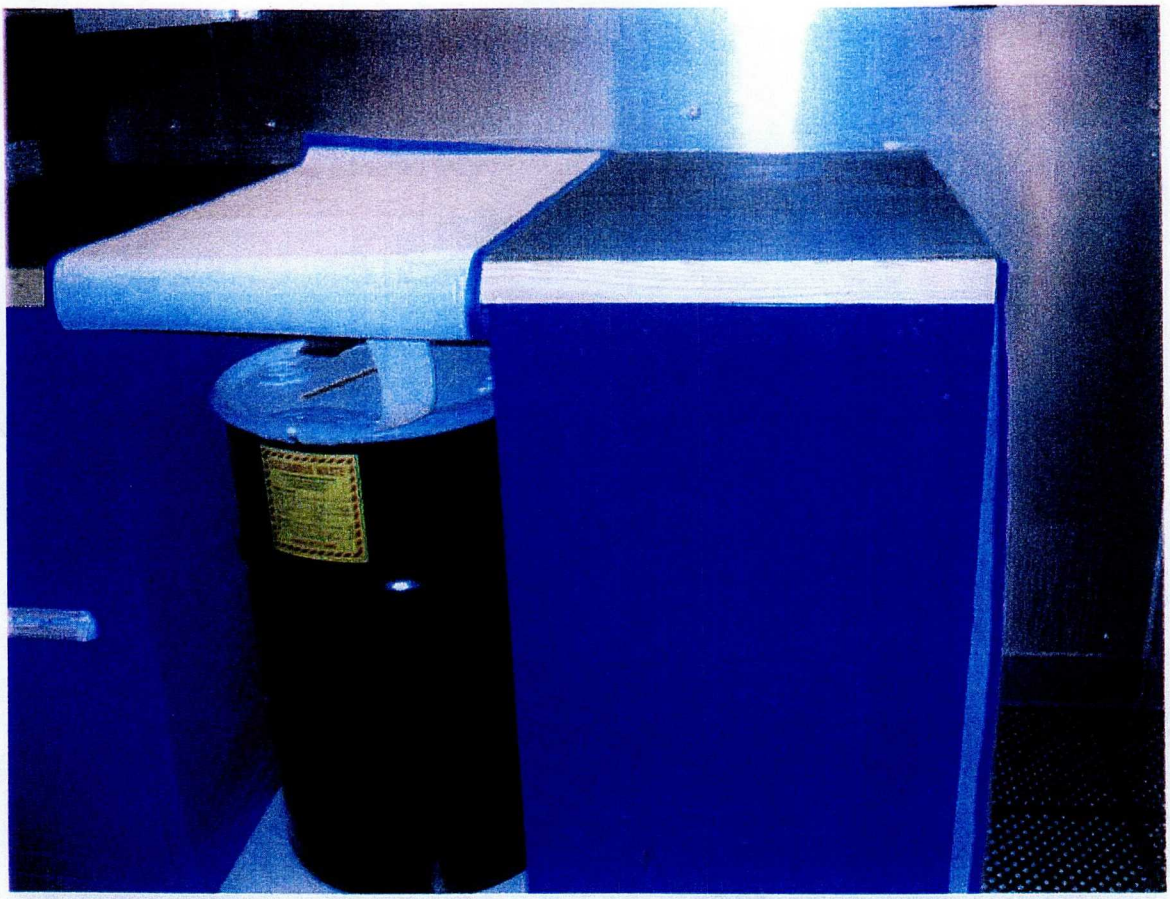

Photo No.: 28	Date/Time: 9/2/04 2:30 pm	Site: Scott AFB
By: M. Valentino	Orientation: ---	Description: Bldg 434 RR SAA showing 35-gal hazardous waste container.

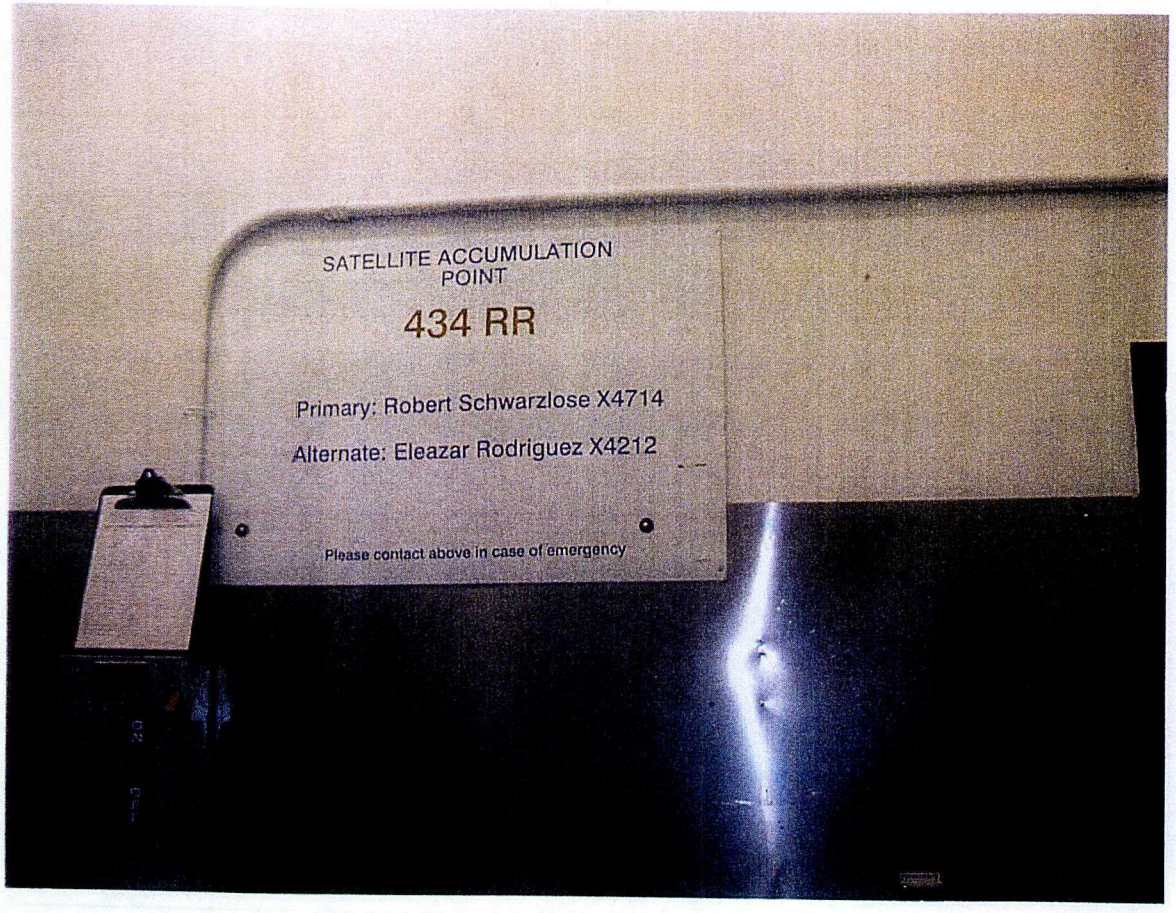

Photo No.: 29	Date/Time: 9/2/04 2:30 pm	Site: Scott AFB
By: M. Valentino	Orientation: ---	Description: Bldg 434 RR SAA (see photo 28) sign indicating primary and secondary responsible persons. Note drum inspection log to left.

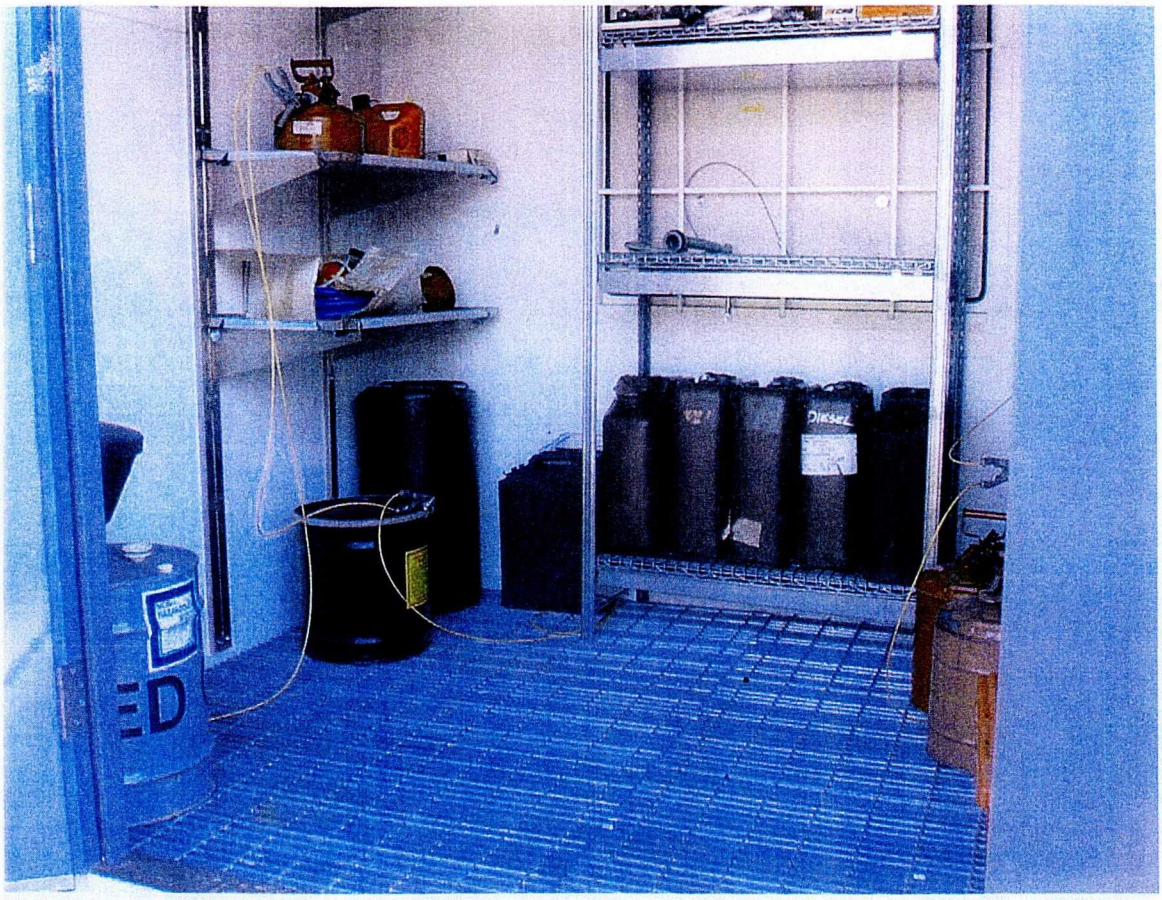

Photo No.: 30	Date/Time: 9/2/04 2:52 pm	Site: Scott AFB
By: M. Valentino	Orientation: ---	Description: Bldg 3192 AMC SAA trailer, showing inventory of non-hazardous and hazardous waste streams. Trailer serves as secondary containment. All flammables were grounded, and all funnels were closed.

SCOTT AFB ILT 570 024 177 9-1-94

Regulation	RCRA GENERATOR INSPECTION CHECKLIST (PART 722)	Violation
	PART 722: STANDARDS APPLICABLE TO GENERATORS OF HAZARDOUS WASTE (>1000 KG/MO.)	
	SUBPART A: GENERAL	
722.111	**Section 722.111 Hazardous Waste Determination** Has the generator correctly determined if the solid waste(s) it generates is a hazardous waste? Yes ✓ No ___ N/A ___ Have hazardous wastes been identified for purposes of compliance with Part 728? Yes ✓ No ___ N/A ___	722.111
808.121(a)	Has the generator correctly determined if the solid waste(s) it generates is a special waste? Yes ___ No ___ N/A ___	808.121(a)
	Section 722.112 USEPA Identification Numbers	
722.112(a)	Has the generator obtained a USEPA identification number? Yes ✓ No ___ N/A ___	722.112(a)
722.112(c)	Has the generator offered its hazardous waste only to transporters or to treatment, storage or disposal facilities that have a USEPA identification number? Yes ✓ No ___ N/A ___	722.112(c)
	SUBPART B: THE MANIFEST	
	Section 722.120 General Requirements	
722.120(a)	Does the facility manifest its waste off-site? Yes ✓ No ___ N/A ___	722.120(a)
722.120(b)	Does the manifest designate a facility permitted to handle the waste? Yes ✓ No ___ N/A ___	722.120(b)
722.120(d)	Has the generator shipped any waste that could not be delivered to the designated facility? Yes ___ No ✓ N/A ___	722.120(d)
	Section 722.121 Acquisition of Manifests	
722.121(a)	Has the generator used: – an Illinois manifest for wastes designated to a facility within Illinois? Yes ✓ No ___ N/A ___	722.121(a)
722.121(b)	– a manifest from the State to which the manifest is designated? Yes ✓ No ___ N/A ___ – an Illinois manifest if the State to which the waste is designated has no manifest of its own? Yes ___ No ___ N/A ___	722.121(b)
	Section 722.122 Number of Copies	
722.122	Does the manifest consist of at least 6 copies? Yes ✓ No ___ N/A ___	722.122
	Section 722.123 Use of the Manifest	
722.123(a)	For each manifest reviewed, has the generator: – signed the certificate by hand? Yes ✓ No ___ N/A ___ – obtained the handwritten signature and the date of acceptance by the initial transporter? Yes ✓ No ___ N/A ___ – retained one copy as required by Section 722.140(a)? Yes ✓ No ___ N/A ___ – apparently sent a copy (part 5 for the Illinois manifest) to the Agency within 2 working days? Yes ✓ No ___ N/A ___	722.123(a)
722.123(b)	– has the generator apparently given the remaining copies to the transporter? Yes ✓ No ___ N/A ___	722.123(b)
722.123(c)	– has the generator followed the procedures prescribed in Section 722.123 for manifesting bulk shipments of hazardous waste by rail or water? Yes ___ No ___ N/A ✓	722.123(c)

Regulation	RCRA GENERATOR INSPECTION CHECKLIST (PART 722)	Violation
	SUBPART C: PRE-TRANSPORT REQUIREMENTS	
	Is there any hazardous waste ready for transport off-site? Yes ✓ No ____ N/A ____	
	If so, is the generator complying with the pre-transport requirements in Subpart C? Yes ✓ No ____ N/A ____	
	Section 722.134 Accumulation Time	
722.134(a)	Has the generator complied with the following requirements: Yes ✓ No ____ N/A ____	722.134(a)
722.134(a)(1)	A) For waste in containers, has the generator complied with the requirements of Part 725, Subpart I? Yes ✓ No ____ N/A ____	
	and/or	
	B) For waste in tanks, has the generator complied with the requirements of Part 725, Subpart J (except Sections 725.297(c) and 725.300)? Yes ____ No ____ N/A ✓	
	and/or	
	C) For waste on drip pads, has the generator complied with the requirements of Part 725, Subpart W and maintained the required records identified in this subsection? Yes ____ No ____ N/A ✓	
	and/or	
	D) For waste in containment buildings, has the generator complied with Part 725, Subpart DD and maintained the required records identified in this subsection? Yes ____ No ____ N/A ✓	
722.134(a)(2)	For waste in containers, has the generator marked and made visible for inspection on each container, the date upon which accumulation began? Yes ✓ No ____ N/A ____	
722.134(a)(3)	For waste in containers and tanks, has the generator marked or labeled each with the words "Hazardous Waste"? Yes ✓ No ____ N/A ____	
722.134(a)(4)	Has the generator complied with the requirements of Part 725, Subparts C and D, and Sections 725.116 and 728.107(a)(4)? Yes ✓ No ____ N/A ____	
	Specifically, the requirements of items 1 and/or 4 above (listed by regulation) which need to be complied with are as follows:	
	Does the facility accumulate hazardous waste in containers? Yes ✓ No ____ N/A ____	
	If "No", go to Subpart J.	
	SUBPART I: USE AND MANAGEMENT OF CONTAINERS	
	Has the generator closed an accumulation area? Yes ~~✓~~ No ____ N/A ✓	RCRA closure not required at historic storage area (AQUA Kind)
(725.211) (725.214)	If "Yes", was the accumulation area closed in accordance with Sections 725.211 and 725.214? Yes ____ No ____ N/A ____	
(725.271)	If the containers have leaked or are in poor condition, has the owner/operator transferred the hazardous waste to a suitable container? Yes ____ No ____ N/A ✓	
(725.272)	Is the waste compatible with the container and/or liner? Yes ✓ No ____ N/A ____	
(725.273a)	Are containers of hazardous waste always closed except to remove or add waste during accumulation? Yes ✓ No ____ N/A ____	
(725.273b)	Are containers of hazardous waste being opened, handled, or stored in a manner which will prevent the rupture of the container or prevent it from leaking? Yes ✓ No ____ N/A ____	

Regulation	RCRA GENERATOR INSPECTION CHECKLIST (PART 722)	Violation
(725.274)	Is the owner/operator inspecting the accumulation area(s) at least weekly, looking for leaks or deterioration? Yes ✓ No____ N/A____ Is the accumulation area free from any evidence of leaking or deteriorating containers? (See also Section 725.131) Yes ✓ No____ N/A____	
(725.276)	Are containers holding ignitable or reactive wastes located at least 15 meters (50 feet) from the facility's property line? Yes ✓ No____ N/A____ **Note:** See Section 725.117(a) for additional requirements for ignitable, reactive or incompatible wastes.	
(725.277)	Is the owner/operator complying with the requirements concerning incompatible wastes? Yes ✓ No____ N/A____ COMMENTS:	
	Does the generator accumulate and/or treat hazardous waste in tanks? Yes____ No ✓ N/A____ **Note:** If "No", go to Subpart C.	
	SUBPART J: TANK SYSTEMS N/A	
	Has the generator closed an accumulation area? Yes____ No____ N/A____	
(725.211) (725.214)	If "Yes", was the accumulation area closed in accordance with Sections 725.211 and 725.214? Yes____ No____ N/A____	
(725.290)	Does the facility accumulate or treat hazardous waste in tanks? Yes____ No____ N/A____ **Note:** A generator may treat hazardous waste in a tank for less than 90 days without a RCRA permit. If "No", skip Subpart J. a) Tank systems that are used to accumulate or treat hazardous waste which contains no free liquids (using the Paint Filter Liquids Test) and that are situated inside a building with an impermeable floor are exempted from the requirements in Section 725.293. b) Tank systems, including sumps, that serve as part of a secondary containment system to collect or contain releases of hazardous wastes are exempted from the requirements in Section 725.293(a). c) Tanks, sumps and other collection devices used in conjunction with drip pads (as defined in Section 720.110) and regulated under Subpart W, must meet the requirements of this Subpart.	
(725.291a)	For tanks **existing** prior to July 14, 1986 (see definition of tank system under 720.110) and not protected by a secondary containment system, has a written assessment been reviewed and certified by an IRPE(*) in accordance with Section 702.126(d) by January 12, 1988 [except as provided in Section 725.291(c)]? Yes____ No____ N/A____	
(725.291b)	Does this assessment consider at least the following: 1) design standards for the tank and ancillary equipment? Yes____ No____ N/A____ 2) hazardous characteristics of the wastes? Yes____ No____ N/A____ 3) existing corrosion protection measures? Yes____ No____ N/A____ 4) documented age of the tank system? Yes____ No____ N/A____ 5) results of a leak test, internal inspection, or other tank integrity examination? Yes____ No____ N/A____ *IRPE = Independent Registered Professional Engineer	

Regulation	RCRA GENERATOR INSPECTION CHECKLIST (PART 722)	Violation
(725.291c)	Has a tank system assessment been performed within 12 months after the materials in the tank become a hazardous waste? Yes_____ No_____ N/A_____ **Note:** If an assessment indicates a tank system is leaking or unfit for use, the owner/operator must comply with the requirements of Section 725.291(b)(5).	
(725.292a)	For **new** tanks (see definition of new tanks under Section 720.110) whose installation commenced after 07/14/86, has a written assessment been reviewed and certified by an IRPE in accordance with Section 702.126(d) prior to operation of the tank system? Yes_____ No_____ N/A_____ Does the assessment include, at a minimum, the following: 1) design standards for tanks and ancillary equipment? Yes_____ No_____ N/A_____ 2) hazardous characteristics of the waste(s) to be handled? Yes_____ No_____ N/A_____ 3) evaluation of potential for corrosion and corrosion protection measures for tank systems with metal components in contact with soil or water? Yes_____ No_____ N/A_____ 4) design or operational measures that will protect underground tank systems from potential damage resulting from vehicular traffic? Yes_____ No_____ N/A_____ 5) designs to ensure adequate foundations, anchoring to prevent flotation or dislodgment and the ability to withstand the effects of frost heave? Yes_____ No_____ N/A_____	
(725.292g)	Has the owner/operator obtained and kept on file at the facility the written statements, including the certification statements [as required in Section 702.126(d)] of the design and installation requirements of Subsections (b) through (f)? Yes_____ No_____ N/A_____	
(725.293a)	Is secondary containment provided for any new tank system before being put into service? Yes_____ No_____ N/A_____ Does an existing tank, used to accumulate F020, F021, F022, F023, F026 or F027 waste(s), have secondary containment by 1/12/89? Yes_____ No_____ N/A_____ For an existing tank of documentable age, is secondary containment provided by 1/12/89 or when the tank is 15 years old, whichever is later? Yes_____ No_____ N/A_____ For an existing tank of undocumentable age, has secondary containment been provided by 1/12/95? Yes_____ No_____ N/A_____ or if the facility is older than 7 years, by the time the facility reaches 15 years of age or 1/12/89, whichever is later? Yes_____ No_____ N/A_____ For tanks that accumulate wastes that become hazardous after 1/12/87, has secondary containment been provided within the time intervals required in Subsections (a)(1) through (a)(4) substituting the date that a material becomes a hazardous waste for 1/12/87? Yes_____ No_____ N/A_____	
(725.293b)	Is the secondary containment system designed, installed and operated to prevent migration of wastes or accumulated liquid out of the system at any time? Yes_____ No_____ N/A_____ Is the secondary containment system capable of detecting and collecting releases and accumulated liquids until the collected material is removed? Yes_____ No_____ N/A_____	

Regulation	RCRA GENERATOR INSPECTION CHECKLIST (PART 722)	Violation
(725.293c)	To meet the requirements of Subsection (b), is the secondary containment system: 1) compatible with the waste(s) in the tank and of sufficient strength and thickness to prevent failure? Yes_____ No_____ N/A_____ 2) placed on a foundation or base capable of providing support, providing resistance to pressure gradients and preventing failure due to settlement, compression of uplift? Yes_____ No_____ N/A_____ 3) provided with a leak detection system designed and operated to detect any release or accumulated liquid within 24 hours? Yes_____ No_____ N/A_____ 4) sloped or otherwise designed or operated to drain and remove liquids resulting from leaks, spills or precipitation? Yes_____ No_____ N/A_____ and is spilled or leaked waste and accumulated precipitation removed from the secondary containment within 24 hours? Yes_____ No_____ N/A_____ **Note:** A RCRA permit may allow for removal of liquids less frequently than 24 hours after accumulation.	
(725.293d)	Does the secondary containment for tanks have one or more of the following: 1) a liner (external to the tank); or 2) a vault; or 3) a double-walled tank; or 4) an equivalent device (approved by the Board)? Yes_____ No_____ N/A_____	
(725.293e)	Does the external liner system(s), vault system(s) and/or double-walled tank(s) meet the additional requirements identified in Section 725.293(e)? Yes_____ No_____ N/A_____	
(725.293f)	Is ancillary equipment protected by secondary containment that meets the requirement of Subsection (h) and (c)? Yes_____ No_____ N/A_____ If "No": 1) Is aboveground piping (exclusive of flanges, joints, valves and connections) inspected daily? Yes_____ No_____ N/A_____ 2) Are welded flanges, joints and connections inspected daily? Yes_____ No_____ N/A_____ 3) Are sealless or magnetic coupling pumps and sealless valves inspected daily? Yes_____ No_____ N/A_____ 4) Are pressurized aboveground piping systems with automatic shut-off devices inspected daily? Yes_____ No_____ N/A_____	
(725.293i)	Until such time as secondary containment is provided, are the following requirements being met for all tank systems: 1) For non-enterable underground tanks, has an annual leak test that meets the requirements of 725.291(b)(5) been conducted? Yes_____ No_____ N/A_____ 2) For other than non-enterable underground tanks and ancillary equipment, has an annual leak test, internal inspection or other tank integrity examination by an IRPE been conducted? Yes_____ No_____ N/A_____ 3) Are written records maintained at the facility to document the assessments required under Subsections (i)(1) and (i)(2)? Yes_____ No_____ N/A_____ **Note:** If a tank system is found to be leaking or unfit for use as a result of a leak test or assessment, the owner/operator must comply with Section 725.296.	
(725.294a)	Has the owner/operator placed hazardous wastes or treatment reagents in the tank system that could cause the system to rupture, leak, corrode or otherwise fail? Yes_____ No_____ N/A_____	

Regulation	RCRA GENERATOR INSPECTION CHECKLIST (PART 722)	Violation
(725.294b)	Do tanks and secondary containment have appropriate controls and practices to prevent spills and overflows including: 1) spill prevention controls? Yes_____ No_____ N/A_____ 2) overfill prevention controls? Yes_____ No_____ N/A_____ 3) sufficient freeboard in uncovered tanks? Yes_____ No_____ N/A_____	
(725.294c)	**Note:** If a leak or spill has occurred in the tank system, the owner/operator shall comply with the requirements of Section 725.296.	
(725.295a)	Does the owner/operator inspect, if present, at least each operating day, the following: 1) overfill/spill control equipment? Yes_____ No_____ N/A_____ 2) the aboveground portion of the tank system for corrosion or releases? Yes_____ No_____ N/A_____ 3) data from monitoring equipment? Yes_____ No_____ N/A_____ 4) the construction materials and the area immediately surrounding the external portion of the system? Yes_____ No_____ N/A_____	
(725.295b)	If the tank system has cathodic protection, is the owner/operator complying with Section 725.295(b) to ensure that they are functioning properly? Yes_____ No_____ N/A_____	
(725.295c)	Does the owner/operator document in the operating record, the results of tank inspections as required in Section 725.295(a) and (b)? Yes_____ No_____ N/A_____	
(725.296)	If the tank system or secondary containment system has a leak or spill or is unfit for use, has the owner/operator: a) immediately ceased using; prevented flow or addition of waste and inspected the system to determine the cause of the release? Yes_____ No_____ N/A_____ b) removed applicable waste from the system within 24 hours of detection? Yes_____ No_____ N/A_____ c) immediately conducted a visual inspection of the release and taken actions to contain visible releases to the environment; prevented further migration to soils or surface water and removed and properly disposed of any contaminated soil or water? Yes_____ No_____ N/A_____	
(725.296d)	d) notified the Agency within 24 hours of detection of release? Yes_____ No_____ N/A_____ d)3) within 30 days of detection of release, submitted a report to the Agency that complies with the requirements of Section 725.296(d)(3)? Yes_____ No_____ N/A_____ **Note:** Notification and reports are not necessary if less than 1 pound of material is spilled and it was immediately contained and cleaned up.	
(725.296e)	e) repaired the tank system prior to returning the tank system to service in the event that a leak has occurred from the primary tank system into the secondary containment system? Yes_____ No_____ N/A_____ e)4) provided secondary containment before returning a tank system to service in the event that the release was from a component of a tank system without secondary containment? Yes_____ No_____ N/A_____ e)4) met the requirements for a new tank system in the event that a component is replaced during repair? Yes_____ No_____ N/A_____ e)4) provided the entire component with secondary containment prior to being returned to use in the event that a leak has occurred in any portion of a component that is not readily accessible for visual inspection? Yes_____ No_____ N/A_____	

Regulation	RCRA GENERATOR INSPECTION CHECKLIST (PART 722)	Violation
(725.296f)	f) In the event that an extensive repair has been conducted in accordance with subsection (e), submitted to the Agency within 7 days after returning the tank system to use, a certification by an IRPE stating that the repaired system is capable of handling hazardous wastes without release for the intended life of the system? Yes_____ No_____ N/A_____ **Note:** If the owner/operator does not satisfy the requirements of subsections (e)(2) through (e)(4), the tank system must be closed in accordance with Section 725.297.	
(725.297a)	At the time of closure of a tank system, has the owner/operator removed or decontaminated all waste residues, contaminated components, contaminated soils and structures and equipment and managed them as hazardous waste [unless Section 721.103(d) applies]? Yes_____ No_____ N/A_____	
(725.297a)	Have the closure plan, closure activities, cost estimates for closure and financial responsibility for tank systems met all requirements specified in Subparts G and H? Yes_____ No_____ N/A_____	
(725.297b)	If the tank system cannot be "clean" closed, has the owner/operator closed the tank system and performed post-closure care in accordance with the closure and post-closure care requirements that apply to landfills (Section 725.410)? Yes_____ No_____ N/A_____ **Note:** Such a tank system is considered a landfill and must meet all of the requirements of landfills specified in Subparts G and H.	
(725.298a)	Are ignitable or reactive wastes placed in a tank system? Yes_____ No_____ N/A_____ If "No", skip to Section 725.299. Is the waste treated, rendered or mixed before or immediately after placement in the tank system so that: – the resulting waste, mixture or dissolved material is no longer ignitable or reactive? Yes_____ No_____ N/A_____ – Section 725.117(b) is complied with? Yes_____ No_____ N/A_____ or Is the waste accumulated or treated so that it is protected from any material or conditions which may lead to ignition or reaction? Yes_____ No_____ N/A_____ or Is the tank used solely for emergencies? Yes_____ No_____ N/A_____	
(725.298b)	Is the facility complying with the requirements regarding maintenance of protective distances between the waste management area and any public ways, streets, alleys or any adjoining property line? Yes_____ No_____ N/A_____	
(725.299)	Are incompatible wastes/materials placed in the same tank? Yes_____ No_____ N/A_____ If "No", skip to Section 725.300. Is Section 725.117(b) being complied with? Yes_____ No_____ N/A_____ Has the tank system been properly decontaminated if it previously held an incompatible waste/material unless Section 725.117(b) is complied with? Yes_____ No_____ N/A_____ COMMENTS:	

Regulation	RCRA GENERATOR INSPECTION CHECKLIST (PART 722)	Violation
	SUBPART C: PREPAREDNESS AND PREVENTION	
(725.131)	Is the facility being operated and maintained to minimize the possibility of a fire, explosion or any release of hazardous waste or hazardous waste constituents which could threaten human health or the environment? Yes ✓ No ____ N/A ____	
(725.132)	Is the facility equipped with the following, if necessary: a) an internal communication or alarm system(s)? Yes ✓ No ____ N/A ____ b) a telephone or other device to summon emergency assistance from local authorities? Yes ✓ No ____ N/A ____ c) portable fire extinguishers, fire control equipment, spill control equipment and decontamination equipment? Yes ✓ No ____ N/A ____ d) water at adequate volume and pressure for fire control? Yes ✓ No ____ N/A ____	
(725.133)	Is the facility testing and maintaining communication/alarm system(s), fire protection equipment, spill control equipment and decontamination equipment? Yes ✓ No ____ N/A ____	
(725.134)	a) Where hazardous waste is being handled, do all employees have immediate access to an internal alarm or other emergency communication device? Yes ✓ No ____ N/A ____ b) If there is ever just one employee on the premises when the facility is operating, does he/she have immediate access to a device capable of summoning external emergency assistance? Yes ____ No ____ N/A ✓	
(725.135)	Is the facility maintaining adequate aisle space? Yes ✓ No ____ N/A ____	
(725.137)	Has the facility attempted to make the following arrangements, as appropriate, for the type of facility and waste: – arrangements with local emergency authorities (i.e. police and fire departments, other emergency response agencies) to familiarize them with the layout of the facility, properties of hazardous waste handled, places where facility personnel would be working, entrances to roads inside the facility and evacuation routes? Yes ✓ No ____ N/A ____ – agreements designating the primary authority where more than one police or fire department might respond? Yes ✓ No ____ N/A ____ – agreements with State emergency response teams, contractors and equipment suppliers? Yes ✓ No ____ N/A ____ – arrangements to familiarize local hospitals with the properties of hazardous waste handled at the facility and the type of injuries or illnesses which could result from fires, explosions or releases at the facility? Yes ✓ No ____ N/A ____	
	SUBPART D: CONTINGENCY PLAN AND EMERGENCY PROCEDURES	
(725.151a)	Is the contingency plan available? Yes ✓ No ____ N/A ____ If "No", skip to Section 725.155. Is the plan designed to protect human health and the environment from releases to the air, soil and water? Yes ____ No ____ N/A ____	
(725.151b)	Has there been a fire, explosion or release of hazardous waste? Yes ____ No ✓ N/A ____ If "Yes", has the contingency plan been carried out immediately? Yes ____ No ____ N/A ✓	
(725.152a)	Does the plan describe the actions required for response to: – fires? Yes ✓ No ____ N/A ____ – explosions? Yes ✓ No ____ N/A ____ – releases? Yes ✓ No ____ N/A ____	

Regulation	RCRA GENERATOR INSPECTION CHECKLIST (PART 722)	Violation
(725.152c)	Does the plan describe arrangements with: – police and fire departments? Yes ✓ No ___ N/A ___ – hospitals? Yes ✓ No ___ N/A ___ – contractors? Yes ✓ No ___ N/A ___ – emergency response teams? Yes ✓ No ___ N/A ___	Base has its own fire dept., police and hospital
(725.152d)	Does the plan contain the current emergency coordinator's name, phone (office and home) and address? Yes ✓ No ___ N/A ___	
(725.152e)	Does the plan identify all emergency equipment including: – description? Yes ✓ No ___ N/A ___ – capability? Yes ✓ No ___ N/A ___ – location? Yes ✓ No ___ N/A ___ Is the list of emergency equipment up-to-date? Yes ✓ No ___ N/A ___	
(725.152f)	Does the plan include: – an evacuation plan? Yes ✓ No ___ N/A ___ – an evacuation signal? Yes ✓ No ___ N/A ___ – alternate evacuation routes? Yes ✓ No ___ N/A ___	
(725.153)	Has the contingency plan (including all revisions) been: a) maintained at the facility? Yes ✓ No ___ N/A ___ b) submitted to: – police department? Yes ___ No ___ N/A ___ – fire department? Yes ___ No ___ N/A ___ – hospital? Yes ___ No ___ N/A ___ – emergency response teams? Yes ___ No ___ N/A ___	
(725.154)	Has the contingency plan been reviewed and revised whenever: a) regulations are revised? Yes ___ No ___ N/A ___ b) the plan fails in an emergency? Yes ___ No ___ N/A ✓ c) the facility changes in a way that modifies the emergency response necessary? Yes ___ No ___ N/A ___ d) information regarding emergency coordinators changes? Yes ___ No ___ N/A ___ e) information regarding equipment changes? Yes ___ No ___ N/A ___	
(725.155)	Is the emergency coordinator on-site or on call at all times? Yes ✓ No ___ N/A ___ Is the emergency coordinator familiar with all facility activities, wastes, records, layout and contingency plan? Yes ✓ No ___ N/A ___ Does the emergency coordinator have the authority to commit the resources needed to carry out the actions specified in the contingency plan? Yes ✓ No ___ N/A ___	
(725.156)	If the facility has had a release, fire or explosion, have the procedures of this Section been followed regarding assessment, response and reporting? Yes ___ No ___ N/A ✓ **Note:** If the facility has had a release, explain in detail.	

Regulation	RCRA GENERATOR INSPECTION CHECKLIST (PART 722)	Violation
(725.116a)	**Section 725.116 Personnel Training** Does the facility have a training program? Yes ✓ No N/A Have facility personnel successfully completed a program of classroom or on-the-job training that teaches them to perform their duties in a way that ensures the facility's compliance with the requirements of Part 725? Yes ✓ No N/A Is the program directed by a person trained in hazardous waste management procedures? Yes ✓ No N/A Does the program teach facility personnel hazardous waste management procedures (including contingency plan implementation) relevant to the positions in which they are employed? Yes ✓ No N/A Does the program cover, at a minimum: – procedures to familiarize facility personnel with emergency procedures, emergency equipment and emergency systems? Yes ✓ No N/A – procedures for using, inspecting, repairing and replacing facility emergency and monitoring equipment? Yes ✓ No N/A – key parameters for automatic waste feed cut-off systems? Yes No N/A ✓ – communications or alarm systems? Yes ✓ No N/A – response to fire or explosions? Yes ✓ No N/A – response to groundwater contamination incidents? Yes No N/A – shutdown of operations? Yes No N/A	
(725.116b)	Have new employees completed the program within 6 months of the date of employment or assignment to a position requiring them to manage hazardous waste? Yes ✓ No N/A	
(725.116c)	Have facility personnel received an annual review of the initial training? Yes ✓ No N/A	
(725.116d)	Are the following documents and records being maintained at the facility: 1) the job title for each position related to hazardous waste management and the name(s) of the employee(s) filling each job? Yes ✓ No N/A 2) a written job description for each position above, including the requisite skill, education or other qualifications and duties of personnel assigned to each position? Yes ✓ No N/A 3) a written description of the type and amount of both initial and continuing training that will be given to each person filling a position dealing with hazardous waste management? Yes ✓ No N/A 4) records documenting that the training or job experience has been given to and completed by facility personnel? Yes ✓ No N/A	
(725.116e)	Is the facility maintaining training records until closure of the facility and those of former employees for at least 3 years from the last date of employment? Yes No N/A	

Waste, Pesticides and Toxics Division

Type of Document:
- ☐ Notice of Violation and Inspection Report/Checklist
- ☒ No Violation Letter and Inspection Report/Checklist
- ☐ Letter of Acknowledgment
- ☐ Information Request
- ☐ Pre-Filing and Opportunity to Confer
- ☐ State Notification of Enforcement Action

Facility Name : Scott AFB

Facility Location: 701 Hangar Rd.

City: Scott AFB **State:** IL

U.S. EPA ID# IL7 570 024 177

Assigned Staff M. Valentino **Phone:** 886-4582

Name	Signature	Date
Author	Michael Valentino	3-18-05
Regional Counsel		
Section Chief	Lorna M. Jang	3/21/05
Branch Chief		

Directions/Request for Clerical Support:

After the Section Chief/Branch Chief signs this sheet and original letter:

1. Date stamp the cover letter;
2. Make four copies of the contents of this folder:
   - One copy for the assigned staff;
   - One copy for the section file;
   - One copy for the branch file; and
   - One copy for the official file.
3. Make any additional copies for cc's or bcc's.
4. Mail the original certified mail and distribute office copies and cc's and bcc's.
   Once the certified mail receipt is returned:
5. File the certified mail receipt (green card), with this sign-off sheet and the official file copy, and take to 7th floor RCRA file room;
6. E-mail staff the date that the letter was received by facility.

Regulation	RCRA GENERATOR INSPECTION CHECKLIST (PART 722)	Violation
	Section 728.107 Waste Analysis and Recordkeeping	
[redacted].107a4)	Has the generator who treats a prohibited waste in tanks or containers in order to meet the treatment standards developed and followed a waste analysis plan? Yes_____ No_____ N/A_✓_	
	Is the plan on-site? Yes_____ No_____ N/A_____	
	Does the plan include a detailed physical and chemical analysis? Yes_____ No_____ N/A_____	
	Has the plan been filed with the Agency at least 30 days prior to commencement of treatment activity? Yes_____ No_____ N/A_____	
	Has the generator submitted the required notification and certification that the waste meets treatment standards when the waste is shipped off-site? Yes_____ No_____ N/A_____	
	Section 722.134 Satellite Accumulation	
722.134(c)	Is the generator who accumulates hazardous waste at or near any point of generation where wastes initially accumulate and which is under the control of the operator of the process generating the waste722.134(c) limiting such accumulation to 55 gallons of hazardous waste or 1 quart of acutely hazardous waste marking the containers with the words "Hazardous Waste" or other words identifying the contents? Yes_✓_ No_____ N/A_____	722.134(c)
	Has the generator who accumulates more than 55 gallons of hazardous waste or 1 quart of acutely hazardous waste complied with the requirements of Section 722.134(a) within 3 working days? Yes_✓_ No_____ N/A_✓_	
	If there are more than 55 gallons of hazardous waste or 1 quart of **acutely** hazardous waste in the satellite accumulation area, are the containers marked with the date accumulation began? Yes_✓_ No_____ N/A_____	
	During the 3 day period, is the generator continuing to comply with the requirements of Section 722.134(c)(1) with respect to the excess waste? Yes_____ No_____ N/A_____	
	SUBPART D: RECORDKEEPING AND REPORTING	
	Section 722.140 Recordkeeping	
722.140(a)	Has the generator retained for a period of 3 years: – a copy of each signed manifest? Yes_✓_ No_____ N/A_____	722.140(a)
722.140(b)	Has the generator retained a copy of each Annual Report and Exception Report for a period of at least three years from the due date of the report (March 1)? Yes_____ No_____ N/A_____	722.140(b)
722.140(c)	Has the generator retained for a period of 3 years: – copies of test results, waste analyses or other determinations made in accordance with Section 722.111? Yes_✓_ No_____ N/A_____	722.140(c)
722.140(d)	Does a generator who is involved in any unresolved enforcement action or as requested by the Director continue to maintain the records required in subsections a) and c)? Yes_____ No_____ N/A_✓_	722.140(d)
	Section 722.141 Annual Reporting	
722.141(a)	Has the generator who ships hazardous waste off-site for treatment, storage or disposal filed an annual report with the Agency by March 1 for the preceding calendar year? Yes_✓_ No_____ N/A_____	722.141(a)
	Note: If "No", or if deficiencies are noted with the annual report reviewed, contact the Planning and Reporting Section.	
722.141(b)	Has the generator who treats, stores or disposes of hazardous waste on-site, filed an annual report with the Agency by March 1 for the preceding calendar year? Yes_✓_ No_____ N/A_____	722.141(b)

Regulation	RCRA GENERATOR INSPECTION CHECKLIST (PART 722)	Violation
722.142(a)(1)	**Section 722.142 Exception Reporting** If the generator has not received a copy of the manifest from the TSD facility within 35 days of the date of delivery to the transporter, has the generator contacted the transporter or the TSD facility to determine the status of the hazardous waste? Yes_____ No_____ N/A ✓	722.142(a)(1)
722.142(a)(2)	If the generator has not received a copy of the signed manifest within 45 days of the date of delivery to the transporter, has he filed an exception report with the Agency in accordance with the requirements of this Section? Yes_____ No_____ N/A ✓	722.142(a)(2)
722.143	**Section 722.143 Additional Reporting** Has the generator furnished additional reports as required by the Director? Yes_____ No_____ N/A_____	722.143
	SUBPART E: EXPORTS OF HAZARDOUS WASTE Is the generator an exporter of hazardous waste? Yes_____ No ✓ N/A_____ If "Yes", has the generator complied with the requirements of Subpart E? Yes_____ No_____ N/A_____	
	SUBPART F: IMPORTS OF HAZARDOUS WASTE Is the generator an importer of hazardous waste? Yes_____ No ✓ N/A_____ If "Yes", has the generator complied with the requirements of Subpart F? Yes_____ No_____ N/A_____	
	SUBPART G: FARMERS Is the generator a farmer? Yes_____ No ✓ N/A_____ If "Yes", has the generator complied with the requirements of Subpart G? Yes_____ No_____ N/A_____	
	COMMENTS:	

TM:jab\722gen2.wpd

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CHICAGO IL 60604
ATTN MICHAEL VALENTINO

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1. Article Addressed to:

RAYMOND J OTTMAN COL USAF
375TH AIRLIFT WING CC
101 HERITAGE DRIVE SUITE 375
SCOTT AFB IL 62225

COMPLETE THIS SECTION ON DELIVERY

A. Received by *(Please Print Clearly)* SHARNITA MASTERMAN

B. Date of Delivery 25 March

ature Shanita Masterman

☐ Agent
☐ Addressee

y address different from item 1? ☐ Yes
nter delivery address below: ☐ No

3. Service Type
☒ Certified Mail ☐ Express Mail
☐ Registered ☒ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? *(Extra Fee)* ☐ Yes

2. Article Number
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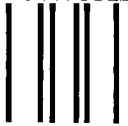

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IL 7570024177

1. Article Addressed to:

KEVIN E JACOBS MAJOR
ENVIRONMENTAL MANAGER
ILLINOIS AIR NATIONAL GUARD
126TH AIR REFUELING WING
146 AIR GUARD WAY
SCOTT AFB IL 62225

COMPLETE THIS SECTION ON DELIVERY

A. Received by *(Please Print Clearly)* | B. Date of Delivery

ature

☐ Agent
☐ Addressee

address different from item 1? ☐ Yes
er delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☒ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? *(Extra Fee)* ☐ Yes

2. Article Number
(Transfer from service label) 7001 0320 0006 1563 0257

PS Form 3811, March 2001 Domestic Return Receipt 102595-01-M-1424

SENDER: *COMPLETE THIS SECTION*

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

KEVIN E JACOBS MAJOR
ENVIRONMENTAL MANAGER
ILLINOIS AIR NATIONAL GUARD
126TH AIR REFUELING WING
346 AIR GUARD WAY
SCOTT AFB IL 62225

COMPLETE THIS SECTION ON DELIVERY

A. Received by *(Please Print Clearly)* MAJ [illegible]

B. Date of Delivery 31 Oct

C. Signature

☐ Agent
☐ Addressee

address different from item 1? ☐ Yes
er delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☒ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? *(Extra Fee)* ☐ Yes

2. Article Number
(Transfer from service label) 7001 0320 0006 1448 3885

PS Form 3811, March 2001 Domestic Return Receipt 102595-01-M-1424

RCRA RECORDS CENTER DOCUMENT REQUEST

Requestor's Name: _____ Date: _____

Title: _____ Location: _____

Signature: _____ Phone: _____

Please Print

Site Name: _____

EPA ID #: _____ Manager/ORC's Approval: _____

Requested Documents:

Notification:___ Part A:___ Part B:___ Compliance:____ Corrective Action:____ File Review: ___

Other, please describe: _____

_____

Request Priority: Regular: _____ High: _____ Low: _____ Date Needed: _____

Files Checked Out:

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_____

Checked: Active Sites:____ Notification: ____ Circulation:____ New Material: ____ Microfilm: _____

Taken From: Active Sites:___ Notification:____ Circulation:____ New Material:____ Microfilm: ____

Action Taken: Checked out: _____ Reviewed: _____ Copied: _____ File Review: _____ No Such File _____ File is Out _____

Comments: _____

Staff Assignee: _____ Date Returned: _____

Completion Date: _____ All Files Returned: YES NO

Called Requestor: _____

_____

State of Illinois
ENVIRONMENTAL PROTECTION AGENCY

Mary A. Gade, Director
217/785-8604
TDD 217/782-9143

2200 Churchill Road, Springfield, IL 62794-9276

RECEIVED
NOV 1 9 1997
DIVISION FRONT OFFICE
Waste, Pesticides & Toxics Division
U.S. EPA – REGION 5

November 6, 1997

Scott Air Force Base
375 CES/CEV
Attn: Don Kolinsberg, Env. Flight Chief
701 Hanger Road
Scott Air Force Base, IL 62225-5035

Re: 1630105014 -- St. Clair County
Belleville / Scott Air Force Base
IL7570024177
Compliance File

Dear Mr. Kolinsberg:

On May 21, 1997, your facility was inspected by Chris Cahnovsky and Gina Search of the Illinois Environmental Protection Agency. The purpose of this inspection was to determine your facility's compliance with 35 Illinois Administrative Code, Part 722, Subparts A through G; Part 728, Subparts A through E and Part 739, Subparts A through C. At the time of the inspection, no apparent violations of the requirements addressed as part of the inspection were observed.

For your information a copy of the inspection report is enclosed. Should you have any questions regarding the inspection, please contact Chris Cahnovsky at 618/346-5120.

Sincerely,

David C. Jansen, Acting Manager
Field Operations Section
Bureau of Land

DJC:CNC:dv71103-1.wp1

Enclosure

cc: Mike Ribordy - USEPA Region V

SEP 2 0 1991

5HR-12

Glen Savage, Manager
Field Office Section
Department of Land Pollution Control
Illinois Environmental Protection Agency
2200 Churchill Road
Springfield, Illinois 62706

Re: Scott Air Force Base
IL7 570 024 177

Dear Mr. Savage:

Please find enclosed a copy of a RCRA inspection report. This inspection was conducted by the Environmental Services Divsison at the above-referenced facility.

If you have any questions or concerns please contact Barbara Russell of my staff at (312) 353-7922.

Sincerely yours,

Paul E. Dimock, Chief
IL/MI/WI/Enforcement Program Section

Enclosure

cc: William Radlinski, (w/o enclosure)

B.RUSSELL:ev:09/18/91:disk # Filename:Re-SAFB

SIGNATURE/INITIAL CONCURRENCE REQUESTED - RCRA ENFORCEMENT BRANCH (REB)									
TYP.	AUTH	IL/IN TES CHIEF	MI/WI TES CHIEF	MN/OH TES CHIEF	IL/MI/WI EPS CHIEF	IN/MN/OH EPS CHIEF	REB BRANCH CHIEF	RCRA ASSOC. DIR.	WMD DIVISION DIRECTOR
9/19/91	9/19/91				PCD 9.20.91				

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: JUN 28 1991

SUBJECT: RCRA Compliance Evaluation Inspection (CEI) at Scott Air Force Base, Belleville, Illinois (IL7570024177) (AGD102:I1)

FROM: Gerald R. Golubski, Environmental Engineer
Central District Office (5SCDO)

TO: William E. Muno, Chief
RCRA Enforcement Branch (5HR)

THRU: Willie H. Harris, Chief
Central District Office (5SCDO)

On May 9, 1991, a RCRA inspection was conducted at this federal facility. This inspection was part of a multi-media inspection that was completed there during that week. The results of each media evaluated were forwarded to the appropriate divisional offices of the U.S. EPA. The facility was represented by Captain Walter Anderson, Environmental Coordinator, and by Lt. Marie Kokotajlo, Environmental Specialist. Also present was Sgt. Rodney Brown who is assigned to the environmental programs office at the Base. Credentials were presented at the initial point of contact with these aforementioned individuals.

Prior to this inspection, the Illinois EPA was notified that an inspection was to take place at this time however, they did not participate.

Background

Scott Air Force Base (SAFB) is a U.S. Air Force military installation, located near Belleville, Illinois, 25 miles east of downtown St. Louis, Missouri, adjacent to Interstate 64. The base covers an area of 2,640 acres. The primary mission at SAFB is to provide medical evacuation capabilities through the 375th Aeromedical Airlift Wing and to serve as Headquarters Command to U.S. Air Force Military Airlift Command (MAC). Located at SAFB are U.S. Transportation Command, Air Force Communications Command, Headquarters Air Weather Service, and two military reserve units - 932nd Air Force Reserve and 102nd Army Reserve. This installation employs approximately 9000 personnel, of which 50% are civilian employees and 50% are military employees.

Hazardous Waste Generation

Hazardous wastes are generated through aircraft and vehicle maintenance, painting and printing activities and disposal of contaminated jet fuels (JP-4), mineral oils, antifreeze and degreasing solvents. Attached to this report is a copy of the facility's 1990 annual RCRA report as filed with the State of Illinois. That report indicates that they mostly generate combustible liquids (waste petroleum naphtha D001) and waste paint related items (F001 through F005). Also generated in small quantities are used batteries, battery acids (from vehicle maintenance) and cleaning solutions. The facility is regulated as a generator and TSD. However, only storage activities are permitted. No treatment or disposal activities are allowed.

Recent Compliance History

May 19, 1990 U.S. EPA Inspection

During last years U.S. EPA inspection numerous container storage deficiencies were noted. Namely, the Aqua yard storage yard had 84 drums of Hazardous Waste when they were only permitted to store 36 drums. Several drums were in poor condition (725.273), and were not properly labeled (722.134(a)(3) or had appropriate accumulation dates (722.134(a)(2)). Also, since many of the drums contents were not fully analyzed their incompatibility classification and separation were uncertain (725.117).

At the time of this most recent U.S. EPA inspection no hazardous waste drums were in storage. The Aqua yard was cleared of all drums as part of their closure at the site (A discussion as to these closure activities will be discussed later in this report).

September 7, 1990 Illinois EPA Inspection

On September 7, 1990, Mr. Jeff Schoenbacher of the Illinois EPA conducted a follow-up inspection of this federal facility. That inspection was pursuant to their Agency's July 24, 1990 Compliance Inquiry Letter which detailed several RCRA violations. As a result many of the listed violations were corrected by the time of the re-inspection that occurred two months later. Namely:

1. Excess of accumulation of hazardous wastes at the CAMS satellite accumulation area (722.134c) was reduced from four drums to only one 55 gallon drum.

2. The numerous drums of Hazardous Wastes that were stored in the Aqua yard TSD, that lacked proper identification (723.113a), were successfully analyzed by Reclamation Unlimited Service of Madisonville, Kentucky.

3. In July 1990, the Basè's printing office was observed to have excess accumulation of Hazardous Waste drums which contained developer solutions, as well as blanket wash and finisher solutions. However, shipping manifest indicated that these drums were later shipped offsite to Special Waste Incorporated located in Athens, Tennessee.

4. Two leaking drums were observed in the July 1990 Illinois EPA inspection at the Aqua yard (725.271). These drums were placed in overpack drums as witnessed in the September inspection.

5. Many of the drums in the Aqua yard were not properly analyzed (725.277). Therefore, the facility was unable to distinguish incompatibility class. By September 1990, all drums were analyzed.

6. Since most of the Hazardous Wastes in the Aqua yard were not analyzed in July 1990 a proper Land Disposal Restriction determination (728.107a) was not made. However, since the wastes were later analyzed this violation was therefore corrected.

   A copy of the actual Illinois EPA inspector's report is attached to this report for your review.

Closure

In an effort to eliminate the RCRA requirements of operating a TSD storage facility, Scott AFB is currently in the process of closing its TSD storage area at the Aqua yard. A closure plan was submitted to the Illinois EPA. Pursuant to that request on May 1, 1991 that regulatory agency responded with several detailed conditions and modification of the closure plan (see attached Letter).

Essentially, the Illinois EPA requires that closure activities must be completed by November 15, 1991 under the direction of an independent registered professional engineer (registered in Illinois). Also, all closure activities (including tests performed) must be submitted to the Illinois EPA prior to acceptance of closure. A detailed list of each activity is fully described in the attached letter from the Illinois EPA.

Generator Activities

Pursuant to the closure of the Aqua yard, the facility is attempting to remain solely as a RCRA generator (storage of Hazardous Waste less than 90 days on Base). However, in the past, such efforts have not been fully successful. Historically, Scott AFB was unable to have complete analysis of their hazardous waste in a timely manner. Routinely, hazardous waste were initially placed in the Aqua yard and a sample was mailed to Brooks Air Force Base in Texas for analysis. Unfortunately, the results were often times delayed for weeks or months. Thus, the Aqua yard would store these drums of wastes for many months. This resulted in an accumulation of drums beyond their 36 drum permitted limit. The analysis from Brooks AFB was necessary since any offsite shipment of waste must be processed by the Base's Defense Reutilization and Marketing Office (DRMO). The DRMO has a policy of not accepting or transporting any wastes without a complete analytical analysis.

In an effort to alleviate this backlog, Scott AFB has attempted to contract a local laboratory to perform this analytical service. Meanwhile, drums of hazardous waste are now being stored at Scott Air Force Base's Wastewater Treatment Plant.

New Storage Facility

As a result of the closure activities at the Aqua yard, the facility cannot store or accept hazardous waste at their permitted TSD. Instead, the facility has unilateral decided to place all Hazardous Wastes generated on the Base at an area inside the wastewater treatment plant (a sketch of the site is attached to this report). In summary, this unpermitted hazardous waste storage area has the following wastes.

1. Three overpack drums of hazardous wastes that were formally at the Aqua yard. These drums apparently were in poor condition thereby necessitating their placement in overpack containers.

2. Six 55 gallon drums of contaminated dirt. The dirt was containerized on October 24, 1990. The facility is still awaiting analytical results as to its contents.

3. Eight drums of "Tar" that was discovered in the woods last year. The analysis has not been completed according to Sgt. Brown.

4. Three 55 gallon drums containing an unknown substance (possibly waste paints). No accumulation date was affixed.

5. Three 55 gallon drums of waste oils were in storage. Again, no accumulation dates were apparent.

6. Six 55 gallon drums of waste isopropyl alcohol with an accumulation date of April 30, 1990.

7. Two 55 gallon drums labeled waste paint were also located along the fence line. No accumulation dates were noted.

   A detailed listing of each drum as prepared by the facility is attached to this report.

Shipping Manifest

A review of 1990 RCRA shipping manifest was completed at the DRMO office located on Base. In summary, the manifest appeared to be in order. All three signatures were in place. Appropriate Land Ban notification sheets were attached as necessary. The manifests apparently were returned in a timely manner. Their were no outstanding shipments made in 1990 that have not been signed and returned according to Mr. Walt Lange, the DRMO representative.

1991 RCRA Shipments

According to Mr. Lange, due to poor RCRA contractor performance in 1991 no RCRA offsite shipments have been made this year. The Defense Logistic Agency (DLA) is now in the process of revoking their existing hazardous waste contract. They plan to award this service contact to another waste management company. Meanwhile, the drums of hazardous waste at the wastewater treatment plant remain in an unpermitted storage site.

Training

Scott AFB provides annual RCRA training to those Airport personnel who are actively engaged with the management of Hazardous Wastes. According to facility records (see attachment) Annual RCRA Training occurred both on April 13, 1990 and again on November 10, 1990. The contents of this training course is also provided in the attachment. In addition, Sgt. Rodney Brown completed a course of RCRA instruction on February 8, 1991. Other environmental training completed last year is attached to this report for your review. Please note that Lt. Kokotajlo, has not received any RCRA training, however, she is not involved in the management of RCRA activities. Moreover, she is expected to be shipped overseas within the next few weeks (Guam Island in the Pacific).

In summary, the RCRA training at the facility appears to be adequate.

Waste Minimization

In an effort to minimize waste disposal, the facility routinely employees the services of Safety Kleen for recycling used solvents at their parts washer. During 1990 they picked up 526 gallons of flammable liquids (F005), 3,648 gallons of waste petroleum naphtha (D001), and 50 gallons of liquid cleaning compounds (D006, D007, D018).

An Illinois EPA RCRA Inspection report form is attached. Meanwhile, if you have any questions concerning this inspection, please call me at 886-1968.

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 375TH AIR BASE GROUP (MAC)
SCOTT AIR FORCE BASE, ILLINOIS 62225

12 OCT 1990

REPLY TO ATTN OF: DE

SUBJECT: Update on Notice of Violation, Scott Air Force Base, IL570 024 177

TO: United States Environmental Protection Agency
Region 5
230 South Dearborn St
Chicago, Illinois 60604

1. The following information is provided to update the corrective actions being taken on those items identified during the inspection conducted on 24 May 89:

Items a6, b1, b2, b5, b6. The hazardous waste analysis contract was awarded on 12 Jul 90. The contractor began work on 18 Jul 90, taking samples on both 18 and 19 Jul 90. The results were available by 8 Aug 90, however, after a complete review of the analysis data, certain test results specified had not been provided. The contractor was contacted about the missing results and provided complete analysis results by 20 Aug 90. We processed the analysis reports and requested disposal documents through base supply and received the disposal documents on 24 Aug 90.

2. The initial effort to turn in the waste to DRMO was made on 27 Aug 90, but additional work was required to replace bungs, plugs and valves and overpak drums. This was completed by 29 Aug 90, and we began turn-in of drums on that day. There were over 150 drums to turn in and the process extended until 19 Sep 90. Based on the 45-day pick-up for DRMO, the waste should be removed not later than 31 Oct 90.

3. Please appreciate that we have been faced with several high priority taskings during this period and still continued to aggressively pursue the proper disposal of our waste. Our expected date for removal has slipped a few weeks due to unforeseen difficulties, but we are very close to achieving our goal of proper removal and disposal of all the waste identified. If you have any additional questions, please contact our Environmental Coordinator, Capt Lanctot, (618) 256-2092.

ROGER J. GIRARD, Colonel, USAF
Base Civil Engineer

cc: HQ MAC/DEV
375 CSG/JA
DRMO/XCL
375 CSG/CC

RECEIVED
OCT 5 - 1990
OFFICE OF
Waste Management

Illinois Environmental Protection Agency · P. O. Box 19276, Springfield, IL 62794-9276

217/782-6762

17 SEP 1990

Refer to: 1630100015 -- St. Clair County
Scott Air Force Base
ILD7570024177
Compliance File

September 20, 1990

Scott Air Force Base
ATTN: Colonal John R. Wingfield, III Base Commander
375 CSG/CC
Scott AFB, Illinois 62225-5001

Dear Colonal Wingfield:

On September 7, 1990 your facility was inspected by Jeff Schoenbacher of the Illinois Environmental Protection Agency. The purpose of this follow-up inspection was to determine your facility's compliance status with respect to the apparent violations cited in the July 24, 1990 Compliance Inquiry Letter. During the inspection it was determined that the apparent violation(s) of Section(s) 722.134(c), 725.113(a), 725.114(a/b), 725.114(c), 725.271, 725.277(c) and 728.107(a) were satisfactorily resolved.

If you have any questions, please contact Mike Grant at 618/346-5120.

Sincerely,

Bill Radlinski
CLN

E. William Radlinski, Manager
Planning and Reporting Section
Division of Land Pollution Control

EWR:MG:CLN:dls/3294n/93

cc: Division File
Collinsville Region
Chris Nifong
Bruce Carlson
William L. Cox

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: AUG 06 1990

SUBJECT: RCRA Compliance Evaluation Inspection (CEI) at Scott Air Force Base, Belleville, Illinois (IL7570024177) (AGD205:MA)

FROM: Gerald R. Golubski, Environmental Engineer GRG
Central District Office (5SCDO)

TO: William E. Muno, Chief
RCRA Enforcement Branch (5HR)

THRU: Willie H. Harris, Chief WHH
Central District Office (5SCDO)

During the week of May 19, 1990, a RCRA inspection was conducted at this federal facility. This inspection was part of a multi-media inspection that was completed there during that week. The results of each media evaluated were forwarded to the appropriate divisional offices of the U.S. EPA. The facility was represented by Captain Theresa Lanctot, Environmental Coordinator and Mr. Dan Schloesser, Chief of Scott AFB's Environmental and Contract Planning Division. The Illinois EPA (Collinsville Office) was notified prior to this inspection, however, they did not participate.

Background (per 1989 U.S. EPA RCRA Report)

Scott Air Force Base (SAFB) is a U.S. Air Force military installation, located in Belleville, Illinois, 25 miles east of downtown St. Louis, Missouri, adjacent to Interstate 64. The base covers an area of 2,640 acres. The primary mission at SAFB is to provide medical evacuation capabilities through the 375th Aeromedical Airlift Wing and to serve as Headquarters Command to U.S. Air Force Military Airlift Command (MAC). Located at SAFB are U.S. Transportation Command, Air Force Communications Command, Headquarters Air Weather Service, and two military reserve units - 932nd Air Force Reserve and 102nd Army Reserve. This installation employs approximately 9000 personnel, of which 50% are civilian employees and 50% are military employees.

Hazardous wastes are generated through aircraft and vehicle maintenance, painting and printing activities and disposal of contaminated jet fuels (JP-4), mineral oils, antifreeze and degreasing solvents. Attached to this report is a copy of the facility's annual RCRA report as filed with the State of Illinois. That report indicates that they mostly generate combustible liquids (waste petroleum naphtha D001) and waste paint related items (F001 through F005). Also generated in small quantities are used batteries, battery acids (from vehicle maintenance) and cleaning solutions. The facility is regulated as a generator and TSD. However, only storage activities are permitted. No treatment or disposal activities are allowed.

Satellite Accumulation Areas

The facility has identified nine areas on base where hazardous wastes are accumulating in a drum which is under the control of an operator (or alternate). These areas include the spray booths and wheel cleaning station located at Building 441, as well as their storage shed located outside that building. Other areas of generation include an Aerospace Ground Equipment (AGE) and Jet Engine Shop were various oils and contaminated JP-4 fuels are generated. The Non-Destructive Inspection Shop located in Building 3665 will on occasion generate very small quantities of a fluorescent penetrate. The battery shop (at automobile maintenance) generates both crankcase oils and battery acids. The photo lab located in Building 700 has in the past generated photo chemical fixers. Building 3184 generates used JP-4 as part of their refueling activities. Building 584 is strictly a automobile maintenance shop where waste antifreeze, gasolines and waste motor oils are generated. The paint shop located in Building 532 has generated mineral spirits in the past, however, that product is sold to a local recycler as soon as it is generated.

At the time of this inspection (May 19, 1990) Building 441 had appropriate hazardous waste signs posted, kept good weekly inspection sheets and had their drums properly labeled and stored closed.

The Aerospace Ground Equipment (AGE) Shop also had their waste drums properly labeled (waste antifreeze, waste JP-4 jet fuels, synthetic and petroleum base oils, etc.). No deficiencies were observed. Also no deficiencies were observed at the refueling maintenance building (Building 3184) or at the vehicle maintenance building (Building 584). No wastes were in storage at Building 3665 (non-destructive inspection shop), the battery shop, photo lab or paint shop building at the time of this inspection.

Safety Kleen

In an effort to minimize the amount of degreasing solvents that were stored at the base's central TSD (Aqua Yard) a service contract was awarded to Safety Kleen. Since the contract became effective in January 1989 and up to the time of this inspection (May 1990), they have picked up 4,080 gallons of waste petroleum naphtha (D001), 122 gallons of waste cleaning solvents (F002) and 672 gallons of waste paint related compounds (F003). The company makes two to three pick-ups per month.

Attached to this inspection report is a copy of the manifests as prepared by Safety Kleen since they were awarded the contract in January 1989. Please note that when F Solvent wastes were transported, a land ban notification was typed with the applicable treatment standards on the manifest. Whenever, such treatment standards were not typed on the original manifest, a "Notice of Land Disposal Restriction of Waste" was attached.

In summary, no manifest deficiencies were noted at the time of this inspection.

Aqua Yard TSD

During last years U.S. EPA inspection (May 23, 1989) numerous deficiencies were observed at the facility's Aqua Yard TSD. Subsequently, a notice of violation was issued detailing the following violations:

1. Unmarked hazardous waste drums in storage (as per 722.134(a)(3)).

2. Lack of accumulation dates on drums (as per 722.134(a)(2)).

3. Inadequate prevention of storing containers against leaks (as per 725.273).

4. Inadequate documentation of weekly inspections (as per 725.274).

5. Lack of an internal communications system (as per 725.132(a)(b)(c)).

6. Incompatible wastes were stored next to each other (as per 725.117).

At the time of this inspection, the following deficiencies were still apparent:

1. Although, the Aqua Yard is permitted to store only 36 drums (1980 gallons) of hazardous wastes, at the time of this inspection 84 drums of wastes were actually in storage.

2. Several drums showed signs of surface rust (probably due to rainwater collecting on their topsides) thus repeating the same deficiency as listed last year (725.273).

3. Several drums were not properly labeled with the words Hazardous Wastes (as per 722.134(a)(3)) and lacked the appropriate accumulation dates (as per 722.134(a)(2)).

4. Since the Aqua Yard had an excess accumulation of drums in storage, and that several drums were not labeled, it was uncertain at the time of the inspection that all drums were adequately separated as per incompatibility class (as per 725.117)).

It appears that the weekly inspections are now being completed in a timely manner, thus, the facility has corrected last years NOV Subpart 725.274. Also, the facility now has a telephone call box installed at the perimeter fence area, thereby, correcting the internal alarm system deficiency (as per 725.132(a)(b)(c)).

Analytical Service Contract

The excess storage of hazardous waste at the Aqua Yard is a direct consequence of the facility's inability to receive analytical information on it's waste in a timely manner. Currently, all drums are sampled and then analyzed at Brooks Air Force Base in Texas. The turn around time for an analysis takes several months. Due to the U.S. Air Force regulations, the on site Defense Reutilization Marketing Office (DRMO) cannot prepare a off site shipping manifest until the waste is fully described with an accompanying analysis report. Meanwhile, in this interim period the drums of hazardous wastes accumulate within the Aqua Yard.

In an effort to alleviate this problem, the Air Force plans to award an analytical service contract to a Laboratory near the base. The bid opening is scheduled for April 28, 1990. Captain Lanctot expects that a contract can be awarded by May 31, 1990 and the first analytical results could be received by the end of June. Offsite shipments of Hazardous Wastes from the Aqua Yard may occur as soon as this August according to her.

Hazardous Waste Management Plan

A draft copy of the facility's new Hazardous Waste Management Plan is attached. At the time of the inspection, the plan was being distributed on base for comments. Once the comments have all been received, the plan will be signed by the base commander and fully implemented.

The facility was cited last year for not having a current contingency plan (as per 725.155(a)), or listing of emergency personnel (as per 725.152(d)).

RCRA Training

Captain Lanctot completed a Hazardous Waste Management Course on March 2, 1990 (see attachment). Also receiving RCRA training was Mr. Jerry Conner who completed a course on October 17, 1989. Subsequently, they in turn train military and civilian employees who are involved with the management of hazardous wastes at the satellite accumulation areas. Attached is a copy of training records of individuals who were RCRA trained in March and April of this year. Their names (rank, if applicable), organizational unit and primary duties as a manager or alternate duty manager is listed on these training sheets. Upon reviewing the course syllabus in Captain Lanctot office, the RCRA training appears to be adequate.

DRMO

Once Scott AFB receive the analytical results on the waste stored in drums at the Aqua Yard, the DRMO can officially accept the waste for disposal. Attached are twelve completed and returned offsite shipping manifest of Hazardous Wastes that were shipped in 1990. Also, attached is an unreturned manifest (IL3242718) which was shipped offsite three

weeks earlier. It was explained to Captain Lanctot that a returned manifest (which was signed by the receiving TSD) must be received by next week, otherwise they would have to initiate an inquiry as to the reasons for the delay. Moreover, any late or lost manifest must be reported to the State after next week.

At the time of the inspection, the DRMO kept a complete set of RCRA manifests dating back several years. In summary, the manifests appeared to be complete. Appropriate Land Ban notifications (when required) were affixed to each manifest in the files. Please note, that although the first page of the 1990 manifest were copied, the land ban notifications, government disposal property sheets, analytical analysis and other internal memorandums that were associated with each shipment, were not copied, although, this information was reviewed with each manifest copied. In summary, no record keeping deficiencies were observed at the facility's DRMO office. The DRMO was reminded that all signed and returned manifest must be forwarded to Captain Lanctot within the same one month time period.

Operating Record

The facility maintains a good operating record at the Aqua Yard. Each drum is numbered within the TSD. Although, they have exceeded their permitted storage limits and they have both unlabeled and labeled drums, they do maintain an accurate drum log inventory. The drum inventory details the reported contents (although, not all the drums were analytically tested) and their point of origin. Once drums have been accepted for disposal by the DRMO and shipped offsite, the drum log inventory is updated with each occurrence.

Attached is a completed Illinois RCRA Checklist and Land Ban Checklist. Also provided are the attachments as described within the narrative of this report.

If you have any questions, please call me at 886-1968.

Attachments:

1. Illinois RCRA Checklist
2. Land Ban Checklist
3. Training Records
4. Annual Report (1989)
5. Safety Kleen Manifest for 1989-1990
6. DRMO Manifests for 1990
7. Hazardous Waste Management Plan

DEPARTMENT OF THE AIR FORCE

HEADQUARTERS 375TH AIR BASE GROUP (MAC)

SCOTT AIR FORCE BASE, ILLINOIS 62225

IL7570 024 177

2 JUL 1990

REPLY TO ATTN OF: DEEV (Capt Lanctot, (618-256-2092)

SUBJECT: Update on Notice of Violation, Scott Air Force Base, IL570 024 177

TO: United States Environmental Protection Agency
Region 5
230 South Dearborn St.
Chicago, Illinois 60604

1. The following information is provided to update the corrective actions being taken on those items identified during the inspection conducted on 24 May 89:

Items a6, b1, b2, b5, b6. The hazardous waste analysis contract was awarded on 12 Jul 90. The contractor will begin work on 18 Jul 90. The contract requires the laboratory results to be available not later than three weeks from the Notice to Proceed. We anticipate the results to be available by 8 Aug 90. The disposal contract requires 30-45 days for removal of the waste. So we anticipate the waste to be removed by 1 Oct 90.

2. We will continue to keep you updated on the status of the disposal of the waste. We continue to aggressively pursue the removal and proper disposal of this waste. If you have any additional questions, please contact our Environmental Coordinator, Capt Lanctot, (618) 256-2092.

Roger J. Girard

ROGER J. GIRARD, Colonel, USAF
Base Civil Engineer

cc: HQ MAC/DEV
375 CSG/JA
DRMO/XCL

RECEIVED
AUG 1 1990
OFFICE OF RCRA
Waste Management Division
U.S. EPA, REGION V

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 375TH AIR BASE GROUP (MAC)
SCOTT AIR FORCE BASE, ILLINOIS 62225

RECEIVED
4 JUN 1990
OFFICE OF RCRA
WASTE MANAGEMENT DIVISION
EPA, REGION V

REPLY TO ATTN OF: DEE (Capt Lanctot, 618-256-2092)

SUBJECT: Update on Notice of Violation, Scott Air Force Base, IL570 024 177

TO: United States Environmental Protection Agency
Region 5
230 South Dearborn Street
Chicago, Illinois 60604

1. The following information is provided to update the corrective actions being taken on those items identified during the inspection conducted on 24 May 89:

a. Items a6, b1, b2, b5, b6. To date, the hazardous waste analysis contract has not been awarded. Due to additional questions, the bid opening date was delayed to 27 April 90. The bids have been reviewed and a verification of bid sent to the low bidder. On 30 May, the verification was made by the low bidder and now the process of evaluating the qualifications of the low bidder will begin. We anticipate being able to award the contract by 15 June and having the contractor on site by 25 June. We will receive the analysis results by 16 July and the paperwork processed for the disposal contractor completed by 23 July. The disposal contractor has 45 days for pick up, and we anticipate the removal of the waste by 7 September 1990.

b. Item a7. A minimum of two inspections have been conducted at each satellite accumulation point and accumulation points. Current documentation in training records exists for all employees handling hazardous waste. There is no documentation for previous employees and for current employees for the past three years, since this training has only recently be accomplished. We will be unable to produce these records until the current program is in effect for three years.

2. We will keep you updated on the status of our analysis contract and disposal of the waste. Please appreciate that we are carefully reviewing the proposed contractors to ensure proper handling of the waste as well as compliance with EPA. If you require additional information or have any questions, please contact our Environmental Coordinator, Capt Lanctot, (618) 256-2092.

Mark D. Everett

MARK D. EVERETT, P.E.
Chief, Engrg & Envmtl Planning Br

DEPARTMENT OF THE AIR FORCE

HEADQUARTERS 375TH AIR BASE GROUP (MAC)

SCOTT AIR FORCE BASE, ILLINOIS 62225

4 APR 1990

RECEIVED
OFFICE OF RCRA
WASTE MANAGEMENT DIVISION
EPA, REGION V

REPLY TO ATTN OF: DEEV (Capt Lanctot, (618-256-2092)

SUBJECT: Update on Notice of Violation, Scott Air Force Base, IL570 024 177

TO: United States Environmental Protection Agency
Region 5
230 South Dearborn St.
Chicago, Illinois 60604

1. The following information is provided to update the corrective actions being taken on those items identified during the inspection conducted on 24 May 89:

a. Item a.3. The hazardous waste being stored in plastic 95-gallon overpak drums has been moved into 55-gallon steel drums. This work was accomplished 30 Mar 90.

b. Items a.6, b.1,2,5,6. The hazardous waste analysis contract award date has been delayed due to numerous questions from contractors. The site visit was conducted on 2 Apr 90, and the bid opening date is set for 16 Apr 90. We anticipate an award by 18 Apr 90 with the contractor on site obtaining samples by 1 May 90. The contract requires the analysis results to be available three weeks from the date the contractor is given notice to proceed. Again, the disposal contractor is given 45 days from the date the material is accepted to pick up the material for disposal. The earliest date we can anticipate removal of the waste is 15 Jun 90.

c. Item a.7. On 20 Mar 90, we conducted hazardous waste manager training and emphasized the documentation of the training records. Additionally, a letter addressing all the items identified in the inspection has been sent to all waste generating organizations informing them of the requirements to correct the items. Prior to 30 Apr 90, inspections will be conducted at each point of generation to ensure that the training records have been documented for all employees handling hazardous waste. We will forward verification that the documentation has been completed upon completion of the inspections.

d. Items a.8, and a.9. The attached letter from USEPA verifies the receipt of our Spill Prevention, Control and Countermeasure (SPCC) Plan.

2. If you require additional information or have any questions, please contact our Environmental Coordinator, Capt Lanctot, (618) 256-2092.

Mark D. Everett

MARK D. EVERETT, P.E.
Chief, Engrg & Envmtl Planning Br

2 Atch
1. 375 MAW Policy Letter
2. USEPA Ltr, 15 Mar 90

cc: HQ MAC/DEV
375 CSG/CC

DEPARTMENT OF THE AIR FORCE

HEADQUARTERS 375TH AEROMEDICAL AIRLIFT WING (MAC)

SCOTT AIR FORCE BASE, ILLINOIS 62225

REPLY TO ATTN OF: CC

SUBJECT: 375 MAW Environmental Policy

TO: 375 MAW STAFF (BR) 375 CSG STAFF (BR) ALL UNIT & SQUADRON COMMANDERS

1. On 24 May 89 the United States Environmental Protection Agency (USEPA) conducted an inspection of our hazardous waste management program. Several violations were identified, and we received Notices of Violation on 26 Jan 90 from USEPA. To ensure that these violations have been corrected will require the cooperation of all organizational commanders who are generators of hazardous waste. The following corrective actions must be taken prior to 1 May 90:

a. All generators must:

(1) Ensure all containers are clearly marked or labeled with the words "Hazardous Waste" or identification of the contents of the container if it is not hazardous.

(2) Ensure all containers of hazardous waste must be closed during storage, and that opened containers of hazardous waste are handled or stored in a manner which will prevent the rupture of the container and prevent the container from leaking. We recommend the use of locking funnels in areas where waste is frequently added to the container.

(3) For all employees handling hazardous waste, update all training records with names, titles and job descriptions relating to hazardous waste management. Training records must be maintained for all employees past and present for a period of at least three years.

b. All accumulation points must:

(1) Ensure that all containers of hazardous waste are clearly marked with the period accumulation began.

(2) Ensure that areas where hazardous wastes are stored be inspected at least weekly, identifying leaks and/or deterioration caused by corrosion or other factors. This inspection must be documented in an inspection log and the log maintained for a period of at least three years.

(3) Maintain records for turn-in of hazardous waste for at least three years.

Attch 1

c. The hazardous waste storage facility (Aqua Yard) must:

(1) Meet all the requirements of the above generators and accumulation points.

(2) Remove liquid waste being stored in plastic 95-gallon overpak drums into 55-gallon steel drums.

(3) Ensure that the operator takes precautions to prevent accidental ignition or reaction of ignitable or reactive waste. Ensure that there is segregation of incompatible wastes.

(4) Develop an operating record for the hazardous waste storage area to include 40 CFR Part 268 requirements.

(5) Ensure that the facility is equipped with an internal communications or alarm system, a telephone capable of summoning emergency assistance from local police or fire departments, as well as portable fire extinguishers and fire control equipment.

(6) That the operator follow the procedures in a written waste analysis plan.

(7) That all containers entering storage have contents identified and mark dates on all containers

2. It is only through your efforts that we can correct these violations and avoid any further actions. Environmental compliance is here to stay and these requirements need to become our standard way of conducting business. I am asking for cooperation from everyone in this effort. The requirements listed above are only those areas on which we received notices of violation. There are additional requirements in each of these areas. Please contact Capt Lanctot, Environmental Coordinator, 375 CSG/DEEV, at ext 62092, for additional information.

1 Atch
Waste Accumulation Points

Atch 1 2

WASTE ACCUMULATION POINTS

LOCATION	DESCRIPTION	ORGANIZATION
Bldg 352	PME Laboratory	375 CAMS
Bldg 433	Hangar 1 Environmental Shop	375 CAMS
Bldg 433	Hangar 1 Hydraulic Shop	375 CAMS
Bldg 441	Paint and Cleaning Shop	375 CAMS
Bldg 443	Paint Storage	375 CAMS
Bldg 443	Battery Shop	375 CAMS
Bldg 455	Jet Engine Shop	375 CAMS
Bldg 506	Hangar 3 Tire Shop	375 CAMS
Bldg 521	Entomology	375 CES
Bldg 533	GOCESS	375 CES
Bldg 535	Exterior Electric	375 CES
Bldg 538	Power Production	375 CES
Bldg 548	Vehicle Maintenance	375 TRNSPS
Bldg 700	Field Printing	1361 AVS
Bldg 1192	Golf Course Shop	375 CSG
Bldg 1965	AAFES Service Station	AAFES
Bldg 1989	Auto Hobby Shop	375 CSG
Bldg 3184	Refueling Vehicle Maintenance	375 TRNSPS
Bldg 3190	Headquarters Group	1842 EEG
Bldg 3200	Storage Shed	375 CES
Bldg 3665	NDI Laboratory	375 CAMS
Bldg 3680	Reserve Forces Operations Trng	102 USARASF
Bldg 4001	War Readiness	375 SUPS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
230 SOUTH DEARBORN ST.
CHICAGO, ILLINOIS 60604

MAR 15 1990

REPLY TO THE ATTENTION OF:
5HS-12/ESS-SPCC
W18302

Commanding Officer
Scott Air Force Base
375 ABG/DEEV
Belleville, Illinois 62225-2054

Dear Sir:

This will acknowledge receipt of your Spill Prevention, Control and Countermeasure (SPCC) Plan, certified by Mark D. Everett, P.E.. Your facility is now in compliance with the Code of Federal Regulations, Title 40, Part 112.

We would like to take this opportunity to remind you that the regulations require the SPCC Plan be reviewed and updated every three (3) years and that, if a spill should occur, the Clean Water Act, Section 311(b)(5) requires that it be reported to the National Response Center (800-424-8802) or EPA Region V (312-353-2318).

We have enclosed a poster, for your convenience, which identifies State, regional and national emergency phone numbers. These numbers should be incorporated in your SPCC Plan and may be used on a 24-hour, 7-day-per-week basis to report spills. Please feel free to reproduce this poster as often as you wish.

Your efforts toward maintaining a healthy environment are appreciated.

Sincerely,

Pamela J. Schafer, Chief
Emergency Support Section

Enclosure

cc: Illinois Environmental Protection Agency

Attach 2

HAZARDOUS Waste Management 13 Apr 90

NAME / RANK	ORG	Telephone	Primary or ALT	
BAYSINGER Tommy J msgt	375 CAMS	62180	ALT	
FITCH DAWN L Sgt.	375 CAMS	65450	ALT	
Prichard Glenn D. Ssgt	375 CES	6-4226	ALT	
Nichols DAVID E Civ	375 ABG SSBA	4566	Primary	
Gary R Portell Civ	SGG Med Center	67313	ALT	
Groves James H. Civ	375 Supply	6-3211	Primary	
Reid, Robert A. SSgt	375 Supply	6-2862	ALT	
CAMERON LES G Civ	375 SUPPLY	6-2157	ALT	
George F Bonker	GGASD	6-2413	Primary.	
Dennis G Tanna Civ	AAFES	746 4350	Primary	
[illegible] D. Roper MSGT	375 CAMS	64533	Primary	
Smith Ronald T. Civ	102nd USAR	3578	ALT	
[illegible]	102 USAR	63578	ALT	
Paul SCHWARTZKOPF	102 USAR	63578	ALT	
MALCOM R CHISM	375 Supply/FUEL	65457	ALT	
Rick M'Guire	375 CSG/SSYD	2170	Prim	
Mansker, Rodger L	375 CAMS	3721	ALT	
JOHANSEN, DOUGLAS K. SGT	375 CAMS	5067	PRIM	

AF FORM MAY 83 3126 PREVIOUS EDITION WILL BE USED. GENERAL PURPOSE (8½ x 11")

GPO : 1983 O - 413-801

20 MAR 90

HAZARDOUS WASTE MANAGER'S TRAINING

NAME	RANK	SQ/OFF	PHONE	PRIM/ALT
Stock Henry	M.Sgt	1201 FPS	6-4686	PRIM
Aviles-Garcia, Luis M	AIC	375 CES	6-2683	ALT PP
Wood Kenneth	Sgt	375 CES	62617	ENT
POMEROY, THOMAS H	Sgt	375 SUK	8720	ALT
Altersott, Bernie	SGT	Mud Ctr/56PB	7307	
Richey, Tony	Sgt	375 Sup	6108	Prime
Rush, Scott I.	AIC	375 CES.	4245	ALT ED
Reinard, Dennis	WSG	375 CAMS	3756	Prime
MIGHTEN, DENNIE	SSGT	375 CES	6-5572	PRIM. ENTER
Cunigan, Aaron E	SSGT	375 CES	6-5572	ALT ENTER
CARTER, HOMER	SSgt	375 CES	6-4115	ALT LF
CARTER DARIEN K	SGT	375 CES.	6-2683	PRIM LF PW
Ward David	NA-9	375 ABG/SSBG	6-3439	ALT
ALLEN SIEGEL	UA-9	375 ABG/SSBG	6-3439	PRIM
LARRY HELVIE	WL10	102nd USARASF	6-3578	PRIM
ALAN BARFIELD	WG10	102nd USARASF	6-3578	ALT
FRIESNER JEFFREY A	TSGT	375 MAW/Comm	6-3598	PRI
GONZALEZ RICHARD	Sgt	375 CES	6-4245	PRI L.Reynolds
HALES Randell	SSgt	1842 ECG	6-3700	Pri
Courville Alan	SSgT	375 Trans	6 8881	ALT
Newell, Donna	CAPT	375 CAMS	6 2330	~~ALT~~

Air University
Air Force Institute of Technology

Be it Known that

CAPTAIN MARIA T. LANCTOT

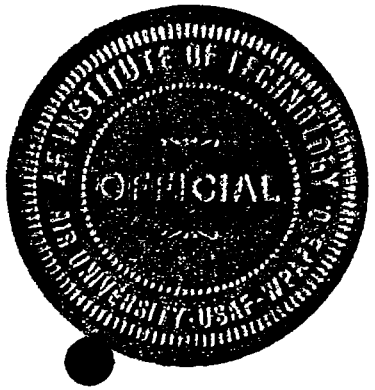
has successfully completed the

HAZARDOUS WASTE MANAGEMENT COURSE
MGT 521 Class 90B

In testimony whereof this certificate is awarded

this Second day of March 19 90

at Wright-Patterson Air Force Base, Ohio



Paul T. Hayworthy

Dean
School of Civil Engineering and Services

Commandant
Air Force Institute of Technology

Certificate Of Achievement

HWMC

This certificate has been awarded to

Jerry Conner

at

Rochester, New York

For successfully completing the Lion Technology Inc. Annual Certification Workshop on the applicable regulations of the United States Environmental Protection Agency and the United States Department of Transportation regarding the management of wastes designated as hazardous.

This training completed as of

17 October 1989

W P Taggart
INSTRUCTOR

LION TECHNOLOGY INC.

AIR FORCE HAZARDOUS WASTE MANAGEMENT TRAINING

Environmental Resource Center/Computrac
3679 Rosehill Road
Fayetteville, North Carolina 28311
919-822-1172
under subcontract 11X-SA091

HAZWARAP SUPPORT CONTRACTOR OFFICE
Oak Ridge, Tenessee 37831
operated by
MARTIN MARIETTA ENERGY SYSTEMS, INC.
for the
U.S. DEPARTMENT OF ENERGY
under contract DE-AC05-840R21400

MARCH 1989

FORWARD

This hazardous waste training courseware is based on the federal requirements for the management of hazardous waste at Air Force installations as of 18 January 1989. This document is the script for the accompanying slide presentation. It is designed for the layman and is not intended to replace current federal regulations or Air Force doctrine. States may impose additional requirements beyond those described in this courseware. Consult the Code of Federal Regulations as well as state and local regulations for specific requirements.

After reviewing the script, the program trainer may choose to exclude selected portions of the program which do not relate to the intended audience and to add installation-specific information to other portions of the program. Please ensure that all personnel involved in any manner with the management of hazardous waste receive training which includes:

- How the trainees must perform their jobs in a manner which is in compliance with Resource Conservation and Recovery Act regulations, and

- How to implement your installation's contingency plan.

CONTENTS

I Introduction to the Resource Conservation and Recovery Act

II Identification of Hazardous Wastes

III Accumulation Point Management

IV Container Use, Marking and Labeling, and On-Base Transportation

V Waste Turn-in Procedures

VI Manifesting andTransportation of Hazardous Waste

VII Spill Prevention and Response to Emergencies

VIII Personnel and Fire Safety

HAZARDOUS WASTE MANAGEMENT 10 Nov 90

Last, First, MI (please print clearly)	Rank	Office	DPhone	
Nuernberger, Judy R.	GS-11	MedCen/SGG	67313	
Manker, Ridger L.	S.T.	375 CMPS/MAPT	6-3721	
Bauman, Charles E	W6-10	102d USARASF	6-3578	
Stock Henry	MSgt	1201 FPS	6-4686	
[illegible]	GS-7	1201 FPS/IMRP	6-6679	
HAYHURST, LEN	XS-9	1201FPS/IMRP	6-4686	
CARTER, ERNEST, C, JR	XS-9	1201 FPS/IMRP	6-4686	

☆U.S. GOVERNMENT PRINTING OFFICE: 1982-522-051/3214

HAZARDOUS Waste MANagement 13 Apr 90

NAME / RANK	ORG	Telephone	Primary or ALT	
BAYSINGER Tommy J MSgt	375 CAMS	62180	ALT	
FITCH DAWN L Sgt	375 CAMS	65450	ALT	
Prichard Glenn D. SSgt	375 CES	6-4226	ALT	
Nichols DAVID E Civ	375 ABG SSBA	45666	Primary	
Mary R Sortell Civ	SGG Med Center	67313	ALT	
Groves James H. Civ	375 Supply	6-3211	Primary	
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CAMERON LES G Civ	375 SUPPLY	6-2157	ALT	
George T Bomher	CGASD	6-2413	Primary.	
Dennis G Tanna Civ	AAFES	746 4350	Primary	
Norman D. Roper MSGT	375 CAMS	64533	Primary	
Smith Ronald T. Civ	102nd USAR	3578	ALT	
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Paul SCHWARTZKOPF	102 USAR	63578	ALT	
MALcom R CHISM	375 SUPPLY/FUEL	65457	ALT	
Rick M'Guire	375 CSG/SSYS	2170	Prim	
Mansker, Rodger L	375 CAMS	3721	ALT	
JOHANSEN, DOUGLAS K. SGT	375 CAMS	5067	PRIM	

Certificate Of Achievement

HWMC

This certificate has been awarded to

Rodney Brown

at

Nashville, Tennessee

For successfully completing the Lion Technology Inc. Annual Certification Workshop on the applicable regulations of the United States Environmental Protection Agency and the United States Department of Transportation regarding the management of wastes designated as hazardous. This training completed as of

8 February 1991

W P Jaggart
INSTRUCTOR

LION TECHNOLOGY INC.

PETA

Professional Environmental
Trainers Association

This is to Certify that

RODNEY BROWN

has completed the seminar

Hazardous Materials Chemistry for the Non-Chemist.

1.3 CEU Awarded
2.0 Certification Maintenance
Point Per ABIH

Instructor

3/11/91
Date

© GOES 445

LITHO IN U.S.A.

University of Illinois at Urbana-Champaign

Bureau of Urban and Regional Planning Research

Department of Urban and Regional Planning

Presents this certificate of training to

RODNEY BROWN

For completion of a training course
in the Environmental
Technical Information System

DECEMBER 6, 1990
Date

Director Juergen Nagl

STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

SAFETY-KLEEN CORP. STATE PRESCRIBED FORM P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761 State Form LPC 62 8/81 IL532-0610 FOR SHIPMENT OF HAZARDOUS, INFECTIOUS AND SPECIAL WASTE.

NOTE: FORM DESIGNED TO PRINT 8 LINES PER INCH **EPA Form 8700-22 (6-89)** Form Approved. OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL7570024177 | Manifest Document No.: 0059
2. Page 1 of 1 | Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address / Location If Different:
SCOTT AIR FORCE BASE
375 ABG/DEEV
SCOTT AIR FORCE BASE, IL 62225
4. Generator's Phone (618) 256-2092

A. Illinois Manifest Document Number: IL5041574 MANIFEST FEE PAID
B. Illinois Generator's ID: 1630105014
C. Illinois Transporter's ID: 11123
D. Transporter's Phone: 618 398-6880
E. Illinois Transporter's ID:
F. ( ) Transporter's Phone

5. Transporter 1 Company Name: SAFETY-KLEEN CORP. | 6. US EPA ID Number: ILD051060408
7. Transporter 2 Company Name | 8. US EPA ID Number

9. Designed Facility Name and Site Address: SAFETY-KLEEN CORP.
20 TUCKER DR., CASEYVILLE, IL 62232 | 10. US EPA ID Number: ILD981097819

G. Illinois Facility's ID: 1630250007
H. Facility's Phone: 618)398-6880

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. WASTE PETROLEUM NAPHTHA COMBUSTIBLE LIQUID UN1255 (EPA D001)	001	DM	00007	1	EPA HW Number: XD001 Authorization Number: 000002
b.					EPA HW Number: XX Authorization Number:
c.					EPA HW Number: XX Authorization Number:
d.					EPA HW Number: XX Authorization Number:

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above In Item #14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information
IL CUSTOMER 5-160-02-2172 PREPRINT TERR 0450

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Date (Month Day Year)
Conner, Jerry W		05 10 90

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
KURT HARTMAN	Kurt Hartman	05 10 90

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name	Signature	Date (Month Day Year)
Beth Wiener	Beth Wiener	05/1/90

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

In case of a spill call the Illinois Office of Emergency Response at 217/782-3637 and the National Response Center at 800/424-8802 or 202/426-2675.

STATE OF ILLINOIS — ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

SAFETY-KLEEN CORP. STATE PRESCRIBED FORM — P.O. BOX 19276 — SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761 — State Form LPC 62 8/81 IL532-0610 — FOR SHIPMENT OF HAZARDOUS, INFECTIOUS AND SPECIAL WASTE.

E: FORM DESIGNED TO PRINT 8 LINES PER INCH — **EPA Form 8700-22 (6-89)** — Form Approved. OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL7570024177 — Manifest Document No.: 00058 — 2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is required by Illinois law.

GENERATOR

3. Generator's Name and Mailing Address / Location If Different:
SCOTT AIR FORCE BASE
375 ABG/DEEV
SCOTT AIR FORCE BASE, IL 62225

4. Generator's Phone (618) 256-2092

A. Illinois Manifest Document Number: IL 5041592 — MANIFEST FEE PAID

B. Illinois Generator's ID: 1 1 6 3 0 1 0 5 0 1 4

5. Transporter 1 Company Name: SAFETY-KLEEN CORP. — 6. US EPA ID Number: ILD051060408

C. Illinois Transporter's ID: IL 123 — Transporter's Phone: 618 398-6880

7. Transporter 2 Company Name — 8. US EPA ID Number

E. Illinois Transporter's ID — F. ( ) Transporter's Phone

9. Designed Facility Name and Site Address: SAFETY-KLEEN CORP.
20 TUCKER DR., CASEYVILLE, IL 62232 — 10. US EPA ID Number: ILD981097819

G. Illinois Facility's ID: 1 6 3 0 2 5 0 0 0 7

H. Facility's Phone: 618 398-6880

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. WASTE PETROLEUM NAPHTHA COMBUSTIBLE LIQUID UN1255 (EPA D001)	001	DM	00007	1	EPA HW Number: X Xb 001 / Authorization Number: 000004
b.					EPA HW Number: XX / Authorization Number:
c.					EPA HW Number: XX / Authorization Number:
d.					EPA HW Number: XX / Authorization Number:

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above in Item #14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information

IL WK 18 CUSTOMER #'s 5-160-02-3013,7031, PREPRINTS 141545,908767 TERR 04-49

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage or disposal currently available to me which minimizes the present and future threat to human health and the environment; **OR**, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: JERRY W CONNER — Signature — Date: Month 05 Day 02 Year 90

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: KURT HARTMAN — Signature — Date: Month 05 Day 02 Year 90

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name: Beth Wiener — Signature — Date: Month 05 Day 03 Year 90

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

In case of a spill call the Illinois Office of Emergency Response at 217/782-3637 and the National Response Center at 800/424-8802 or 202/426-2675.

STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

SAFETY-KLEEN CORP. STATE PRESCRIBED FORM 5-160-02 P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761 State Form LPC 62 8/81 IL532-0610

FOR SHIPMENT OF HAZARDOUS, INFECTIOUS AND SPECIAL WASTE.

NOTE: FORM DESIGNED TO PRINT 8 LINES PER INCH **EPA Form 8700-22 (6-89)** Form Approved. OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL7 570024177
Manifest Document No.: 00056 [illegible]
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address / Location If Different:
SCOTT AIR FORCE BASE
375 ABG/DEEV
SCOTT AFB IL 62225

A. Illinois Manifest Document Number: IL 5053269 MANIFEST FEE PAID

B. Illinois Generator's ID: 1630105014

4. Generator's Phone (618) 256-2092

5. Transporter 1 Company Name: SAFETY-KLEEN CORP.
6. US EPA ID Number: ILD 051060408
C. Illinois Transporter's ID: 1123
D. 618 398-6880 Transporter's Phone

7. Transporter 2 Company Name
8. US EPA ID Number
E. Illinois Transporter's ID
F. Transporter's Phone

9. Designed Facility Name and Site Address:
SAFETY-KLEEN CORP.
20 TUCKER DRIVE
CASEYVILLE, IL 62232
10. US EPA ID Number: 5-160-02 ILD 981097819
G. Illinois Facility's ID: 1630250007
H. Facility's Phone: 618 398-6880

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. WASTE COMPOUND, CLEANING, LIQUID CORROSIVE MATERIAL NA1760(F002)(ERG#60)	001	DM	00005	1	EPA HW Number: XX F002; Authorization Number: 000008
b.					EPA HW Number: XX; Authorization Number:
c.					EPA HW Number: XX; Authorization Number:
d. NOTICE: IN ACCORDANCE WITH 40 CFR 268.7, THE GENERATOR PROVIDES NOTICE THAT THE WASTE DESCRIBED AS 'WASTE COMPOUND CLEANING LIQUID' IS A RESTRICTED WASTE. THE WASTE CONTAINS THE FOLLOWING CONSTITUENTS WHOSE TREATMENT STANDARDS ARE NOTED: METHYLENE CHLORIDE(0.96PPM); [illegible] AND CRESYLIC ACID(0.75PPM).					EPA HW Number: XX; Authorization Number:

J. Additional Descriptions for Materials Listed Above: I(A) F004

K. Handling Codes for Wastes Listed Above in Item #14: 1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information: 9017 14913180 063403 5-160-02-2172 0450

EMERGENCY RESP#1-708-888-4660
SKDOT# A: 503 B: C: D:

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; **OR**, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Date (Month Day Year)
ERNEST E. MORGAN		04 25 90

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
KURT HARTMAN	Kurt Hartman	04 25 90

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

FACILITY

19. Discrepancy Indication Space

20. [illegible]lity Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name	Signature	Date (Month Day Year)
Dina Payne	Dina Payne	04 25 90

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

In case of a spill call the Illinois Office of Emergency Response at 217/782-3637 and the National Response Center at 800/424-8802 or 202/426-2675.

STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

SAFETY-KLEEN CORP. STATE PRESCRIBED FORM 5-160-02 P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761 State Form LPC 62 8/81 IL532-0610 FOR SHIPMENT OF HAZARDOUS, INFECTIOUS AND SPECIAL WASTE

NOTE: FORM DESIGNED TO PRINT 8 LINES PER INCH **EPA Form 8700-22 (6-89)** Form Approved. OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL7 570024177
Manifest Document No.: 00055 65402
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but is required by Illinois law.

GENERATOR

3. Generator's Name and Mailing Address / Location If Different:
SCOTT AIR FORCE BASE
375 ABG/DEEV
SCOTT AIR FORCE BASE IL 62225

4. Generator's Phone (618) 256-2092

A. Illinois Manifest Document Number: IL 5053268 MANIFEST FEE PAID

B. Illinois Generator's ID: 1630105014

5. Transporter 1 Company Name: SAFETY-KLEEN CORP.
6. US EPA ID Number: ILD 051060408
C. Illinois Transporter's ID: 1123
D. 618) 398-6880 Transporter's Phone

7. Transporter 2 Company Name
8. US EPA ID Number
E. Illinois Transporter's ID
F. ( ) Transporter's Phone

9. Designed Facility Name and Site Address: SAFETY-KLEEN CORP.
20 TUCKER DRIVE
CASEYVILLE, IL 62232
10. US EPA ID Number: 5-160-02 ILD 981097819
G. Illinois Facility's ID: 1630250007
H. Facility's Phone: 618 398-6880

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. WASTE PETROLEUM NAPHTHA COMBUSTIBLE LIQUID UN1255(D001)(ERG #27)	005	DM	00045	1	EPA HW Number: X X D001 Authorization Number: 000004
b.					EPA HW Number: X X Authorization Number:
c.					EPA HW Number: X X Authorization Number:
NOTICE: IN ACCORDANCE WITH 40 CFR 268.7, THE GENERATOR PROVIDES NOTICE THAT THE WASTE DESCRIBED AS 'WASTE PETROLEUM NAPHTHA' IS A RESTRICTED WASTE. THE WASTE CONTAINS THE FOLLOWING CONSTITUENTS WHOSE TREATMENT STANDARDS ARE NOTED: TOTAL HALOGENATED ORGANIC					EPA HW Number: X X Authorization Number:

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above in Item #14.
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information: 9017 14913172 063402 5-160-02-2167 0450
EMERGENCY RESP#1-708-888-4660
SKDOT# A: 501 B: C: D:

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name	Signature	Date (Month Day Year)
X EARNEST E. MORGAN	X	04 25 90

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
KURT HARTMAN	Kurt Hartman	04 25 90

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name	Signature	Date (Month Day Year)
Dina Payne	Dina Payne	04 25 90

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

In case of a spill call the Illinois Office of Emergency Response at 217/782-3637 and the National Response Center at 800/424-8802 or 202/426-2675.

ALL COPIES MUST BE LEGIBLE. PLEASE TYPE. SEE INSTRUCTIONS ON BACK.

MOORE® SPEEDISET® MCP® - PATENTED 226

STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P.O. BOX 19276 , SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/81 IL532-0610

FOR SHIPMENT OF HAZARDOUS, INFECTIOUS AND SPECIAL WASTE.

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter.) **EPA Form 8700-22 (Rev. 9-88)** Form Approved. OMB No. 2050-0039, Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. IL7570024177 Manifest Document No. 90120

2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address / Location If Different:
DRMO-Scott
Bldg. 4141 Scott A.F.B. IL 62225-5000

4. Generator's Phone (618) 256-3105

A. Illinois Manifest Document Number IL3242718 MANIFEST FEE EXEMPT

B. Illinois Generator's ID 1163019501 4

5. Transporter 1 Company Name: Aptus
6. US EPA ID Number: MND980791321
C. Illinois Transporter's ID 1483
D. (612)-469-3475 Transporter's Phone

7. Transporter 2 Company Name
8. US EPA ID Number
E. Illinois Transporter's ID
F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address:
Aptus
P.O. Box 1328/Hwy. 169 North
Coffeyville, KS 67337
10. US EPA ID Number: KSD980964993
G. Illinois Facility's ID 9201255040
H. Facility's Phone (316-251-6380

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. RQ HAZARDOUS SUBSTANCE, LIQUID OR SOLID, N.O.S., ORM-E, NA 9188(POLYCHLORINATED BIPHENYLS)	001	CM	00001	2	EPA HW Number XXPCB1 Authorization Number
b. RQ HAZARDOUS SUBSTANCE, LIQUID OR SOLID, N.O.S., ORM-E, NA 9188(POLYCHLORINATED BIPHENYLS)	003	CM	00001	2	EPA HW Number XXPCB1 Authorization Number
c. RQ HAZARDOUS SUBSTANCE, LIQUID OR SOLID, N.O.S., ORM-E, NA 9188(POLYCHLORINATED BIPHENYLS)	002	CM	00001	2	EPA HW Number XXPCB1 Authorization Number
d.					EPA HW Number XX Authorization Number

J. Additional Descriptions for Materials Listed Above
A. Transformers <50 ppm - WP001220 1 yd³ = 818 Kg. line 8
B. Transformers <500 - WP001220 1 yd³ = 1182 Kg. line 3,4,5
C. Transformers >500 WP001221 1 yd³ = 637 Kg. line 6,7

K. Handling Codes for Wastes Listed Above In Item #14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information
See Enclosed Contingency Plan
Work Order #963618
Contract DLA20090D0066
DO# 0020
ADN# 575TS

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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GENERATOR

Printed/Typed Name: Rebecca L. Brown — Signature: Rebecca L Brown — Date: Month 04 Day 24 Year 90

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Robert Yarnell — Signature: Robert Yarnell — Date: Month 04 Day 24 Year 90

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name — Signature — Date: Month Day Year

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the [illegible]

In case of a spill call the Illinois Office of Emergency Response at 217/782-3637 and the National Response Center at 800/424-8802 or 202/426-2675.

STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

SAFETY-KLEEN CORP. P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761 FOR SHIPMENT OF HAZA[illegible]OUS
STATE PRESCRIBED FORM State Form LPC 62 8/81 IL532-0610 AND SPECIAL WASTE

NOTE: FORM DESIGNED TO PRINT 8 LINES PER INCH **EPA Form 8700-22 (6-89)** Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL7570024177 | Manifest Document No.: 00054 | 2. Page 1 of 1 | Information in the shaded is not required by Federal, is required by Illinois law.

GENERATOR

Generator's Name and Mailing Address:
SCOTT AIR FORCE BASE
375 ABG/DEEV
SCOTT AIR FORCE BASE, IL 62225

Location If Different: (GATES LEARJET Beech AEROSPACE SCOTT SVC STATION)

4. Generator's Phone (618) 256-2092

A. Illinois Manifest Document Number: IL 5050629 MANIF. FEE PA

B. Illinois Generator's ID: 1 6 3 0 2 5 0 0 0 7

5. Transporter 1 Company Name: SAFETY-KLEEN CORP. | 6. US EPA ID Number: ILD051060408

C. Illinois Transporter's ID: [illegible]

D. ( ) Transporter's Phone: 618 398 6880

7. Transporter 2 Company Name: | 8. US EPA ID Number:

E. Illinois Transporter's ID:

F. ( ) Transporter's Phone:

9. Designed Facility Name and Site Address: SAFETY-KLEEN CORP.
20 TUCKER DR., CASEYVILLE, IL 62232 | 10. US EPA ID Number: ILD981097819

G. Illinois Facility's ID: 1 6 3 0 2 5 0 0 0 7

H. Facility's Phone: (618) 398-6880

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. WASTE PETROLEUM NAPHTHA COMBUSTIBLE LIQUID UN1255 (EPA D001)	002	DM	00014	1	EPA HW Number: X X D 0 0 1 / Authorization Number: 0 0 0 0 0 4
b. WASTE PETROLEUM NAPHTHA Combustible Liquid UN1255 (EPA D001)	001	DF	00004	1	EPA HW Number: X X D 0 0 1 / Authorization Number: 0 0 0 0 0 4
c.					EPA HW Number: X X / Authorization Number:
d.					EPA HW Number: X X / Authorization Number:

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above in Item #14: 1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information

IL CUSTOMER 5-160-02-2174,3013,1171 PP#986355,986374,986306 TERR 04-49

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: DAN SCHLOESSER | Signature: [signature] | Date: Month 04 Day 19 Year 90

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: KURT HARTMAN | Signature: [signature] | Date: Month 04 Day 19 Year 90

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: ~~DAN SCHLOESSER~~ | Signature: [signature] | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name: Dina Tayne | Signature: [signature] | Date: Month 04 Day 19 Year 90

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COPY 1. TSD MAIL TO GENERATOR

In case of [illegible] call the Illinois Office of Emergency Response at 217/782-3637 and the National Response Center at 800/424-8802 or 202/426-2675.

STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

SAFETY-KLEEN CORP. P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761 FOR SHIPMENT OF HAZARDOUS, INFECTIOUS AND SPECIAL WASTE

STATE PRESCRIBED FORM State Form LPC 62 8/81 IL532-0610

5-160-02

NOTE: FORM DESIGNED TO PRINT 8 LINES PER INCH **EPA Form 8700-22 (6-89)** Form Approved. OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. IL7 570024177 Manifest Document No. 00053

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address
SCOTT AIR FORCE BASE
375 ABG/DEEV
SCOTT AFB IL 62225

Location If Different:

4. Generator's Phone (618) 256-2092

A. Illinois Manifest Document Number IL 5047958 MANIFEST FEE PAID

B. Illinois Generator's ID 1630105014

5. Transporter 1 Company Name SAFETY-KLEEN CORP.

6. US EPA ID Number ILD 051060408

C. Illinois Transporter's ID 1123

D. 618 398-6880 Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. Illinois Transporter's ID

F. ( ) Transporter's Phone

9. Designed Facility Name and Site Address
SAFETY-KLEEN CORP.
20 TUCKER DRIVE
CASEYVILLE, IL 62232

10. US EPA ID Number 5-160-02 ILD 981097819

G. Illinois Facility's ID 1630250007

H. Facility's Phone (618 398-6880

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. WASTE PETROLEUM NAPHTHA COMBUSTIBLE LIQUID UN1255(D001)(ERG #27)	010	DM	00179	1	EPA HW Number XX D001 Authorization Number 000004
b.					EPA HW Number XX Authorization Number
c.					EPA HW Number XX Authorization Number
d.					EPA HW Number XX Authorization Number

NOTICE: IN ACCORDANCE WITH 40 CFR 268.7, THE GENERATOR PROVIDES NOTICE THAT THE WASTE DESCRIBED AS 'WASTE PETROLEUM NAPHTHA' IS A RESTRICTED WASTE. THE WASTE CONTAINS THE FOLLOWING CONSTITUENTS WHOSE TREATMENT STANDARDS ARE NOTED: TOTAL HALOGENATED ORGANIC COMPOUNDS (1000 MG/L).

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above in Item #14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information 9015 14510069 908673 5-160-02-2172 0450

EMERGENCY RESP#1-708-888-4660
SKDOT# A: 501 B: C: D:

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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GENERATOR

Printed/Typed Name: MARIA T. LANCTOT Signature: Maria T. Lanctot Date: Month 04 Day 10 Year 90

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: KURT HARTMAN Signature: Kurt Hartman Date: Month 04 Day 10 Year 90

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: Signature: Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name: Beth Wiener Signature: Beth Wiener Date: Month 04 Day 11 Year 90

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

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STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

SAFETY-KLEEN CORP. P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761
STATE PRESCRIBED FORM State Form LPC 62 8/81 IL532-0610
FOR SHIPMENT OF HAZARDOUS, INFECTIOUS AND SPECIAL WASTE

NOTE: FORM DESIGNED TO PRINT 8 LINES PER INCH **EPA Form 8700-22 (6-89)** Form Approved. OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL7570024177
Manifest Document No.: ~~30236~~ 00052
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but is required by Illinois law.

GENERATOR

Generator's Name and Mailing Address:
SCOTT AIR FORCE BASE
375 ABG/DEEV
SCOTT AIR FORCE BASE, IL 62225

Location If Different:
GATES LEARJET CORP.

4. Generator's Phone (618) 256-2092

A. Illinois Manifest Document Number: IL 5050667 MANIFEST FEE PAID
B. Illinois Generator's ID: 1 6 3 0 1 0 5 0 1 4

5. Transporter 1 Company Name: SAFETY-KLEEN CORP.
6. US EPA ID Number: ILD051060408
C. Illinois Transporter's ID: 1 1 1 23
D. 618 398-6880 Transporter's Phone

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. Illinois Transporter's ID:
F. ( ) Transporter's Phone

9. Designed Facility Name and Site Address:
SAFETY-KLEEN CORP.
20 TUCKER DR., CASEYVILLE, IL 62232
10. US EPA ID Number: ILD981097819
G. Illinois Facility's ID: 1 6 3 0 2 5 0 0 0 7
H. Facility's Phone (618 398-6880

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. WASTE PETROLEUM NAPHTHA COMBUSTIBLE LIQUID UN1255 (EPA D001)	001	DM	00007	1	EPA HW Number: X X D 0 0 1 Authorization Number: 0 0 0 0 0 4
b.					EPA HW Number: X X Authorization Number:
c.					EPA HW Number: X X Authorization Number:
d.					EPA HW Number: X X Authorization Number:

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above in Item #14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information
IL CUSTOMER 5-160-02-3013 PREPRINT 830236

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: DANIEL C. SCHLOESSER
Signature: Daniel C. Schloesser
Date: Month 04 Day 05 Year 90

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: KURT HARTMAN
Signature: Kurt Hartman
Date: Month 04 Day 05 Year 90

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: Dina Payne
Signature: Dina Payne
Date: Month 04 Day 05 Year 90

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COPY 1. TSD MAIL TO GENERATOR

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TE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

TY-KLEEN CORP. P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761 FOR SHIPMENT OF HAZARDOUS, INFECTIOUS
PRESCRIBED FORM State Form LPC 62 8/81 IL532-0610 AND SPECIAL WASTE.
-42
DESIGNED TO PRINT 8 LINES PER INCH **EPA Form 8700-22 (6-89)** Form Approved. OMB No. 2050-0039 Expires 9-30-91

ORM HAZARDOUS /ASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law, but is required by Illinois law.
IL7 570024177	60050 ~~92154~~		

Generator's Name and Mailing Address / Location If Different:
SCOTT AIR FORCE BASE
375 ABG/DEEU
SCOTT AIR FORCE BASE IL 62225

4. Generator's Phone (618)256-2092

A. Illinois Manifest Document Number: IL 5038194 MANIFEST FEE PAID

B. Illinois Generator's ID: 1630105014

5. Transporter 1 Company Name: SAFETY-KLEEN CORP.
6. US EPA ID Number: ILD 051060408
C. Illinois Transporter's ID: 1123
D. 618 398-6880 Transporter's Phone

7. Transporter 2 Company Name
8. US EPA ID Number
E. Illinois Transporter's ID
F. ( ) Transporter's Phone

9. Designed Facility Name and Site Address: SAFETY-KLEEN CORP.
633 EAST 138TH ST
DOLTON IL 60419
10. US EPA ID Number: 0-006-54 ILD 980613913
G. Illinois Facility's ID: 0310690006
H. Facility's Phone: 708 849-4850

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. WASTE PAINT RELATED MATERIAL FLAMMABLE LIQUID UN1263 (F003)(ERG #26)	004	DM	00046	1	EPA HW Number X X F003 Authorization Number 000161
b.					EPA HW Number X X Authorization Number
c.					EPA HW Number X X Authorization Number
d. NOTICE: IN ACCORDANCE WITH 40 CFR 268.7, THE GENERATOR PROVIDES NOTICE THAT THE WASTE DESCRIBED AS 'WASTE PAINT RELATED MATERIAL' IS A RESTRICTED WASTE. THE WASTE CONTAINS THE FOLLOWING CONSTITUENTS WHOSE TREATMENT STANDARDS ARE NOTED: ACETONE(0.59 PPM); MEK(0.75 PPM); TOLUENE(0.33 PPM); AND XYLENE (0.15 PPM).					EPA HW Number X X Authorization Number

J. Additional Descriptions for Materials Listed Above: I(A) F005 3-16 GAL DRUMS 1-5 GAL CAN

K. Handling Codes for Wastes Listed Above in Item #14: 1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information: 9013 14280846 793154 5-160-42-4182 0105 1540408
EMERGENCY RESP#1-708-888-4660
SKDOT# A: 523 B: C: D:

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; **OR**, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Date (Month Day Year)
MARIA T. CANCTOT	Maria T. Ca	03 27 90

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials		
Printed/Typed Name: KURT HARTMAN	Signature: Kurt Hartman	Date: 03 27 90
18. Transporter 2 Acknowledgement of Receipt of Materials		
Printed/Typed Name	Signature	Date

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.		
Printed/Typed Name: Agnes Adams	Signature: On Behalf of Safety Kleen Agnes Adams	Date: 04 4 90

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

In case of a spill call the Illinois Office of Emergency Response at 217/782-3637 and the National Response Center at 800/424-8802 or 202/426-2675.

STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

SAFETY-KLEEN CORP. P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761 FOR SHIPMENT OF HAZARDOUS, INFECTIOUS AND SPECIAL WASTE.
STATE PRESCRIBED FORM State Form LPC 62 8/81 IL532-0610
5-160-02

NOTE: FORM DESIGNED TO PRINT 8 LINES PER INCH **EPA Form 8700-22 (6-89)** Form Approved. OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL7 570024177
Manifest Document No.: 00051 ~~50022~~
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but is required by Illinois law.

GENERATOR

3. Generator's Name and Mailing Address / Location If Different:
SCOTT AIR FORCE BASE
375 ABG/DEEV
SCOTT AFB IL 62225

4. Generator's Phone (618) 256-2092

A. Illinois Manifest Document Number: IL 5037550 MANIFEST FEE PAID
B. Illinois Generator's ID: 1630105014

5. Transporter 1 Company Name: SAFETY-KLEEN CORP.
6. US EPA ID Number: ILD 051060408
C. Illinois Transporter's ID: 1123
D. (618) 398-6880 Transporter's Phone

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. Illinois Transporter's ID:
F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address: SAFETY-KLEEN CORP.
20 TUCKER DRIVE
CASEYVILLE, IL 62232
10. US EPA ID Number: 5-160-02 ILD 981097819
G. Illinois Facility's ID: 1630250007
H. Facility's Phone (618) 398-6880

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. ~~WASTE COMPOUND, CLEANING, LIQUID~~ CORROSIVE MATERIAL NA1760(F002)(ERG#60)	001	DM	00005	1	EPA HW Number: X X F002 Authorization Number: 000003
b.					EPA HW Number: X X Authorization Number:
c.					EPA HW Number: X X Authorization Number:
d.					EPA HW Number: X X Authorization Number:

~~NOTICE: IN ACCORDANCE WITH 40 CFR 268.7, THE GENERATOR PROVIDES NOTICE~~ THAT THE WASTE DESCRIBED AS 'WASTE COMPOUND CLEANING LIQUID' IS A ~~RESTRICTED WASTE. THE WASTE CONTAINS THE FOLLOWING CONSTITUENTS~~ WASTE TREATMENT STANDARDS ARE NOTED: METHYLENE CHLORIDE(0.96PPM); ~~2-DICHLOROBENZENE(0.125PPM); AND CRESYLIC ACID(0.75PPM).~~

J. Additional Descriptions for Materials Listed Above: I(A) F004
K. Handling Codes for Wastes Listed Above In Item #14: 1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information: 9013 14121727 752022 5-160-02-2172 0450
EMERGENCY RESP#1-708-888-4660
SKDOT# A: 503 B: C: D:

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name	Signature	Date (Month Day Year)
Maria T. Lanctot	Maria T. Lanctot	03 27 90

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
Kurt Hartman	Kurt Hartman	03 27 90

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

FACILITY

19. Discrepancy Indication Space

Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name	Signature	Date (Month Day Year)
Dina Payne	Dina Payne	03 27 90

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

In case of a spill call the Illinois Office of Emergency Response at 217/782-3637 and the National Response Center at 800/424-8802 or 202/426-2675.

STATE OF ILLINOIS — ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

SAFETY-KLEEN CORP. P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761
STATE PRESCRIBED FORM 5-160-02 State Form LPC 62 8/81 IL532-0610
FOR SHIPMENT OF HAZARDOUS, INFECTIOUS AND SPECIAL WASTE.

NOTE: FORM DESIGNED TO PRINT 8 LINES PER INCH — **EPA Form 8700-22 (6-89)** — Form Approved. OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL7 570024177
Manifest Document No.: 00049 ~~52020~~
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but is required by Illinois law.

GENERATOR

Generator's Name and Mailing Address:
SCOTT AIR FORCE BASE
375 ABG/DEEV
SCOTT AIR FORCE BASE IL 62225

Location If Different:

4. Generator's Phone (618) 256-2092

A. Illinois Manifest Document Number: IL 5037549 MANIFEST FEE PAID
B. Illinois Generator's ID: 1630103014
C. Illinois Transporter's ID: 1123
D. (618) 398-6880 Transporter's Phone

5. Transporter 1 Company Name: SAFETY-KLEEN CORP.
6. US EPA ID Number: ILD 051060408

7. Transporter 2 Company Name:
8. US EPA ID Number:

E. Illinois Transporter's ID:
F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address:
SAFETY-KLEEN CORP. 5-160-02
20 TUCKER DRIVE
CASEYVILLE, IL 62232

10. US EPA ID Number: ILD 981097819

G. Illinois Facility's ID: 1630250007
H. Facility's Phone (618) 398-6880

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. ~~WASTE PETROLEUM NAPHTHA~~ COMBUSTIBLE LIQUID UN1255(D001)(ERG #27)	015	DM	00242	1	EPA HW Number: X X D001 Authorization Number: 000004
b. WASTE PETROLEUM NAPHTHA Combustible Liquid UN1255 (D001) (ERG #27)	001	DF	00004	1	EPA HW Number: X X D001 Authorization Number: 000004
c.					EPA HW Number: X X Authorization Number:
d. NOTICE: IN ACCORDANCE WITH 40 CFR 268.7, THE GENERATOR PROVIDES NOTICE THAT THE WASTE DESCRIBED AS 'WASTE PETROLEUM NAPHTHA' IS A RESTRICTED WASTE. THE WASTE CONTAINS THE FOLLOWING CONSTITUENTS WHOSE TREATMENT STANDARDS ARE NOTED: TOTAL HALOGENATED ORGANIC COMPOUNDS (1,000 MG/L).					EPA HW Number: X X Authorization Number:

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above in Item #14: 1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information: 9013 14121719 752020 5-160-02-2167 0450

EMERGENCY RESP#1-708-888-4660
SKDOT# A: 501 B: C: D:

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; **OR**, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: MARIA T. LANCTOT — Signature: Maria T. Lanctot — Date: Month 03 Day 27 Year 90

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: KURT HARTMAN — Signature: Kurt Hartman — Date: Month 03 Day 27 Year 90

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: Dina Payne — Signature: Dina Payne — Date: Month 03 Day 27 Year 90

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

In case of a spill call the Illinois Office of Emergency Response at 217/782-3637 and the National Response Center at 800/424-8802 or 202/426-2675.

STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P.O. BOX 19276 , SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/81 IL532-0610

FOR SHIPMENT OF HAZARDOUS, INFECTIOUS AND SPECIAL WASTE

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter.) EPA Form 8700-22 (Rev. 9-88) Form Approved. OMB No. 2050-0039, Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. IL7570024177 Manifest Document No. 09106

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address Location If Different:
Scott AFB
DRMO BLDG 4141,Scott AFB,IL

4. Generator's Phone (618 256-3105 62225-5000

A. Illinois Manifest Document Number IL 3329240 MANIFEST FEE EXEMPT

B. Illinois Generator's ID 1630105014

5. Transporter 1 Company Name GSX Services Inc.

6. US EPA ID Number MDD980554653

C. Illinois Transporter's ID 1887

D. (803)798-2993 Transporter's Phone

7. Transporter 2 Company Name ENVIRONMENTAL TRANSPORTATION SERVICES

8. US EPA ID Number OKD981605363

E. Illinois Transporter's ID

F. (405)677-8781 Transporter's Phone

9. Designated Facility Name and Site Address
GSX, Services,Inc.
Route 11, Box 3, Watlington Industrial Rd.
Reidsville, NC 27320

10. US EPA ID Number NCD000648451

G. Illinois Facility's ID 9871575009

H. Facility's Phone ( ) 919-342-5568

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. Waste Lithium Battery,for Disposal ORM-C	001	DF	00001	2	EPA HW Number XXD003 Authorization Number
b. "RQ"1 Waste Battery,Wet,Filled w/Acid Corrosive Material,UN2794 (D002,D008)	001	DF	00001	2	EPA HW Number XXD002 Authorization Number
c. "RQ"1 Waste Battery,Dry Corrosive Material,NA1813 (D002,D009)	001	DF	00001	2	EPA HW Number XXD002 Authorization Number
d.					EPA HW Number XX Authorization Number

J. Additional Descriptions for Materials Listed Above
A)RP177016 LINE#19 (1YD³ = 1LB)
B)RP177128 LINE#28 (1YD³ = 20LB)
C)RP177027 LINE#33,34 (1YD³ = 2LB)
Truck# T-13 PO# JF

K. Handling Codes for Wastes Listed Above In Item #14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information
Send all correspondence and billing to:
GSX,Inc.,PO Box 140,Saukville, WI 53080 DLA-200-89-D-0034 DO#91

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Rebecca L. Brown Signature: Rebecca L Brown Date: Month Day Year 031390

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: JEFFREY FEYEREISEN Signature: Jeffrey Feyereisen Date: Month Day Year 031390

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: J.O. Gilliam Signature: J.O. Gilliam Date: Month Day Year 032290

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: David Holmgreen Signature: David Holmgreen Date: Month Day Year 032390

GENERATOR TRANSPORTER FACILITY

In case of a spill call the Illinois Office of Emergency Response at 217/782-3637 and the National Response Center at 800/424-8802 or 202/426-2675.

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR COPY

STATE OF ILLINOIS — ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/81 IL532-0610

FOR SHIPMENT OF HAZARDOUS, INFECTIOUS AND SPECIAL WASTE — 19 MAR REC'D

NOTE: FORM DESIGNED TO PRINT 8 LINES PER INCH. **EPA Form 8700-22 (Rev. 6-89)** Form Approved. OMB No. 2050-0039, Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL7570024177 — Manifest Document No.: 0002 — 2. Page 1 of

Information in the shaded areas is not required by Federal law, but is required by Illinois law.

GENERATOR

Generator's Name and Mailing Address / Location If Different:

Scott AFB
DRMO BLDG 4141, Scott AFB, IL

4. Generator's Phone 618 256-3105 62225

A. Illinois Manifest Document Number: IL4193121 — MANIFEST FEE PAID

B. Illinois Generator's ID: IL 6 3 0 1 5 1 0 1 2 4

5. Transporter 1 Company Name: GSX Services, Inc. — 6. US EPA ID Number: MDD980554653

C. Illinois Transporter's ID: IL 8 1 7

D. (803)798-2993 Transporter's Phone

7. Transporter 2 Company Name — 8. US EPA ID Number

E. Illinois Transporter's ID

F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address: Special Waste Inc.
1713 Legion Road
Athens TN, 37303 — 10. US EPA ID Number: TND034547141

G. Illinois Facility's ID: IL 9 4 1 7 1 8 7 0 0 0 4

H. Facility's Phone: 615 745-9222

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ(1) Waste Paint ~~Related Material~~ (Rw) Flammable Liquid, UN1263 (D001, D006, D007, D008, F003, F005)	001	DM	00007	1	EPA HW Number: XXD 0 1 0 1 Authorization Number
b. RQ(1) Waste Paint Related Material Flammable Liquid, NA1263 (D001, D011)	001	DF	00001	1	EPA HW Number: XXD 0 1 0 1 Authorization Number
c. ~~Hazardous Waste Liquid~~, NOS ORM-E, NA9189 HAZARDOUS WASTE LIQUID, NOS (F002)	001	DF	00001	1	EPA HW Number: XXF 0 0 2 Authorization Number
d. ~~Non-Regulated Liquid~~ Not Shipped					EPA HW Number: XXN 0 N E Authorization Number

J. Additional Descriptions for Materials Listed Above
a) 177107 87EA#51 Also HW#D006, D007, D008, F003, F005
b) 177108 87EA#53 Also HW#D0
c) 177110 87EA#53
d) 177241 87 Also HW#D0 F003, F005

K. Handling Codes for Wastes Listed Above
In Item #14 1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information

Send all correspondence and billing to:
GSX, Inc., PO Box 140, Saukville, WI 53080 DLA-200-89-D-0034 DO#87

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name	Signature	Date (Month Day Year)
Rodger Wilson	Rodger L Wilson	03 08 90

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials		Date
Printed/Typed Name: Jeffrey Fergerson	Signature: Jeffrey Fergerson	Month Day Year: 03 08 90
18. Transporter 2 Acknowledgement of Receipt of Materials		Date
Printed/Typed Name	Signature	Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. — Date

Printed/Typed Name	Signature	Month Day Year
Tom McGhee	Tom McGhee	03 09 90

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COPY 1 TSD MAIL TO GENERATOR

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STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

SAFETY-KLEEN CORP. STATE PRESCRIBED FORM P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761 State Form LPC 62 8/81 IL532-0610 FOR SHIPMENT OF HAZARDOUS, INFECTIOUS AND SPECIAL WASTE.

5-160-42

NOTE: FORM DESIGNED TO PRINT 8 LINES PER INCH **EPA Form 8700-22 (6-89)** Form Approved. OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL7 570024177 — Manifest Document No.: ~~85883~~ 45
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address: SCOTT AIR FORCE BASE, 375 ABG/DEEU, SCOTT AIR FORCE BASE IL 62225 — Location If Different:

A. Illinois Manifest Document Number: IL 5048017 — MANIFEST FEE PAID

B. Illinois Generator's ID: 1630105014

4. Generator's Phone: (618) 256-2092

5. Transporter 1 Company Name: SAFETY-KLEEN CORP. — 6. US EPA ID Number: ILD 051060408

C. Illinois Transporter's ID: 1123

D. (618) 398-6880 Transporter's Phone

7. Transporter 2 Company Name: — 8. US EPA ID Number:

E. Illinois Transporter's ID:

F. ( ) Transporter's Phone

9. Designed Facility Name and Site Address: SAFETY-KLEEN CORP., 633 EAST 138TH ST, DOLTON IL 60419 — 10. US EPA ID Number: 0-006-54 ILD 980613913

G. Illinois Facility's ID: 0310690006

H. Facility's Phone: 708 849-4850

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. WASTE PAINT RELATED MATERIAL FLAMMABLE LIQUID UN1263 (F003)(ERG #26)	003	DM	00032	1	EPA HW Number: XX F003; Authorization Number: 000161
b.					EPA HW Number: XX; Authorization Number:
c.					EPA HW Number: XX; Authorization Number:
d.					EPA HW Number: XX; Authorization Number:

NOTICE: IN ACCORDANCE WITH 40 CFR 268.7, THE GENERATOR PROVIDES NOTICE THAT THE WASTE DESCRIBED AS 'WASTE PAINT RELATED MATERIAL' IS A RESTRICTED WASTE. THE WASTE CONTAINS THE FOLLOWING CONSTITUENTS WHOSE TREATMENT STANDARDS ARE NOTED: ACETONE(0.59 PPM); MEK(0.75 PPM); MIBK(0.33 PPM), TOLUENE(0.33 PPM), AND XYLENE (0.15 PPM).

J. Additional Descriptions for Materials Listed Above: 1(A) F005 2-16 GAL DRUMS 1-5 GAL CAN

K. Handling Codes for Wastes Listed Above in Item #14: 1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information: 9009 13510565 485853 5-160-42-4182 0105 14610547

SKDOT# A: 523 B: C: D:

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Printed/Typed Name: EARNEST E. MORGAN — Signature: [signature] — Date: Month 02 Day 28 Year 90

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: KURT HARTMAN — Signature: Kurt Hartman — Date: Month 02 Day 28 Year 90

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: — Signature: — Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name: Agnes Adams — Signature: On behalf of Safety Kleen Agnes Adams — Date: Month 03 Day 14 Year 90

GENERATOR / TRANSPORTER / FACILITY

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

In case of a spill call the Illinois Office of Emergency Response at 217/782-3637 and the National Response Center at 800/424-8802 or 202/426-2675.

SAFETY-KLEEN CORP.
STATE PRESCRIBED FORM

P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761
State Form LPC 62 8/81 IL532-0610

FOR SHIPMENT OF HAZARDOUS, INFECTIOUS AND SPECIAL WASTE.

NOTE: FORM DESIGNED TO PRINT 8 LINES PER INCH

EPA Form 8700-22 (6-89)

Form Approved. OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL7570024177
Manifest Document No.: 00048 36344
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address / Location If Different:
SCOTT AIR FORCE BASE
375 ABG/DEEV
SCOTT AFB, IL 62225

4. Generator's Phone (618) 256-2092

A. Illinois Manifest Document Number: IL5042887 — MANIFEST FEE PAID
B. Illinois Generator's ID: 1 6 3 0 1 0 5 0 1 4
C. Illinois Transporter's ID: 1 1 2 8
D. Transporter's Phone: 618 398-6880
E. Illinois Transporter's ID:
F. Transporter's Phone:
G. Illinois Facility's ID: 1 6 3 0 2 5 0 0 0 7
H. Facility's Phone: 618 398-6880

5. Transporter 1 Company Name: SAFETY-KLEEN CORP.
6. US EPA ID Number: ILD051060408
7. Transporter 2 Company Name:
8. US EPA ID Number:
9. Designed Facility Name and Site Address: SAFETY-KLEEN CORP.
20 TUCKER DR., CASEYVILLE, IL 62232
10. US EPA ID Number: ILD981097819

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. WASTE PETROLEUM NAPHTHA COMBUSTIBLE LIQUID UN1255 (EPA D001)	001	DM	00007	1	EPA HW Number: XXD001 Authorization Number: 000004
b.					EPA HW Number: XX Authorization Number:
c.					EPA HW Number: XX Authorization Number:
d.					EPA HW Number: XX Authorization Number:

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above In Item #14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information
IL WK 11 TERR 0450 CUSTOMER 5-160-02- PREPRINT M36344

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: DANIEL C. SCHLOESSER — Signature: Daniel C Schloesser — Date: Month 03 Day 14 Year 90

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: KURT HARTMAN — Signature: Kurt Hartman — Date: Month 03 Day 14 Year 90

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: Dina Layne — Signature: Dina Layne — Date: Month 03 Day 14 Year 90

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 3. TSD COPY

In case of a spill call the Illinois Office of Emergency Response at 217/782-3637 and the National Response Center at 800/424-8802 or 202/426-2675.

STATE OF ILLINOIS

ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/81 IL532-0610

FOR SHIPMENT OF HAZARDOUS, INFECTIOUS AND SPECIAL WASTE

9 MAR REC'D

NOTE: FORM DESIGNED TO PRINT 8 LINES PER INCH. **EPA Form 8700-22 (Rev. 6-89)** Form Approved. OMB No. 2050-0039, Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL7570024177 — Manifest Document No.: 10004

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address — Location If Different:
Scott AFB
DRMO BLDG 4141,Scott AFB,IL

4. Generator's Phone (618 256-3105 62225

A. Illinois Manifest Document Number: IL4193127 MANIFEST FEE PAID

B. Illinois Generator's ID: 1630105014

5. Transporter 1 Company Name: GSX Services,Inc.

6. US EPA ID Number: MDD980554653

C. Illinois Transporter's ID: 1887

D. (803)798-2993 Transporter's Phone

7. Transporter 2 Company Name:

8. US EPA ID Number:

E. Illinois Transporter's ID:

F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address:
Special Waste Inc.
1713 Legion Road
Athens TN, 37303

10. US EPA ID Number: TND034547141

G. Illinois Facility's ID: 9471070001

H. Facility's Phone: (615 745-9222

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ(1) Waste Battery,Dry (D009) Corrosive Material,NA1813 (D002)	001	DF	00001	2	EPA HW Number: XX D0012 Authorization Number:
b. Waste Malathoin ORM-A,NA2783 (NONE)	001	DM	00015	1	EPA HW Number: XX NONE Authorization Number:
c. Non-Regulated Solid	001	DM	00001	2	EPA HW Number: XX NONE Authorization Number:
d. Empty Containers last contianing Dimethlyamine (NONE)	006	DM	00001	2	EPA HW Number: XX NONE Authorization Number:

J. Additional Descriptions for Materials Listed Above
a) 177085, 86LI#4,5 89LI#41 also HW#D009 Yd³=4#
b) 177084, 86LI#2
c) 177075, 86LI#9,10,11,12 87LI#5 Yd³=3# 10⁹#
d) SW1000, 86LI#1 87LI#3 Truck#028 PO#JF

K. Handling Codes for Wastes Listed Above in Item # 14: 1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information

Send all correspondence and billing to:
GSX,Inc.,PO Box 140,Saukville, WI 53080 DLA-200-89-D-0034 DO#86,87,89

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; **OR,** if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Date (Month Day Year)
Rodger Wilson	Rodger L Wilson	02 28 90

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
JEFFREY FEYEREISEN	Jeffrey Feyereisen	02 28 90

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name	Signature	Date (Month Day Year)
Tom McGhee	Tom McGhee	03 09 90

GENERATOR — TRANSPORTER — FACILITY

In case of a spill call the Illinois Office of Emergency Response at 217/782-3637 and the National Response Center at 800/424-8802 or 202/426-2675.

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COPY 1 TSD MAIL TO GENERATOR

STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY · DIVISION OF LAND POLLUTION CONTROL

P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/81 IL532-0610

FOR SHIPMENT OF HAZARDOUS, INFECTIOUS AND SPECIAL WASTE

19 MAR RECD

NOTE: FORM DESIGNED TO PRINT 8 LINES PER INCH. **EPA Form 8700-22 (Rev. 6-89)** Form Approved, OMB No. 2050-0039, Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. IL7570024177 Manifest Document No. 10009

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is required by Illinois law.

GENERATOR

3. Generator's Name and Mailing Address / Location If Different:
Scott AFB
DRMO, Bldg 4141, Scott AFB, IL 62225

4. Generator's Phone (618) 256-3105

A. Illinois Manifest Document Number: IL4193110 MANIFEST FEE PAID

B. Illinois Generator's ID: IL6301505114

5. Transporter 1 Company Name: GSX Services, Inc.

6. US EPA ID Number: MDD980554653

C. Illinois Transporter's ID: IL818117

D. (803) 798-2993 Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. Illinois Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address:
Special Waset, Inc
1713 Legion Rd.
Athens, TN 37303

10. US EPA ID Number: TND034547141

G. Illinois Facility's ID: IL9481020010

H. Facility's Phone: (615) 745-9222

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ (100) Waste Corrosive Liquid, NOS Corrosive Material, UN 1760 (D002)	001	DM	00030	1	EPA HW Number XX D002 Authorization Number
b. Waste Flammable Liquid, NOS Flammable Liquid, UN 1993 (D001)	002	DF	00004	1	EPA HW Number XX D001 Authorization Number
c. Hazardous Waste Liquid, NOS ORM-E, NA 9189	001	DF	00001	1	EPA HW Number XX NONE Authorization Number
d. RQ (1) Hazardous Waste Liquid, NOS ORM-E, NA 9189 (D011)	001	DM	00022	1	EPA HW Number XX D011 Authorization Number

J. Additional Descriptions for Materials Listed Above
a) 177[illegible] 89 I#17
b) 17717 89 I#6
c) 17718 87 I#54
d) 17705 89 I#1 3

Trailer #028 DO# [illegible]

K. Handling Codes for Wastes Listed Above in Item #14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information
Please send all correspondence and billing to:
GSX, Inc., PO Box 140, Saukville, WI 53080

DLA-200-89-D-0034 DO# 87,89

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name	Signature	Date (Month Day Year)
Rodger Wilson	Rodger Wilson	02 28 90

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
JEFFREY FEYEREISEN	Jeffrey Feyereisen	02 28 90

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name	Signature	Date (Month Day Year)
Tom McGhee	Tom McGhee	03 09 90

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COPY 1. TSD MAIL TO GENERATOR

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STATE OF ILLINOIS

ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/81 IL532-0610

FOR SHIPMENT OF HAZARDOUS, INFECTIOUS AND SPECIAL WASTE

9 MAR REC'D

NOTE: FORM DESIGNED TO PRINT 8 LINES PER INCH. EPA Form 8700-22 (Rev. 6-89) Form Approved. OMB No. 2050-0039, Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL7570024177 — Manifest Document No.: 10007

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address — Location If Different:

Scott AFB
DRMO BLDG 4141,Scott AFB,IL

4. Generator's Phone (618 256-3105 62225

5. Transporter 1 Company Name: GSX Services,Inc.

6. US EPA ID Number: MDD980554653

7. Transporter 2 Company Name:

8. US EPA ID Number:

9. Designated Facility Name and Site Address:

Special Waste Inc.
1713 Legion Road
Athens TN, 37303

10. US EPA ID Number: TND034547141

A. Illinois Manifest Document Number: IL4193122 MANIFEST FEE PAID

B. Illinois Generator's ID: 1163010150114

C. Illinois Transporter's ID: 1887

D. Transporter's Phone: (803798-2993

E. Illinois Transporter's ID:

F. Transporter's Phone:

G. Illinois Facility's ID: 9471970001

H. Facility's Phone: (615 745-9222

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ(1) Hazardous Waste Solid,NOS ORM-E,NA9189 (D008)	001	DM	00001	2	EPA HW Number: XXD008 Authorization Number:
b. RQ(100) Waste Oil,NOS Combustible Liquid,NA1270 (D001)	002	DF	00004	1	EPA HW Number: XXD001 Authorization Number:
c. RQ(100) Waste Corrosive Liquid,NOS Corrosive Material,UN1760 (D002)	002	DM	00100	1	EPA HW Number: XXD002 Authorization Number:
d. Non-Regulated Liquid (Replenisher)(Electrostatic Sol.)	002	DM	00040	1	EPA HW Number: XXNONE Authorization Number:

J. Additional Descriptions for Materials Listed Above:
a) 177103, 87LI#43 Hyd=25
b) 177106, 87LI#49
c) 177105, 87LI#47
d) 177104, 87LI#46

K. Handling Codes for Wastes Listed Above in Item #14: 1 = Gallons 2 = Cubic Yards

Truck#Q28 PO#JP

15. Special Handling Instructions and Additional Information

Send all correspondence and billing to:
GSX,Inc.,PO Box 140,Saukville, WI 53080 DLA-200-89-D-0034 DO#87

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Rodger Wilson — Signature: Rodger Wilson — Date: Month Day Year: 02 28 90

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: JEFFREY FEYEREISEN — Signature: Jeffrey Feyereisen — Date: Month Day Year: 02 28 90

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: — Signature: — Date: Month Day Year:

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name: Tom McGhee — Signature: Tom McGhee — Date: Month Day Year: 03 09 90

GENERATOR — TRANSPORTER — FACILITY

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COPY 1. TSD MAIL TO GENERATOR

STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/81 IL532-0610

FOR SHIPMENT OF HAZARDOUS, INFECTIOUS AND SPECIAL WASTE

19 MAR REC'D

NOTE: FORM DESIGNED TO PRINT 8 LINES PER INCH. **EPA Form 8700-22 (Rev. 6-89)** Form Approved. OMB No. 2050-0039, Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL7570024177 — Manifest Document No.: 10005

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address — Location If Different:

Scott AFB
DRMO BLDG 4141,Scott AFB,IL

4. Generator's Phone 618 256-3105 62225

5. Transporter 1 Company Name: GSX Services,Inc. — 6. US EPA ID Number: MDD980554653

7. Transporter 2 Company Name — 8. US EPA ID Number:

9. Designated Facility Name and Site Address — 10. US EPA ID Number:

Special Waste Inc.
1713 Legion Road
Athens TN, 37303 — TND034547141

A. Illinois Manifest Document Number: IL4193123 MANIFEST FEE PAID

B. Illinois Generator's ID: 1163010501 4

C. Illinois Transporter's ID: 1887

D. (803798-2993 Transporter's Phone

E. Illinois Transporter's ID:

F. ( ) Transporter's Phone

G. Illinois Facility's ID: 9471070001

H. Facility's Phone: (615) 745-9222

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. Waste Flammable Liquid,NOS Flammalbe Liquid,UN1993 (D001)	001	DF	00001	1	EPA HW Number: XXD001 Authorization Number:
b. Waste Flammable Liquid,NOS Flammable Liquid,UN1993 (D001,F003,F005)	001	DF	00001	1	EPA HW Number: XXD001 Authorization Number:
c. RQ(1) Waste Battery,Dry Corrosive Material,NA1813 (D002,D006)	001	DM	00001	2	EPA HW Number: XXD002 Authorization Number:
d. Non-Regulated Solid (Hardness Control)	001	DF	00001	2	EPA HW Number: XXNON Authorization Number:

J. Additional Descriptions for Materials Listed Above
a) 177098, 89LT#38
b) 177099, 89LT#39
c) 177017, 89LT#[illegible]
d) 177[illegible] 89LT#43 [illegible] Truck#Q28 PO#JP

K. Handling Codes for Wastes Listed Above In Item #14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information

Send all correspondence and billing to:
GSX,Inc.,PO Box 140,Saukville, WI 53080 DLA-200-89-D-0034 DO#87,89

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Printed/Typed Name: Rodger Wilson — Signature: Rodger Wilson — Date: Month Day Year: 02 28 90

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: JEFFREY FEYEREISEN — Signature: Jeffrey Feyereisen — Date: Month Day Year: 02 28 90

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: — Signature: — Date: Month Day Year:

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name: Tom McGhee — Signature: Tom McGhee — Date: Month Day Year: 03 09 90

GENERATOR — TRANSPORTER — FACILITY

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COPY 1 TSD MAIL TO GENERATOR

STATE OF ILLINOIS

ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/81 IL532-0610

FOR SHIPMENT OF HAZARDOUS, INFECTIOUS AND SPECIAL WASTES

MAR REC'D

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. IL7570024177 Manifest Document No. 00008

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is required by Illinois law.

A. Illinois Manifest Document Number IL4193125 MANIFEST FEE PAID

B. Illinois Generator's ID [illegible]

C. Illinois Transporter's ID [illegible]

D. (803)798-2993 Transporter's Phone

E. Illinois Transporter's ID [illegible]

F. ( ) Transporter's Phone

G. Illinois Facility's ID 9471017000

H. Facility's Phone (615) 745-9222

GENERATOR

Generator's Name and Mailing Address / Location If Different:

Scott AFB
DRMO BLDG 4141, Scott AFB, IL

4. Generator's Phone (618 256-3105 62225

5. Transporter 1 Company Name: GSX Services, Inc.

6. US EPA ID Number: MDD980554653

7. Transporter 2 Company Name:

8. US EPA ID Number:

9. Designated Facility Name and Site Address:

Special Waste Inc.
1713 Legion Road
Athens TN, 37303

10. US EPA ID Number: TND034547141

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. RQ(1) Waste Battery, Dry Corrosive Material, NA1813 (D002, D011)	001	DF	00001	2	EPA HW Number XXD011 Authorization Number
b. ~~RQ(100) Waste Corrosive Liquid, NOS Corrosive Material, UN1760 (D002)~~	Not Shipped				EPA HW Number XXD002 Authorization Number
c. Waste Battery, Dry Corrosive Material, NA1813 (D002)	001	DF	00001	2	EPA HW Number XXD002 Authorization Number
d. Non-Regulated Solid (Photographic Paper)	001	DF	00001	2	EPA HW Number XXNONE Authorization Number

J. Additional Descriptions for Materials Listed Above

a) 177092 89DT#12, A1 of 2 HW#D002 Wt=[illegible]

b) ~~177057 89DT#12-27 Not Shipped~~

c) 177061 89DT#13-14,15,16,17,18,19,20,21,22,23,24,25,26,27,28 Wt=02

d) 177093 89DT#16 Wt=06 Truck#928 PO#JF

K. Handling Codes for Wastes Listed Above In Item #14: 1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information

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GSX, Inc., PO Box 140, Saukville, WI 53080 DLA-200-89-D-0034 DO#87,89

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; **OR**, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Date (Month Day Year)
Rodger Wilson	Rodger Wilson	03 18 90

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
JEFFREY FEYERSER	Jeffrey Feyerser	03 22 90

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name	Signature	Date (Month Day Year)
Tom McGhee	Tom McGhee	03 30 90

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

In case of a spill call the Illinois Office of Emergency Response at 217/782-3637 and the National Response Center at 800/424-8802 or 202/426-2675.

STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/81 IL532-0610

FOR SHIPMENT OF HAZARDOUS, INFECTIOUS AND SPECIAL WASTE

NOTE: FORM DESIGNED TO PRINT 8 LINES PER INCH. **EPA Form 8700-22 (Rev. 6-89)** Form Approved. OMB No. 2050-0039, Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. IL7570024177 Manifest Document No. 90087 2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address
Scott AFB
DRMO BLDG 4141, Scott AFB, IL

Location If Different: % LAWRENCE K. MAITLEN

4. Generator's Phone 618 256-3105 62225

A. Illinois Manifest Document Number IL4193143 MANIFEST FEE PAID

B. Illinois Generator's ID IL6300504

5. Transporter 1 Company Name: Environmental Trans.Service
6. US EPA ID Number: OKD981605363

C. Illinois Transporter's ID

D. 800 877-1772 Transporter's Phone

7. Transporter 2 Company Name
8. US EPA ID Number

E. Illinois Transporter's ID

F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address
Trade Waste Incineration
7 Mobile Ave
Sauget, IL 62201
10. US EPA ID Number: ILD098642424

G. Illinois Facility's ID

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	
a. RQ(10) Waste Calcium Cyanide Mixture, Solid Poison B, UN1575 (P021)	001	DF	00055	2 P	EPA HW Number XXP021 Authorization Number 0901001
b.					EPA HW Number XX Authorization Number
c.					EPA HW Number XX Authorization Number
d.					EPA HW Number XX Authorization Number

J. Additional Descriptions for Materials Listed Above
a) WRS # B247 LOW
KEEP DRY
1 CY = 2 Lbs
DOT
[illegible] PO 87 0125

K. Handling Codes for Wastes Listed Above
1. Gallons 2. Pounds 3. Tons 4. Cubic Yards

15. Special Handling Instructions and Additional Information

Send all correspondence and billing to:
CSX, Inc., PO Box 140, Saukville, WI 53080 DLA-200-89-D-0034 DO# 87

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Printed/Typed Name	Signature	Date Month Day Year
LAWRENCE K MAITLEN	Lawrence K Maitlen	03 28 90

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month Day Year
Phil Boggs	Phil Boggs	03 28 90

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name	Signature	Date Month Day Year
MARION SAYRE	Marion Sayre	03 28 90

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COPY 1 TSD MAIL TO GENERATOR

0-2356

In case of a spill call the Illinois Office of Emergency Response at 217/782-3637 and the National Response Center at 800/424-8802 or 202/426-2675.

STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/81 IL532-0610

FOR SHIPMENT OF HAZARDOUS, INFECTIOUS AND SPECIAL WASTE

NOTE: FORM DESIGNED TO PRINT 8 LINES PER INCH. **EPA Form 8700-22 (Rev. 6-89)** Form Approved. OMB No. 2050-0039, Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL7570024177 — Manifest Document No.: 10001

2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address: Scott AFB, DRMO, Bldg. 4141, Scott AFB, IL 62225 — Location If Different:

29 MAR REC'D

4. Generator's Phone (618) 256-5105

A. Illinois Manifest Document Number: IL4193131 MANIFEST FEE PAID

B. Illinois Generator's ID: 1630105014

C. Illinois Transporter's ID: 1887

D. (803) 798-2993 Transporter's Phone

5. Transporter 1 Company Name: GSX Services, Inc. — 6. US EPA ID Number: MDD980554653

7. Transporter 2 Company Name: ENVIRONMENTAL TRANSPORTATION SERVICE — 8. US EPA ID Number: OKD981605363

E. Illinois Transporter's ID:

F. (405) 677-8781 Transporter's Phone

9. Designated Facility Name and Site Address: GSX Services, Inc., Rte.11 Box 3, Wastlington Industrial Rd., Reidsville, NC 27320 — 10. US EPA ID Number: NCD000648451

G. Illinois Facility's ID:

H. Facility's Phone: (919) 342-5568

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. ~~RQ(1) Waste Flammable Solid, NOS Flammable Solid, UN1325~~ ~~(D001, D011)~~	NOT	Shipped	[illegible]		EPA HW Number: XX ~~D001~~ Authorization Number:
b. Waste Poison B, Solid Poison B, UN2811 (NONE)	001	DF	00001	2	EPA HW Number: XX NONE Authorization Number:
c. RQ(1) Waste Mercury, Metallic ORM-B, NA2809 (D009)	001	DF	00001	2	EPA HW Number: XX D009 Authorization Number:
d. Waste Oxidizer, NOS Oxidizer, UN1479 (D001)	001	DF	00001	2	EPA HW Number: XX D001 Authorization Number:

J. Additional Descriptions for Materials Listed Above: [illegible] Truck #028 PO#JF

K. Handling Codes for Wastes Listed Above in Item #14: 1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information

Please Send all billing and correspondence to;
GSX Inc., PO BOX 140, Saukville WI 53080

DLA-200-89-D-0034 DO#87,89

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name	Signature	Date (Month Day Year)
Rodger Wilson	Rodger Wilson	02 28 90

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
JEFFREY FEYEREISEN	Jeffrey Feyereisen	02 28 90

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
LARRY MARTIN	Larry Martin	03 10 90

19. Discrepancy Indication Space

Material on line 11b should have been shipped with a P122 code (Zinc Phosphide)

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name	Signature	Date (Month Day Year)
David Holmgreen	David Holmgreen	03 16 90

GENERATOR — TRANSPORTER — FACILITY

In case of a spill call the Illinois Office of Emergency Response at 217/782-3637 and the National Response Center at 800/424-8802 or 202/426-2675.

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COPY 1. TSD MAIL TO GENERATOR

STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/81 IL532-0610

FOR SHIPMENT OF HAZARDOUS, INFECTIOUS AND SPECIAL WASTE

19 MAR REC'D

NOTE: FORM DESIGNED TO PRINT 8 LINES PER INCH. **EPA Form 8700-22 (Rev. 6-89)** Form Approved. OMB No. 2050-0039, Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL7570024177 — Manifest Document No.: 10006

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address — Location If Different:

Scott AFB
DRMO BLDG 4141,Scott AFB,IL

4. Generator's Phone (618 256-3105 62225

A. Illinois Manifest Document Number: IL4193129 MANIFEST FEE PAID

B. Illinois Generator's ID: 1630105014

5. Transporter 1 Company Name: GSX Services,Inc. — 6. US EPA ID Number: MDD980554653

C. Illinois Transporter's ID: 1887

D. (808798-2999 Transporter's Phone

7. Transporter 2 Company Name — 8. US EPA ID Number

E. Illinois Transporter's ID

F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address — 10. US EPA ID Number

Special Waste Inc.
1713 Legion Road
Athens TN, 37303 — TND034547141

G. Illinois Facility's ID: 9471070001

H. Facility's Phone: (615) 745-9222

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ(1) Waste Paint Flammable Liquid,UN1263 (D001,D008)	004	DM	00020	1	EPA HW Number: XXD001 Authorization Number
b. Waste Corrosive Liquid,NOS Corrosive Material,UN1760 (D002)	001	DM	00011	1	EPA HW Number: XXD002 Authorization Number
c. RQ(100) Waste Corrosive Liquid,NOS Corrosive Material,UN1760 (D002)	001	DM	00024	1	EPA HW Number: XXD002 Authorization Number
d. Hazardous Waste Solid,NOS ORM-E,NA9189 (Rat Poison)	002	DF	00002	2	EPA HW Number: XXNONE Authorization Number

J. Additional Descriptions for Materials Listed Above

a) 177115, 89LI#29, Also HW# D008
b) 177041, 89LI#31,32
c) 177095, 89LI#34
d) 177096, 89LI#36 1yd³=20# Truck#Q28 PO#JF

K. Handling Codes for Wastes Listed Above In Item #14: 1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information

Send all correspondence and billing to:
GSX,Inc.,PO Box 140,Saukville, WI 53080 DLA-200-89-D-0034 DO#87

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Printed/Typed Name	Signature	Date (Month Day Year)
Rodger Wilson	Rodger Wilson	02 28 90

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
JEFFREY FEYERESEN	Jeffrey Feyeresen	02 28 90

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name	Signature	Date (Month Day Year)
Tom McGhee	Tom McGhee	03 09 90

GENERATOR — TRANSPORTER — FACILITY

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COPY 1. TSD MAIL TO GENERATOR

STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

SAFETY-KLEEN CORP. P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761 FOR SHIPMENT OF HAZARDOUS, INFECTIOUS AND SPECIAL WASTE

STATE PRESCRIBED FORM 5-160-02 State Form LPC 62 8/81 IL532-0610

NOTE: FORM DESIGNED TO PRINT 8 LINES PER INCH **EPA Form 8700-22 (6-89)** Form Approved. OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL7 570024177 | Manifest Document No.: ~~45076~~ 46

2. Page 1 of 1 | Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address / Location If Different:
SCOTT AIR FORCE BASE
375 ABG/DEEV
SCOTT AFB IL 62225

4. Generator's Phone (618) 256-2092

A. Illinois Manifest Document Number: IL 5055263 MANIFEST FEE PAID

B. Illinois Generator's ID: 1630105014

5. Transporter 1 Company Name: SAFETY-KLEEN CORP. | 6. US EPA ID Number: ILD 051060408

C. Illinois Transporter's ID: 1123

D. 618 398-6880 Transporter's Phone

7. Transporter 2 Company Name | 8. US EPA ID Number

E. Illinois Transporter's ID

F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address:
SAFETY-KLEEN CORP.
20 TUCKER DRIVE
CASEYVILLE IL 62232

10. US EPA ID Number: 5-160-02 ILD 981097819

G. Illinois Facility's ID: 1630250007

H. Facility's Phone: (618 398-6880

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. ~~WASTE PETROLEUM NAPHTHA~~ COMBUSTIBLE LIQUID UN1255(D001)(ERG #27)	008	DM	00200	1	EPA HW Number: X X D001 Authorization Number: 000004
b. ~~WASTE COMPOUND, CLEANING, LIQUID~~ CORROSIVE MATERIAL NA1760(F002)(ERG#60)	001	DM	00005	1	EPA HW Number: X X F002 Authorization Number: 000003
c.					EPA HW Number: X X Authorization Number:
d.					EPA HW Number: X X Authorization Number:

NOTICE: IN ACCORDANCE WITH 40 CFR 268.7, THE GENERATOR PROVIDES NOTICE THAT THE WASTE DESCRIBED AS 'WASTE PETROLEUM NAPHTHA' IS A RESTRICTED WASTE. THE WASTE CONTAINS THE FOLLOWING CONSTITUENTS WHOSE TREATMENT STANDARDS ARE NOTED: TOTAL HALOGENATED ORGANIC COMPOUNDS (1000 MG/L) LEAD (300 MG/L).

J. Additional Descriptions for Materials Listed Above: I(B) F004

K. Handling Codes for Wastes Listed Above In Item #14: 1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information: 9009 13351465 445076 5-160-02-2172 0450

SKDOT# A: 501 B: 503 C: D:

GENERATOR

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Printed/Typed Name: Conner, Jerry W | Signature | Date: Month 02 Day 28 Year 90

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: KURT HARTMAN | Signature | Date: Month 02 Day 28 Year 90

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name: Dina Payne | Signature | Date: Month 02 Day 28 Year 90

Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or [illegible] of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

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STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

SAFETY-KLEEN CORP. P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761 FOR SHIPMENT OF HAZARDOUS, INFECTIOUS AND SPECIAL WASTE.
STATE PRESCRIBED FORM State Form LPC 62 8/81 IL532-0610
5-160-02

NOTE: FORM DESIGNED TO PRINT 8 LINES PER INCH **EPA Form 8700-22 (6-89)** Form Approved. OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. IL7 570024177 | Manifest Document No. 45075 47 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address / Location If Different:
SCOTT AIR FORCE BASE
375 ABG/DEEV
SCOTT AIR FORCE BASE IL 62225

4. Generator's Phone (618) 256-2092

A. Illinois Manifest Document Number: IL 505262 MANIFEST FEE PAID
B. Illinois Generator's ID: 1630105014

5. Transporter 1 Company Name: SAFETY-KLEEN CORP. | 6. US EPA ID Number: ILD 051060408
C. Illinois Transporter's ID: 1123
D. 618 398-6880 Transporter's Phone

7. Transporter 2 Company Name | 8. US EPA ID Number
E. Illinois Transporter's ID
F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address: SAFETY-KLEEN CORP. 5-160-02
20 TUCKER DRIVE
CASEYVILLE IL 62232 | 10. US EPA ID Number: ILD 981097819
G. Illinois Facility's ID: 1630250007
H. Facility's Phone: (618 398-6880

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. WASTE PETROLEUM NAPHTHA COMBUSTIBLE LIQUID UN1255(D001)(ERG #27)	005	DM	00045	1	EPA HW Number: X X D001 Authorization Number: 000004
b.					EPA HW Number: X X Authorization Number:
c.					EPA HW Number: X X Authorization Number:
d.					EPA HW Number: X X Authorization Number:

NOTICE: IN ACCORDANCE WITH 40 CFR 268.7, THE GENERATOR PROVIDES NOTICE THAT THE WASTE DESCRIBED AS 'WASTE PETROLEUM NAPHTHA' IS A RESTRICTED WASTE. THE WASTE CONTAINS THE FOLLOWING CONSTITUENTS WHOSE TREATMENT STANDARDS ARE NOTED: TOTAL HALOGENATED ORGANIC COMPOUNDS (1000 MG/L); LEAD (500 MG/L).

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above in Item #14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information 9009 13351457 445075 5-160-02-2167 0450

SKDOT# A: 501 B: C: D:

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GENERATOR — Printed/Typed Name: Conner, Jerry W | Signature | Date: Month 02 Day 28 Year 90

TRANSPORTER
17. Transporter 1 Acknowledgement of Receipt of Materials — Printed/Typed Name: KURT HARTMAN | Signature | Date: Month 02 Day 28 Year 90
18. Transporter 2 Acknowledgement of Receipt of Materials — Printed/Typed Name | Signature | Date: Month Day Year

FACILITY
19. Discrepancy Indication Space

Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. — Printed/Typed Name: Dina Payne | Signature | Date: Month 02 Day 28 Year 90

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

In case of a spill call the Illinois Office of Emergency Response at 217/782-3637 and the National Response Center at 800/424-8802 or 202/426-2675.

STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

SAFETY-KLEEN CORP. P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761
STATE PRESCRIBED FORM 5-160-42 State Form LPC 62 8/81 IL532-0610
FOR SHIPMENT OF HAZARDOUS, INFECTIOUS AND SPECIAL WASTE.

NOTE: FORM DESIGNED TO PRINT 8 LINES PER INCH **EPA Form 8700-22 (6-89)** Form Approved. OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL7 570024177 | Manifest Document No.: 00043 ~~78832~~ | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law, but is required by Illinois law.

GENERATOR

Generator's Name and Mailing Address / Location If Different:
SCOTT AIR FORCE BASE
375 ABG/DEEU
SCOTT AIR FORCE BASE IL 62225

4. Generator's Phone (618) 256-2092

A. Illinois Manifest Document Number: IL 5039378 MANIFEST FEE PAID
B. Illinois Generator's ID: 1630105014

5. Transporter 1 Company Name: SAFETY-KLEEN CORP. | 6. US EPA ID Number: ILD 051060408
C. Illinois Transporter's ID: 1123
D. Transporter's Phone: 618 398-6880

7. Transporter 2 Company Name | 8. US EPA ID Number
E. Illinois Transporter's ID
F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address: SAFETY-KLEEN CORP.
633 EAST 138TH ST
DOLTON IL 60419
10. US EPA ID Number: 0-006-54 ILD 980613913
G. Illinois Facility's ID: 0310690006
H. Facility's Phone: (708 849-4850

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. WASTE PAINT RELATED MATERIAL FLAMMABLE LIQUID UN1263 (F003)(ERG #26)	004	DM	00052	1	EPA HW Number X X F003 Authorization Number 000161
b.					EPA HW Number X X Authorization Number
c.					EPA HW Number X X Authorization Number
d. NOTICE: IN ACCORDANCE WITH 40 CFR 268.7, THE GENERATOR PROVIDES NOTICE THAT THE WASTE DESCRIBED AS 'WASTE PAINT RELATED MATERIAL' IS A RESTRICTED WASTE. THE WASTE CONTAINS THE FOLLOWING CONSTITUENTS WHOSE TREATMENT STANDARDS ARE NOTED: ACETONE(0.59 PPM); MEK(0.75 PPM); METHYL ISOBUTYL KETONE(0.33 PPM); TOLUENE(0.33 PPM); AND XYLENE (0.15 PPM)					EPA HW Number X X Authorization Number

J. Additional Descriptions for Materials Listed Above
I(A) F005 3-16 GAL. DRUMS
1-5 GAL. CAN

Handling Codes for Wastes Listed Above in Item #14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information: 9005 12727921 178832 5-160-42-4182 0105
SKDOT# A: 523 B: C: 13459573 D:

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Conner, Jerry | Signature | Date: Month 01 Day 29 Year 90

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: KURT HARTMAN | Signature | Date: Month 01 Day 29 Year 90

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: Agnes Adams | Signature | Date: Month 02 Day 07 Year 90

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

In case of a spill call the Illinois Office of Emergency Response at 217/782-3637 and the National Response Center at 800/424-8802 or 202/426-2675.

STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

SAFETY-KLEEN CORP. P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761 FOR SHIPMENT OF HAZARDOUS, INFECTIOUS AND SPECIAL WASTE.
STATE PRESCRIBED FORM State Form LPC 62 8/81 IL532-0610
5-160-02

NOTE: FORM DESIGNED TO PRINT 8 LINES PER INCH **EPA Form 8700-22 (6-89)** Form Approved. OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. IL7 570024177 — Manifest Document No. 00044 ~~00544~~ — 2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address / Location If Different:
SCOTT AIR FORCE BASE
375 ABG/DEEV
SCOTT AIR FORCE BASE IL 62225

4. Generator's Phone (618) 256-2092

A. Illinois Manifest Document Number: IL 5039111 — MANIFEST FEE PAID

B. Illinois Generator's ID: 1630105014

5. Transporter 1 Company Name: SAFETY-KLEEN CORP. — 6. US EPA ID Number: ILD 051060408 — C. Illinois Transporter's ID: 1123 — D. (618) 398-6880 Transporter's Phone

7. Transporter 2 Company Name — 8. US EPA ID Number — E. Illinois Transporter's ID — F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address:
SAFETY-KLEEN CORP.
20 TUCKER DRIVE
CASEYVILLE IL 62232
10. US EPA ID Number: 5-160-02 ILD 981097819

G. Illinois Facility's ID: 1630250007

H. Facility's Phone: 618 398-6880

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. WASTE PETROLEUM NAPHTHA COMBUSTIBLE LIQUID UN1255 (EPA D001) (ERG #27)	005	DM	00049	1	EPA HW Number: X X D001 — Authorization Number: 000004
b. WASTE COMPOUND, CLEANING LIQUID CORROSIVE MATERIAL NA1760 (EPA F002)	001	DM	00005	1	EPA HW Number: X X F 0 0 2 — Authorization Number: 0 0 0 0 0 3
c. WASTE PETROLEUM NAPHTHA COMBUSTIBLE LIQUID UN1255 (EPA D001) (ERG #27)	001	DF	00004	1	EPA HW Number: X X D 0 0 1 — Authorization Number: 0 0 0 0 0 4
NOTICE: IN ACCORDANCE WITH 40 CFR 268.7, THE GENERATOR PROVIDES NOTICE THAT THE WASTE DESCRIBED AS 'WASTE PETROLEUM NAPHTHA' IS A RESTRICTED WASTE. THE WASTE CONTAINS THE FOLLOWING CONSTITUENTS WHOSE TREATMENT STANDARDS ARE NOTED: TOTAL HALOGENATED ORGANIC COMPOUNDS (1000 MG/L), LEAD (500 MG/L).					EPA HW Number: X X — Authorization Number:

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above in Item #14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information: 9005 12565883 138344 5-160-02-2167 0450

SKDOT# A: 501 B: C: D:

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; **OR**, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR

Printed/Typed Name: X Conner, Jerry — Signature: X [signature] — Date Month Day Year: 10 29 90

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: KURT HARTMAN — Signature: Kurt Hartman — Date Month Day Year: 10 29 90

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name: Dina Payne — Signature: Dina Payne — Date Month Day Year: 10 29 90

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

In case of a spill call the Illinois Office of Emergency Response at 217/782-3637 and the National Response Center at 800/424-8802 or 202/426-2675.

29 JAN REC'D

NORTH CAROLINA HAZARDOUS WASTE MANIFEST

Please print or type. *(Form designed for use on elite (12-pitch) typewriter.)* *Form Approved. OMB No. 2050-0039. Expires 9-30-91*

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. IL7570024177	Manifest Document No. 00001	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.

GENERATOR

3. Generator's Name and Mailing Address
Scott AFB
DRMO BLDG 4141, Scott AFB, IL
4. Generator's Phone (618) 256-3105 62225

A. State Manifest Document Number: NCD907302
B. State Generator's ID:

5. Transporter 1 Company Name: GSX .Services
6. US EPA ID Number: MDD980554653
C. State Transporter's ID:
D. Transporter's Phone: 803-798-2993

7. Transporter 2 Company Name: Environmental Transportation Serv.
8. US EPA ID Number: OKD981605363
E. State Transporter's ID:
F. Transporter's Phone: 405-677-8781

9. Designated Facility Name and Site Address
GSX, Services, Inc.
Route 11, Box 3, Watlington Industrial Rd.
Reidsville, NC 27320
10. US EPA ID Number: NCD000648451
G. State Facility's ID:
H. Facility's Phone: 919-342-5568

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vo	I. Waste No.
a. "RQ" 1 Waste Battery, Dry ✓ Corrosive Material, NA1813 (D002,D009)	001	F	00038	P	D002 D009
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above
AA. RP177027
Truck# G-40 PO# JF

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Send all correspondence and billing to:
GSX, Inc., PO Box 140, Saukville, WI 53080 DLA-200-89-D-0034 DO# 73

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Month	Day	Year
Rodger Wilson	Rodger Wilson	01	03	90

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
JEFFREY FEYEREISEN	Jeffrey Feyereisen	01	03	90

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Mike Sampley	Mike Sampley	01	11	90

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
Peter Gallenberger	Peter Gallenberger	01	19	90

EPA Form 8700-22 (Rev. 11-88) Previous editions are obsolete.

INSTRUCTIONS ON BACK SHEET

STATE OF ILLINOIS — ENVIRONMENTAL PROTECTION AGENCY — DIVISION OF LAND POLLUTION CONTROL

P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

FOR SHIPMENT OF HAZARDOUS, INFECTIOUS AND SPECIAL WASTE

State Form LPC 62 8/81 IL532-

2-1 JAN REC'D

NOTE: FORM DESIGNED TO PRINT 8 LINES PER INCH. **EPA Form 8700-22 (Rev. 6-89)** Form Approved. OMB No. 2050-0039, Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. IL7570024177 — Manifest Document No. 0012

2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address / Location If Different:
Scott AFB
DRMO BLDG 4141, Scott AFB, IL

4. Generator's Phone 618 256-3105 62225

A. Illinois Manifest Document Number: IL 4193106 — MANIFEST FEE PAID

B. Illinois Generator's ID: 1630105014

5. Transporter 1 Company Name: Environmental Trans. Services — 6. US EPA ID Number: OKD981605363

C. Illinois Transporter's ID: 1859

D. (800)877-1772 Transporter's Phone

7. Transporter 2 Company Name — 8. US EPA ID Number

E. Illinois Transporter's ID

F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address:
Special Waste Inc.
1713 Legion Road
Athens TN, 37303

10. US EPA ID Number: TND034547141

G. Illinois Facility's ID

H. Facility's Phone: (615) 745-9222

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ(100) Waste Battery, Dry Corrosive Material, NA1813 (D002)	001	DM	00001	2	EPA HW Number XXD002 Authorization Number
b. ~~NA~~ RQ(100) Waste Combustible Liquid, NOS Combustible Liquid, NA1993 (D001)	001	DF	00002	1	EPA HW Number XXD001 Authorization Number
c. ~~Hazardous Waste Solid, NOS~~ ~~ORM-E, NA9189~~ Not Shipped	Not Shipped James Ward 1-4-90				EPA HW Number XXNONE Authorization Number
d. Non_REGULATED ~~LIQUID~~ SOLID	001	DF	00001	2	EPA HW Number XXNONE Authorization Number

J. Additional Descriptions for Materials Listed Above
a) 177061 1yd³ = 42# LI 20 → 28
b) 177031 LI 30
c) ~~177082 Not Shipped (AW)~~
d) 177058 1yd³ = 2# LI 22 Truck# H14 PO# 8910

K. Handling Codes for Wastes Listed Above In Item # 14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information

Send all correspondence and billing to:
GSX, Inc., PO Box 140, Saukville, WI 53080 DLA-200-89-D-0034 DO# 77

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; **OR**, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR — Printed/Typed Name: Rebecca L. Brown — Signature: Rebecca L Brown — Date: Month Day Year: 01 1 90

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials — Printed/Typed Name: Ross Bohannon — Signature: Ross Bohannon — Date: 01 1 90

18. Transporter 2 Acknowledgement of Receipt of Materials — Printed/Typed Name — Signature — Date

FACILITY

19. Discrepancy Indication Space

Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. — Printed/Typed Name: Tom McGhee — Signature: Tom McGhee — Date: 01 18 90

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

In case of a spill call the Illinois Office of Emergency Response at 217/782-3637 and the National Response Center at 800/424-8802 or 202/426-2675.

STATE OF ILLINOIS — ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

SAFETY-KLEEN CORP. STATE PRESCRIBED FORM — P.O. BOX 19276 — SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761 — State Form LPC 62 8/81 IL532-0610 — FOR SHIPMENT OF HAZARDOUS, INFECTIOUS AND SPECIAL WASTE.

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter.) **EPA Form 8700-22 (9-88)** Form Approved. OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL7570024177
Manifest Document No.: ~~85634~~ 90042
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but is required by Illinois law.

GENERATOR

Generator's Name and Mailing Address
SCOTT AIR FORCE BASE
375 ABG/DEEV
SCOTT AFB, IL 62225

A. Illinois Manifest Document Number: IL 5010992 MANIFEST FEE PAID

B. Illinois Generator's ID: 1630105014

4. Generator's Phone (618) 256-2092

5. Transporter 1 Company Name: SAFETY-KLEEN CORP.
6. US EPA ID Number: ILD051060408
C. Illinois Transporter's ID: 1123
D. (618 398-6880 Transporter's Phone

7. Transporter 2 Company Name
8. US EPA ID Number
E. Illinois Transporter's ID
F. ( ) Transporter's Phone

9. Designed Facility Name and Site Address
SAFETY-KLEEN CORP.
20 TUCKER DR.
CASEYVILLE, IL 62232
10. US EPA ID Number: ILD981097819
G. Illinois Facility's ID: 1630250007
H. Facility's Phone (618 398-6880

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. WASTE PETROLEUM NAPHTHA COMBUSTIBLE LIQUID, UN1255 (EPA D001)	008	DM	00208	1	EPA HW Number: XXD001 Authorization Number: 000004
b.					EPA HW Number: XX Authorization Number:
c.					EPA HW Number: XX Authorization Number:
d.					EPA HW Number: XX Authorization Number:

Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above In Item #14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information
IL WEEK 03 CUSTOMER 5-160-02-2172 PREPRINT 985634 TERR 04-50

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, and Illinois regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Conner, Jerry W — Signature — Date: Month 01 Day 16 Year 90

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: KURT HARTMAN — Signature — Date: Month 01 Day 16 Year 90

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: ~~Conner, Jerry W~~ — Signature — Date: Month 01 Day 16 Year 90

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: Dina Payne — Signature — Date: Month 01 Day 16 Year 90

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

In case of a spill call the Illinois Office of Emergency Response at 217/782-3637 and the National Response Center at 800/424-8802 or 202/426-2675.

STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

SAFETY-KLEEN CORP. STATE PRESCRIBED FORM 5-160-42 P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761 State Form LPC 62 8/81 IL532-0610 FOR SHIPMENT OF HAZARDOUS, INFECTIOUS AND SPECIAL WASTE.

NOTE: FORM DESIGNED TO PRINT 8 LINES PER INCH **EPA Form 8700-22 (6-89)** Form Approved. OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL7 570024177 | Manifest Document No.: 68840 ~~78438~~ | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address / Location If Different:
SCOTT AIR FORCE BASE
375 ABG/DEEU
SCOTT AIR FORCE BASE IL 62225

4. Generator's Phone (618) 256-2092

A. Illinois Manifest Document Number: IL 5037074 MANIFEST FEE PAID

B. Illinois Generator's ID: 1630105014

5. Transporter 1 Company Name: SAFETY-KLEEN CORP. | 6. US EPA ID Number: ILD 051060408

C. Illinois Transporter's ID: 1123

D. 618 398-6880 Transporter's Phone

7. Transporter 2 Company Name | 8. US EPA ID Number

E. Illinois Transporter's ID

F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address:
SAFETY-KLEEN CORP.
633 EAST 138TH ST
DOLTON IL 60419

10. US EPA ID Number: 0-006-54 / ILD 980613913

G. Illinois Facility's ID: 0310690006

H. Facility's Phone: (708 849-4850

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. WASTE PAINT RELATED MATERIAL FLAMMABLE LIQUID NA1263 (EPA F003)	002	DM	00021	1	EPA HW Number: X X F003; Authorization Number: 000161
b.					EPA HW Number: X X; Authorization Number:
c.					EPA HW Number: X X; Authorization Number:
d.					EPA HW Number: X X; Authorization Number:

NOTICE: IN ACCORDANCE WITH 40 CFR 268.7, THE GENERATOR PROVIDES NOTICE THAT THE WASTE DESCRIBED AS 'WASTE PAINT RELATED MATERIAL' IS A RESTRICTED WASTE. THE WASTE CONTAINS THE FOLLOWING CONSTITUENTS WHOSE TREATMENT STANDARDS ARE NOTED: ACETONE(0.59 PPM); MEK(0.75 PPM); TCE(0.33 PPM); TOLUENE(0.33 PPM); AND XYLENE (0.12 PPM).

J. Additional Descriptions for Materials Listed Above:
I(A) F005
1-16 GAL DRUM
1-5 GAL CAN

K. Handling Codes for Wastes Listed Above in Item #14:
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information: 9001 11968914 873438 5-160-42-4182 0105 12664009

SKDOT# A: 523 B: C: D:

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name	Signature	Date (Month Day Year)
Conner, Jerry W		01 04 90

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
KURT HARTMAN	Kurt Hartman	01 04 90

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name	Signature	Date (Month Day Year)
Agnes Adams	Agnes Adams	01 08 90

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

In case of a spill call the Illinois Office of Emergency Response at 217/782-3637 and the National Response Center at 800/424-8802 or 202/426-2675.

STATE OF ILLINOIS — ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

SAFETY-KLEEN CORP. STATE PRESCRIBED FORM 5-160-02 — P.O. BOX 19276 — SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761 — State Form LPC 62 8/81 IL532-0610 — FOR SHIPMENT OF HAZARDOUS, INFECTIOUS AND SPECIAL WASTE.

NOTE: FORM DESIGNED TO PRINT 8 LINES PER INCH — **EPA Form 8700-22 (6-89)** — Form Approved. OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL7 570024177 — Manifest Document No.: 00641 42269

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address / Location If Different:
SCOTT AIR FORCE BASE
375 ABG/DEEV
SCOTT AIR FORCE BASE IL 62225

4. Generator's Phone (618) 256-2092

A. Illinois Manifest Document Number: IL 5051814 — MANIFEST FEE PAID

B. Illinois Generator's ID: 1630105014

5. Transporter 1 Company Name: SAFETY-KLEEN CORP. — 6. US EPA ID Number: ILD 051060408

C. Illinois Transporter's ID: 1123 — D. 618 398-6880 Transporter's Phone

7. Transporter 2 Company Name — 8. US EPA ID Number

E. Illinois Transporter's ID — F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address: SAFETY-KLEEN CORP. 5-160-02
20 TUCKER DRIVE
CASEYVILLE IL 62232 — 10. US EPA ID Number: ILD 981097819

G. Illinois Facility's ID: 1630250007

H. Facility's Phone: (618 398-6880

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. WASTE PETROLEUM NAPHTHA COMBUSTIBLE LIQUID UN1255 (EPA D001)	015	DM	00241	1	EPA HW Number: X X D001 / Authorization Number: 000004
b. WASTE COMPOUND CLEANING LIQUID CORROSIVE MATERIAL NA1760 (EPA F002)	002	DM	00010	1	EPA HW Number: X X F 0 0 2 / Authorization Number: 0 0 0 0 0 3
c.					EPA HW Number: X X / Authorization Number:
d. NOTICE: IN ACCORDANCE WITH 40 CFR 268.7, THE GENERATOR PROVIDES NOTICE THAT THE WASTE DESCRIBED AS 'WASTE PETROLEUM NAPHTHA' IS A RESTRICTED WASTE. THE WASTE CONTAINS THE FOLLOWING CONSTITUENTS WHOSE TREATMENT STANDARDS ARE NOTED: TOTAL HALOGENATED ORGANIC COMPOUNDS (1000 MG/L) LEAD (500 MG/L).					EPA HW Number: X X / Authorization Number:

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above in Item #14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information: 9001 11817137 843269 5-160-02-2167 0450

SKDOT# A: 501 B: C: D:

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Date (Month Day Year)
Conner, Jerry		01 04 90

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
KURT HARTMAN	Kurt Hartman	01 04 90

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

FACILITY

19. Discrepancy Indication Space

Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name	Signature	Date (Month Day Year)
Dina Payne	Dina Payne	01 04 90

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

In case of a spill call the Illinois Office of Emergency Response at 217/782-3637 and the National Response Center at 800/424-8802 or 202/426-2675.

STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

SAFETY-KLEEN CORP. STATE PRESCRIBED FORM P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761 FOR SHIPMENT OF HAZARDOUS, INFECTIOUS AND SPECIAL WASTE

5-160-42 State Form LPC 62 8/81 IL532-0610

NOTE: FORM DESINGED TO PRINT 8 LINES PER INCH EPA Form 8700-22 (6-89) Form Approved. OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL7 570024177
Manifest Document No.: ~~47367~~ 00038
2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address
SCOTT AIR FORCE BASE
375 ABG/DEEU
SCOTT AIR FORCE BASE IL 62225

4. Generator's Phone (618)256-2092

A. Illinois Manifest Document Number: IL5020788 MANIFEST FEE PAID

B. Illinois Generator's ID: 1630100015

5. Transporter 1 Company Name: SAFETY-KLEEN CORP.
6. US EPA ID Number: ILD 051060408

C. Illinois Transporter's ID: 1123
D. Transporter's Phone: 618 398-6880

7. Transporter 2 Company Name:
8. US EPA ID Number:

E. Illinois Transporter's ID:
F. Transporter's Phone:

9. Designed Facility Name and Site Address
SAFETY-KLEEN CORP.
633 EAST 138TH ST
DOLTON IL 60419

10. US EPA ID Number: 0-006-54 ILD 980613913

G. Illinois Facility's ID: 0310690006
H. Facility's Phone: 708 849-4850

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. WASTE PAINT RELATED MATERIAL FLAMMABLE LIQUID NA1263 (EPA F003)	002	DM	00021	1	EPA HW Number: X X F003 Authorization Number: 000161
b.					EPA HW Number: X X Authorization Number:
c.					EPA HW Number: X X Authorization Number:

NOTICE: IN ACCORDANCE WITH 40 CFR 268.7, THE GENERATOR PROVIDES NOTICE THAT THE WASTE DESCRIBED AS 'WASTE PAINT RELATED MATERIAL' IS A RESTRICTED WASTE. THE WASTE CONTAINS THE FOLLOWING CONSTITUENTS WHICH TREATMENT STANDARDS ARE NOTED: ACETONE(0.59 PPM); MEK(0.75 PPM); [illegible] (0.33 PPM); TOLUENE(0.33 PPM); AND XYLENE (0.1[illegible] PPM).

EPA HW Number: X X Authorization Number:

14. Additional Descriptions for Materials Listed Above
I(A) F005
1-16 GAL
1-5 GAL

15. Handling Codes for Wastes Listed Above in Item #14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information 8949 11217338 567337 5-160-42-4182 0105

SKDOT# A: 523 B: C: D: 12153227

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, and Illinois regulations.

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Printed/Typed Name: LESTER P. WEISSERT Signature: Lester P. Weissert Date: Month 12 Day 06 Year 89

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: KURT HARTMAN Signature: Kurt Hartman Date: Month 12 Day 06 Year 89

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Signature: Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: Agnes Adams Signature: Agnes Adams Date: Month 12 Day 11 Year 89

GENERATOR / TRANSPORTER / FACILITY

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

In case of a spill call the Illinois Office of Emergency Response at 217/782-3637 and the National Response Center at 800/424-8802 or 202/426-2675.

safety-kleen®

Certificate of Reassurance

Safety-Kleen Envirosystems certifies that on this date Dec. 6, 1989
the material supplied by Scott Air Force Base
entered the treatment process.

The method of treatment has been deemed suitable for your spent materials and fully complies with all applicable regulatory and permit requirements.

Manifest Number IL5020787
Manifest Date Dec. 11, 1989

Pamelle A. Bretzke
Authorized Signature

STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

SAFETY-KLEEN CORP. STATE PRESCRIBED FORM 5-160-02 P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761 State Form LPC 62 8/81 IL532-0610

FOR SHIPMENT OF HAZARDOUS, INFECTIOUS AND SPECIAL WASTE

NOTE: FORM DESINGED TO PRINT 8 LINES PER INCH EPA Form 8700-22 (6-89) Form Approved. OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. IL7 570024177 Manifest Document No. 00039 ~~36928~~

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address
SCOTT AIR FORCE BASE
375 ABG/DEEV
SCOTT AIR FORCE BASE IL 62225

4. Generator's Phone (618) 256-2092

A. Illinois Manifest Document Number IL5020532 MANIFEST FEE PAID

B. Illinois Generator's ID 1630105014

5. Transporter 1 Company Name SAFETY-KLEEN CORP.

6. US EPA ID Number ILD 051060408

C. Illinois Transporter's ID 1123

D. 618 398-6880 Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. Illinois Transporter's ID

F. ( ) Transporter's Phone

9. Designed Facility Name and Site Address
SAFETY-KLEEN CORP. 5-160-02
20 TUCKER DRIVE
CASEYVILLE IL 62232

10. US EPA ID Number ILD 981097819

G. Illinois Facility's ID 1630250007

H. Facility's Phone 618 398-6880

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. WASTE PETROLEUM NAPHTHA COMBUSTIBLE LIQUID UN1255 (EPA D001)	012	DM	00245	1	EPA HW Number X D001 Authorization Number 000004
b. WASTE COMPOUND CLEANING LIQUID CORROSIVE MATERIAL, NA1760 (EPA F002)	001	DM	00005	1	EPA HW Number X F002 Authorization Number 000103
c.					EPA HW Number X Authorization Number
d. NOTICE: IN ACCORDANCE WITH 40 CFR 268.7, THE GENERATOR PROVIDES NOTICE THAT THE WASTE DESCRIBED AS 'WASTE PETROLEUM NAPHTHA' IS A RESTRICTED WASTE. THE WASTE CONTAINS THE FOLLOWING CONSTITUENTS WHOSE TREATMENT STANDARDS ARE NOTED: TOTAL HALOGENATED ORGANIC COMPOUNDS (1000 MG/L) AND LEAD (500 MG/L).					EPA HW Number X Authorization Number

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above In Item #14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information 8949 11070034 526923 5-160-02-2167 0450

SKDOT# A: 501 B: C: D:

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Printed/Typed Name	Signature	Date (Month Day Year)
LESTER P. WEISSERT	Lester P Weissert	12 06 89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials		
Printed/Typed Name	Signature	Date (Month Day Year)
KURT HARTMAN	Kurt Hartman	12 06 89
18. Transporter 2 Acknowledgement of Receipt of Materials		
Printed/Typed Name	Signature	Date (Month Day Year)

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name	Signature	Date (Month Day Year)
Dina Payne	Dina Payne	12 06 89

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COPY 1. TSD MAIL TO GENERATOR

In case of a spill call the Illinois Office of Emergency Response at 217/782-3637 and the National Response Center at 800/424-8802 or 202/426-2675.

STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

SAFETY-KLEEN CORP. STATE PRESCRIBED FORM P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761 State Form LPC 62 8/81 IL532-0610 FOR SHIPMENT OF HAZARDOUS, INFECTIOUS AND SPECIAL WASTE

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter.) **EPA Form 8700-22 (9-88)** Form Approved. OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL7570024177 | Manifest Document No.: 00035 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law, but is required by Illinois law.

GENERATOR

Generator's Name and Mailing Address
SCOTT AIR FORCE BASE
375 ABG/DEEV
SCOTT AFB, IL 62225

A. Illinois Manifest Document Number: IL 5011013 MANIFEST FEE PAID

B. Illinois Generator's ID: 1 6 3 0 1 0 5 0 1 4

4. Generator's Phone (618) 256-2092

5. Transporter 1 Company Name: SAFETY-KLEEN CORP. | 6. US EPA ID Number: ILD051060408 | C. Illinois Transporter's ID: 1 1 2 3 | D. (618) 398-6880 Transporter's Phone

7. Transporter 2 Company Name | 8. US EPA ID Number | E. Illinois Transporter's ID | F. ( ) Transporter's Phone

9. Designed Facility Name and Site Address
SAFETY-KLEEN CORP.
20 TUCKER DR.
CASEYVILLE, IL 62232

10. US EPA ID Number: ILD981097819

G. Illinois Facility's ID: 1 6 3 0 2 5 0 0 0 7

H. Facility's Phone: 618) 398-6880

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. WASTE PETROLEUM NAPHTHA COMBUSTIBLE LIQUID, UN1255 (EPA D001)	007	1	00178	DM	EPA HW Number X X D 0 0 1 Authorization Number 0 0 0 0 0 4
b.					EPA HW Number X X Authorization Number
c.					EPA HW Number X X Authorization Number
d.					EPA HW Number X X Authorization Number

Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above in Item #14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information
IL WEEK 43 PREPRINT 072587 CUSTOMER 5-160-02-2172 TERR 0450

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Printed/Typed Name: DAN SCHLOESSER | Signature: Daniel C. Schloesser | Date Month Day Year: 10 27 89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: KURT HARTMAN | Signature: Kurt Hartman | Date Month Day Year: 10 27 89

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Date Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: Dina Payne | Signature: Dina Payne | Date Month Day Year: 11 02 89

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COPY 1. TSD MAIL TO GENERATOR

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Scott Air Force Base
375 ABG/DEEV
Scott Air Force Base, IL 62225

Safety-Kleen®

November 27, 1989

Dear Lt. Jatho,

Enclosed is a copy of Illinois Manifest IL5011013

Dated October 27, 1989

We have made some corrections in this manifest

[Item 12 Line A-Container type should read DM not 1. Also, Item 14 A-Unit weight/volume should read 1, not DM.]

We are enclosing the incorrect and corrected copies. We have notified all parties involved of this error and they have corrected their copies to reflect the same changes.

Thank you,

Safety-Kleen Corp.

Enclosures

SAFETY-KLEEN CORP.
STATE PRESCRIBED FORM

P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761
State Form LPC 62 8/81 IL532-0610

FOR SHIPMENT OF HAZARDOUS, INFECTIOUS AND SPECIAL WASTE.

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter.)

EPA Form 8700-22 (9-88)

Form Approved. OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL7570024177
Manifest Document No.: 00035
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address
SCOTT AIR FORCE BASE
375 ABG/DEEV
SCOTT AFB, IL 62225
4. Generator's Phone (618) 256-2092

A. Illinois Manifest Document Number: IL 5011013 MANIFEST FEE PAID
B. Illinois Generator's ID: 1 1 6 3 0 1 0 5 0 1 1 4
C. Illinois Transporter's ID: [illegible]
D. (618) 398-6880 Transporter's Phone
E. Illinois Transporter's ID: [illegible]
F. ( ) Transporter's Phone
G. Illinois Facility's ID: 1 6 3 0 2 5 0 0 0 7
H. Facility's Phone: 618) 398-6880

5. Transporter 1 Company Name: SAFETY-KLEEN CORP.
6. US EPA ID Number: ILD051060408
7. Transporter 2 Company Name:
8. US EPA ID Number:
9. Designed Facility Name and Site Address: SAFETY-KLEEN CORP.
20 TUCKER DR.
CASEYVILLE, IL 62232
10. US EPA ID Number: ILD981097819

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. WASTE PETROLEUM NAPHTHA COMBUSTIBLE LIQUID, UN1255 (EPA D001)	007		00178		EPA HW Number: X X D 0 0 1 Authorization Number: 0 0 0 0 0
b.					EPA HW Number: X X Authorization Number:
c.					EPA HW Number: X X Authorization Number:
d.					EPA HW Number: X X Authorization Number:

Received

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above in Item #14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information
IL WEEK 43 PREPRINT 072587 CUSTOMER 5-1610-02-2171 TSDR 0450

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Printed/Typed Name	Signature	Date (Month Day Year)
DAN SCHLOESSER	[signature]	10 27 89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
KURT HARTMAN	[signature]	10 27 89

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name	Signature	Date (Month Day Year)
[illegible]	[signature]	10 31 89

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COPY 3. TSD COPY

In case of a spill call the Illinois Office of Emergency Response at 217/782-7860 and the National Response Center at 800/424-8802 or 202/426-2675.

NOTICE OF LAND DISPOSAL RESTRICTION OF WASTE

TO: SAFETY-KLEEN CORP. Designated Facility

EPA ID No.: ILD981097819 Designated Facility

20 TUCKER DR. Address

CASEYVILLE, IL 62232

Under manifest number IL5011013 the generator noted below is shipping to you a waste determined to be restricted under 40 CFR Part 268. In accordance with 40 CFR 268.7, the generator hereby provides notice that the waste is restricted and the EPA waste type and the appropriate treatment standards are as follows:

(check all that apply)

	LINE NO.	WASTE NAME	EPA WASTE TYPE	RESTRICTED CONSTITUENTS	TREATMENT STANDARD (mg/l)
X	11a	Petroleum naphtha	D001	Halogenated Organic Compounds	1000
				Lead	500
___	___	Petroleum naphtha (sludge)	D001, D006,D008	Halogenated Organic Compounds	1000
				Lead	500
				Cadmium	100
___	___	Compound Cleaning Liquid (Immersion Cleaner)	F002,F004	Cresylic Acid 1,2-dichlorobenzene Methylene chloride	0.75 0.125 0.96
___	___	Tetrachlorethylene	F002	Tetrachlorethylene	0.05
___	___	Trichlorotrifluoroethane	F002	Trichlorotrifluoroethane	0.96
___	___	Paint Related Material	F003,F005	Acetone Methyl Ethyl Ketone Methyl Isobutyl Ketone Toluene Xylene	0.59 0.75 0.33 0.33 0.15

The constituent composition is based upon knowledge of the waste.

Generator Name: SCOTT AIR FORCE BASE EPA ID#: IL7570024177

Generator Representative Signature: K David C. Johansen

Name & Title of Representative: Chief, Environmental & Contract Planning (print or type)

S-K Sample Number: ___

STATE OF ILLINOIS — ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

SAFETY-KLEEN CORP. STATE PRESCRIBED FORM 5-160-42 — P.O. BOX 19276 — SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761 — State Form LPC 62 8/81 IL532-0610 — FOR SHIPMENT OF HAZARDOUS, INFECTIOUS AND SPECIAL WASTE

NOTE: FORM DESINGED TO PRINT 6 LINES PER INCH — EPA Form 8700-22 (6-89) — Form Approved. OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL7 570024177 — Manifest Document No.: 00033 — 2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but is required by Illinois law.

GENERATOR

Generator's Name and Mailing Address:
SCOTT AIR FORCE BASE
375 ABG/DEEU
SCOTT AIR FORCE BASE IL 62225

4. Generator's Phone (618 256-2092

A. Illinois Manifest Document Number: IL5028435 — MANIFEST FEE PAID

B. Illinois Generator's ID: 1630100015

5. Transporter 1 Company Name: SAFETY-KLEEN CORP. — 6. US EPA ID Number: ILD 051060408

C. Illinois Transporter's ID: 1123

D. (618) 398-6880 Transporter's Phone

7. Transporter 2 Company Name — 8. US EPA ID Number

E. Illinois Transporter's ID

F. ( ) Transporter's Phone

9. Designed Facility Name and Site Address:
SAFETY-KLEEN CORP. 0-006-54
633 EAST 138TH ST
DOLTON IL 60419

10. US EPA ID Number: ILD 980613913

G. Illinois Facility's ID: 0310690006

H. Facility's Phone: (312) 849-4850

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. WASTE PAINT RELATED MATERIAL FLAMMABLE LIQUID NA1263 (EPA F003)	003	DM	00037	1	EPA HW Number: X X F003 Authorization Number: 000161
b.					EPA HW Number: X X Authorization Number:
c.					EPA HW Number: X X Authorization Number:
d.					EPA HW Number: X X Authorization Number:

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I(A) F005
1-5GAL.
2-16GAL.

Handling Codes for Wastes Listed Above In Item #14: 1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information: 8941 09755307 962832 5-160-42-4182 0105

SKDOT# A: 523 B: C: D:

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Printed/Typed Name: Conner, Jerry W — Signature — Date: Month 10 Day 11 Year 89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: KURT HARTMAN — Signature — Date: Month 10 Day 11 Year 89

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Agnes Adams — Signature — Date: Month 10 Day 26 Year 89

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

In case of a spill call the Illinois Office of Emergency Response at 217/782-3637 and the National Response Center at 800/424-8802 or 202/426-2675.

STATE OF ILLINOIS
SAFETY-KLEEN CORP.
STATE PRESCRIBED FORM
5-160-42

ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL
P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761
State Form LPC 62 8/81 IL532-0610

FOR SHIPMENT OF HAZARDOUS, INFECTIOUS AND SPECIAL WASTE.

NOTE: FORM DESINGED TO PRINT 8 LINES PER INCH

EPA Form 8700-22 (6-89)

Form Approved. OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL7 570024177
Manifest Document No.: ~~64628~~ 00036
2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address
SCOTT AIR FORCE BASE
375 ABG/DEEU
SCOTT AIR FORCE BASE IL 62225

4. Generator's Phone (618) 256-2092

A. Illinois Manifest Document Number: IL5022582
B. Illinois Generator's ID: 1630100015
C. Illinois Transporter's ID: 1123
D. Transporter's Phone: 618) 398-6880
E. Illinois Transporter's ID:
F. Transporter's Phone:
G. Illinois Facility's ID: 0310690006
H. Facility's Phone: 312 849-4850

5. Transporter 1 Company Name: SAFETY-KLEEN CORP.
6. US EPA ID Number: ILD 051060408

7. Transporter 2 Company Name:
8. US EPA ID Number:

9. Designed Facility Name and Site Address
SAFETY-KLEEN CORP.
633 EAST 138TH ST
DOLTON IL 60419
10. US EPA ID Number: 0-006-54
ILD 980613913

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. WASTE PAINT RELATED MATERIAL FLAMMABLE LIQUID NA1263 (EPA F003)	003	DM	00037	1	EPA HW Number: X X F003; Authorization Number: 000161
b.					EPA HW Number: X X; Authorization Number:
c.					EPA HW Number: X X; Authorization Number:
					EPA HW Number: X X; Authorization Number:

NOTICE: IN ACCORDANCE WITH 40 CFR 268.7, THE GENERATOR PROVIDES NOTICE THAT THE WASTE DESCRIBED AS 'WASTE PAINT RELATED MATERIAL' IS A RESTRICTED WASTE. THE WASTE CONTAINS THE FOLLOWING CONSTITUENTS WHOSE TREATMENT STANDARDS ARE NOTED: ACETONE(0.59 PPM); MEK(0.75 PPM); MIBK(0.33 PPM); TOLUENE(0.33 PPM); AND XYLENE (0.15 PPM).

Additional Descriptions for Materials Listed Above
I(A) F005
2 - 16 GAL DRUMS
1 - 5 GAL DRUM

Handling Codes for Wastes Listed Above in Item #14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information
8945 10473486 264628 5-160-42-4182 0105
11610326
SKDOT# A: 523 B: C: D:

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, and Illinois regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Jerry W Conner
Signature: [signature]
Date: Month 11 Day 09 Year 89

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: KURT HARTMAN
Signature: Kurt Hartman
Date: Month 11 Day 09 Year 89

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: Agnes Adams
Signature: Agnes Adams
Date: Month 11 Day 20 Year 89

GENERATOR

TRANSPORTER

FACILITY

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

In case of a spill call the Illinois Office of Emergency Response at 217/782-3637 and the National Response Center at 800/424-8802 or 202/426-2675.

safety-kleen®

Certificate of Reassurance

Safety-Kleen Envirosystems certifies that on this date NOV. 9, 1989
the material supplied by Scott Air Force Base
entered the treatment process.

The method of treatment has been deemed suitable for your spent materials and fully complies with all applicable regulatory and permit requirements.

Manifest Number IL 5022582
Manifest Date NOV. 20, 1989

Janelle A. Bretzke
Authorized Signature

STATE OF ILLINOIS — ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

SAFETY-KLEEN CORP. STATE PRESCRIBED FORM 5-160-02 — P.O. BOX 19276 — SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761 — State Form LPC 62 8/81 IL532-0610 — FOR SHIPMENT OF HAZARDOUS, INFECTIOUS AND SPECIAL WASTE

NOTE: FORM DESINGED TO PRINT 8 LINES PER INCH — EPA Form 8700-22 (6-89) — Form Approved. OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL7 570024177 — Manifest Document No.: 00037 24722

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is required by Illinois law.

GENERATOR

Generator's Name and Mailing Address:
SCOTT AIR FORCE BASE
375 ABG/DEEV
SCOTT AIR FORCE BASE IL 62225

4. Generator's Phone (618) 256-2092

A. Illinois Manifest Document Number: IL5023133 — MANIFEST FEE PAID

B. Illinois Generator's ID: 1630100014

5. Transporter 1 Company Name: SAFETY-KLEEN CORP. — 6. US EPA ID Number: ILD 051060408

C. Illinois Transporter's ID: 1123

D. 618 398-6880 Transporter's Phone

7. Transporter 2 Company Name — 8. US EPA ID Number

E. Illinois Transporter's ID

F. ( ) Transporter's Phone

9. Designed Facility Name and Site Address:
SAFETY-KLEEN CORP. 5-160-02
20 TUCKER DRIVE
CASEYVILLE IL 62232

10. US EPA ID Number: ILD 981097819

G. Illinois Facility's ID: 1630250007

H. Facility's Phone: 618 398-6880

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. WASTE PETROLEUM NAPHTHA COMBUSTIBLE LIQUID UN1255 (EPA D001)	005	DM	00049	1	EPA HW Number: X X D001; Authorization Number: 000004
b. WASTE COMPOUND CLEANING LIQUID CORROSIVE MATERIAL NA1760 (EPA F002)	008	DM	00010	1	EPA HW Number: X X F002; Authorization Number: 000030
c.					EPA HW Number: X X; Authorization Number:
d. NOTICE: IN ACCORDANCE WITH 40 CFR 268.7, THE GENERATOR PROVIDES NOTICE THAT THE WASTE DESCRIBED AS 'WASTE PETROLEUM NAPHTHA' IS A RESTRICTED WASTE. THE WASTE CONTAINS THE FOLLOWING CONSTITUENTS WHOSE TREATMENT STANDARDS ARE NOTED: TOTAL HALOGENATED ORGANIC COMPOUNDS (1000 MG/L) AND LEAD (500 MG/L).					EPA HW Number: X X; Authorization Number:

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above In Item #14: 1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information: 8945 10336352 224722 5-160-02-2167 0450

SKDOT# A: 501 B: C: D:

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, and Illinois regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Conner, Jerry W — Signature — Date: Month 11 Day 09 Year 89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: KURT HARTMAN — Signature: Kurt Hartman — Date: Month 11 Day 09 Year 89

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name: Dina Payne — Signature: Dina Payne — Date: Month 11 Day 09 Year 89

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

In case of a spill call the Illinois Office of Emergency Response at 217/782-3637 and the National Response Center at 800/424-8802 or 202/426-2675.

#37

NOTICE OF LAND DISPOSAL RESTRICTION OF WASTE

TO: SAFETY-KLEEN CORP. (Designated Facility)

EPA ID No.: ILD981097819 (Designated Facility)

20 TUCKER DR. (Address)

CASEYVILLE, IL 62232

Under manifest number IL5023133 the generator noted below is shipping to you a waste determined to be restricted under 40 CFR Part 268. In accordance with 40 CFR 268.7, the generator hereby provides notice that the waste is restricted and the EPA waste type and the appropriate treatment standards are as follows:

(check all that apply)

	LINE NO.	WASTE NAME	EPA WASTE TYPE	RESTRICTED CONSTITUENTS	TREATMENT STANDARD (mg/l)
___	___	Petroleum naphtha	D001	Halogenated Organic Compounds	1000
				Lead	500
___	___	Petroleum naphtha (sludge)	D001, D006,D008	Halogenated Organic Compounds	1000
				Lead	500
				Cadmium	100
X	11b	Compound Cleaning Liquid (Immersion Cleaner)	F002,F004	Cresylic Acid	0.75
				1,2-dichlorobenzene	0.125
				Methylene chloride	0.96
___	___	Tetrachlorethylene	F002	Tetrachlorethylene	0.05
___	___	Trichlorotrifluoroethane	F002	Trichlorotrifluoroethane	0.96
___	___	Paint Related Material	F003,F005	Acetone	0.59
				Methyl Ethyl Ketone	0.75
				Methyl Isobutyl Ketone	0.33
				Toluene	0.33
				Xylene	0.15

The constituent composition is based upon knowledge of the waste.

Generator Name: SCOTT AIR FORCE BASE EPA ID#: IL7570024177

Generator Representative Signature: _____

Name & Title of Representative: _____ (print or type)

S-K Sample Number: XXXXXXXXXXXX

STATE OF ILLINOIS — ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

SAFETY-KLEEN CORP. STATE PRESCRIBED FORM 5-160-02 — P.O. BOX 19276 — SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761 — State Form LPC 62 8/81 IL532-0610 — FOR SHIPMENT OF HAZARDOUS, INFECTIOUS AND SPECIAL WASTE

NOTE: FORM DESINGED TO PRINT 8 LINES PER INCH — **EPA Form 8700-22 (6-89)** — Form Approved. OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL7 570024177 — Manifest Document No.: 00034 SPRRA — 2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but is required by Illinois law.

Generator's Name and Mailing Address:
SCOTT AIR FORCE BASE
375 ABG/DEEV
SCOTT AIR FORCE BASE IL 62225

4. Generator's Phone (618) 256-2092

A. Illinois Manifest Document Number: IL5028215 — MANIFEST FEE PAID

B. Illinois Generator's ID: 1630105017

5. Transporter 1 Company Name: SAFETY-KLEEN CORP. — 6. US EPA ID Number: ILD 051060408 — C. Illinois Transporter's ID: 1123 — D. 618 398-6880 Transporter's Phone

7. Transporter 2 Company Name — 8. US EPA ID Number — E. Illinois Transporter's ID — F. ( ) Transporter's Phone

9. Designed Facility Name and Site Address:
SAFETY-KLEEN CORP.
20 TUCKER DRIVE
CASEYVILLE IL 62232

10. US EPA ID Number: 5-160-02 ILD 981097819

G. Illinois Facility's ID: 1630250007

H. Facility's Phone: 618 398-6880

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. WASTE PETROLEUM NAPHTHA COMBUSTIBLE LIQUID UN1255 (EPA D001)	015	DM	00249	1	EPA HW Number: XX D001; Authorization Number: 000004
b. WASTE COMPOUND CLEANING LIQUID CORROSIVE MATERIAL NA1760 (EPA F002)	002	DM	00010	1	EPA HW Number: XX F002; Authorization Number: 000003
c. WASTE PETROLEUM NAPHTHA COMBUSTIBLE LIQUID UN1255 (EPA D001)	001	DF	00004	1	EPA HW Number: XX D001; Authorization Number: 000004
d. NOTICE: IN ACCORDANCE WITH 40 CFR 268.7, THE GENERATOR PROVIDES NOTICE THAT THE WASTE DESCRIBED AS 'WASTE PETROLEUM NAPHTHA' IS A RESTRICTED WASTE. THE WASTE CONTAINS THE FOLLOWING CONSTITUENTS WHOSE TREATMENT STANDARDS ARE NOTED: TOTAL HALOGENATED ORGANIC COMPOUNDS (1000 MG/L) AND LEAD (500 MG/L).					EPA HW Number: XX; Authorization Number:

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above in Item #14: 1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information: 8941 09611971 922886 5-160-02-2167 0450

SKDOT# A: 501 B: C: D:

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, and Illinois regulations.

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Printed/Typed Name: Conner, Jerry W — Signature — Date: Month 10 Day 11 Year 89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: KURT HARTMAN — Signature — Date: Month 10 Day 11 Year 89

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name: Dina Payne — Signature — Date: Month 10 Day 11 Year 89

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COPY 1. TSD MAIL TO GENERATOR

In case of a spill call the Illinois Office of Emergency Response at 217/782-3637 and the National Response Center at 800/424-8802 or 202/426-2675.

Scott Air Force Base
375 ABG/DEEV
Scott Air Force Base,IL 62225

safety-kleen®

November 7, 1989

Enclosed is a copy of Illinois Manifest IL5028215

Dated October 11, 1989

We have made some corrections in this manifest

[Line 17, the transporter inadvertently left his printed name, signed name, and date off of the manifest.]

We are enclosing the incorrect and corrected copies. We have notified all parties involved of this error and they have corrected their copies to reflect the same changes.

Thank you,

Safety-Kleen Corp.

Enclosures

777 BIG TIMBER ROAD ELGIN, ILLINOIS 60123 PHONE 312/697-8460 TELEX 910 251 4479

STATE OF ILLINOIS — ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

SAFETY-KLEEN CORP. STATE PRESCRIBED FORM 5-160-02 — P.O. BOX 19276 — SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761 — State Form LPC 62 8/81 IL532-0610 — FOR SHIPMENT OF HAZARDOUS, INFECTIOUS AND SPECIAL WASTE.

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL7 570024177
Manifest Document No.: 00034 ~~SP865~~
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address
SCOTT AIR FORCE BASE
375 ABG/DEEV
SCOTT AIR FORCE BASE IL 62225

4. Generator's Phone (618) 256-2092

A. Illinois Manifest Document Number: IL5028215 — MANIFEST FEE PAID
B. Illinois Generator's ID: 1630106015
C. Illinois Transporter's ID: 1123
D. 618 398-6880 — Transporter's Phone

5. Transporter 1 Company Name: SAFETY-KLEEN CORP.
6. US EPA ID Number: ILD 051060408

7. Transporter 2 Company Name
8. US EPA ID Number

E. Illinois Transporter's ID
F. ( ) Transporter's Phone

9. Designed Facility Name and Site Address: SAFETY-KLEEN CORP. 5-160-02
20 TUCKER DRIVE
CASEYVILLE IL 62232
10. US EPA ID Number: ILD 981097819

G. Illinois Facility's ID: 1630250007
H. Facility's Phone: 618 398-6880

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. WASTE PETROLEUM NAPHTHA COMBUSTIBLE LIQUID UN1255 (EPA D001)	015	DM	00249	1	EPA HW Number: XX D001 / Authorization Number: 000004
b. WASTE COMPOUND CLEANING LIQUID CORROSIVE MATERIAL NA1760 (EPA F002)	002	DM	00010	1	EPA HW Number: XX F002 / Authorization Number: 000003
c. WASTE PETROLEUM NAPHTHA COMBUSTIBLE LIQUID UN1255 (EPA D001)	001	DF	00004	1	EPA HW Number: XX D001 / Authorization Number: 000004
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J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above In Item #14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information: 8941 09611971 922886 5-160-02-2167 0450

SKDOT# A: 501 B: C: D:

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Printed/Typed Name	Signature	Date (Month Day Year)
Conner, Jerry W		1 0 1 1 89

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name	Signature	Date (Month Day Year)

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STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

SAFETY-KLEEN CORP. P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

STATE PRESCRIBED FORM State Form LPC 62 8/81 IL532-0610

5-160-42

FOR SHIPMENT OF HAZARDOUS, INFECTIOUS AND SPECIAL WASTE

NOTE: FORM DESINGED TO PRINT 8 LINES PER INCH EPA Form 8700-22 (6-89) Form Approved. OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL7 570024177
Manifest Document No.: 00030 ~~61429~~
2. Page 1 of 1
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Generator's Name and Mailing Address
SCOTT AIR FORCE BASE
375 ABG/DEEU
SCOTT AIR FORCE BASE IL 62225

A. Illinois Manifest Document Number: IL5015205 MANIFEST FEE PAID

B. Illinois Generator's ID: 1630100015

4. Generator's Phone (618) 256-2092

5. Transporter 1 Company Name: SAFETY-KLEEN CORP.
6. US EPA ID Number: ILD 051060408
C. Illinois Transporter's ID: 1123
D. 618 398-6880 Transporter's Phone

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. Illinois Transporter's ID:
F. ( ) Transporter's Phone

9. Designed Facility Name and Site Address
SAFETY-KLEEN CORP.
633 EAST 138TH ST
DOLTON IL 60419
10. US EPA ID Number
0-006-54
ILD 980613913
G. Illinois Facility's ID: 0310690006
H. Facility's Phone (312 849-4850

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. WASTE PAINT RELATED MATERIAL FLAMMABLE LIQUID NA1263 (EPA F003)	005	DM	00069	1	EPA HW Number: X X F003 Authorization Number: 000161
b.					EPA HW Number: X X Authorization Number:
c.					EPA HW Number: X X Authorization Number:
d.					EPA HW Number: X X Authorization Number:

523 004

NOTICE: IN ACCORDANCE WITH 40 CFR 268.7, THE GENERATOR PROVIDES NOTICE THAT THE WASTE DESCRIBED AS 'WASTE PAINT RELATED MATERIAL' IS A RESTRICTED WASTE. THE WASTE CONTAINS THE FOLLOWING CONSTITUENTS WHOSE TREATMENT STANDARDS ARE NOTED: ACETONE(0.59 PPM); MEK(0.75 PPM); TOLUENE(0.33 PPM); AND XYLENE (0.16 PPM).

I(A) F005 4-16GAL 1-5GAL

Handling Codes for Wastes Listed Above in Item #14: 1 = Gallons 2 = Cubic Yards

06 18 20

15. Special Handling Instructions and Additional Information
8937 09039843 661429 5-160-42-4182 0105

SKDOT# A: 523 B: C: D:

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Printed/Typed Name	Signature	Date (Month Day Year)
DEREK E JATHO	Derek E Jatho	09 11 89

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
KURT HARTMAN	Kurt Hartman	09 11 89

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name	Signature	Date (Month Day Year)
Agnes Adams	Agnes Adams	09 14 89

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

In case of a spill call the Illinois Office of Emergency Response at 217/782-3637 and the National Response Center at 800/424-8802 or 202/426-2675.

STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

SAFETY-KLEEN CORP. P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761
STATE PRESCRIBED FORM State Form LPC 62 8/81 IL532-0610

FOR SHIPMENT OF HAZARDOUS, INFECTIOUS AND SPECIAL WASTE

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter.) **EPA Form 8700-22 (9-88)** Form Approved. OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL7570024177
Manifest Document No.: ~~72496~~ 00232
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but is required by Illinois law.

GENERATOR

Generator's Name and Mailing Address
SCOTT AIR FORCE BASE BLDG 1989
375 ABG/DEEV SCOTT AIR FORCE BASE, IL 62225

A. Illinois Manifest Document Number: IL 5011020 MANIFEST FEE PAID

4. Generator's Phone (618) 256-2092

B. Illinois Generator's ID: 16 3 01 00 01 5

5. Transporter 1 Company Name: SAFETY-KLEEN CORP.
6. US EPA ID Number: ILD051060408
C. Illinois Transporter's ID: 1 1 23
D. (618398-6880 Transporter's Phone

7. Transporter 2 Company Name
8. US EPA ID Number
E. Illinois Transporter's ID
F. ( ) Transporter's Phone

9. Designed Facility Name and Site Address
SAFETY-KLEEN CORP.
20 TUCKER DR.
CASEYVILLE, IL 62232
10. US EPA ID Number: ILD981097819
G. Illinois Facility's ID: 16 3 0 2 5 0 00 7
H. Facility's Phone (618) 398-6880

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. WASTE PETROLEUM NAPHTHA COMBUSTIBLE LIQUID UN1255 (EPA D001)	001	DF	00004	1	EPA HW Number: X X D 0 0 1 Authorization Number: 0 0 00 0 4
b.					EPA HW Number: X X Authorization Number
c.					EPA HW Number: X X Authorization Number
d.					EPA HW Number: X X Authorization Number

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above in Item #14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information

IL WEEK 39 CUSTOMER 5-160-02-6186 PREPRINT 772496 TERR 04-49

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, and Illinois regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Conner, Jerry W
Signature: [signature]
Date: Month 09 Day 28 Year 89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: KURT HARTMAN
Signature: Kurt Hartman
Date: Month 09 Day 28 Year 89

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: Dina Payne
Signature: Dina Payne
Date: Month 09 Day 28 Year 89

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COPY 1. TSD MAIL TO GENERATOR

In case of a spill call the Illinois Office of Emergency Response at 217/782-3637 and the National Response Center at 800/424-8802 or 202/426-2675.

STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

SAFETY-KLEEN CORP. STATE PRESCRIBED FORM 5-160-02 P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761 State Form LPC 62 8/81 IL532-0610

FOR SHIPMENT OF HAZARDOUS, INFECTIOUS AND SPECIAL WASTE

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter.) **EPA Form 8700-22 (9-88)** Form Approved. OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL7 570024177
Manifest Document No.: 00031 ~~21774~~
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but is required by Illinois law.

GENERATOR

Generator's Name and Mailing Address
SCOTT AIR FORCE BASE
375 ABG/DEEV
SCOIT AIR FORCE BASE IL 62225

A. Illinois Manifest Document Number: IL 5010366 MANIFEST FEE PAID

B. Illinois Generator's ID: 1630100015

4. Generator's Phone (618) 256-2092

5. Transporter 1 Company Name: SAFETY-KLEEN CORP.
6. US EPA ID Number: ILD 051060408
C. Illinois Transporter's ID: 1123
D. 618 398-6880 Transporter's Phone

7. Transporter 2 Company Name
8. US EPA ID Number
E. Illinois Transporter's ID
F. ( ) Transporter's Phone

9. Designed Facility Name and Site Address
SAFETY-KLEEN CORP. 5-160-02
20 TUCKER DRIVE
CASEYVILLE IL 62232
10. US EPA ID Number: ILD 981097819
G. Illinois Facility's ID: 163025000
H. Facility's Phone: 618 398-6880

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. WASTE PETROLEUM NAPHTHA COMBUSTIBLE LIQUID UN1255 (EPA D001) (RH)	(12) 012	DM	00224	1	EPA HW Number: X X D001 Authorization Number: 000004
b. WASTE COMPOUND CLEANING LIQUID CORROSIVE MATERIAL NA1760 (EPA F002) 503	001	DM	00005	1	EPA HW Number: X X F002 Authorization Number: 0 0 0 0 0 3
c.					EPA HW Number: X X Authorization Number:
d.					EPA HW Number: X X Authorization Number:

Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above in Item #14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information: 8937 08902215 621794 5-160-02-2167 0450

SKDOT# A: 501 B: C: D:

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, and Illinois regulations.

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Printed/Typed Name: DEREK E JATHO Signature: Derek E Jatho Date: Month 09 Day 11 Year 89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: KURT HARTMAN Signature: Kurt Hartman Date: Month 09 Day 11 Year 89

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Signature: Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: Dina Payne Signature: Dina Payne Date: Month 09 Day 11 Year 89

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

In case of a spill call the Illinois Office of Emergency Response at 217/782-3637 and the National Response Center at 800/424-8802 or 202/426-2675.

IMMERSION CLEANER

NOTICE OF LAND DISPOSAL RESTRICTION OF WASTE

(AC or RC name)

To Designated Facility: Safety-Kleen Corp.
20 TUCKER DR.
CASEYVILLE, IL 62232

EPA ID No. ILD981097819

Under manifest number IL5010366 the generator noted below is shipping to you a waste determined to be restricted under 40 CFR Part 268. In accordance with 40 CFR 268.7, the generator is hereby providing notice that the waste is restricted and the appropriate treatment standards (from Table CCWE of 40 CFR 268.41) are as follows:

Constituent	Treatment Standard
Cresylic Acid	0.75 ppm
1,2-dichlorobenzene	0.125 ppm
Methylene chloride	0.96 ppm

The constituent compositions based upon ( ) attached data or (X) knowledge of the waste.

Generator name Scott Air Force Base EPA ID#: IL7570024177
Generator representative signature Derek Yoho
Name & Title of representative (print or type) 1Lt, Env Coord.

STATE OF ILLINOIS — ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

SAFETY-KLEEN CORP. P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

STATE PRESCRIBED FORM 5-160-42 Caseyville — State Form LPC 62 8/81 IL532-0610

FOR SHIPMENT OF HAZARDOUS, INFECTIOUS AND SPECIAL WASTE

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter.) — EPA Form 8700-22 (9-88) — Form Approved. OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL7570024177
Manifest Document No.: 00028
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but is required by Illinois law.

GENERATOR

Generator's Name and Mailing Address:
SCOTT AIR FORCE BASE
375 ABG/DEEU
SCOTT AIR FORCE BASE IL 62225

A. Illinois Manifest Document Number: IL 5009025 MANIFEST FEE PAID

B. Illinois Generator's ID: 1630100015

4. Generator's Phone (618) 256-2092

5. Transporter 1 Company Name: SAFETY-KLEEN CORP.
6. US EPA ID Number: ILD051060408
C. Illinois Transporter's ID: 1123
D. 618 398-6880 Transporter's Phone

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. Illinois Transporter's ID:
F. ( ) Transporter's Phone

9. Designed Facility Name and Site Address:
SAFETY-KLEEN CORP. 0-006-54
633 EAST 138TH ST
DOLTON IL 60419
10. US EPA ID Number: ILD980613913
G. Illinois Facility's ID: 0310690006
H. Facility's Phone: (312 849-4850

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. WASTE PAINT RELATED MATERIAL FLAMMABLE LIQUID NA1263 (EPA F003) 523	003	DM	00037	1	EPA HW Number: X X F003; Authorization Number: 000161
b.					EPA HW Number: X X; Authorization Number:
c.					EPA HW Number: X X; Authorization Number:
d.					EPA HW Number: X X; Authorization Number:

NOTICE: IN ACCORDANCE WITH 40 CFR 268.7, THE GENERATOR PROVIDES NOTICE THAT THE WASTE DESCRIBED AS 'WASTE PAINT RELATED MATERIAL' IS A RESTRICTED WASTE. THE WASTE CONTAINS THE FOLLOWING CONSTITUENTS WHOSE TREATMENT STANDARDS ARE NOTED: ACETONE (0.59 PPM); MEK (0.75 PPM); TOLUENE (0.33 PPM); AND XYLENE (0.15 PPM).

J. Additional Descriptions for Materials Listed Above: I(A) F005

K. Handling Codes for Wastes Listed Above In Item #14: 1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information: 8933 08346132 361256 5-160-42-4182 0105

2- Drums 1- Pail 09386160

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, and Illinois regulations.

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Printed/Typed Name: DEREK E JATHO — Signature: Derek E Jatho — Date (Month Day Year): 10 8 1 5 89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: KURT HARTMAN — Signature: Kurt Hartman — Date (Month Day Year): 10 8 1 5 89

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date (Month Day Year):

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: Agnes Adams — Signature: Agnes Adams — Date (Month Day Year): 10 8 1 8 89

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

In case of a spill call the Illinois Office of Emergency Response at 217/782-3637 and the National Response Center at 800/424-8802 or 202/426-2675.

IMMERSION CLEANER

NOTICE OF LAND DISPOSAL RESTRICTION OF WASTE

(AC or RC name)

To Designated Facility: Safety-Kleen Corp.
20 TUCKER DR.
CASEYVILLE, IL 62232

EPA ID No. ILD981097819

Under manifest number IL5008814 the generator noted below is shipping to you a waste determined to be restricted under 40 CFR Part 268. In accordance with 40 CFR 268.7, the generator is hereby providing notice that the waste is restricted and the appropriate treatment standards (from Table CCWE of 40 CFR 268.41) are as follows:

Constituent	Treatment Standard
Cresylic Acid	0.75 ppm
1,2-dichlorobenzene	0.125 ppm
Methylene chloride	0.96 ppm

The constituent compositions based upon ( ) attached data or (X) knowledge of the waste.

Generator name Scott Air Force Base EPA ID#: IL7570024177

Generator representative signature Derek Gath

Name & Title of representative (print or type) 2Lt

STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

SAFETY-KLEEN CORP. P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

STATE PRESCRIBED FORM State Form LPC 62 8/81 IL532-0610

5-160-02

FOR SHIPMENT OF HAZARDOUS, INFECTIOUS AND SPECIAL WASTE

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter.) **EPA Form 8700-22 (9-88)** Form Approved. OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL7570024177
Manifest Document No.: 00029
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but is required by Illinois law.

GENERATOR

Generator's Name and Mailing Address
SCOTT AIR FORCE BASE
375 ABG/DEEV
SCOTT AIR FORCE BASE IL 62225

4. Generator's Phone (618) 256-2092

A. Illinois Manifest Document Number: IL 5008814 MANIFEST FEE PAID

B. Illinois Generator's ID: 1630100015

5. Transporter 1 Company Name: SAFETY-KLEEN CORP.
6. US EPA ID Number: ILD051060408
C. Illinois Transporter's ID: 1123
D. 618 398-6880 Transporter's Phone

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. Illinois Transporter's ID:
F. ( ) Transporter's Phone

9. Designed Facility Name and Site Address
SAFETY-KLEEN CORP. 5-160-02
20 TUCKER DRIVE
CASEYVILLE IL 62232
10. US EPA ID Number: ILD981097819
G. Illinois Facility's ID: 1630250007
H. Facility's Phone: 618 398-6880

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. WASTE PETROLEUM NAPHTHA COMBUSTIBLE LIQUID UN1255 (EPA D001) 501	005	DM	00049	1	EPA HW Number: XX D001 Authorization Number: 000004
b. WASTE COMPOUND CLEANING LIQUID CORROSIVE MATERIAL NA1760 (EPA F002) 503	001	DM	00005	1	EPA HW Number: XX F002 Authorization Number: 000004
c.					EPA HW Number: XX Authorization Number:
d.					EPA HW Number: XX Authorization Number:

Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above in Item #14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information: 8933 08208134 321480 5-160-02-2167 0450

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, and Illinois regulations.

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Printed/Typed Name	Signature	Date (Month Day Year)
DEREK JATHO	Derek Jatho	08 15 89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
KURT HARTMAN	Kurt Hartman	08 15 89

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name	Signature	Date (Month Day Year)
GREG KANE	Greg Kane	08 15 89

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COPY 1. TSD MAIL TO GENERATOR

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safety-kleen®

Certificate of Reassurance

Safety-Kleen Envirosystems certifies that on this date Sept. 11, 1989
the material supplied by Scott Air Force Base
entered the treatment process.

The method of treatment has been deemed suitable for your spent materials and fully complies with all applicable regulatory and permit requirements.

Manifest Number IL 5015205
Manifest Date Oct. 4, 1989

Pamelle A. Bretzke
Authorized Signature

STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

SAFETY-KLEEN CORP. STATE PRESCRIBED FORM P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761 State Form LPC 62 8/81 IL532-0610

FOR SHIPMENT OF HAZARDOUS, INFECTIOUS AND SPECIAL WASTE.

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter.) **EPA Form 8700-22 (9-88)** Form Approved. OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL7570024177
Manifest Document No.: 00027 [redacted]
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but is required by Illinois law.

GENERATOR

Generator's Name and Mailing Address
SCOTT AIR FORCE BASE
375 ABG/DEEV SCOTT AFB, IL 62225

4. Generator's Phone (618) 256-2092

A. Illinois Manifest Document Number: IL 5007470 MANIFEST FEE PAID

B. Illinois Generator's ID: 1 6 3 0 1 0 0 0 1 5

5. Transporter 1 Company Name: SAFETY-KLEEN CORP.
6. US EPA ID Number: ILD051060408
C. Illinois Transporter's ID: 1 1 2 3
D. (618) 398-6880 Transporter's Phone

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. Illinois Transporter's ID:
F. ( ) Transporter's Phone

9. Designed Facility Name and Site Address
SAFETY-KLEEN CORP.
20 TUCKER DR.
CASEYVILLE, IL 62232
10. US EPA ID Number: ILD981097819
G. Illinois Facility's ID: 1 6 3 0 2 5 0 0 0 7
H. Facility's Phone (618) 398-6880

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No
a. WASTE PETROLEUM NAPHTHA COMBUSTIBLE LIQUID UN1255 (EPA D001) 501	007	DM	00196 K.H.	1	EPA HW Number: X X D 0 0 1 Authorization Number: 0 0 0 0 0 4
b. WASTE PETROLEUM NAPHTHA Combustible Liquid UN1255 (EPA D001) 501	001 K.H.	DF	00004	1	EPA HW Number: X X D 0 0 1 Authorization Number: 0 0 0 0 0 4
c.					EPA HW Number: X X Authorization Number:
d.					EPA HW Number: X X Authorization Number:

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above in Item #14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information
IL WEEK 31 PREPRINT 170581 CUSTOMER 5-160-02-2172 TERR 0450

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, and Illinois regulations.

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Printed/Typed Name: DEREK G JATHO Signature: Derek G Jatho Date: Month 08 Day 10 Year 89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: KURT HARTMAN Signature: Kurt Hartman Date: Month 08 Day 10 Year 89

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Signature: Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: Dina Payne Signature: Dina Payne Date: Month 08 Day 10 Year 89

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COPY 1. TSD MAIL TO GENERATOR

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STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

SAFETY-KLEEN CORP. P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761
STATE PRESCRIBED FORM 5-160-42 State Form LPC 62 8/81 IL532-0610
FOR SHIPMENT OF HAZARDOUS, INFECTIOUS AND SPECIAL WASTE.

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter.) **EPA Form 8700-22 (9-88)** Form Approved. OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL7570024177
Manifest Document No.: 00026 ~~62086~~
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but is required by Illinois law.

GENERATOR

3. Generator's Name and Mailing Address
SCOTT AIR FORCE BASE
375 ABG/DEEU
SCOTT AIR FORCE BASE IL 62225

4. Generator's Phone (618) 256-2092

A. Illinois Manifest Document Number: IL 5005810 MANIFEST FEE PAID
B. Illinois Generator's ID: 1630100015

5. Transporter 1 Company Name: SAFETY-KLEEN CORP.
6. US EPA ID Number: ILD051060408
C. Illinois Transporter's ID: 1123
D. 618 398-6880 Transporter's Phone

7. Transporter 2 Company Name
8. US EPA ID Number
E. Illinois Transporter's ID
F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN CORP.
633 EAST 138TH ST
DOLTON IL 60419
10. US EPA ID Number
0-006-54
ILD980613913
G. Illinois Facility's ID: 0310690006
H. Facility's Phone (312 849-4850

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. WASTE PAINT RELATED MATERIAL FLAMMABLE LIQUID NA1263 (EPA F003) 523	003	DM	00037	1	EPA HW Number XX F003 Authorization Number 000161
b.					EPA HW Number XX Authorization Number
c.					EPA HW Number XX Authorization Number
d. NOTICE: IN ACCORDANCE WITH 40 CFR 268.7, THE GENERATOR PROVIDES NOTICE THAT THE WASTE DESCRIBED AS 'WASTE PAINT RELATED MATERIAL' IS A RESTRICTED WASTE. THE WASTE CONTAINS THE FOLLOWING CONSTITUENTS WHICH TREATMENT STANDARDS ARE NOTED: ACETONE(0.59 PPM); MEKK(0.75 PPM); [illegible] (0.33 PPM); AND XYLENE (0.10 PPM).					EPA HW Number XX Authorization Number

Additional Descriptions for Materials Listed Above
I(A) F005 2-16 GAL. DRums
1-5 GAL. CAN

Handling Codes for Wastes Listed Above in Item #14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information
8929 07667330 062085 5-160-42-4182 0105
08709354

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, and Illinois regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; **OR**, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Date (Month Day Year)
DEREK E JATHO	Derek E Jatho	07 21 89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
KURT HARTMAN	Kurt Hartman	07 21 89

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name	Signature	Date (Month Day Year)
Agnes Adams	Agnes Adams	07 27 89

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

In case of a spill call the Illinois Office of Emergency Response at 217/782-3637 and the National Response Center at 800/424-8802 or 202/426-2675.

STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

SAFETY-KLEEN CORP. STATE PRESCRIBED FORM 5-160-02 P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761 State Form LPC 62 8/81 IL532-0610

FOR SHIPMENT OF HAZARDOUS, INFECTIOUS AND SPECIAL WASTE

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter.) EPA Form 8700-22 (9-88) Form Approved. OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL7570024177
Manifest Document No.: ~~22517~~ 025
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but is required by Illinois law.

GENERATOR

3. Generator's Name and Mailing Address
SCOTT AIR FORCE BASE
375 ABG/DEEV
SCOTT AIR FORCE BASE IL 62225

4. Generator's Phone (618) 256-2092

A. Illinois Manifest Document Number: IL 5004193 MANIFEST FEE PAID

B. Illinois Generator's ID: 1630100015

5. Transporter 1 Company Name: SAFETY-KLEEN CORP.
6. US EPA ID Number: ILD051060408
C. Illinois Transporter's ID: 1123
D. (618) 398-6880 Transporter's Phone

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. Illinois Transporter's ID:
F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN CORP. 5-160-02
20 TUCKER DRIVE
CASEYVILLE IL 62232
10. US EPA ID Number: ILD981097819
G. Illinois Facility's ID: 1630250007
H. Facility's Phone: 618 398-6880

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. WASTE PETROLEUM NAPHTHA COMBUSTIBLE LIQUID UN1255 (EPA D001) 501	016	DM	00275	1	EPA HW Number: X X D001; Authorization Number: 000004
b. WASTE COMPOUND CLEANING LIQUID CORROSIVE MATERIAL NA1760 (EPA F002) 503	002	DM	00010	1	EPA HW Number: X X F 002; Authorization Number: 0 0 0 00 3
c.					EPA HW Number: X X; Authorization Number:
d.					EPA HW Number: X X; Authorization Number:

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above In Item #14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information: 8929 07546476 022511 5-160-02-2167 0450

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, and Illinois regulations.

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Printed/Typed Name	Signature	Date (Month Day Year)
DEREK E JATHO	Derek E Jatho	07 21 89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
KURT HARTMAN	Kurt Hartman	07 21 89

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name	Signature	Date (Month Day Year)
Dina Payne	Dina Payne	07 21 89

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

In case of a spill call the Illinois Office of Emergency Response at 217/782-3637 and the National Response Center at 800/424-8802 or 202/426-2675.

STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

SAFETY-KLEEN CORP. P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761
STATE PRESCRIBED FORM Caseyville State Form LPC 62 8/81 IL532-0610
5-160-42 FOR SHIPMENT OF HAZARDOUS, INFECTIOUS AND SPECIAL WASTE.

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter.) EPA Form 8700-22 (9-88) Form Approved. OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL7570024177
Manifest Document No.: 00024
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but is required by Illinois law.

GENERATOR

Generator's Name and Mailing Address
SCOTT AIR FORCE BASE
375 ABG/DEEU
SCOTT AIR FORCE BASE IL 62225

A. Illinois Manifest Document Number: IL 5003154 MANIFEST FEE PAID
B. Illinois Generator's ID: 1630100015
4. Generator's Phone (618) 256-2092
5. Transporter 1 Company Name: SAFETY-KLEEN CORP.
6. US EPA ID Number: ILD051060408
C. Illinois Transporter's ID: 1123
D. (618 398-6880 Transporter's Phone
7. Transporter 2 Company Name
8. US EPA ID Number
E. Illinois Transporter's ID
F. ( ) Transporter's Phone
9. Designed Facility Name and Site Address: SAFETY-KLEEN CORP. 633 EAST 138TH ST DOLTON IL 60419
10. US EPA ID Number: 0-006-54 ILD980613913
G. Illinois Facility's ID: 0310690006
H. Facility's Phone: (312 849-4850

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. WASTE PAINT RELATED MATERIAL FLAMMABLE LIQUID NA1263 (EPA F003) 523	003	DM	00037	1	EPA HW Number: X X F003 Authorization Number: 000161
b.					EPA HW Number: X X Authorization Number:
c.					EPA HW Number: X X Authorization Number:
d. NOTICE: IN ACCORDANCE WITH 40 CFR 268.7, THE GENERATOR PROVIDES NOTICE THAT THE WASTE DESCRIBED AS 'WASTE PAINT RELATED MATERIAL' IS A RESTRICTED WASTE. THE WASTE CONTAINS THE FOLLOWING CONSTITUENTS WHOSE TREATMENT STANDARDS ARE NOTED: ACETONE(0.59 PPM); MEK(0.75 PPM); METHANOL(0.33 PPM); TOLUENE(0.33 PPM); AND XYLENE (0.15 PPM).					EPA HW Number: X X Authorization Number:

J. Additional Descriptions for Materials Listed Above
I(A) F005
2-16 GAL DRUMS
1-5 GAL DRUM

K. Handling Codes for Wastes Listed Above in Item #14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information
8925 06994990 762064 5-160-42-4182 0105
08030066

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, and Illinois regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: DEREK E JATHO Signature: Derek E Jatho Date: Month 06 Day 19 Year 89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: KURT HARTMAN Signature: Kurt Hartman Date: Month 06 Day 19 Year 89

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Signature: Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: Agnes Adams Signature: Agnes Adams Date: Month 06 Day 30 Year 89

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

In case of a spill call the Illinois Office of Emergency Response at 217/782-3637 and the National Response Center at 800/424-8802 or 202/426-2675.

STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

SAFETY-KLEEN CORP. P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

STATE PRESCRIBED FORM 5-160-02 State Form LPC 62 8/81 IL532-0610

FOR SHIPMENT OF HAZARDOUS, INFECTIOUS AND SPECIAL WASTE

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter.) **EPA Form 8700-22 (9-88)** Form Approved. OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. IL7570024177 — Manifest Document No. 00023 [redacted]

2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but is required by Illinois law.

GENERATOR

Generator's Name and Mailing Address
SCOTT AIR FORCE BASE
375 ABG/DEEV
SCOTT AIR FORCE BASE IL 62225

4. Generator's Phone (618) 256-2092

A. Illinois Manifest Document Number IL 5001260 — MANIFEST FEE PAID

B. Illinois Generator's ID 1630100015

5. Transporter 1 Company Name: SAFETY-KLEEN CORP.
6. US EPA ID Number: ILD051060408
C. Illinois Transporter's ID 1123
D. (618 398-6880 Transporter's Phone

7. Transporter 2 Company Name
8. US EPA ID Number
E. Illinois Transporter's ID
F. ( ) Transporter's Phone

9. Designed Facility Name and Site Address
SAFETY-KLEEN CORP.
20 TUCKER DRIVE
CASEYVILLE IL 62232
10. US EPA ID Number 5-160-02 ILD981097819
G. Illinois Facility's ID 1630250007
H. Facility's Phone (618 398-6880

11. US DOT Description (Including Proper Shipping Name; Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. WASTE PETROLEUM NAPHTHA COMBUSTIBLE LIQUID UN1255 (EPA D001) 501	013	DM	00273	1	EPA HW Number XX D001 / Authorization Number 000004
b. WASTE COMPOUND CLEANING LIQUID CORROSIVE MATERIAL NA1760 (EPA F002) 503	001	DM	00005	1	EPA HW Number XX F002 / Authorization Number 00 00 03
c.					EPA HW Number XX / Authorization Number
d.					EPA HW Number XX / Authorization Number

Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above in Item #14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information 8925 06861546 722725 5-160-02-2167 0450

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, and Illinois regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; **OR**, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Date (Month Day Year)
DEREK E JATHO,	Derek Jatho	06 19 89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
KURT HARTMAN	Kurt Hartman	06 19 89

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

FACILITY

19. Discrepancy Indication Space

Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name	Signature	Date (Month Day Year)
Dina Payne	Dina Payne	06 19 89

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COPY 1. TSD MAIL TO GENERATOR

In case of a spill call the Illinois Office of Emergency Response at 217/782-3637 and the National Response Center at 800/424-8802 or 202/426-2675.

STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P.O. BOX 19276 , SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/81 IL532-0610

FOR SHIPMENT OF HAZARDOUS, INFECTIOUS AND SPECIAL WASTE

PO 15602 Caseyville

5-160-42

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter.)

EPA Form 8700-22 (Rev. 9-86)

Form Approved. OMB No. 2050-0039, Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL7570024177

Manifest Document No.: [illegible]

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address
SCOTT AIR FORCE BASE
375 ABG/DEEU
SCOTT AIR FORCE BASE IL 62225

Location If Different: 0022

4. Generator's Phone (618) 256-2092

A. Illinois Manifest Document Number: IL 4090056 MANIFEST FEE PAID

B. Illinois Generator's ID: 1 6 3 0 1 0 0 0 1 5

5. Transporter 1 Company Name: SAFETY-KLEEN CORP.

6. US EPA ID Number: ILD051060408

C. Illinois Transporter's ID: 1 1 1 2 3

D. (618) 398-6880 Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. Illinois Transporter's ID

F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN CORP.
633 EAST 138TH ST 0-006-54
DOLTON IL 60419

10. US EPA ID Number: ILD980613913

G. Illinois Facility's ID: 0 3 1 0 6 9 0 0 0 6

H. Facility's Phone: (312)849-4850

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. WASTE PAINT RELATED MATERIAL FLAMMABLE LIQUID NA1263 (EPA F003) 523	003	DM	00037	1	EPA HW Number XX F 0 0 3 Authorization Number 0 0 0 1 1 6 1 1
b.					EPA HW Number XX Authorization Number
c.					EPA HW Number XX Authorization Number
d. NOTICE: IN ACCORDANCE WITH 40 CFR 268.7, THE GENERATOR PROVIDES THAT THE WASTE DESCRIBED AS 'WASTE PAINT RELATED MATERIAL' IS A RESTRICTED WASTE. THE WASTE CONTAINS THE FOLLOWING CONSTITUENTS WHOSE TREATMENT STANDARDS ARE NOTED: ACETONE(0.59 PPM); MEK(0.75 PPM); MIBK(0.33 PPM); TOLUENE(0.33 PPM); AND XYLENE (0.15 PPM). I(A) F005	NOTICE				EPA HW Number XX Authorization Number

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above In Item # 14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information
8921 06318356 467239 5-160-42-4182 0105
1-5GAL 2-16GAL

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. 07176399

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; **OR**, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Date (Month Day Year)
DEREK E JATHO, 2Lt	Derek E Jatho	05 24 89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
KURT HARTMAN	Kurt Hartman	05 24 89

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

FACILITY

19. Discrepancy Indication Space

Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name	Signature	Date (Month Day Year)
Agnes Adams	Agnes Adams	06 14 89

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COPY 1. TSD MAIL TO GENERATOR

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STATE OF ILLINOIS — ENVIRONMENTAL PROTECTION AGENCY · DIVISION OF LAND POLLUTION CONTROL

P.O. BOX 19276 , SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/81 IL532-0610

FOR SHIPMENT OF HAZARDOUS, INFECTIOUS AND SPECIAL WASTE

5-160-02

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter.)

EPA Form 8700-22 (Rev. 9-86)

Form Approved. OMB No. 2050-0039, Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL7570024177 — Manifest Document No.: ~~28278~~

2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address:
SCOTT AIR FORCE BASE
375 ABG/DEEV
SCOTT AIR FORCE BASE IL 62225

Location If Different: 0002-1

4. Generator's Phone (618) 256-2092

A. Illinois Manifest Document Number: IL 4090885 — MANIFEST FEE PAID

B. Illinois Generator's ID: 1 6 3 0 1 0 0 0 1 5

5. Transporter 1 Company Name: SAFETY-KLEEN CORP.

6. US EPA ID Number: ILD051060408

C. Illinois Transporter's ID: 1 1 2 3

D. (618) 398-6880 Transporter's Phone

7. Transporter 2 Company Name:

8. US EPA ID Number:

E. Illinois Transporter's ID:

F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address:
SAFETY-KLEEN CORP.
20 TUCKER DRIVE 5-160-02
CASEYVILLE IL 62232

10. US EPA ID Number: ILD981097819

G. Illinois Facility's ID: 1 6 3 0 2 5 0 0 0 7

H. Facility's Phone (618) 398-6880

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. WASTE PETROLEUM NAPHTHA COMBUSTIBLE LIQUID UN1255 (EPA D001) 501	005	DM	00049	1	EPA HW Number XX D 0 0 1 Authorization Number 0 0 0 0 0 4
b. WASTE COMPOUND CLEANING LIQUID CORROSIVE MATERIAL NA1760 (EPA F002) 503	001	DM	00005	1	EPA HW Number XX F 0 0 2 Authorization Number 0 0 0 0 0 3
c.					EPA HW Number XX Authorization Number
d.					EPA HW Number XX Authorization Number

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above In Item # 14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information
8921 06182901 428278 5-160-02-2167 0450

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GENERATOR

Printed/Typed Name: DEREK E JATHO, 2Lt — Signature: Derek E Jatho — Date: Month Day Year 052489

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: KURT HARTMAN — Signature: Kurt Hartman — Date: Month Day Year 052489

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: — Signature: — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name: Dina Tayne — Signature: Dina Tayne — Date: Month Day Year 052489

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COPY 1. TSD MAIL TO GENERATOR

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STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P.O. BOX 19276 , SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/81 IL532-0610

FOR SHIPMENT OF HAZARDOUS, INFECTIOUS AND SPECIAL WASTE

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter.) **EPA Form 8700-22 (Rev. 9-86)** Form Approved. OMB No. 2050-0039, Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL7570024177 — Manifest Document No.: 00020

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address — Location If Different:
SCOTT AIR FORCE BASE
375 ABG/DEEV SCOTT AIR FORCE BASE, IL 62225

4. Generator's Phone (618) 256-2092

A. Illinois Manifest Document Number: IL 3003719 MANIFEST FEE EXEMPT

B. Illinois Generator's ID: 1 6 3 0 1 0 0 0 1

5. Transporter 1 Company Name: SAFETY-KLEEN CORP.

6. US EPA ID Number: ILD051060408

C. Illinois Transporter's ID: 1 1 2 3

D. (618) 3986880 Transporter's Phone

7. Transporter 2 Company Name:

8. US EPA ID Number:

E. Illinois Transporter's ID:

F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address:
SAFETY-KLEEN CORP.
20 TUCKER DR.
CASEYVILLE, IL 62232

10. US EPA ID Number: ILD981097819

G. Illinois Facility's ID: 1 6 3 0 2 5 0 0 0 7

H. Facility's Phone: (618) 398-6880

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. WASTE PETROLEUM NAPHTHA COMBUSTIBLE LIQUID UN1255 (EPA D001) 501	008	DM	00224	1	EPA HW Number: XX D001 Authorization Number: 0 0 0 0 0 4
b.					EPA HW Number: XX Authorization Number:
c.					EPA HW Number: XX Authorization Number:
d.					EPA HW Number: XX Authorization Number:

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above In Item #14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information

8919 CUSTOMER 5-160-02-2171 PREPRINT 279755 TERR 04-50

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; **OR**, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: DEREK E JATHO, 2Lt — Signature: Derek E Jatho — Date: Month Day Year: 05 10 89

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: KURT HARTMAN — Signature: Kurt Hartman — Date: Month Day Year: 05 10 89

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: — Signature: — Date: Month Day Year:

19. Discrepancy Indication Space

Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name: GREG KANE — Signature: Greg Kane — Date: Month Day Year: 05 10 89

GENERATOR — TRANSPORTER — FACILITY

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

In case of a spill call the Illinois Office of Emergency Response at 217/782-3637 and the National Response Center at 800/424-8802 or 202/426-2675.

STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P.O. BOX 19276 , SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/81 IL532-0610

FOR SHIPMENT OF HAZARDOUS, INFECTIOUS AND SPECIAL WASTE

5-160-42

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter.) **EPA Form 8700-22 (Rev. 9-86)** Form Approved. OMB No. 2050-0039, Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL7570024177 | Manifest Document No.: 00018 00019 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address: SCOTT AIR FORCE BASE
375 ABG/DEEU
SCOTT AIR FORCE BASE IL 62225

Location If Different:

4. Generator's Phone (618) 256-2092

A. Illinois Manifest Document Number: IL 4032288 MANIFEST FEE PAID

B. Illinois Generator's ID: 1 6 3 0 1 0 0 0 5

5. Transporter 1 Company Name: SAFETY-KLEEN CORP.

6. US EPA ID Number: ILD051060408

C. Illinois Transporter's ID: 1 1 2 3

D. (618) 398-6880 Transporter's Phone

7. Transporter 2 Company Name:

8. US EPA ID Number:

E. Illinois Transporter's ID:

F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address: SAFETY-KLEEN CORP.
633 EAST 138TH ST 0-006-54
DOLTON IL 60419

10. US EPA ID Number: ILD980613913

G. Illinois Facility's ID: 0 3 1 5 0 2 8 0 0 0 6

H. Facility's Phone: (312) 849-4850

11. US DOT Description (Including Proper Shipping Proper Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. WASTE PAINT RELATED MATERIAL FLAMMABLE LIQUID NA1263 (EPA F003) 523	5	DM	69	1	EPA HW Number: XX F 0 0 3 Authorization Number: 0 0 0 1 6 1
b.					EPA HW Number: XX Authorization Number:
c.					EPA HW Number: XX Authorization Number:
d. NOTICE: IN ACCORDANCE WITH 40 CFR 268,7, THE GENERATOR PROVIDES NOTICE THAT THE WASTE DESCRIBED AS 'WASTE PAINT RELATED MATERIAL' IS A RESTRICTED WASTE. THE WASTE CONTAINS THE FOLLOWING CONSTITUENTS WHOSE TREATMENT STANDARDS ARE NOTED: ACETONE(0.59 PPM); MEK(0.75 PPM); MIBK(0.33 PPM); TOLUENE(0.33 PPM); AND XYLENE (0.15 PPM).					EPA HW Number: XX Authorization Number:

J. Additional Descriptions for Materials Listed Above

I(A) F005

K. Handling Codes for Wastes Listed Above In Item # 14

1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information

8917 05662259 172227 5-160-42-4182 0105

1-5GAL PAIL, 4-16 GAL DRUMS

06617179

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; **OR,** if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Date (Month Day Year)
X DEREK E VATHO	X Derek Vatho	042889

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
GREG KANE	Greg Kane	042889

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name	Signature	Date (Month Day Year)
Agnes Adams	Agnes Adams	051089

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

In case of a spill call the Illinois Office of Emergency Response at 217/782-3637 and the National Response Center at 800/424-8802 or 202/426-2675.

STATE OF ILLINOIS — ENVIRONMENTAL PROTECTION AGENCY · DIVISION OF LAND POLLUTION CONTROL

P.O. BOX 19276 , SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/81 IL532-0610

FOR SHIPMENT OF HAZARDOUS, INFECTIOUS AND SPECIAL WASTE

5-160-02

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter.) **EPA Form 8700-22 (Rev. 9-86)** Form Approved. OMB No. 2050-0039, Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL7570024177 — Manifest Document No.: 0015

2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address / Location If Different:
SCOTT AIR FORCE BASE
375 ABG/DEEV
SCOTT AIR FORCE BASE IL 62225

4. Generator's Phone (618) 256-2092

A. Illinois Manifest Document Number: IL 3129143 MANIFEST FEE EXEMPT

B. Illinois Generator's ID: 1 6 3 0 1 0 0 0 1 5

5. Transporter 1 Company Name: SAFETY-KLEEN CORP. — 6. US EPA ID Number: ILD051060408

C. Illinois Transporter's ID: 1 1 1 2 3

D. (618) 398-6880 Transporter's Phone

7. Transporter 2 Company Name — 8. US EPA ID Number

E. Illinois Transporter's ID

F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address:
SAFETY-KLEEN CORP.
20 TUCKER DRIVE 5-160-02
CASEYVILLE IL 62232

10. US EPA ID Number: ILD981097819

G. Illinois Facility's ID: 1 6 3 0 2 5 0 0 0 7

H. Facility's Phone: (618) 398-6880

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. WASTE PETROLEUM NAPHTHA COMBUSTIBLE LIQUID UN1255 (EPA D001) 501	12	DM	154	1	EPA HW Number: XX D001 Authorization Number: 0 0 0 0 0 4
b. WASTE COMPOUND CLEANING LIQUID CORROSIVE MATERIAL NA1760 (EPA F002) 503	2	DM	10	1	EPA HW Number: XX F002 Authorization Number: 0 0 0 0 0 3
c.					EPA HW Number: XX Authorization Number:
d.					EPA HW Number: XX Authorization Number:

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above In Item # 14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information
8917 05533344 132828 5-160-02-2167 0450

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; **OR**, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR

Printed/Typed Name	Signature	Date (Month Day Year)
X DEREK J ATHO	X Derek E Fath	04 28 89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
GREG KANE	Greg Kane	04 28 89

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

FACILITY

19. Discrepancy Indication Space

Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name	Signature	Date (Month Day Year)
Dina Payne	Dina Payne	042889

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

In case of a spill call the Illinois Office of Emergency Response at 217/782-3637 and the National Response Center at 800/424-8802 or 202/426-2675.

STATE OF ILLINOIS
PO-15052
SK-Caseyville
5-160-42

ENVIRONMENTAL PROTECTION AGENCY · DIVISION OF LAND POLLUTION CONTROL
P.O. BOX 19276 , SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761
State Form LPC 62 8/81 IL532-0610

FOR SHIPMENT OF HAZARDOUS, INFECTIOUS AND SPECIAL WASTE

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter.) **EPA Form 8700-22 (Rev. 9-86)** Form Approved. OMB No. 2050-0039, Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL7570024177
Manifest Document No.: 00017
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address
SCOTT AIR FORCE BASE
375 ABG/DEEU
SCOTT AIR FORCE BASE IL 62225
4. Generator's Phone (618) 256-2092

Location If Different:

A. Illinois Manifest Document Number: IL 4031062 MANIFEST FEE PAID
B. Illinois Generator's ID: 1 6 3 0 1 0 0 0 1 5

5. Transporter 1 Company Name: SAFETY-KLEEN CORP.
6. US EPA ID Number: ILD051060408
C. Illinois Transporter's ID: 1 1 2 3
D. (618) 398-6880 Transporter's Phone

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. Illinois Transporter's ID:
F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN CORP.
633 EAST 138TH ST 0-006-54
DOLTON IL 60419
10. US EPA ID Number: ILD980613913
G. Illinois Facility's ID: 0 3 1 0 6 9 0 0 0 0 6
H. Facility's Phone (312) 849-4850

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. WASTE PAINT RELATED MATERIAL, FLAMMABLE LIQUID NA1263 (EPA F003) 523	3	DM	35	1	EPA HW Number XX F 0 0 3 Authorization Number 0 0 0 1 6 1
b.					EPA HW Number XX Authorization Number
c.					EPA HW Number XX Authorization Number
d. NOTICE: IN ACCORDANCE WITH 40 CFR 268,7, THE GENERATOR PROVIDES NOTICE THAT THE WASTE DESCRIBED AS 'WASTE PAINT RELATED MATERIAL' IS A RESTRICTED WASTE. THE WASTE CONTAINS THE FOLLOWING CONSTITUENTS WHOSE TREATMENT STANDARDS ARE NOTED: ACETONE(0.59 PPM); MEK(0.75 PPM); MIBK(0.33 PPM); TOLUENE(0.33 PPM); AND XYLENE (0.15 PPM). I(A) F005					EPA HW Number XX Authorization Number

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above In Item #14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information
8913 05035746 850078 5-160-42-4182 XX

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. 05778105

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; **OR**, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Date (Month Day Year)
X DEREK JATHO, 2LT	X Derek Jatho	03 30 89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
GREG KANE	Greg Kane	03 30 89

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

FACILITY

19. Discrepancy Indication Space

Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name	Signature	Date (Month Day Year)
Gail M. Coffman	Gail M. Coffman	04 1 89

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COPY 1. TSD MAIL TO GENERATOR

In case of a spill call the Illinois Office of Emergency Response at 217/782-3637 and the National Response Center at 800/424-8802 or 202/426-2675.

STATE OF ILLINOIS — ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

FOR SHIPMENT OF HAZARDOUS, INFECTIOUS AND SPECIAL WASTE

State Form LPC 62 8/81 IL532-0610

5-160-02

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter.) **EPA Form 8700-22 (Rev. 9-86)** Form Approved. OMB No. 2050-0039, Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL7570024177 | Manifest Document No.: 00016

2. Page 1 of 1 | Information in the shaded areas is not required by Illinois law.

3. Generator's Name and Mailing Address / Location If Different:
SCOTT AIR FORCE BASE
375 ABG/DEEV
SCOTT AIR FORCE BASE IL 62225

4. Generator's Phone (618) 256-2092

A. Illinois Manifest Document Number: IL 4030455 MANIFEST FEE PAID

B. Illinois Generator's ID: 1 6 3 0 1 0 0 0 1 5

5. Transporter 1 Company Name: SAFETY-KLEEN CORP.

6. US EPA ID Number: ILD051060408

C. Illinois Transporter's ID: 1 1 2 3

D. (618) 398-6880 Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. Illinois Transporter's ID

F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN CORP.
20 TUCKER DRIVE 5-160-02
CASEYVILLE IL 62232

10. US EPA ID Number: ILD981097819

G. Illinois Facility's ID: 1 6 3 0 2 5 0 0 0 7

H. Facility's Phone: (618) 398-6880

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. WASTE PETROLEUM NAPHTHA, COMBUSTIBLE LIQUID UN1255 (EPA D001) 501	14	DM	210	1	EPA HW Number: XX D 0 0 1 Authorization Number: 0 0 0 0 0 4
b. WASTE COMPOUND CLEANING LIQUID CORROSIVE MATERIAL NA1760 (EPA F002) 503	1	DM	5	1	EPA HW Number: XX F 0 0 2 Authorization Number: 0 0 0 0 0 3
c.					EPA HW Number: XX Authorization Number
d.					EPA HW Number: XX Authorization Number

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above In Item # 14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information: 8913 04909727 811869 5-160-02-2167 0450

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; **OR**, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR

Printed/Typed Name: DEREK JATHO, 2LT | Signature: Derek Jatho | Date: Month Day Year 033089

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: GREG KANE | Signature: Greg Kane | Date: Month Day Year 033089

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name: Dina Payne | Signature: Dina Payne | Date: Month Day Year 033089

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COPY 1. TSD MAIL TO GENERATOR

In case of a spill call the Illinois Office of Emergency Response at 217/782-3637 and the National Response Center at 800/424-8802 or 202/426-2675.

STATE OF ILLINOIS
PO# 14648
SK-Caseyville

ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL
2200 CHURCHILL ROAD, SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761
P.O. BOX 19276

IL532-0610
LPC 62 8/87

Please Print or Type 5-160-42 (Form designed for use on elite (12-pitch) typewriter.) **EPA Form 8700-22 (Rev. 9-86)** Form Approved. OMB No. 2050-0039, Expires 9-30-89

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL7570024177
Manifest Document No.: 00015
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address
SCOTT AIR FORCE BASE
375 ABG/DEEU
SCOTT AIR FORCE BASE IL 62225
4. Generator's Phone (618) 256-2092

A. Illinois Manifest Document Number: IL 2201995
B. Illinois Generator's ID: 1 6 3 0 1 0 0 0 1 5

5. Transporter 1 Company Name: SAFETY-KLEEN CORP.
6. US EPA ID Number: ILD051060408
C. Illinois Transporter's ID: 1 1 2 3
D. (618) 398-6880 Transporter's Phone

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. Illinois Transporter's ID:
F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN CORP.
633 EAST 138TH ST 0-006-54
DOLTON IL 60419
10. US EPA ID Number: ILD980613913
G. Illinois Facility's ID: 0 3 1 0 6 9 0 0 0 6
H. Facility's Phone: (312) 849-4850

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. WASTE PAINT RELATED MATERIAL, FLAMMABLE LIQUID NA1263 (EPA F003) 523	3	DM	35	1	EPA HW Number: XX F003; Authorization Number: 0001161
b.					EPA HW Number: XX; Authorization Number:
c.					EPA HW Number: XX; Authorization Number:
d. NOTICE: IN ACCORDANCE WITH 40 CFR 268,7, THE GENERATOR PROVIDES THAT THE WASTE DESCRIBED AS 'WASTE PAINT RELATED MATERIAL' IS A RESTRICTED WASTE. THE WASTE CONTAINS THE FOLLOWING CONSTITUENTS WHOSE TREATMENT STANDARDS ARE NOTED: ACETONE(0.59 PPM); MEK(0.75 PPM); MIBK(0.33 PPM); TOLUENE(0.33 PPM); AND XYLENE (0.15 PPM).			NOTICE		EPA HW Number: XX; Authorization Number:

J. Additional Descriptions for Materials Listed Above
I(A) F005
1 - PAIL 2 Drum

K. Handling Codes for Wastes Listed Above In Item #14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information
8909 04381554 522126 5-160-42-4182 XX

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. 05304266

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; **OR,** if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: DEREK E JATHO
Signature: Derek E Jatho
Date: Month Day Year: 030389

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: KURT HARTMAN
Signature: Kurt Hartman
Date: Month Day Year: 030389

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: ~~KURT HARTMAN~~
Signature:
Date: Month Day Year:

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: ROMELLE BREETZKE
Signature: on behalf of Safety Kleen Romelle A. Breetzke
Date: Month Day Year: 031689

GENERATOR / TRANSPORTER / FACILITY

IN ILLINOIS: 217 / 782-3637 *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS* OUTSIDE ILLINOIS: 800 / 424-8802 or 202 / 426-2675

DISTRIBUTION: PART - 1 GENERATOR PART - 2 IEPA PART - 3 FACILITY PART - 4 TRANSPORTER PART - 5 IEPA PART - 6 GENERATOR

REV. 7

GENERATOR COPY — PART 1-DO NOT REMOVE PART 1 FROM SET UNTIL COMPLETED.

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STATE OF ILLINOIS

ENVIRONMENTAL PROTECTION AGENCY · DIVISION OF LAND POLLUTION CONTROL

2200 CHURCHILL ROAD, SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761
P.O. BOX 19276

IL532-0010
LPC 62 8/88

Please print or type. 5-160-02 (Form designed for use on elite (12-pitch) typewriter.) **EPA Form 8700-22 (Rev. 9-86)** Form Approved. OMB No. 2050-0039, Expires 9-30-89

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL7570024177 — Manifest Document No.: 00014

2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address
SCOTT AIR FORCE BASE
375 ABG/DEEV
SCOTT AIR FORCE BASE IL 62225

4. Generator's Phone (618) 256-2092

A. Illinois Manifest Document Number: IL 2202180

B. Illinois Generator's ID: 1 6 3 0 1 0 0 0 1 5

5. Transporter 1 Company Name: SAFETY-KLEEN CORP.

6. US EPA ID Number: ILD051060408

C. Illinois Transporter's ID: 1 1 2 3

D. (618) 398-6880 Transporter's Phone

7. Transporter 2 Company Name:

8. US EPA ID Number:

E. Illinois Transporter's ID:

F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN CORP.
20 TUCKER DRIVE 5-160-02
CASEYVILLE IL 62232

10. US EPA ID Number: ILD981097819

G. Illinois Facility's ID: 1 6 3 0 2 5 0 0 0 7

H. Facility's Phone: (618) 398-6880

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. WASTE PETROLEUM NAPHTHA, COMBUSTIBLE LIQUID UN1255 (EPA D001) 501	5	DM	49	1	EPA HW Number: XX D001; Authorization Number: 0000004
b. WASTE COMPOUND CLEANING LIQUID CORROSIVE MATERIAL NA1760 (EPA F002) 503	1	DM	5	1	EPA HW Number: XX F002; Authorization Number: 0000003
c.					EPA HW Number: XX; Authorization Number:
d.					EPA HW Number: XX; Authorization Number:

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above In Item #14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information
8909 04256657 483675 5-160-02-2167 0450

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; **OR,** if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: DEREK E JATHO — Signature: Derek E Jatho — Date: Month Day Year 030389

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: X KURT HARTMAN — Signature: X Kurt Hartman — Date: Month Day Year 030389

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: — Signature: — Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name: Dina Payne — Signature: Dina Payne — Date: Month Day Year 030389

GENERATOR — TRANSPORTER — FACILITY

IN ILLINOIS: 217 / 782-3637 *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS* OUTSIDE ILLINOIS: 800 / 424-8802 or 202 / 426-2675

DISTRIBUTION: PART - 1 GENERATOR PART - 2 IEPA PART - 3 FACILITY PART - 4 TRANSPORTER PART - 5 IEPA PART - 6 GENERATOR

REV. 7

GENERATOR COPY — PART 1-DO NOT REMOVE PART 1 FROM SET UNTIL COMPLETED.

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STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL
2200 CHURCHILL ROAD, SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761
P.O. BOX 19276

Sasey P.O. 14354
5-160-42

IL532-0610
LPC 62 8/81

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) **EPA Form 8700-22 (Rev. 9-86)** Form Approved. OMB No. 2050-0039, Expires 9-30-89

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL7570024177
Manifest Document No.: 00013
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address
SCOTT AIR FORCE BASE
375 ABG/DEEU
SCOTT AIR FORCE BASE IL 62225
4. Generator's Phone (618) 256-2092

A. Illinois Manifest Document Number: IL 2175255
B. Illinois Generator's ID: 1 6 3 0 1 0 0 0 1 5

5. Transporter 1 Company Name: SAFETY-KLEEN CORP.
6. US EPA ID Number: ILD051060408
C. Illinois Transporter's ID: 1 1 1 2 3
D. (618) 398-6880 Transporter's Phone

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. Illinois Transporter's ID:
F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN CORP.
633 EAST 138TH ST 0-006-54
DOLTON IL 60419
10. US EPA ID Number: ILD980613913
G. Illinois Facility's ID: 0 3 1 0 6 9 0 0 0 6
H. Facility's Phone: (312) 849-4850

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. WASTE PAINT RELATED MATERIAL, FLAMMABLE LIQUID NA1263 (EPA F003) 523	3	DM	35	1	EPA HW Number: XX F003; Authorization Number: 0 0 0 1 6 1
b.					EPA HW Number: XX; Authorization Number:
c.					EPA HW Number: XX; Authorization Number:
d. NOTICE: IN ACCORDANCE WITH 40 CFR 268,7, THE GENERATOR PROVIDES NOTICE THAT THE WASTE DESCRIBED AS 'WASTE PAINT RELATED MATERIAL' IS A RESTRICTED WASTE. THE WASTE CONTAINS THE FOLLOWING CONSTITUENTS WHOSE TREATMENT STANDARDS ARE NOTED: ACETONE(0.59 PPM); MEK(0.75 PPM); MIBK(0.33 PPM); TOLUENE(0.33 PPM); AND XYLENE (0.15 PPM).					EPA HW Number: XX; Authorization Number:

J. Additional Descriptions for Materials Listed Above
I(A) F005
2-100

K. Handling Codes for Wastes Listed Above In Item #14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information
8905 03782281 195434 5-160-42-4182 XX
1-5 GAL DRUM
2-16 GAL DRUMS

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. 04373536

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; **OR**, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: DEREK E JATHO, 2Lt USAF
Signature: Derek E Jatho
Date: Month Day Year: 02 02 89

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: R WEAVER
Signature: R Weaver
Date: Month Day Year: 02 02 89

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year:

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: Gail M. Coffman
Signature: Gail M. Coffman On behalf of Safety Kleen
Date: Month Day Year: 02 03 89

GENERATOR / TRANSPORTER / FACILITY

IN ILLINOIS: 217 / 782-3637 *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS* OUTSIDE ILLINOIS: 800 / 424-8802 or 202 / 426-2675
DISTRIBUTION: PART - 1 GENERATOR PART - 2 IEPA PART - 3 FACILITY PART - 4 TRANSPORTER PART - 5 IEPA PART - 6 GENERATOR
REV. 7

GENERATOR COPY — PART 1-DO NOT REMOVE PART 1 FROM SET UNTIL COMPLETED.

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STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

2200 CHURCHILL ROAD, SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761
P.O. BOX 19276

IL532-0610 LPC 62 8781

Please print or type 5-160-02 (Form designed for use on elite (12-pitch) typewriter.) **EPA Form 8700-22 (Rev. 9-86)** Form Approved. OMB No. 2050-0039, Expires 9-30-89

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL7570024177 — Manifest Document No.: 00012

2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address
SCOTT AIR FORCE BASE
375 ABG/DEEV
SCOTT AIR FORCE BASE IL 62225

4. Generator's Phone (618) 256-2092

A. Illinois Manifest Document Number: IL 2231437

B. Illinois Generator's ID: 1 6 3 0 1 0 0 0 1 5

5. Transporter 1 Company Name: SAFETY-KLEEN CORP.

6. US EPA ID Number: ILD051060408

C. Illinois Transporter's ID: 1 1 2 3

D. (618) 398-6880 Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. Illinois Transporter's ID

F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN CORP.
20 TUCKER DRIVE 5-160-02
CASEYVILLE IL 62232

10. US EPA ID Number: ILD981097819

G. Illinois Facility's ID: 1 6 3 0 2 5 0 0 0 7

H. Facility's Phone (618) 398-6880

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. WASTE PETROLEUM NAPHTHA, COMBUSTIBLE LIQUID UN1255 (EPA D001) 501	23	DM	343	1	EPA HW Number: XX D 0 0 1 Authorization Number: 0 0 0 0 0 4
b. WASTE COMPOUND CLEANING LIQUID CORROSIVE MATERIAL NA1760 (EPA F002) 503	2	DM	1.2	1	EPA HW Number: XX F 0 0 2 Authorization Number: 0 0 0 0 0 3
c.					EPA HW Number: XX Authorization Number
d.					EPA HW Number: XX Authorization Number

GENERATOR

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above In Item #14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information
8905 03660735 156934 5-160-02-2167 0450

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name	Signature	Date (Month Day Year)
DEREK E JATHO, 2LT USAF	Derek E Jatho	02 02 89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials		
Printed/Typed Name: R WEAVER	Signature: R Weaver	Date: 02 02 89
18. Transporter 2 Acknowledgement of Receipt of Materials		
Printed/Typed Name	Signature	Date

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name	Signature	Date (Month Day Year)
DINA Payne	Dina Payne	02 02 89

IN ILLINOIS: 217 / 782-3637 *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS* OUTSIDE ILLINOIS: 800 / 424-8802 or 202 / 426-2675

DISTRIBUTION: PART - 1 GENERATOR PART - 2 IEPA PART - 3 FACILITY PART - 4 TRANSPORTER PART - 5 IEPA PART - 6 GENERATOR

REV. 7

GENERATOR COPY — PART 1-DO NOT REMOVE PART 1 FROM SET UNTIL COMPLETED.

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STATE OF ILLINOIS
Casey PO 14119
5-160-42

ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL
2200 CHURCHILL ROAD, SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761
P.O. BOX 19276

IL532-0610 13
LPC 62 8/89

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL7570024177
Manifest Document No.: 00001
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address
SCOTT AIR FORCE BASE
375 ABG/DEEU
SCOTT AIR FORCE BASE IL 62225
4. Generator's Phone (618) 256-2092

A. Illinois Manifest Document Number: IL 2210605
B. Illinois Generator's ID: 1 6 3 0 1 0 0 0 1 5

5. Transporter 1 Company Name: SAFETY-KLEEN CORP.
6. US EPA ID Number: ILD051060408
C. Illinois Transporter's ID: 1 1 2 3
D. (618) 398-6880 Transporter's Phone

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. Illinois Transporter's ID:
F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN CORP.
633 EAST 138TH ST 0-006-54
DOLTON IL 60419
10. US EPA ID Number: ILD980613913
G. Illinois Facility's ID: 0 3 1 0 6 9 0 0 0 6
H. Facility's Phone: (312) 849-4850

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. WASTE PAINT RELATED MATERIAL, FLAMMABLE LIQUID NA1263 (EPA F003) 523	3	DM	35	1	EPA HW Number: XX F003; Authorization Number: 0001161
b.					EPA HW Number: XX; Authorization Number:
c.					EPA HW Number: XX; Authorization Number:
d. NOTICE: IN ACCORDANCE WITH 40 CFR 268,7, THE GENERATOR PROVIDES NOTICE THAT THE WASTE DESCRIBED AS 'WASTE PAINT RELATED MATERIAL' IS A RESTRICTED WASTE. THE WASTE CONTAINS THE FOLLOWING CONSTITUENTS WHOSE TREATMENT STANDARDS ARE NOTED: ACETONE(0.59 PPM); MEK(0.75 PPM); MIBK(0.33 PPM); TOLUENE(0.33 PPM); AND XYLENE (0.15 PPM).					EPA HW Number: XX; Authorization Number:

J. Additional Descriptions for Materials Listed Above
I(A) F005

K. Handling Codes for Wastes Listed Above In Item #14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information
8901 03214665 867347 5-160-42-4182 XX
1-5gAL PAIL, 2-16GAL DRUMS
03737152

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.
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Printed/Typed Name	Signature	Date (Month Day Year)
DEREK E JATHO	Derek E Jatho	01 06 89

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
GREG KANE	Greg Kane	01 06 89

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name	Signature	Date (Month Day Year)
Gail M. Coffman	On behalf of Safety Kleen Gail M. Coffman	01 12 89

GENERATOR / TRANSPORTER / FACILITY

IN ILLINOIS: 217 / 782-3637 *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS* OUTSIDE ILLINOIS: 800 / 424-8802 or 202 / 426-2675

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REV. 7

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STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

2200 CHURCHILL ROAD, SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761
P.O. BOX 19276

IL532-0610
LPC 62 8/87

Please print or type. 5-160-02 (Form designed for use on elite (12-pitch) typewriter.) **EPA Form 8700-22 (Rev. 9-86)** Form Approved. OMB No. 2050-0039, Expires 9-30-89

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL7570024177 — Manifest Document No.: 00010
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address
SCOTT AIR FORCE BASE
375 ABG/DEEV
SCOTT AIR FORCE BASE IL 62225

4. Generator's Phone (618) 256-2092

A. Illinois Manifest Document Number: IL 2210815
B. Illinois Generator's ID: 1 6 3 0 1 0 0 0 1 5

5. Transporter 1 Company Name: SAFETY-KLEEN CORP.
6. US EPA ID Number: ILD051060408
C. Illinois Transporter's ID: 1 1 2 3
D. (618) 398-6880 Transporter's Phone

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. Illinois Transporter's ID:
F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN CORP.
20 TUCKER DRIVE 5-160-02
CASEYVILLE IL 62232

10. US EPA ID Number: ILD981097819
G. Illinois Facility's ID: 1 6 3 0 2 5 0 0 0 7
H. Facility's Phone: (618) 398-6880

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. WASTE PETROLEUM NAPHTHA, COMBUSTIBLE LIQUID UN1255 (EPA D001) 501	5	DM	49	1	EPA HW Number: XX D001; Authorization Number: 000004
b. WASTE COMPOUND CLEANING LIQUID CORROSIVE MATERIAL NA1760 (EPA F002) 503	1	DM	5	1	EPA HW Number: XX F002; Authorization Number: 000003
c.					EPA HW Number: XX; Authorization Number:
d.					EPA HW Number: XX; Authorization Number:

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above In Item #14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information
8901 03091485 838963 5-160-02-2167 0450

LAND BAN REQUIRED

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: X DEREK JATHO — Signature: X Derek Jatho — Date: Month Day Year: 01 06 89

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: GREG KANE — Signature: Greg Kane — Date: Month Day Year: 01 06 89

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month Day Year:

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: DINA Payne — Signature: Dina Payne — Date: Month Day Year: 01 06 89

GENERATOR — TRANSPORTER — FACILITY

IN ILLINOIS: 217 / 782-3637 *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS* OUTSIDE ILLINOIS: 800 / 424-8802 or 202 / 426-2675

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REV. 7

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DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 375TH AIR BASE GROUP (MAC)
SCOTT AIR FORCE BASE, ILLINOIS 62225

Called Capt Lanctot 3/16/90 Answered questions will send additional info.

23 FEB 1990

REPLY TO ATTN OF: DEEV (Capt Lanctot, 618-256-2092)

SUBJECT: Notice of Violation, Scott Air Force Base, IL570 024 177

TO: United States Environmental Protection Agency
Region 5
230 South Dearborn St.
Chicago, Illinois 60604

1. The following response is provided concerning the inspection conducted on 24 May 89:

a. RCRA Inspection:

(1) Item 1. All containers identified during the inspection have been clearly marked or labeled with the words, "Hazardous Waste." An inspection program began in Dec 89 to identify areas that containers have not been properly marked.

(2) Item 2. All containers identified during your visit have been clearly marked with the period which accumulation began. All accumulation point managers have been informed of the requirement and an inspection program began in Dec 89 to identify such problems. To date two accumulation points have been inspected with the others scheduled during the year.

(3) Item 3. All hazardous waste managers have been briefed on the requirement that hazardous waste containers be closed during storage. Most managers have ordered locking funnels, and based on the inspections conducted, the funnels are being used. There is currently a work request to remove the liquid hazardous waste being stored in plastic 95-gallon overpak drums into 55-gallon steel drums. We anticipate the problem to be corrected by Mar 90. When this is completed we must receive verification Not corrected until April 15th. Will send verification.

(4) Item 4. All accumulation point managers are aware of the requirement that all containers in storage must be inspected at least weekly. The current inspection program identifies this as an inspection item.

Are these being completed
yes. Written doc.

RECEIVED
MAR 6 - 1990
OFFICE OF RCRA
WASTE MANAGEMENT DIVISION
EPA - REGION 5

April 18th award of Contract

(5) Item 5. The area known as the "aqua yard" where hazardous waste is stored has a red phone located on the corner of the yard which is a direct line to the fire department. Portable fire extinguishers have been placed in the area. Based on your comments concerning the location of the current storage area, we are currently considering relocating the storage area and attempting to process our hazardous waste within the 90-day period. However; until we have successfully proven that we can achieve that goal, we will continue to pursue our Part B permit.

(6) Item 6. A written waste plan is being developed in accordance with Section 725.113(b). We are also trying to obtain a requirements type contract through a local contractor for analysis of our hazardous waste. This will hopefully improve the quality of our test analysis as well as quicken the procedure for testing. Once again, this will enable us to dispose of the waste within the 90-day period allowed, even if analysis is required. Based on this requirements contract, we can also establish a procedure for review of the initial analysis. with award contract until April 18th

Must send a copy of the waste plan when completed.

(7) Item 7. Training records with names, titles, and job descriptions relating to hazardous waste management, for all employees handling hazardous waste, are being updated to include this information. Must be completed → May 1st.

(8) Item 8. The contingency plan has been reviewed and revised and is being forwarded to your office. → has been completed.

(9) Item 9. The current contingency plan contains a list of emergency coordinators, and 24-hour point of contact for each duty.

(10) Item 10. The current storage area is being rearranged to comply with this requirement. As stated earlier, our goal is to dispose of our hazardous waste within the 90-day period thus limiting the number of barrels of hazardous waste and enabling segregation of incompatible wastes.

b. Land Disposal Restrictions:

(1) Item 1. As stated above, we are obtaining a new waste analysis contract which will improve our accuracy as well as speed in receiving results. This combined with our waste analysis plan and review or repeat of the initial analysis should resolve this problem.

Notify us when April 18th Contract

notify when April 18th

(2) Item 2. There is currently a contract to analyze all the unknown or misidentified waste in storage. We anticipate the results to be available by Apr 90 and the waste to be disposed of within 45 days after the test results are received.

(3) Item 3. Separate written notices are now attached to manifests for each shipment of restricted wastes with the USEPA hazardous waste number and waste analysis data, where available, as required by Section 268.7(a)(1).

regarding waste analysis.

(4) Item 4. Our waste analysis plan will incorporate the parameters to be tested, test methods, or sampling methods of waste generated at SAFB. The new requirements contract for analysis of our hazardous waste will also help in achieving compliance in this area.

(5) Item 5. An operating record has been developed for the hazardous waste storage area. In addition, the current hazardous waste management plan is being updated and includes procedures for the hazardous waste storage area.

Is the operating Record being used? yes.

(6) Item 6. All containers currently in the hazardous waste storage area have dates marked, and contents will be identified upon completion of the analysis contract in Apr 90. The new hazardous waste management plan will also address marking containers and identification of waste.

2. We are correcting your cited violations as rapidly as possible. Some of the violations will take longer to correct due to the time required for contractor's hazardous waste analysis and processing. We are also developing a complete program for the management of our hazardous waste, which will enable us to avoid any future problems.

3. If you have any questions concerning this response or our environmental program, please contact Capt Maria T. Lanctot, Environmental Coordinator, (618) 256-2092.

Lawrence A Pasek

LAWRENCE A. PASEK, P.E.
Deputy Base Civil Engineer

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.

Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☒ Show to whom delivered, date, and addressee's address. *(Extra charge)*
2. ☐ Restricted Delivery *(Extra charge)*

3. Article Addressed to:

Lieutenant Derek Jatho
Environmental Coordinator
U.S. Air Force
Scott Air Force Base
Belleville, Illinois 62225-5045

4. Article Number

P 155 069 849

Type of Service:
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature – Addressee

X

6. Signature – Agent

X 375 ABG/DAAC
Scott AFB, IL 62225

7. Date of Delivery

29 MAY 1990

8. Addressee's Address *(ONLY if requested and fee paid)*

PS Form 3811, Mar. 1988 * U.S.G.P.O. 1987-178-288 DOMESTIC RETURN RECEIPT

JAN 2 6 1990

5HR-12

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Lieutenant Derek Jatho
Environmental Coordinator
U.S. Air Force
Scott Air Force Base
Belleville, Illinois 62225-5045

Re: Notice of Violation
Scott Air Force Base
IL7 570 024 177

Dear Lieutenant Jatho:

An inspection of the Scott Air Force Base was conducted on May 24, 1989, by representatives of the United States Environmental Protection Agency (U.S. EPA). The Illinois Environmental Protection Agency (IEPA) was notified of this inspection but did not participate. Under Executive Order 12088 of the Resource Conservation and Recovery Act (RCRA), Federal agencies have been given the primary responsibility for ensuring the compliance of Federal facilities under their jurisdiction.

The purpose of the inspection was to determine if the Scott Air Force Base was in compliance with the State equivalent requirements of Subtitle C of RCRA as amended, 42 U.S.C. §6901 et seq., including the Federal land disposal restrictions. The land disposal restrictions for F001-F005 waste solvents became effective on November 8, 1986, (reference 51 Federal Register 40636: revisions to 40 CFR Parts 260-265, 268, and 270-271) and for "California List" hazardous wastes on July 8, 1987, (reference 52 Federal Register 25760: revisions to 40 CFR Parts 262, 264, 265, 268, and 270-271). Additionally, the land disposal restrictions for First Third of Scheduled Wastes became effective on August 8, 1988, (53 Federal Register 31138: revisions to 40 CFR Parts 264, 265, 266, 268, and 271). The State requirements are found at 35 Ill. Adm. Code 720 et seq. A copy of the inspection report is enclosed for your information.

As a result of the RCRA inspection, the following violations have been identified:

1. 35 Ill. Adm. Code Part 722.134(a)(3) which requires that each container be clearly marked or labeled with the words "Hazardous Waste";

2. 35 Ill. Adm. Code Part 722.134(a)(2) which requires that the date upon which each period of accumulation begins is clearly marked and is visible for inspection on each container;

3. 35 Ill. Adm. Code Part 725.273 which requires all containers of hazardous waste be closed during storage and that containers of hazardous waste which are opened, are handled or stored in a manner which will prevent the rupture of the container and prevent the container from leaking;

4. 35 Ill. Adm. Code Part 725.274 which requires that areas where hazardous wastes are stored, be inspected at least weekly, identifying leaks and or deterioration caused by corrosion or other factors;

5. 35 Ill. Adm. Code Part 725.132(a), 725.132(b), 725.132(c) which requires that the facility be equipped with an internal communications or alarm system, a telephone capable of summoning emergency assistance from local police or fire and portable fire extinguishers, fire control equipment;

6. 35 Ill. Adm. Code Part 725.113(a)(1), 725.113(a)(2), and 725.113(a)(3) which requires that an owner or operator follow the procedures in a written waste analysis plan;

7. 35 Ill. Adm. Code Part 725.116(d) and 725.116(d)(2) which requires the facility to maintain complete records for the job title for each position related to the management of hazardous waste and the names of the employees filling each job and a written job description for each job position must also be maintained;

8. 35 Ill. Adm. Code Part 725.155(a) which requires that the facility maintains a Contingency Plan. The facility did have a contingency plan available however it needed to be reviewed and revised;

9. 35 Ill. Adm. Code Part 725.152(d) which requires that the Contingency Plan contains a list of emergency coordinators, phone numbers and addresses; and

10. 35 Ill. Adm. Code Part 725.117 which requires the owner or operator to take precautions to prevent accidental ignition or reaction of ignitable or reactive waste. At the time of inspection incompatible wastes were stored next to each other.

With respect to the land disposal restrictions section of the inspection, your facility was found to be in violation of the following:

1. Failure to determine the appropriate treatability group of the waste as required by Section 268.41;

2. Failure to determine whether the waste exceeds treatment standards as required by Section 268.7(a);

3. Failure to provide a separate written notice attached to the manifest for each shipment of restricted wastes with the U.S. EPA hazardous waste numbers, the applicable treatment standards, manifest number, and waste analysis data, where available, as required by Section 268.7(a)(1);

4. Failure to revise the waste analysis plan to include 40 CFR Part 268 requirements in accordance with Section 265.13;

5. Failure to maintain a complete operating record to include 40 CFR Part 268 requirements in accordance with Section 265.73; and

6. Failure to identify contents and mark dates on all containers entering storage, as required by Section 268.50(a)(2)(i).

You are hereby requested to submit within (30) days from the date of this letter a written description of the actions taken to correct the aforementioned violations. Failure to correct the violations may subject the facility to further Federal enforcement actions.

If you have any questions regarding this matter, please contact Ms. Janet Haff of my staff at (312) 353-7923.

Sincerely yours,

William E. Muno, Chief
RCRA Enforcement Branch

Enclosure

cc: Harry Chappel, IEPA
Glen Savage, IEPA

bcc: G. Golubski, 5SCDO
B. Franz, 5ME
Compliance File
J. Haff, 5HR-12

DEPARTMENT OF THE AIR FORCE

HEADQUARTERS 375 AEROMEDICAL AIRLIFT WING (MAC)

SCOTT AIR FORCE BASE, ILLINIOS 62225-5000

375 Aeromedical Airlift Wing Operations Plan 198-85

HAZARDOUS WASTE MANAGEMENT PLAN

January 1990

OPR: 375 ABG/DE

Draft

Headquarters 375 Aeromedical Airlift Wing (MAC)
Scott Air Force Base, Illinios 62225-5000
January 1990

375 AAW OPLAN 198-85
SECURITY INSTRUCTIONS

1. The long title of this document is 375 Aeromedical Airlift Wing Operations Plan 198-85. The short title is 375 AAW OPLAN 198-85. The title assigned this plan is Hazardous Waste Management.

2. The 375 Air Base Group Civil Engineering Environmental Section (DEEV) is the office of primary responsibility. Recommendations/revisions pertainlng to this document should be submitted to that office for action.

3. This document is unclassified and does not come within the scope of directives governing the protection of information affecting the national security. Although it is unclassified, it is FOR OFFICIAL USE ONLY and will be handled as directed by AFR 12-30 and AFR 12-310 The reproduction of this document in its entirety is forbidden except by authority of the office of origin. Commanders of Task Organizations and Friendly Forces may extract and reproduce those portions of this document essential in the accomplishment of necessary planning and in preparation of supporting documents.

4. Changes will be published, in letter format, by the OPR (DEEV) and forwarded to all recipients of the original operations plan.

Headquarters 375 Aeromedical Airlift Wing (MAC)
Scott Air Force Base, Illinios 62225-5000
January 1990

RECORD OF CHANGES

CHANGE NUMBER	COPY NUMBER	DATE ENTERED	POSTED BY

RECORD OF ANNUAL REVIEW

REVIEWED BY	DATE REVIEWED	REMARKS

After posting, file change sheets immediately behind front cover of the basic plan with most recent change on top.

Headquarters 375 Aeromedical Airlift Wing (MAC)
Scott Air Force Base, Illinios 62225-5000
January 1990

375 AAW OPLAN 198-85
PLAN SUMMARY

1. PURPOSE. The purpose of the 375 AAW OPLAN 198-85 is to establish procedures, assign responsibilities, and provides guidance for environmentally acceptable storage, transportation, and disposal of hazardous wastes on Scott AFB.

2. CONDITIONS FOR IMPLEMENTATION. This plan and its existing procedures will be followed by any organization that generates hazardous waste.

3. OPERATIONS TO BE CONDUCTED. Any organization generating hazardous waste must follow those actions stated in this plan.

4. KEY ASSUMPTIONS:

a. Adequate personnel and material will be available to support this plan.

b. Implementation of this plan will be by any organization generating hazardous waste.

5. OPERATIONAL CONSTRAINTS. In the event of a major hazardous waste spill, the present storage area (Bldg 59, Aqua Yard) may not have adequate storage space once clean-up operations are completed. The storage capacity of the aqua yard is 1980 gallons (36 -55 gal drums)

6. COMMAND RELATIONSHIPS. The Base Environmental Engineering Section (DEEV) is responsible for overall management of the hazardous waste management program. The Operations Branch (DEM) is responsible for the operational aspects of the hazardous waste management program and the Defense Reutilization and Marketing Office (DRMO)-Scott is responsible for contracting the final disposal of hazardous wastes.

7. LOGISTIC APPRAISAL. This plan is logistically feasible.

8. PERSONNEL APPRAISAL. Adequate trained personnel are available.

9. CONSOLIDATE LISTING AND IMPACT ASSESSMENT OF SHORTFALLS AND LIMITING FACTORS. Removal of hazardous waste from Scott AFB is limited by the following:

a. Type of hazardous waste to be removed.

b. Timely and adequate test results of potential hazardous waste.

c. Coordination with general contractor to pick-up and remove hazardous waste in a timely manner.

Headquarters 375 Aeromedical Airlift Wing (MAC)
Scott Air Force Base, Illinios 62225-5000
January 1990

375 AAW OPLAN 198-85 - Hazardous Waste Management

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Headquarters 375 Aeromedical Airlift Wing (MAC)
Scott Air Force Base, Illinios 62225-5000
January 1990

375 AAW OPLAN 198-85 (OPR: 375 ABG/DE)
BASIC PLAN

REFERENCES: OPLAN 355-85, Base Disaster Preparedness Operations Plan
OPLAN 932-85, Base Recovery Plan
OPLAN 192-85, Spill Prevention Control and Countermeasures (SPCC) Plan

1. Resource Conservation and Recovery Act (RCRA) of 1976 - This is the legislation which is the basic rules generating document for the Management of Hazardous Waste.

2. 40 Code of Federal Regulations (CFR) 260, 261, 262, 263, 264, and 265 - These are rules issued by the Environmental Protection Agency (EPA) to define the standards for Hazardous Waste Management.

3. 49 CFR 171, 172, 173, 178 and 179 - These are rules issued by the Department of Transportation (DOT) which defines the standards for packaging and transporting of hazardous materials and waste.

4. Air Force Implementing Instructions 1 thru 4 issued by Headquarters Air Force Engineering and Services Center.

5. Defense Logistics Agency (DLA) guidance issued as a series of messages.

6. Illinois Environmental Protection Act, Public Act 76-2429, 1 July 1970.

NOTE: The above references,1-6, were used for the preparation of this plan. These references may be obtained for use, by any hazardous waste manager, or from 375 ABG/JA.

TASKED ORGANIZATIONS. Annex A.

1. SITUATION.

a. General. It is the policy of Scott AFB to store, transport, and dispose of hazardous wastes in accordance with environmentally acceptable standards, rules, and regulations. Among the requirements of this policy are the following: (1) Minimize hazardous waste generation at the source by improving operations and maintenance procedures; (2) segregate storage of hazardous waste (separate 55 gallon drums) to minimize disposal problems; (3) prevent accidental spillage of hazardous wastes into floor drains or onto the ground; (4) follow the guidelines established by this plan in the storing, transporting, and disposing of hazardous wastes.

b. Enemy Forces. See referenced OPLANS.

c. Friendly Forces. See referenced OPLANS.

d. Definitions:

(1). Hazardous Waste. A hazardous waste is a hazardous material that no longer has a legitimate use on the installation or has become a waste product. The Resource Conservation and Recovery Act of 1976 provides the basic definition of a hazardous waste. This is further defined by 40 CFR Part 261 to include wastes specifically listed by the EPA and wastes that exhibited certain characteristics of ignitability, corrosivity, reactivity, or EP toxicity.

(2). Generator or Generating Activity. Any activity such as 375 AAW/MA, 375 ABG/DE, 375 AAW/LGS which utilizes hazardous materials and accumulates excesses due to overage, other product contamination, or by not being consumed in a finished product.

(3). Satellite Accumulation Point. That area in or near the work place where hazardous wastes are accumulated prior to transfer to the interim storage location.

(4). Accumulation Point. An area that has been inspected and is approved in writting by the Base Environmental Coordinator. This area must be managed by a trained Accumulation Point Manager. Hazardous waste may be stored in this area for up to 90 days bdfore it is turned in to the Hazardous Waste Storage Manager for disposal.

(5). Hazardous Waste Manager. A single point of contact for each generating activity who is responsible for records keeping, organizational management, unit training, and liaison with other elements or organizations.

(6). Records Keeping. The process of implementing maintaining written data to track the storage and disposition of hazardous wastes.

(7). Disposal Agency. The Defense Reutillzation and Marketing Office (DRMO) Scott is the agency responsible for the final disposal of hazardous wastes.

(8). Disposal and Turn In Document (DTID) DD Form 1348-1. This is the document required to transfer accountability and/or physical custody of hazardous wastes to the disposal agency.

(9). Labeling. The process of container identification. The hazardous waste generating activity is responsible for properly labeling and identifying containers.

(10). Manifest. The document required to transport hazardous waste to and from the installation. (excludes on-base transportation)

(11). Recoverable Waste. Any waste which can be reclaimed under a plan or program such as the Scott Air Force Base Waste Petroleum Product Recovery Plan. Hazardous Waste managers must ensure that recoverable wastes are segregated and not contaminated with hazardous wastes.

(12). Exclusions. The following wastes are excluded management under this plan:

(a). Garbage

(b). Radioactive wastes

(c). Asbestos

(d). Recoverable petroleum products

(e). Munitions and explosives

(f). Domestic sewage

(g). Mining wastes

(h). Fly ash

(i). Drilling wastes

(j). Irrigation wastewater

2. MISSION. To insure all generators and/or generating activities at Scott AFB store, transport, and dispose of hazardous wastes in accordance with environmentally acceptable standards, rules, and regulations.

3. EXECUTION:

a. Hazardous Waste Characteristics

(1). Hazardous wastes (HW) are identified in two different ways, by listing and by characteristics. Several wastes are listed as being hazardous in 40 CFR 261. Included in this list are solvents, degreasers, and electroplating wastes. A waste can also qualify as hazardous if it meets any of these characteristics:

a. IGNITABLE. A waste is considered ignitable if it possesses at least one of the following characteristics:

(1) A liquid having a flash point less that 140 degrees Fahrenheit

(2) A non-liquid capable of causing fire through friction absorption of moisture, or spontaneous chemical changes, and when ignited, burns vigorously and persistently.

(3) An ignitable compressed gas.

(4) An oxidizer listed in 49 CFR 173.151

b. CORROSIVE. A waste is considered corrosive if it possesses at least one of the following characteristics:

(1). Liquid having a pH of 2.0 or less (acid), or 12.5 or greater (alkaline), as determined by a pH meter.

(2) Liquid and corrodes steel (SAE 1020) at a rate greater than 0.25 inches per year.

c. REACTIVE: A waste is considered reactive if it possesses at least one of the following characteristics:

(1) Normally unstable and readily undergoes violent change

(2) Reacts violently with water

(3) Capable of explosive reaction if it is subjected to a strong initiating source or heated under confinement.

(4) A cyanide or sulfide bearing waste which, when exposed to pH conditions between 2 and 12.5, can generate toxic vapors.

d. EXTRACTION PROCESS (EP) TOXIC. The fourth characteristic of HW is EPtoxicity, which is a measure of how readily a material will leach certtain metals and pesticides. The contaminants of concern are: arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, endrin, lindane, methoxychlor, toxaphene, "2,4D" and "2,4,5-TP" (silvex).

(2). Once the generator/generating activity has an identified hazardous waste, the packaging, storing, and disposing of that waste must be accomplished according to the guidance contained in this plan.

4. LOGISTICS AND ADMINISTRATION:

a. Logistics. All hazardous waste generators and generating activities will store hazardous waste in 55-gal drums until they are ready to be transported to the hazardous waste storage facility. Once the 55-gal drums have been received at the storage facility, personnel from the Base Civil Engineering Water and Waste Section, will transfer the 55-gal drum, if necessary, into a 85-gal recovery drum. These 85-gal drums will be stored until arrangements have been made, through the Defense Reutilization and Marketing Office (DRMO), for final removal from Scott AFB.

b. Records Keeping Procedures.

(1). Chronological Log. This is a manual log of all hazardous waste transactions using the DD Form 1348-1 (Turn-In-and-Disposal Document) as the initiating document. The log will be kept at each hazardous waste storage facility (Bldg 540 and Aqua Yard) and will consist of the following information:

(a) Date waste initially received.

(b) Date waste dispatched from storage facility. (c) Copy of DD Form 1348-1.

The information will be kept in a weatherproof container or inside the building for a period of three years or until the waste is removed from the storage site, whichever comes last.

(2). File of Completed DD Forms 1348-1. A file of completed DD Form 1348-1's, indicating final disposal of the hazardous waste, will be kept by the Defense Reutilization and Marketing Office (DRMO). If other manifest forms are used by disposal contractors, copies of these forms shall be maintained by DRMO for a three year period.

(3). Site Document File. This file will contain an accumulation of documents that are required to determine the status of the hazardous waste facility. The file of information, maintained by the Engineering and Environmental Planning Branch, Base Civil Engineering, will include:

(a) Operating permit.

(b) Procedures for closure and post-closure monitoring.

(c) Sampling results on hazardous wastes stored in the facilities.

(d) Annual reports and copies of inspection results.

5. COMMAND AND CONTROL. Overall management of the hazardous waste program for Scott AFB is the responsibility of the 375 ABG Civil Engineering Environmental Engineering Section (DEEV). It is their responsibility to monitor the program, provide updated EPA regulations, distribute and review this plan, and provide technical assistance to other organizations when requested. Operation of the Hazardous Waste Storage Facility will be the responsibility of the 375 ABG Civil Engineering Chief, Operations Division. It is their responsibility to operate the facilities in accordance with EPA regulations and guidance provided by DEEV and this plan.

OFFICIAL:

WINGFIELD
Colonel
COMMANDER

GIRARD
Base Civil Engineer

Headquarters
375 Aeromedical Airlift Wing (MAC)
Scott Air Force Base,
Illinios 62225-5000 January 1990

ANNEX A 375 AAW OPLAN 198-85(OPR: 375 ABG/DE)
TASKED ORGANIZATIONS

375 AAW/CAMS
375 AAW/LGS
375 AAW/LGT
375 ABG/DEEV
375 ABG/DEMRG
375 ABG/DFMPA
375 ABG/DEMET
375 ABG/DEMHZ
375 ABG/DEMWW
375 ABG/DA
375 ABC/SS
USAF Scott Med Ctr/SGPB
Defense Reutilization and Marketing Office (DRMO)
Gates Learjet Aircraft Services Corporation
Beech Aerospace Services Incorporated
102 Army Air Reserve

WINGFIELD
COLONEL
COMMANDER

Headquarters 375 Aeromedical Airlift Wing (MAC)
Scott Air Force Base, Illinios 62225-5000
January 1990

ANNEX B TO 375 AAW OPLAN 198-85 (OPR: 375 ABG/DE)
SATELLITE ACCUMULATION POINT MANAGEMENT (SAP)

1. General. The satellite accumulation point is an area in or near the work place where less than 55 gallons of hazardous waste or one quart of acutely hazardous waste is stored prior to transfer to the accumulation point or hazardous waste storage facility on the base. Storage in the satellite accumulation point is temporary. Waste containers must be delivered to the accumulation point or hazardous waste storage facility no later than three days after the container is filled. This activity does not require a permit under RCRA, but it is subject to certain procedural requirements. Appendix 2 to this annex shows the location of all hazardous waste satellite accumulation points.

2. Organizational Hazardous Waste Manager. Generating activities must identify in writing, a hazardous waste manager and alternate responsible for each satellite accumulation point. A copy of this letter must be sent to the Base Environmental Coordinator, 375 ABG/DEEV. The hazardous waste manager/alternate has the following duties and responsibilities:

a. Assurance that wastes are placed in proper containers and date accumulation begins is posted on the container.

b. Assurance that the container is marked "HAZARDOUS WASTE". A container holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste.

c. Assurance that wastes are kept segregated and that hazardous wastes are not comingled with non hazardous wastes i.e. trichloroethylene is not mixed in the same drum as PD 680. The manager must use a container made of or lined with materials which will not react with, the hazardous waste to be stored, so that hte ability of the container to contain the waste is not impaired.

d. Inspection of containers on a weekly basis and remedial action initiated for leaks, spills, or improper storage.

e. Documentation of weekly inspections on the Hazardous Waste Management Inspection Log shown in Annex E.

f. Notification of proper installation authority in event of spills. Refer to Scott AFB OPLAN 191-85 to implement spills control plan.

g. Assurance that the hazardous wastes generated at that facility are transferred to a Base Designated Accumulation Point or the Base Hazardous Waste Storage Facility within three calendar days of the date maximum quantity is reached. The maximum quantity of acutely hazardous wastes is one quart and of other hazardous wastes is 55 gallons.

3. Transferring of Hazardous Waste. Generators/generating activities shall comply with the following procedures prior to transferring hazardous wastes to an accumulation point:

a. All requirements of Paragraph 2. Organizational Hazardous Waste Manager will be met prior to the transferring of hazardous waste.

b. Complete AF Form 2005, Turn-in Request to provide information to inable Supply Customer Service to complete the Disposal and Turn In Document (DTID), DD Form 1348-1, in accordance with Annex F. The DD Form 1348-1, document also serves as the manifest for the hazardous waste and must accompany the waste material to the storage site and on all future transactions.

c. Contact the Base Environmental Coordinator (extension 62092) prior to transferring the hazardous waste.

e. Make all necessary arrangements to transport the waste to the accumulation point.

d. If the transfer of hazardous waste is to be made to the hazardous waste storage facility follow the transfer requirement as listed for the accumulation point.

4. Records Keeping. Inspection records must be kept by the generatlng activity for a period of at least three years. These records will be kept by the hazardous waste manager. The records must include as a minimum: (See Annex E)

a. Date of inspection.

b. Number of containers and listing of each waste stored.

c. Date waste accumulation began for each container.

d. Contents of each container identified in accordance with the hazardous waste nomenclature and EPA hazardous waste number.

e. Condition of container i.e. good condition, rusting, leaking.

f. Any special handling instructions.

Headquarters 375 Aeromedical Airlift Wing (MAC)
Scott Air Force Base, Illinios 62225-5000
January 1990

ANNEX C TO 375 AAW OPLAN 198-85 (OPR: 375 ABG/DE)
ACCUMULATION POINT MANAGEMENT

1. General. The accumulation point is an area where hazardous waste is temporary stored in tanks or containers for 90 days or less on an installation. This activity does not require a permit under RCRA, but it is strictly regulated by both the state and federal levels. Appendix 2 to this annex shows the location of all hazardous waste accumulation points.

2. Accumulation Point Manager. Generating activities must identify in writing, a hazardous waste manager and alternate responsible for each accumulation point. A copy of this letter mnst be sent to the Base Environmental Coordinator, 375 ABG/DEEV. The hazardous waste manager/alternate has the following duties and responsibilities:

a. Assurance that wastes are placed in proper containers and date accumulation begins is posted on the container.

b. Assurance that the container is marked "HAZARDOUS WASTE". A container holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste.

c. Assurance that wastes are kept segregated and that hazardous wastes are not comingled with non hazardous wastes i.e. trichloroethylene is not mixed in the same drum as PD 680. The manager must use a container made of or lined with materials which will not react with, the hazardous waste to be stored, so that the ability of the container to contain the waste is not impaired.

d. Inspection of containers on a weekly basis and remedial action initiated for leaks, spills, or improper storage.

e. Documentation of weekly inspections on the Hazardous Waste Management Inspection Log shown in Annex E.

f. Notification of proper installation authority in event of spills. Refer to Scott AFB OPLAN 191-85 to implement spills control plan.

g. Assurance that the hazardous wastes generated at that facility are transferred to a Base Designated Accumulation Point or the Base Hazardous Waste Storage Facility within three calendar days of the date maximum quantity is reached. The maximum quantity of acutely hazardous wastes is one quart and of other hazardous wastes is 55 gallons.

3. Transferring of Hazardous Waste. Generators/generating activities shall comply with the following procedures prior to transferring hazardous wastes to the hazardous waste interim storage facilities:

a. All requirements of Paragraph 2. Organizational Hazardous Waste Manager will be met prior to the transferring of hazardous waste.

b. Complete AF Form 2005 providing information to enable Supply to complete the Disposal and Turn In Document (DTID), DD Form 1348-1, in accordance with Annex F. The DD Form 1348-1 also serves as the manifest for the hazardous waste and must accompany the waste material to the storage site and on all future transactions.

c. Forward the Disposal and Turn-In Document (DTID) DD Form 1348-1 to the servicing Defense Reutilization and Marketing Office for continued action.

d. Contact the Base Environmental Coordinator (extension 62092) prior to transferring the hazardous waste.

e. Make all necessary arrangements to transport the waste to the accumulation point or the hazardous waste storage site.

4. Records Keeping. Inspection records must be kept by the generating activity for a period of at least three years. These records will be kept by the hazardous waste manager. The records must include as a minimum: (See Annex E)

a. Date of inspection.

b. Number of containers and listing of each waste stored.

c. Date waste accumulation began for each container.

d. Contents of each container identified in accordance with the hazardous waste nomenclature and EPA hazardous waste number.

e. Condition of container i.e. good condition, rusting, leaking.

f. Any special handling instructions.

Appendices:

1. Hazardous Materials Map 2. Hazardous Waste Generators and Accumulation Points

WINGFIELD
COLONEL
COMMANDER

ROGER J. GIRARD
Colonel, USAF
Base Civil Engineer

Headquarters 375 Aeromedical Airlift Wing (MAC)
Scott Air Force Base, Illinios 62225-5000
January 1990

ANNEX D TO 375 AAW OPLAN 198-85 (OPR: 375 ABG/DE)
HAZARDOUS WASTE INTERIM STORAGE FACILITIES MANAGEMENT

1. General. Annex B identified the procedures and requirements to follow to accummulate hazardous wastes at the work place. The Environmental Protection Agency has published regulations which establish requirements to follow for facilities which store hazardous wastes in excess of 90 days or which receive waste from off site facilities. Scott AFB operates two facilities as hazardous waste storage facilities. These facilities, operating under EPA ID No. IL 7570024177, are Building 540 and the Aqua Yard. These are interim storage facilities and are being utilized until the DRMO constructs permanent hazardous waste storage facilities. Appendix 1 to Annex B is a location map showing the location of these facilities on the base.

2. Physical Facility Requirements. Both facilities meet the interim storage requirements of 40 CFR, Part 265, Subpart B, General Facility Standards. These facilities are adequately secured, signed, and marked.

3. Waste Storage Procedures. Generators/generating activities shall comply with the following procedures prior to transferring hazardous wastes to the interim storage facilities:

a. All requirements of Annex B, Accumulation Point Management will be met prior to the transferring of hazardous waste.

b. Complete the Disposal and Turn In Document (DTID), DD Form 1348-1, in accordance with Annex F. This document also serves as the manifest for the hazardous waste and must accompany the waste material to the storage site and on all future transactions.

c. Forward the Disposal and Turn-In Document (DTID) DD Form 1348-1 to the servicing Defense Reutilization and Marketing Office (DRMO) for continued action.

d. Contact the Base Environmental Coordinator (extension 62092) prior to transferring the hazardous waste.

e. Make all necessary arrangements to transport the waste to the hazardous waste storage site.

4. Inspection Procedures. Both hazardous waste interim storage sites will be inspected on an annual basis. This inspection will be accomplished on the form shown on Annex E by the Base Environmental Coordinator and records will be kept of the inspection (records must be kept for a minimum of three years). The inspection will provide the following information:

a. Date of inspection.

b. Number of containers and listing of each waste stored.

c. Contents of each container identified in accordance with the hazardous waste nomenclature and EPA hazardous waste number.

d. Condition of each container.

5. Training Procedures. Training for those personnel required to enter or work in the two hazardous waste disposal sites will be conducted on an annual basis. The training will consist of the following:

a. Facility operations.

b. Emergency response.

c. Use of emergency equipment.

Records of the training will be kept by the employees' supervisor. Individual employee records (AF Form 971 for civilians, and AF Form 1098 for military) shall be annotated to reflect completion of training.

6. Fire Protection Procedures.

a. General. Extreme caution and care must be exercised at both interim hazardous waste storage sites to insure adequate fire protection. Adequate aisle space will be maintained to insure access for emergency personnel and equipment. Containers for ignitable or reactive waste must not be comingled, signs must be posted prohibiting smoking or open flame, and adequate fire extinguishers must be available to assist in fire fighting.

b. Fire protection personnel shall inspect the hazardous waste sites on an annual basis to insure appropriate fire protection actions are being taken and to recommend improvements in storage or operational procedures that will improve fire protection.

c. Any individual that notices a fire in either of the hazardous waste interim storage sites shall notify the base Fire Department extension 117 immediately. The fire department shall follow Standard Operating Procedures for fighting and containing a fire in a hazardous waste storage

site. To assist the fire department in fighting fires at these locations, an up to date list of the hazardous waste stored in the storage sites will be furnished to the fire department on a quarterly basis.

7. Emergency Assistance Procedures. Emergency assistance procedures have been well documented in two existing contingency plans. These plans are:

a. Scott AFB OPLAN 355-85, Base Disaster Preparedness Operations Plan, is the overall guideline that directs the activities to manage a disaster on the base. This plan is implemented by the commander whenever a potential disaster may threaten the primary mission, injure lives, property, or facilities, or cause a natural or manmade threat to Scott AFB. On the event of a threat from a hazardous waste mishap, the plan will be implemented.

b. Scott AFB OPLAN 191-85, Spill Prevention Control and Countermeasures Plan (SPCC), addresses the necessary actions, both normal operating and emergency, to take in the event of a spill or mishap with a hazardous waste.

NOTE: Both of these plans address the full range of emergency response assistance available from non-Air Force agencies, available equipment, and will be implemented in the event emergency actions are necessary.

8. Contingency Plan Procedures. Scott AFB OPLAN:s 355-85 and 191-85 both adequately address contingency actions that have to be taken 1n the event of a spill or accident. The plans also address the on-scene coordinators role in directing implementation of the plan. Either one or both of these plans will be implemented in the event of a spill or accident involving hazardous waste.

9. Closure Plan.

a. General. This plan identifies all steps that will be necessary to partially close the facility at any point during the intended operating life and to completely close the facility at the end of its intended operating life. Scott AFB will maintain an on-site copv. of the approved closure plan and all revisions to the plan until certification of closure completeness has been submitted and accepted by the State of Illinois. The plan is designed to minimize or eliminate releases of hazardous wastes and hazardous waste constituents to the air, groundwater, surface water, and surrounding land.

b. Partial Closure and Final Closure Activities. It may be necessary or desirable to close all or part of the hazardous waste management facilities on Scott AFB. Areas that may close are as follows:

1. Bldg 540 PCB storage area.

2. 8′ x 32′ drum storage area.

Partial closure of either facil|ty is not anticipated.

c. Closure Cost Estimate. For the purpose of this plan, it is assumed that 20 - 25 KVA (20 gals) PCB transformers are stored in Bldg 540 and the number of drums in storage at the Aqua Yard is the design maximum of 36 - 55 gallon drums. Closure costs are subsequently estimated at $40,000.

d. Schedule for Closure. Closure of this installation will require an Act of Congress and cannot be predicted by anyone on Scott AFB with any degree of accuracy. We will estimate closure to be in 2090 A.D. for the purpose of this plan. The schedule for closure of container storage facilities will be applicable regardless of what year the Base closes. Scott AFB will notify the Secretary of the State of Illinios EPA (hence the Secretary) at least 180 days prior to the date closure activities are anticipated to begin. This date shall be within 30 days after Scott AFB accepts the final volume of waste. Closure activities will be completed within 180 days from receipt of the final volume of waste. It is anticipated that 90 days will be required for closure of both the Aqua Yard drum storage area and Bldg 540 PCB storage area. This time estimate includes contract procurement for closure activities.

e. Inventory Disposal, Removal, or Decontamination of Equipment. It is assumed that the maximum waste inventory (36 drums and 20 PCB transformers) will be in storage. A private contractor will remove the containers for off-site storage or disposal. All work will be supervised and performed by either outside vendor or base personnel. Personnel will be equipped with acid/solvent resistant coveralls, hard hats, neoprene coated gloves, and boots resistant to solvents and acids. Air sampling of the facility will be performed by Bio-Environmental Engineering to determine if full face respirators are required. The floors and walls of the container storage areas will be cleaned with water and the wash water collected into 55-gallon drums. Grab samples from each drum collected will be analyzed. If the water meets current standards and permission to discharge is granted by Illinois State authorities, the water will be discharged into the sanitary sewer for treatment and disposal at our Base Waste Water Treatment Plant. If the water is contaminated, the waste water will be shipped offsite for treatment and disposal. A second washing of the building will follow. This rinse/sample analysis process will be repeated until all traces of contaminants removed from the wash water collected from the wash process are below detection limits.

f. Certification of Closure. When closure is completed, Scott AFB will provide to the Secretary certification by both the Installation Commander and an independent registered professional engineer that the facility bas been closed in accordance with the specifications in the approved closure plan.

APPENDIX:
1. Soil Removal Procedures

WINGFIELD
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COMMANDER

ROGER J. GIRARD, Col, USAF
Base Civil Engineer

Headquarters 375 Aeromedical Airlift Wing (MAC)
Scott Air Force Base, Illinios 62225-5000
January 1990

APPENDIX 1 TO ANNEX D TO 375 AAW OPLAN 198-85(OPR: 375 ABG/DE)
SOIL REMOVAL PROCEDURE

Soil will be removed by manual labor using shovels and picks if less than 5 cubic yards of soil is to be moved. The soil will be stored in pnlyethylene lined roller beds until further testing can be conducted to determine the extent of the contamination. The liner and covering will prevent rainwater from percolating through the soil during storage.

For soil removal of greater than 5 cubic yards, a backhoe, front-end loader will be used to move the soil into a polyethylene lined dump truck. The truck will be equipped with a covering tarp. Manifests and placards will be as per EPA and DOT state and federal regulations. The soil will then be transported to an approved hazardous waste landfill or to an approved treatment facility.

If preliminary tests show that the soil is combustible, all equipment used will be non-sparking. Shovels and plcks will be made of brass should combustion be suspected.

All equipment used for removal of contaminated soil will be cleaned with sprayed water and the water collected and checked for the suspected contamlnation. If the water is not found to be contaminated, the equipment will be declared clean and usable for other work. If the water 1s contaminated, subsequent washing and analysis will be conducted in order to ensure cleanliness of the equipment prior to any future use.

Headquarters 375 Aeromedical Airlift Wing (MAC)
Scott Air Force Base, Illinios 62225-5000 January 1990

ANNEX E TO 375 AAW OPLAN 198-85 (OPR: 375 ABG/DE)
HAZARDOUS WASTE PACKAGING GUIDANCE

1. Purpose. This guidance is to provide assistance to generating activities in complying with hazardous waste packaging requirements prescribed under 40 CFR, Part 262, Subpart C of EPA's implementing regulations. Proper packaging is required for accumulation, storage, and transportation of any hazardous waste. This implementing guidance covers only common packaging requirements.

2. Packaging Reference Material.

a. 40 CFR, Part 262, Subpart C. This subpart gives general pre-transportation requirements covering packaging, labeling, marking, placarding, and temporary storage containers.

b. 49 CFR, Parts 171, 172, 173, 178, 179. EPA has indicated that hazardous waste will be packaged in accordance with Department of Transportation (DOT) regulations. On 22 May 1980, the DOT promulgated rules to insure proper transportation of hazardous waste.

(1) 49 CFR, Part 172.101 is a DOT Hazardous Materials Table which references applicable packaging requirements for specific hazardous materials.

(2) 49 CFR, Part 173 provides the actual packaging requirements identifying the types of containers acceptable.

(3) 49 CFR, Part 178 describes the required specifications for each type of container.

3. Marking and Labeling Guidance. No person may offer or accept a hazardous waste for transport in the United States unless that material is properly classed, described, packaged, marked, labeled, and in good condition for shipment in accordance with DOT Transportation of Hazardous Materials regulations. It is the duty of the generator of a hazardous waste to insure that it is placed in a proper container, marked, and labeled. This requirement applies as soon as one starts accumulating hazardous waste.

a. Marking and Labeling. Marklng and labeling is required by DOT regulations in addition to the hazardous waste marking and labeling required by EPA. Labeling should be accomplished in accordance with the appropriate 40 CFR regulations. Marking shall be as follows:

(1) The words "HAZARDOUS WASTE" marked on the container by container or by by using a Hazardous Waste Label.

(2) Waste contents, for example : "METHYL ETHYL KENTONE 80-88% CONTAMINATED WITH 8-15% TOLUENE".

(3) Date upon which the period of accumulation began. For example, the date you put the first drop of waste oil in the container.

(4) Unit office symbol and phone number of Unit Hazardous Waste Manager.

(5) Date contents were sampled and sample No (if applicable).

Appendix 2 to this annex shows typical examples of labels and hazardous waste markings that are available and used.

b. Containers.

(1) The waste must be place into containers meeting the requirements of Subpart I and J of 40 CFR 265. This requires use of containers compatible with the waste, in good condition, handled properly, inspected for leaks weekly, and proper seperation and segeregation of incompatible wastes.

(2) Each container used for shipping wastes must meet DOT specifications. Specifications are listed in 49 CFR Part 178. If an existing container was previously authorized for use, it may continue to be used under most conditions. Also, a container that is damaged or leaking hazardous wastes may be placed in a metal, removable-head salvage drum that has equal or greater structural integrity than the original container. Containers that hazardous materials were shipped in should be retained because they will generally meet the packaging requirements for that material when it becomes a hazardous waste. Appendix 1 to this annex shows a typical steel drum used for shipplng hazardous wastes. The regulations governing the reuse of containers are given in 49 CFR, Part 173.28. Special attention should be given to paragraph (p) of this reference as it authorizes use of single-trip contalners (STC) and nonreusable containers (NRC) for hazardous waste under specified conditions.

(3) Empty containers or container liners are not regulated as hazardous wastes if all of the waste has been removed by the normal emptying procedures and no more than one inch of residue remains. Containers which previously held acutely hazardous wastes as listed in 40 CFR 261.33(e) must by triple rinsed with an appropriate solvent before they are considered empty. If the container meets these definitions of empty, it can be disposed of in the normal manner.

4. Generating activities should contact the Base Environmental Coordinator, 62029, for information and guidance on proper packaging of hazardous wastes.

APPENDICES:

1. Typical Hazardous Waste Drum 2. Typical Labels and Hazardous Waste Markings

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COMMANDER

ROGER J. GIRARD
Civil Engineer

SOME OVERPACK CONTAINERS AND ACCESSORIES

DOT Container Specification	National Stock Number	Item Description
17C	8110-00128-6819	1 gallon steel drum
17C	8110-00574-9641	5 gallon steel drum
17C	8110-00-519-5618*	10 gallon steel drum
17C	8110-00-366-6809*	30 gallon steel drum
17C	8110-00-418-1634*	55 gallon steel drum
17C	8110-00-030-7780*	55 gallon steel drum
17E	8110-00-282-2520**	5 gallon steel drum
17E	8110-00-292-9783**	55 gallon steel drum
17M	8110-00-030-7779	30 gallon steel drum
17M	8110-00-823-8121	55 gallon steel drum
	8110-01-101-4055	85 gallon steel drum
	5640-00-801-4176	Bag of Vermiculite
	1930-00-269-1272	Absorbent Clay

* Containers approved under US requirements for storage and transportation of non-liquid PCBs.

** Containers approved under US requirements for storage and transportation of liquid PCBs.

Headquarters 375 Aeromedical Airlift Wing
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62225-5000 January 1986

ANNEX F TO 375 AAW OPLAN 198-85 (OPR: 375 ABG/DE)
PROCEDURES FOR DISPOSAL OF HAZARDOUS WASTE: CONTENTS KNOWN

WASTE GENERATOR: The waste generator wants to dispose of hazardous waste and knows the contents of the waste. He completes one AF Form 2005 for the waste (4 copies each). He handcarries these forms to Supply Costomer Service, Building 4001.

BASE SUPPLY: Base Supply Customer Service Section uses the information on the AF Form 2005 to generate at least six copies of the disposal documentation, DD Form 1348-1. The waste generator lists the waste contents on each copy and signs the certification statement. Base Supply keeps one copy.

BASE ENVIRONMENTAL COORDINATOR (BEC): The waste generator hand carries 5 copies of the DD Form 1348-1 and 1 copy of the 2005 to the Base Environmetal Coordinator (BEC), Building 528, for funds certification. The BEC keeps one copy of the DD Form 1348-1, and returns four copies to the generator.

DEFENSE REUTILIZATION AND MARKETING OFFICE (DRMO): The waste generator contacts the Environmental Protection Specialist at DRMO , extension 63105, to make arrangements for pre-inspection and receipt of accountability. Turn-ins and accountability are by appointment only.

HAZARDOUS WASTE STORAGE FACILITY MANAGER: The waste genarator contacts the Hazardous Waste Storage Facility Manager at extension 64226 to set up an appointment to turn in his waste (at least 24 hours before the 90th day of accumulation). The waste generator will then transport his waste to the storage facility, located on Winters Street betwwen "D" Street and Hanger Road, at the scheduled time. The Hazardous Waste Storage Facility Manager will take one copy of the DD Form 1348-1. The remaining copy of the DD Form 1348-1 is to be filed by the waste generator.

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ANNEX G TO 375 AAW OPLAN 198-85 (OPR: 375 ABG/DE)
PROCEDURES FOR DISPOSAL OF HAZARDOUS WASTE: CONTENTS UNKNOWN

WASTE GENERATOR: The waste generator wants to dispose of hazardous waste, but does not know waste contents. Generator contacts Bioenvironmetal Enginnering (BEE) at extension 67307, to sample his wastes will in advance of the 90th day of accumulation.

BIOENVIRONMETAL ENGINEERING: Bioenvironmetal engineering samples wastes on site and mails samples to testing laboratory.

DEFENSE REUTILIATION AND MARKETING OFFICE: The hazardous waste generator contacts the Environmental Protection Specialist at DRMO, extension 63105, to make arrangements for pre-inspection and receipt of accountablility. Turn-ins and accountability are by appointment only.

HAZARDOUS WASTE STORAGE FACILITY MANAGER: After the wastes are sampledand pre-inspection complete, the waste generator contacts the Hazardous Waste Storage Facility Manager at extension 64226, to set up an appointment to turn in his waste. The waste generator will transport his waste to the storage facility located on Winters Streer between "D" Street and Hanager Road, at the scheduled time. The waste must be in the storage facility by the 90th day of accumulation. The Hazardous Waste Storage Facility Manager notifies the Base Environmental Coordinator (BEC) that there is a container of hazardous waste of unknown content in the storage facilty.

BIOENVIRONMENTAL ENGINEERING: When the results from the sampling arrive, the BEE will forward them to the Base Environmetal Coordinator(BEC). The BEC notifies the Hazardous Waste Storage Facility Manager and forwards copies of the results to the waste generator.

WASTE GENERATOR: The waste generator uses these test results to complete an AF Form 2005 for the wastes (4 copies each) and hand carries them to Supply Customer Service, Building 4001.

BASE SUPPLY: Base Supply uses the information on the AF Form 2005 to generate at least six copies of the disposal documentation, DD Form 1348-1. The Waste generator lists the waste contents on each copy of the DD Form 1348-1 and signs the certification statements. Base Supply keeps a copy.

BASE ENVIRONMENTAL COORDINATOR: The waste generator hand carries 5 copies of the DD Form 1348-1 and 1 copy of the AF Form 2005to the Base Environmental Coordinator (BEC) for funds certification. The BEC keeps one copy of the DD Form 1348-1. The waste generator keeps the four copies.

Headquarters 375 Aeromedical Airlift Wing
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62225-5000 January 1986

ANNEX H TO 375 AAW OPLAN 198-85 (OPR: 375 ABG/DE)
PROCEDURES FOR PREPARATION OF AF FORM 2005 TURN-IN REQUEST

Standard Procedures for preparation of the AF Form 2005 Turn-in Request are provided in paragraph X-X of AFM XXXXXXXX. The TIN for hazardous materials and hazardous wastes to Base Supply using the format below.

Blocks 1-3. Document Identifier - Always enter "TIN"

Blocks 4-7. Leave Blank

Blocks 8-22. Stock Number (See note 1).

Blocks 8-11. Federal Stock Class (FSC) of the orginal or parent stock number (See note 1)

Blocks 12-14. Enter "PHW"

Blocks 15-18. EPA Hazardous Waste Number (See notes 2 & 3)

Blocks 19-22. Four Digit Contract Line Number (CLIN) for Hazardous Waste (See notes 2 & 3)

Blocks 23-24. Unit of Issue (See notes 2 & 3).

Blocks 25-29. Quantity

Blocks 30. Enter "R"

Blocks 31-35. Enter Organization/Shop Code (See note 2).

Blocks 36-43. Leave Blank

Blocks 44. Enter "H"

Blocks 45-61. Leave Blank

Blocks 62. Enter "9".

Blocks 63-80. Leave Blank.

Block B. Name/Organization/Office Symbol/Phone Number (See Note 2).

Block E. Unit Price (See notes 2 & 3).

Block J. Enter "Hazardous Waste".

NOTE 1: If the original material does not have a stock number assigned; for example, waste water or sludge, these positions will contain "9999". Also enter parent stock number (if known) which produced waste in "part number " field.

NOTE 2: Provided by the generator.

Note 3: May be obtained from DRMO disposal contract or contact Environmental Coordinator at extension 62092.

NOTE 4: Distribution of TIN: Copy 1 & 2 - Base Supply
Copy 3 - Environmental Coordinator
Copy 4 - Generator

WINGFIELD
COLONEL
COMMANDER

ROGER J GIRARD
Base Civil Engineer

ANNEX Z TO 375 AAW OPLAN 198-85 (OPR: 375 ABG/DE)
DISTRIBUTION

DISTRIBUTION	Copies
USEPA, Region V 230 S. Dearborn Street Chicago, IL 60604	2
IL EPA 2200 Churchill Rd. Springfield, IL 62706	2
Defense Reutilization and Marketing Region DRMW-COH P.O. Box 3990, Columbus, Ohio 43216-5000	1
HQ MAC/DEEE, Scott AFB, IL 62225-5000	3
375 AAW/375 ABG Scott AFB, IL 62225-5000	
375 AAW/DOX	1
375 AAW/CAMS	1
375 AAW/DOC	1
375 AAW/PA	1
375 AAW/LGS	1
375 AAW/LGSF	1
375 AAW/SEG	1
375 ABG/CC	1
375 ABG/DA	1
375 ABG/DE	2
375 ABG/DEM	10
375 ABG/DEMR	1
375 ABG/DEMRC (Service Call Desk)	1
375 ABG/DEE	20
375 ABG/DEEV	5
375 ABG/DEF	2
375 ABG/DW	1
375 ABG/SPO	1
375 ABG/SV	1
375 ABG/JA	1
USAF Med Ctr Scott/SGPM, Scott AFB, IL 62225-5000	2
Defense Reutilization and Marketing Office, Scott AFB,IL	1
Gates Learjet Aircraft Services Corporation, Scott AFB, IL	1
Beech Aerospace Services Incorporated, Scott AFB, IL 102 Army Air Reserve, Scott AFB, IL	1

WINGFIELD
COLONEL
COMMANDER

Roger J. Girard Col, USAF
Base Civil Engineer

SECURITY INSTRUCTIONS/RECORD OF REVIEW AND AMENDMENTS

SECURITY INSTRUCTIONS

1. The long title of this document is Oil and Hazardous Substance Spill Prevention and Response Plan (SPR). The title is unclassified.

2. This document is unclassified.

3. As this plan is unclassified, it does not come within the scope of directives governing the protection of information affecting national security as specified in Air Force Directives in the 205 series.

4. This plan will be distributed to those organizations shown on the distribution list, Annex X. The plan will be controlled in accordance with established USAF procedures for unclassified documents.

5. Tasked organizations are authorized to extract and reproduce those portions of this document essential in the accomplishment of necessary planning and in the preparation of supporting documents and reports.

REVIEW AND AMENDMENT INSTRUCTIONS

1. The review of the SPR Plan, and any resulting amendments or changes to the plan must be logged on the attached record sheet. See Plan Review and Update, Section VI, for additional details.

2. When amendments or changes significantly affect the Annex I, or the Spill Prevention, Control and Countermeasure (SPCC) section; the plan must be recertified by a professional engineer.

RECORD OF CHANGES:

Change Number	Date of Entry	Signature and Organization of Individual Posting Entry

RECORD OF REVIEW:

Reviewed By	Organization	Date Reviewed	Remarks

SCOTT AIR FORCE BASE
OIL AND HAZARDOUS SUBSTANCE SPILL PREVENTION AND RESPONSE PLAN
Scott AFB, Illinois 62225
December 1989

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SCOTT AIR FORCE BASE
OIL AND HAZARDOUS SUBSTANCE SPILL PREVENTION AND RESPONSE PLAN
Scott AFB, Illinois 62225
December 1989

SPILL PREVENTION AND RESPONSE PLAN (SPR)

SECTION ONE

OVERALL MISSION

The plan will have a long title of "Oil and Hazardous Substance Spill Prevention and Response Plan" and a short title of "Spill Prevention and Response Plan." This plan is intended to fulfill the requirements of a Spill Prevention Control and Countermeasure (SPCC) Plan, an Oil and Hazardous Substance Pollution Contingency (OHSPC) Plan, and the hazardous waste spill prevention and response requirements. The SPCC portion of the document primarily pertains to spill prevention and includes a discussion of the major types of spill prevention procedures, methods and equipment incorporated into the base facilities. The Contingency Plan portion of the document specifies procedures to be followed when responding to releases, accidents and spills involving oils or hazardous substances. These include spill detection, reporting, containment, cleanup and disposal procedures. The plan should be implemented in conjunction with the Scott AFB Disaster Preparedness OPLAN 355-XX, or Scott AFB Base Recovery OPLAN 932-XX in the event that the circumstances warrant implementation of the OPLAN. Also included within this document are general procedures for plan reviews and updates. The SPR Plan is supported by several vital annexes which provide the specific information associated with the facilities found on Scott Air Force Base.

> IN THE EVENT OF A SPILL OF OIL OR A HAZARDOUS SUBSTANCE, CONCERNED PARTIES SHOULD REFER DIRECTLY TO THE SECTION ENTITLED "PLAN EXECUTION" FOR GENERAL RESPONSE PROCEDURES AND TO ANNEXES I, II AND III FOR SITE SPECIFIC INFORMATION.

These annexes provide relevant site descriptions including location, maximum spill quantity, probable spill route and secondary containment (Annex I); Site Specific Contingency Plans for major potential spill sites (Annex II); and Safety Data Sheets for the oils and hazardous substances normally stored on Base (Annex III).

SECTION TWO - RESPONSIBILITIES

Environmental Protection Subcommittee for Spills

The development, review and update of the SPR plan is the responsibility of the appointed "Spill Committee." The committee is a subcommittee of the Environmental Protection Committee (EPC) and is composed of the following;

Base Civil Engineer, who serves as the chairperson
Base Bio-Environmental Engineer
Chief of Operations/Maintenance (DEM)
Base Fire Chief
Base Environmental Coordinator

Base Fuels Management Officer.
Spill Response Team Chief
Base Hazardous Waste Manager

Various members of the EPC are used as consultants in the development, review and update of this plan.

Environmental Protection Committee (EPC)

The Base Environmental Protection Committee is responsible for reviewing the SPR plan prior to its Promulgation by the Base Commander and prior to finalization of any modifications occurring during the annual review and update of the plan. The committee will develop pollution abatement policy guidance, monitor implementation of this plan and other pollution abatement directives, and insure that supporting procedures by responsible commanders are published.

Tasked Commanders and Staff Agency Chiefs

It is the responsibility of the tasked commanders and staff agency chiefs to publish such procedures that are necessary for implementing this plan, insuring adequate training is conducted, and for insuring that environmental protection/pollution abatement procedures are implemented in their areas of responsibility. They will designate additional project officers and monitors as required to insure an effective program and continually inspect the work areas under their control to insure that effective pollution abatement procedures are followed. They will also insure that Site-Specific Contingency Plans developed for their particular areas are posted in prominent locations at the potential spill sites.

Office of Primary Responsibility (OPR)

The OPR is the individual assigned the responsibility for directing and coordinating all spill response actions for Air Force spills (see Executive Order 12316). The OPR will have the authority to utilize the expertise and resources of the Spill Response Team (SRT) in determining and performing response actions. It is also the responsibility of the OPR to oversee that training programs regarding spill response activities are routinely conducted at the base.

The OPR for spills of oil or hazardous substances at Scott AFB will be the Commander 375 Air Base Group. The first alternate OPR will be the Base Civil Engineer and the second alternate OPR will be the Base Environmental Coordinator. The alternate OPR will assume full responsibility in the absence of the primary OPR.

On-Scene Coordinator (OSC)

The OSC is the individual coordinating actual spill containment, decontamination, and clean-up operations. The primary OSC for spills of oil or hazardous substances at Scott AFB will be the Base Fire Chief unless relieved by the Commander, 375 Air Base Group or the Base Civil Engineer if the commander is not available. If the Fire Chief is relieved or unavailable, the Commander, 375 Air Base Group will assume the responsibilities of the OSC with the BCE as the alternate.

Hazardous Material Response Team (HAZMAT)

The HAZMAT will be in all probably will be the first on scene after notification. Fire department personnel will make up the HAZMAT. They are responsible for containing the hazard and reducing the threat to personnel, the environment, and government assests.

Spill Response Team (SRT)

The SRT members, as designated in this document, are tasked to respond to all spills when requested by the OSC and to perform spill containment, recovery, clean-up, disposal and restoration activities as directed by the OSC. The team will be composed of the 12 personnel.

Individuals Assigned, Attached to. or Working at Scott AFB

Each individual assigned, attached to, or working at Scott AFB is tasked to report any spill of oil or hazardous substance to the Base Fire Department (ext 117) and to take every reasonable precaution to prevent the spillage of oil or hazardous substances. In addition, all contractors performing services on base will be notified prior to the initiation of the contract of their responsibilities to take every reasonable precaution to prevent the spillage of oil or hazardous substances and to report any spills of this nature to the Base Fire Department.

SECTION THREE - SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC)

Mission

Spill prevention control and countermeasure procedures, methods and equipment have been developed and implemented for all the Scott AFB oil and hazardous substance storage and transfer areas. The general mechanisms of spill prevention that are practiced at Scott AFB are briefly discussed below. The specific spill prevention mechanisms associated with each facility having a potential for a "Reportable Spill" are summarized in the Annex I table and tabs.

Secondary Containment

Secondary Containment is the physical containment or capture of a spill thus preventing or limiting its release to the environment. Examples include: dikes, curbs, oil/water separators, drip pans and collection systems. Additional examples may include remote secondary containment such as floating booms and flow diversions utilizing basins, sumps, ponds, etc. (Refer to Annex I, Tab F.)

Visual Inspections

Visual Inspections consist of touring or patrolling the potential spill site to detect spills, evidence of spills, or other conditions that could result in a spill (Refer to Annex I, Tab 1). These include routine inspections performed by the operating and supervisory personnel and detailed inspections performed by members of the Environmental Protection Subcommittee for Spills.

Preventive Maintenance

Preventive Maintenance, as a part of the SPCC program, involves the periodic lubrication, adjustment and replacement of worn parts in all equipment where equipment failure could result in a spill of oils or hazardous substances, or impede response efforts. This includes the implementation of all Standard Operating Procedures (SOP) and Recurring Maintenance Programs (RMP) for the specific areas. (Refer to Annex I, Tab J.)

Housekeeping

Good housekeeping is the practice of maintaining a clean orderly work environment; thereby reducing the possibility of accidental spills caused by mishandling of equipment and materials, and facilitating the detection of spills and leaks. (Refer to Annex I, Tab K.)

Material Compatibility

Material Compatibility refers to the compatibility of oil and hazardous substances with the materials of construction that store or transport them, compatibility of storage or transfer devices with their environment, and compatibility of different substances upon mixing. (Refer to Annex I, Tab L.)

Security

Security involves the deterrence of unauthorized, unknowing, or accidental entry of personnel, animals or vehicles into potential spill areas when such entry could result in the damage or misuse of equipment containing or conveying oils or hazardous substances. (Refer to Annex I, Tab M.)

Monitoring

Monitoring entails the prevention of oil and hazardous substance spills by observing operational conditions that could indicate or result in a spill, and early detection of existing spills by monitoring environmental conditions. (Refer to Annex I, Tab N.) Secondary or backup monitoring should be used where acute health hazards are involved.

SECTION FOUR - OIL AND HAZARDOUS SUBSTANCE CONTINGENCY PLAN Mission

The Oil and Hazardous Substance Contingency Plan for Scott AFB designates the procedures to be followed in the event of releases, accidents and spills involving oils or hazardous substances and the organizations, personnel and equipment responsible for carrying out the response functions.

Response Organizations

The Office of Primary Responsibility (OPR) is the individual assigned the responsibility for directing and coordinating all spill response actions. The OPR will have the authority to utilize the expertise and resources of the Spill Response Team (SRT) in determining and performing response actions. Deployment of the Spill Response Team (SRT) will be activated only if called by the On-Scene Coordinator (OSC) or his designate. The deployment of the SRT is effected to provide a coordinated response to contain, control, recover and restore the environment from all spills. Annex VI summarizes all Base

telephone numbers used for contacting these organizations. Off-duty telephone numbers are maintained by the Civil Engineering Service Call Desk. Annex VII summarizes all off-base response organizations along with the telephone numbers used for contacting these organizations. Following all assigned responsibilities:

a. Commander 375 ABG will:

(1) Act as Office of Primary Responsibility (OPR) for directing and coordinating all spill response actions.

(2) Assume the responsibilities of the On-Scene Coordinator (OSC) at his discretion or in the absence of the Base Fire Chief.

(3) Insure base personnel are trained in spill prevention, control and response.

(4) Insure that a photographer will document with photographs the extent of the spill and the containment, countermeasures, and restoration procedures utilized, as directed by the OSC.

b. Base Civil Engineer (BCE) will:

(1) Act as first alternate OPR in the event the Commander 375 ABG is unavailable or delegates his responsibility to the BCE.

(2) Act as the alternate OSC to the Commander 375 ABG.

(3) Appoint an Environmental Coordinator to furnish technical expertise relative to pollution control techniques.

(4) Chief of Operations and Maintenance will:

(a) Within his capability, provide personnel, transportation and equipment for containment, clean-up, and restoration of landscape due to spills of oils and hazardous substances that exceed the capability of the base agency responsible for the spill.

(b) Notify the Commander 375 ABG and BCE of personnel and equipment requirements that exceed base capability.

(c) Maintain interception devices which prevent potential sources of pollution from emptying directly into off-base tributary streams.

(d) Provide suitable inventory and storage for chemical agents, absorbent materials, and equipment not otherwise specified to be furnished by other units which are employed in combating pollution.

(e) Provide a Liquid Fuels Maintenance technician to supply explosion-hazard, technical assistance to the OSC.

(f) Assign members to the Spill Response Team (SRT). Prior to assignment, assure medical examinations are to be made available and provide the following information to the examining physician:

1 A description of the employees duties as it relates to exposure to hazardous substances or health hazards;

2 The employees exposure levels or anticipated exposure levels;

3 A description of the personal protection equipment used or expected to be used.

(g) Insure SRT members receive medical examinations on a yearly basis and upon termination of hazardous waste operations work, if it has been more than six months since their last examination.

(h) On the authorization of the OSC, notify specifically requested members of the SRT or instruct the CE-Service Desk to notify these members to assemble at a designated area within 15 minutes of notification.

(j) Develop and administer a training program for the spill response team.

(k) Equip the spill response team.

(5) Base Fire Chief will:

(a) Act as the on-scene coordinator unless relieved by the 375 ABG Commander or the BCE.

(b) Direct Fire Department to record all spill reports received from the Emergency Call Line (117) on a designated telephone log.

(c) Notify the Service Call desk of the spill, which in turn, will notify the Base Civil Engineer and Environmental Coordinator of spill occurrence.

(d) Immediately respond to spills as necessary to protect life and property with due regard for the environment.

(e) Activate Disaster Preparedness OPLAN 355-XX as necessary.

(f) Direct emergency dispatch operator to notify the Scott AFB Medical Center if injuries are reported.

(g) Provide technical assistance to the OSC concerning response to, and handling of, combustible or flammable substances.

(h) Maintain protective clothing and equipment for response personnel within the Fire Department.

(i) Assign members to the Hazardous Materials Response Team (HAZMAT). Prior to assignment, assure medical examinations are to be made available and provide the following information to the examining physician:

1 A description of the employees duties as it relates to exposure to hazardous substances or health hazards;

2 The employees exposure levels or anticipated exposure levels;

3 A description of the personal protection equipment used or expected to be used.

(j) Insure HAZMAT members receive medical examinations on a yearly basis and upon termination of hazardous waste operations work, if it has been more than six months since their last examination.

(6) The Environmental Coordinator will:

(a) Report to scene of spill immediately upon notification.

(b) Evaluate the severity of spill and determine the response necessary for containment and recovery.

(c) Advise the Commander 375 ABG (OSC) and BCE as to the necessity for activation of the SRT.

(d) Furnish the OSC technical expertise relative to pollution control techniques.

(e) Assume duties as OSC once the emergency is contained or as directed by the activating OSC.

c. Bio-Environmental Engineer will:

(1) Take periodic samples of all on-base waterways for background information.

(2) Upon notification of a spill, and at the direction of the OSC, sample and test the affected waterways to monitor the extent and degree of pollution caused by the spill, if any.

(3) Provide technical assistance and advice to the OSC and the Scott AFB Medical Center with respect to the health hazards associated with oils and hazardous substances.

(4) Take ground and water samples after clean-up to determine if site is completely clean.

(5) Maintain a file of all applicable Material Safety Data Sheets (MSDS).

d. Disaster Preparedness Officer will:

(1) Insure that the Scott AFB Base Disaster Preparedness OPLAN 355-XX is coordinated with the SPR Plan in the event of a hazardous substance spill requiring the implementation of the OPLAN.

(2) Act as point of contact (POC) for the Local Emergency Planning Committees (LEPC) and will contact them in the event of a reportable spill.

e. Chief of Security Police will:

(1) Instruct his organization to immediately respond to an actual or potential oil or hazardous substance spill, to isolate the spill area and control traffic when and where necessary as directed by the OSC.

(2) Insure that during non-duty hours, including holidays, routine checks of the fuel storage areas, pumps and transfer equipment are conducted to assure that they are not being tampered with, subjected to unauthorized use, or display evidence of leaks or spillage.

(3) Insure that while individuals in the security force are on normal patrols, they are continuously aware of oil and hazardous substance spills and report all areas that appear to be suspect.

f. Staff Judge Advocate will:

(1) Respond to all oil and hazardous substance pollution spills at the request of the OSC to ensure that information, records, and samples adequate for legal purposes are obtained and safeguarded for future use.

(2) Advise the OSC on the legal aspects of spill response when parties other than the Air Force are responsible for the spill.

g. Public Affairs Officer will:

(1) Respond to all oil or hazardous substance spills when requested by the OSC.

(2) Keep abreast of all base actions during a spill so as to be able to provide prompt and accurate news releases on the nature of the discharge and the steps being taken to correct the problem. This policy must be followed to obtain understanding from the public, insure cooperation from all interested parties, and to check the spread of misinformation.

(3) Coordinate all news media releases involving base actions with the Wing Commander.

(4) If the Regional Response Teams' News Office is activated, coordinate all news releases with them. If a Regional Response Team News Office is not activated, the EPA's Public Information Office can be contacted, if deemed appropriate (217-752-3397).

h. Safety Officer will:

(1) Provide technical assistance to the OSC with respect to the safety of personnel.

i. Commander Scott AFB Medical Center will:

(1) Insure that medical personnel and ambulance(s) are dispatched to the site of the spill as directed.

(2) Insure that emergency treatment is rendered and injured personnel are removed to the clinic for treatment.

(3) Insure that current and follow-up information on injured personnel is provided to the OSC as soon as possible.

(4) Insure that the Medical Center staff is familiar with health effects of hazardous substances present on the base.

(5) Institute a medical surveillance program for members of the HAZMAT/SRT. Medical examinations are to be made available to members of the HAZMAT/SRT on a yearly basis. Medical examinations are to be made available before assignment to hazardous waste operations, and also upon termination of hazardous waste operations work, if it has been more than six months since their last examination. The content of these medical examinations are to include medical and work history, with special emphasis on systems related to hazardous substances, and the fitness of the employee to wear personal protection equipment under extreme conditions.

(6) The examining physician is to write a written opinion on each member of the HAZMAT/SRT. The written opinion is to document the results of the medical examination and test, provides the physician's opinion as to any conditions that would place the member at increased risk, recommended limitations upon the member assigned work, and a statement that the member has been informed of the results of the examination and any medical conditions that require further examination or testing.

(7) Maintain a copy of the medical surveillance record for the periods required in 29 CFR 1910.20. This record is to include the members name, SSAN, the physician's written opinions, any member medical complaints related to exposure to hazardous substances, and a copy of the information provided to the examining physician.

j. Transportation Officer will:

(1) Provide OSC with transportation as required for spill response personnel and equipment.

k. Weather Squadron Officer will:

(1) Insure that the OSC is provided with up-to-date weather information as requested.

l. Tenant and Base Organizational Commanders will:

(1) Assign in writing an organizational Hazardous Waste Monitor upon initial assignment. Forward the letter to 375 ABG/DEEV.

(2) Insure organizational personnel who are involved in the handling of hazardous waste are trained according to the standards of this Plan.

(3) Provide an emergency spill kit for the immediate containment and clean-up of small spills. (All spills will be reported)

m. Contracting Officer will;

(1) Provide contractors with a summary of base spill response and reporting procedures.

(2) Include responsibility for training of contractor's personnel in spill response in their contract if applicable.

n. In addition to the base organizations and personnel assigned to the response effort, provisions have been made for including off-base organizations in the response organization when on-base spill response resources and expertise are insufficient, and when off-base water, land, or air are adversely affected. Some of the significant off-base spill response resources that can be incorporated into the SRT, as needed, are discussed in the paragraphs below. A current listing of telephone numbers to contact these organizations is presented in Annex VII.

(1) Regional Response Team: Scott AFB falls under the jurisdiction of the U.S. EPA, Region V. The Regional Response Center will be able to provide additional equipment, personnel, expertise and data bases to aid in the response to major spills.

(2) State of Illinois Response Team: The State of Illinois Department of Natural Resources has developed an Emergency Response Team to respond to spills occurring within the State boundaries. The State on-scene coordinator will be briefed fully by the Base OSC on the spill response.

(3) Mutual Support Agreements

(a) Currently, there is a mutual aid agreement between Scott Air Force Base and the following Fire Departments and Districts:

- Belleville Fire Department
- Shiloh Valley Fire Department
- Lebanon Volunteer Fire Department
- Clinton/St Clair County Fire Department
- Mascoutah Volunteer Fire Department
- Emerald Mound Fire DePartment
- O'Fallon Volunteer Fire DePartment
- East Side Volunteer Fire DePartment
- New Baden Volunteer Fire Department
- Mascoutah District Fire Department

(b) The agreement stipulates that upon an official request by one of the above, the Civil Engineering Fire Department will dispatch a limited amount of fire fighting equipment and personnel to the required area. The agreement also provides the base with similar aid from the above Fire Departments. This is in accordance with AFR 92-1.

(c) Although no formal written agreements exist for mutual police support, the St. Clair Police Department will be contacted to provide assistance in securing any off-base areas in proximity to the spill site, dissemination of information to the local populace, and assist in evacuations if necessary.

(d) These agencies may be activated through procedures established in either Scott OPLAN 355-XX (Disaster Preparedness) or Scott OPLAN 932-XX (Base Recovery).

(4) Private Contractors: Private contractors are included in the response organization primarily to conduct clean-up and restoration work when Base resources are insufficient to conduct these activities. Names of reputable contractors have been obtained from the "Hazardous Waste Service Directory" maintained by the Environmental Coordinator. No advanced contract arrangements have been made by the Base with any outside contractors.

(5) CHEMTREC: CHEMTREC, the Chemical Transportation Emergency Center, is a 24-hour hot line that provides warnings and limited guidance to the OSC when a spill product can be identified by either chemical or trade name. CHEMTREC will also assist the OSC in contracting the manufacturer or shipper for additional information. This service should be used whenever adequate spill response information is not available. The telephone number for CHEMTREC is 1-800-424-9300.

(6) CHRIS Manual - Chemical Hazards Response Information System: The CHRIS manual is an official publication of the U.S. Coast Guard that currently provides technical information and appropriate response procedures for over 1,000 different substances. The manual contains four volumes which are periodically updated. CHRIS data forms for many of the chemicals stored at the base have been included in Annex III of this document.

(7) ETIS - Environmental Technical Information System: ETIS is a computerized information system which contains federal and state environmental regulations, directories of federal and state environmental contacts and computer modeling capabilities. The ETIS overall system manager is the U.S. Army Construction Engineering Research Laboratory located at Champaign, Illinois. The Environmental Planning Directorate at AFESC manages Air Force use of the system. Additional information on the system and how to access it can be obtained by calling AUTOVON 297-6240.

(8) USAF Occupational and Environmental Health Laboratory (OEHL): The OEHL is assigned responsibility for providing consulting services on spill sampling contaminant treatment methods, as well as analytical support during response and recovery operations. For complex spill problems, on-site support may be provided, call AUTOVON 240-3626.

Plan Execution

Due to the diversity of materials stored on base and the variable severity of the hazards presented in the event of a spill, the response actions will vary. General procedures are outlined in the following sub-sections. These procedures should be reviewed and, if necessary, updated prior to adopting courses of action in a particular situation. The table in Annex I and maps in Annex IX should be consulted with regard to the reportable actions. If a Site Specific Contingency Plan exists for the spill area in question, it will be noted in the Contingency Action column of the Annex I table and should be referred to in Annex II.

The execution of the SPR Plan is divided into two phases; Phase I - Spill Discovery and Initial Notification; Phase II - Response Actions. Phase I designates the initial spill response or potential spill of oil or hazardous substances. It also designates the procedures to be followed by the Base Civil Engineer, Fire Department, Base Environmental Coordinator, and CE Service Call Desk in providing rapid notification of the spill to the proper on-base personnel and organizations. Phase II then designates the general response actions to be taken by the OSC in containing, cleanup and restoring the spill site.

Phase I - Spill Discovery and Initial Notification

a. The following actions will be implemented as necessary upon discovery of a spill by person(s) discovering spill who is responsible for providing initial defensive actions without undue risk of personal injury. The order of the actions will depend on existing conditions.

(1) Initiate evacuation, if necessary.

(2) Notify Base Fire Department On-Base (ext 117 or 744-1117) of the following information:

(a) Name of individual reporting spill.

(b) Location of spill.

(c) Number of injured personnel and nature of injuries.

(d) Substance spilled.

(e) Amount spilled (estimated).

(f) Rate material currently spilling (estimated).

(g) Time spill occurred (estimated).

(h) Extent which spill has traveled.

(i) Any additional pertinent Information (i.e., other potential hazards).

(3) Stop source of spill when possible without undue risk of personal injury; to include use of on-site spill containment equipment and materials.

(4) Make spill scene OFF LIMITS to unauthorized personnel.

(5) Restrict all sources of ignition when flammable substances are involved.

(6) Report to on-scene coordinator upon arrival.

b. Civil Engineer will:

(1) Immediately dispatch a squadron representative to the spill site who will:

(a) Evaluate the severity of the spill and determine the response necessary for containment and recovery.

(b) Advise the OSC as to the necessity for activation of the Spill Response Team (SRT).

(c) On the authorization of the OSC, notify specifically requested members of the SRT or instruct the CE Service Desk to notify these members to assemble at the area designated by the OSC or the Environmental Coordinator within 15 minutes of notification.

(2) The Fire Department will:

(a) Record spill reports on a Spill Incident Checklist Log designed to record the information listed in the above paragraph (1)b along with the time of the report.

(b) Immediately respond as necessary to protect life and property with due regard for the environment.

(c) Notify the Fire Chief and the CE Service Call desk.

(d) Notify the Scott AFB Medical Center if injuries are reported.

(3) The CE Service Call Desk will:

(a) Notify the Base Civil Engineer and the Environmental Coordinator of the spill.

(b) Maintain a current list of all members of the Spill Response Team (SRT) along with their duty telephone numbers (Annex VI) as well as non-duty telephone numbers.

(c) Contact the SRT members designated by the OSC or the Environmental Coordinator and inform them to assemble within 15 minutes at a specified location.

(4) The Environmental Coordinator will:

(a) Contact MAC/DEEV, ext 65764, even if base personnel are uncertain of the spill classification. The purpose of the telecon is to verify the spill classification or aid in the classification when uncertainty exists and to gather available information on reportable spills to support the initial command telecon report to USAF/LEEV. For spills occurring after normal duty hours or on weekends, the MAC/DE alert duty officer should be contacted through the MAC Command Post, ext 63325. As much of the following information as can be reasonably determined should be initially reported.

- Name of installation.
- Location of incident and geography.
- OSC name and telephone number.
- Time of spill.
- Type and estimated quantity of spill substance.
- Magnitude and severity of the threat to public health, welfare and natural resources.
- Weather conditions at spill site.
- Cause of incident.
- Anticipated containment and cleanup action and effectiveness.
- Need for assistance by national, regional, or state response teams.
- Any other pertinent information.

(b) Determine if a Reportable Spill has occurred. Annex I includes Reportable Spill criteria for the substances identified on base as potential Reportable Spill substances. If the spill is deemed a "Reportable

Spill" by the OSC, a confirming message containing the available information identified in paragraph (1)q of this section must be released and transmitted to MAC SCOTT AFB IL/DEEV/SGPAE with information copies to HQ USAF WASH DC/LEEV/SGES, HQ AFESC TYNDALL AFB FL/DEVP/PA/DEMM, HQ AFMSC BROOKS AFB TX/SGP, USAF OEHL BROOKS AFB TX/ECW, HQ USAF WASH DC/LEYF (when POL is involved) and HQ USAF WASH DC/RDCM (when industrial facilities are involved). This message should be transmitted within four hours of the telecon notification to MAC/DEEV. If the telecon notification is made after 1500 hours local, the message will be transmitted no later than 1000 hours the following day.

(c) Telephone and message notification of other Federal and state agencies must be made promptly following telecon notification of reportable spill to MAC/DEEV. These agencies are:

National Response Center	(800) 424-8802
U.S. EPA, Region V Response Center	(312) 353-2318
Illinois Emergency Services & Disaster Agency	(800) 782-7860
Illinois EPA Emergency Response Unit	(217) 782-3637
St. Clair Emergency Services & Disaster Agency	(618) 277-3012

Phase II - Spill Response Actions

a. In the event of a spill of oil or hazardous substances, the OSC will be responsible for directing and coordinating all spill response actions. The OSC or his designee will maintain an Incident Log detailing all actions taken during the course of the pollution spill response. The log will include (but not limited to): description of pollutant(s); the actions taken to recover the pollutant(s) and restore the environment; and any additional significant information. Spill response actions under the responsibility of the OSC are:

(1) Activate or authorize action of appropriate members of the Spill Response Team (SRT) based on information relayed during initial notification or information provided by the Environmental Coordinator, and immediately investigate the reported spill.

(2) Determine source, type and approximate quantity of spill substance.

(3) Evaluate magnitude and severity of the threat to public health, welfare and natural resources. The Material Safety Data Sheets contained in Annex III should be utilized as required to determine potential health, fire and pollution affects associated with the spill material.

(4) Take appropriate safety precautions to protect response personnel and any additional personnel located in close proximity to the probable spill route. Base Security Police will be utilized for implementing evacuation or traffic control measures.

(5) Determine the party responsible for spill, if other than the Air Force. The responsible party should be informed of the spill and their response action as evaluated by the Base OSC. If their response actions are inadequate in the judgment of the OSC, they should first be informed of their financial liability, and then if their spill response actions remain inadequate, the Base OSC should assume control of the spill response. The Base Judge Advocate should be informed in all response actions involving parties other than the Air Force. If a contractor is involved with a spill, the contracting office should be notified, ext 63036.

(6) Determine cause of spill and institute appropriate action to stop the source of spill, if spill is still occurring.

(7) Institute spill containment procedures. The primary concern is to confine spills as close to their source as practical and, if at all possible, prevent spills from exiting base property. In accomplishing this task, the OSC should refer to the following sources of information contained in this document:

(a) Annex I for maximum potential spill quantities, available secondary containment, probable spill routes and general contingency actions.

(b) Annex II for Site-Specific Contingency Plan when the existence of such a plan is stated under "Contingency Action" in Annex I.

(c) Annex III for the health hazards, fire hazards, pollution potential and physical and chemical properties of the spill materials.

(d) Annex IV for a listing of the containment facilities located on Base which may potentially be used for containment of spills.

(e) Annex V for spill response equipment inventory and location of equipment.

(f) Annex VIII for maps to assist in the determination of probable spill routes, access to the spill sites, location of remote secondary containment and spill containment areas.

(8) Determine if the vulnerable areas listed in Annex VIII (i.e. wastewater treatment plant or recreational waters) might be adversely affected and notify the appropriate personnel or organizations listed in the Annex.

(9) Direct Base Bio-Environmental Engineer to take samples to determine the chemical nature, pollutant concentration and extent of the spill as required for response actions and documentation.

(10) Advise Base Public Affairs of the size and nature of the spill and response actions.

(11) Initiate cleanup actions. Pollutants will be collected to the maximum extent possible.

(a) Petroleum pollutants will be collected and stored in the waste oil storage facility.

(b) Absorbent and similar material will be placed in 55-gallon drums, labeled, and turned over to the responsible party for the spill. Normal procedures will be followed for disposal of the waste.

(c) Hazardous pollutants will be collected in polyethylene-lined drums (see 49 CFR 178.133) or other approved drums under 49 CFR 172.101 or 102, labeled, and turned over to the responsible party for the spill. Normal procedures will be followed for disposal of the waste.

(12) Officially classify oil spills using the following definitions:

(a) Minor discharge. Minor discharge means a discharge to the inland waters of less than 1,000 gallons of oil; or a discharge to the coastal waters of less than 10,000 gallons of oil.

(b) Medium discharge. Medium discharge means a discharge of 1,000 to 10,000 gallons of oil to the inland waters; or a discharge of 10,000 gallons to 100,000 gallons of oil to the coastal waters.

(c) Major discharge. Major discharge means a discharge of more than 10,000 gallons of oil to the inland waters; or more than 100,000 gallons of oil to the coastal waters.

(13) Following the initial confirmation message, the base will release and transmit subsequent messages every weekday as of 0800 hours due out by 1200 hours the same day. The report may be made by exception. Following the initial message, subsequent messages need not be transmitted on weekends or holidays unless specifically requested by MAC/DEEV. Addresses for the subsequent message reports are the same as those listed in Phase I paragraph b.(4)(b) of this section.

(14) On completion of cleanup operations, a "close-up" report will be submitted to MAC/DEEV, with information copies to Region V, Environmental Protection Agency. In addition, the report must be submitted within 60 days of a "major" oil spill to the National Response Team and the Regional Response Team; within 60 days of a 1,000 gallon oil spill or 2 reportable oil spills in 12 months to the Regional Administrator of EPA; within 60 days of a reportable spill of Clean Water Act Section 311 substances to the Regional EPA Enforcement Division Director; and within 15 days of a spill of hazardous waste requiring the implementation of the SPR Plan to the Regional Administrator of EPA. Both regulatory agency reports and internal Air Force reports should contain all of the information listed below. However, the regulatory agency reports must be narrative format, and the internal Air Force reports must be in the message format specified in AFR 19-8.

(a) Name and address of installation and/or owner;

(b) Name and telephone number of OSC;

(c) Incident report (initial, second, third, final);

(d) Date and time of incident;

(e) Time of official spill notification to the National Response Center and other regional and state officials;

(f) Location of incident and the nature of the terrain at the location, to include surface and subsurface drainage characteristics and relationships to water bodies (estimate extent of area affected such as miles of stream or acres of lake);

(g) Weather conditions and how they affected response action;

(h) Cause of incident;

(i) Type and estimated amount (barrels, gallons, pounds) of pollutant and the official size classification (minor, medium, major);

(j) Actual damage and/or potential threat to human life, to property (private, state, or federal), and to plant or animal life;

(k) Corrective action taken to eliminate pollution source;

(l) Corrective action taken to remove pollutant;

(m) Assistance required;

(n) Estimated completion date of remedial actions and anticipated effectiveness;

(o) Estimated quantity and disposition as spill material and contaminated soil;

(p) Confirmation that emergency response equipment is back in operation before resuming operating activities;

(q) Description of any problems encountered during implementation of the SPR plan and an explanation of how the Spill Prevention and Response Plan was, or will be modified to prevent the recurrence of the spill event;

(r) Anticipated or actual reaction by the news media and public to the incident (specify potential for liability in the internal Air Force reports only);

(s) A copy of this SPR Plan if requested.

SECTION FIVE - TRAINING

Personnel Training Requirements

All personnel involved with the management and handling of oil and hazardous substances must take part in periodic spill prevention and response training programs. A different standard is given for current or new employees. Both employees require an eight-hour refresher annually. New employees require twenty-four hours of initial training. Current employees do not need the initial 24 hours of training, provided the commander can show that the employee's previous work experience and/or training is satisfactory to meet the initial training requirements. The training needs will be designed so that it will enable employees involved in hazardous waste operations to perform their assigned duties and functions in a safe manner. The training will be conducted by an individual familiar with the SPR and hazardous waste management (i.e., the Base Environmental Coordinator and supervisory personnel from respective oil and hazardous substance storage areas). Others assisting with the training will include the Bio-Environmental Engineer, Fire Department and Disaster Preparedness Office. Training programs will be divided into two functions.

a. The first function will be given either by the Environmental Coordinator or the Base Hazardous Waste Manager, and will include the following:

(1) Introduction to RCRA;

(2) Identification of Typical MAC RCRA Compounds;

(3) Accumulation Point Management;

(4) Container Management;

(5) Container Marking and Labeling;

(6) Recordkeeping;

(7) Treatment, Storage, and Disposal Facility (TSDF) Management;

(8) Turn-in Procedures;

(9) Organization/Activity Responsibility;

(10) Closure of Accumulation Points/TSDFs;

(11) Contingency Plans/Emergency Responses;

(12) Manifest and Transportation;

(13) Commercial Disposal Facilities;

(14) Hazardous Substance Characterization and Compatibility;

(15) Fire Considerations; and

(16) Safety, health, and other hazards present at the site.

b. The second training function will be given by the organizational Hazardous Waste Monitor, and will include all of the above which pertains to his organization and all of the following:

(1) Names of personnel and alternates responsible for safety and health.

(2) Use of personal protection equipment.

(3) Safe work practices.

(4) Safe use of engineering controls and equipment at the site.

(5) Medical surveillance requirements, including the symptoms and signs of over-exposure.

(6) Site control measures.

(7) Decontamination procedures.

(8) Standard operating procedures at the site.

(9) Personal protection equipment and other equipment used at the site.

(10) Confined space entry procedures.

c. Training programs will be conducted either annually or semi-annually (IAW the Hazardous Waste Training Program) for all personnel working at oil and hazardous substances sites; within six months (two weeks recommended) for all personnel starting a supervised position; prior to starting work for personnel entering an unsupervised position; after any significant revisions to the training program or the SPR Plan, and after a spill response in which training deficiencies were noted. Records of the type, extent and frequency of each employee's training will be maintained until closure of the applicable area or until three years after the date the employee last worked. Training will be documented in each individual's training record. Newcomers to the base should be immediately informed of the general spill response and reporting procedures by including a procedural outline in each newcomer sponsor package.

Contractor Handling Oils and Hazardous Materials

Contractors working in areas associated with oils or hazardous substances are responsible for training their personnel in spill response and reporting procedures. The contract administrator for the Air Force is responsible for providing these contractors with a summary of spill response and reporting procedures.

Spill Response Team (SRT)/HAZMAT Training

All base personnel designated in this document as part of the SRT and HAZMAT must take part in periodic spill response training programs. The training will involve both general training and detailed training. The general training will consist of the applicable laws; base responsibilities; DOD and USAF policies; potential hazards to personnel, property and the environment from spill events; and the use of the SPR Plan including the function of the OSC, the designated responsibilities of member organizations and the general response procedures. The detailed training will be specifically structured for each response organization and address the following:

a. The responsibilities of the individual organization being trained;

b. The detailed response procedures to be followed in the event of a spill;

c. The location and use of spill response equipment;

d. The potential health and fire hazards associated with spill response activities.

The training will consist of formal classroom training and spill exercises. The Chief of Operations and Maintenance is responsible for the training program, and the Base Environmental Coordinator will assist with the

program. The frequency of the training program, at a minimum, will correspond to the requirements designated for base personnel. Spill response exercises will be conducted at least once annually. Response to an actual spill will satisfy the annual requirement for spill response exercises. New SRT members should be given a copy of the SPR Plan and briefed when they are assigned to the team.

SECTION SIX - PLAN REVIEW AND UPDATE

The SPR Plan will be reviewed, at a minimum, annually and amended as required. Other circumstances which will warrant a plan review and update are listed as follows:

a. When RCRA permit is modified;

b. When facility changes occur which increase the potential for spills or change the spill prevention and response procedure methods and equipment;

c. When the SPR Plan fails or proves to be ineffective in the prevention of or response to a spill event;

d. At the request of the U.S. Environmental Protection Agency;

e. When changes occur in the OSC, SRT or spill response equipment list;

f. After enactment of, or amendment to, pertinent federal or state legislation, or changes in DOD or USAF policy. Particular attention should be given to changes in reportable spill quantities;

g. After pertinent modifications of federal, regional and state contingency plans;

h. After any changes in adjacent land and water use that would affect spill prevention and response considerations;

i. At the request of the Scott AFB Environmental Protection Committee or its Subcommittee on spills.

The Environmental Protection Subcommittee on spills will conduct these reviews utilizing the same procedures used in the initial plan development of the document (refer to USAF Guidance Manual for Preparation of SPR Plans). The review will include detailed inspection of oil and hazardous substance sites and verification of all data generated during the initial plan development. When possible, a professional engineer will take part in these inspections. The Environmental Protection Subcommittee on spills will submit a report to the Environmental Protection Committee describing any deficiencies and recommended corrective actions.

The Environmental Protection Committee will be responsible for reviewing the report, monitoring any corrective actions and amending the SPR Plan when necessary. The review of the SPR Plan, and any resulting amendments or changes to the plan will be logged on the record sheet at the front of this document. If amendments or changes significantly affect the SPCC portion of the plan, Annex I; the plan must be recertified by a professional engineer.

ANNEX I

OIL AND HAZARDOUS SUBSTANCE SITE SPILL PREVENTION MECHANISMS AND CONTINGENCY ACTIONS

Contents

Section I - Oil and Hazardous Substance Site Spill Prevention Control and Countermeasures Summary

Section II - Oil and Hazardous Substance Site Spill Prevention Control and Countermeasure Explanatory TABS

Section III - Certification and Approval Signatures

SECTION I Oil and Hazardous Substance Site Spill Prevention Control and Countermeasures Summary

An inspection of existing oil or hazardous substance storage facilities which have the potential for incurring a Reportable Spill defined by 40 CFR 110, 40 CFR 112, 40 CFR 117, CERCLA and applicable state regulations was conducted at Scott AFB. The inspection included all facilities listed on the following tables. The information recorded for these facilities was developed from interviews with base personnel and review of the existing "Oil and Hazardous Substance Pollution Contingency Plan."

The table within this section has been divided into five categories:

a. Heating Oil Storage Facilities

b. Aircraft/Vehicle Fuel Storage Facilities

c. Waste Petroleum Products, Hazardous Materials Storage Facilities, and Hazardous Waste Generation and Accumulation Points

d. Emergency Generators

e. Sanitary Waste Water Collection System

Each category is arranged in a sequential order by facility number with the miscellaneous non-number facilities located at the end of the appropriate category division.

The table contains site description information, maximum spill quantities, and the grid coordinates associated with the Oil and Hazardous Substance Site Location Map, Annex VIII. In addition, available information concerning reportable spill quantities, secondary containment features, probable spill routes, contingency actions, visual inspection procedures, preventive maintenance, housekeeping, material compatibility, security, monitoring procedures and Standing Operating Procedures (SOP's) are specifically referenced for each facility. These references are described in the SPCC Explanatory TABs found in Section II.

DIMOCK

DEFENSE LOGISTICS AGENCY
DEFENSE REUTILIZATION AND MARKETING OFFICE-SCOTT
BUILDING 4141
SCOTT AIR FORCE BASE, IL 62225-5000

ID 570 024171

RECEIVED
DEC 13 1988
U. S. EPA, REGION V
SWB — PMS

RECEIVED
NOV 28 1988
OFFICE OF RCRA
Waste Management Division
U.S. EPA, REGION V

IN REPLY REFER TO DRMO-XCL (L.K. Maitlen/AV 576-3105/cam) 22 September 1988

SUBJECT: Exception Report

TO: Environmental Protection Agency
230 S. Dearborn
Chicago, IL 60604

1. Reference: 40 CFR 262.42, Exception Reporting.

2. Per reference the following is submitted:

The enclosed manifests are past due back from the TSDF. All the manifests were transported by U.S. Pollution Control, Inc., EPA #OKO981514474.

On 15 Nov 88 Mr. Maitlen of the Defense Reutilization & Marketing Office - Scott contacted Ms Lee Bosch of U.S. Pollution Control, Inc. (A.C. 405 324-5033) to obtain the missing manifests. She indicated the waste was at the Grassy Mountain TSDF and there was a problem with the shipment.

Encl.

Lawrence K. Maitlen
LAWRENCE K. MAITLEN
Property Disposal Officer
DRMO Scott

EPA-200-83-D-0009
D.O. # 0040

INSTRUCTIONS FOR THE COMPLETION OF THIS FORM ARE ON A SEPARATE SHEET.
THIS DOCUMENT MUST BE USED FOR ALL MISSOURI-DESTINED SHIPMENTS.

LRK/KC-55

MISSOURI DEPARTMENT OF NATURAL RESOURCES
Division of Environmental Quality
Waste Management Program
P.O. Box 176 Jefferson City, Missouri 65102
314-751-3176

HAZARDOUS WASTE MANIFEST

EMERGENCY RESPONSE
U.S. COAST GUARD
1-800-424-8802
CHEM TREC
1-800-424-9300
DEPT. OF NATURAL RESOURCES
314-634-2436

Please print or type (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MO [illegible] 3 7 9 1 1 — Manifest Document No.

2. Page 1 of 1 — Information in the shaded areas is required by State law.

3. Generator's Name and Mailing Address
DEFENSE MAPPING AGENCY
3900 S. BROADWAY
ST. LOUIS MO 63125

4. Generator's Phone (314) 263-2100

A. Missouri Manifest Document Number 04 [illegible] 0001

B. State Generator's ID

C. MO. Transporter's ID

D. Transporter's Phone

E. MO. Transporter's ID

F. Transporter's Phone

5. Transporter 1 Company Name — U.S. Petro Corp. Inc.

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
U.S.P.C.I. - Grassy Mountain
Ernest Scott Jones Rd.
Exit 41 off I-80
Grassy Utah

10. US EPA ID Number

G. State Facility's ID

H. Facility's Phone (801) 534-0054

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers		13. Total Quantity	14. Unit Wt/Vol.	Waste No.
a. RQ WASTE ASBESTOS ORM-C	15	DF	59.1	P	MO: Other:
b. RQ WASTE ASBESTOS ORM-C	01	BA	9.1	P	MO: Other:
c.					MO: Other:
d.					MO: Other:

J. Additional Descriptions for Materials Listed Above — K. Handling Codes for Wastes Listed Above

a. [illegible] CONTAINS CA-92-0[illegible]
b. [illegible] CONTAINS CA-92-0[illegible]
d. [illegible] SPECIAL SERVICE

15. Special Handling Instructions and Additional Information
USE CAUTION; WEAR P.P.E.

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and applicable state regulations.
If I am a large quantity operator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method available to me that I can afford.

Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[signature]	10	9	88

17. Transporter Acknowledgement of Receipt of Materials — Date

Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[signature]	10	27	88

18. Transporter 2 Acknowledgement of Receipt of Materials — Date

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Date Month	Day	Year

EPA Form 8700-22 (Rev. 9-86) MDNR-HWG 10 PREVIOUS EDITIONS ARE OBSOLETE

GENERATOR — TRANSPORTER — FACILITY

THIS COPY MAY BE GIVEN TO A SECOND TRANSPORTER OR TO A STATE OPTIONAL COPY

STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY · DIVISION OF LAND POLLUTION CONTROL
2200 CHURCHILL ROAD, SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761
P.O. BOX 19275

IL532-0610
LPC 626/91

DLA-2pp-88-P-0909
D.O. F0040
R/MS/KC-55

Please print or type (Form designed for use on elite (12-pitch) typewriter.) EPA Form 8700-22 (Rev. 9-88) Form Approved. OMB No. 2050-0039, Expires 9-30-9

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. ILD570024177 Manifest Document No. 82593

2. Page 1 of 1 — Information in the shaded areas is required by Federal law, but is req by Illinois law.

3. Generator's Name and Mailing Address
DRAD SCOTT AFB
BLDG 4141
SCOTT AFB IL 62225
4. Generator's Phone (618) 256-3105

SEND TO: DONNA FISHER
DRAD-SCOTT AFB
BLDG 4141
S.A.F.B. IL 62225

A. Illinois Manifest Document Number IL 2027216

B. Illinois Generator's ID 1630105011

5. Transporter 1 Company Name U.S. POLLUTION CONTROL INC.
6. US EPA ID Number OKD981514474
C. Illinois Transporter's ID 124
D. (405) 324-5011 Transporter's Phone

7. Transporter 2 Company Name
8. US EPA ID Number
E. Illinois Transporter's ID
F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address
U.S.P.C. INC-GRASSY MOUNTAIN
3 MILES EAST 7 MILES NORTH OF KNOLLS
EXIT 41 OFF I-80
CLIVE, UTAH 84107
10. US EPA ID Number UTD981301748
G. Illinois Facility's ID
H. Facility's Phone (801) 534-0054

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. WASTE LITHIUM BATTERIES FOR DISPOSAL ORM-C (D003)	01	DM	03P		EPA HW Number XXD003 Authorization Number
b.					EPA HW Number XX Authorization Number
c.					EPA HW Number XX Authorization Number
d.					EPA HW Number XX Authorization Number

J. Additional Descriptions for Materials Listed Above
A.CLIN 0501 -

K. Handling Codes for Wastes Listed Above In Item #14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information
USE CAUTION; WEAR P.P.E.

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR — Printed/Typed Name: Donna L. Fisher — Signature: Donna L. Fisher — Date: Month 09 Day 13 Year 89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: RANDY L. RUSSELL — Signature: Randy L. Russell — Date: Month 09 Day 15 Year 89

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name — Signature — Date: Month Day Year

For assistance: 217/782-3397 — 24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS* OUTSIDE ILLINOIS: 800/424-9300 or 202/426-2675

WHITE - TRANSPORTER PART - 1 GENERATOR PART - 2 EPA PART - 3 FACILITY PART - 4 TRANSPORTER PART - 5 EPA PART - 6 GENERATOR

GENERATOR COPY — PART 1 DO NOT REMOVE PART 1 FROM SET UNTIL COMPLETED.

DEFENSE LOGISTICS AGENCY
DEFENSE REUTILIZATION AND MARKETING OFFICE-SCOTT
BUILDING 4141
SCOTT AIR FORCE BASE, IL 62225-5000

IN REPLY REFER TO DRMO-XCL (L.K. Maitlen/AV 576-3105/cam) 22 November 1988

SUBJECT: Exception Report Follow-Up

TO: Environmental Protection Agency
230 S. Dearborn
Chicago, IL 60604

1. References:
   a. 40 CFR 262.42, Exception Reporting.
   b. DRMO XCL letter dated 25 May 1988.

2. Per reference (a) the following is submitted:

The enclosed manifests are still past due back from the TDSF. All the manifests were transported by U.S. Pollution Control, Inc., EPA #OKO981514474.

On 15 Nov 88 Mr Lawrence K. Maitlen contacted Ms Lee Bosch at the U.S. Pollution Control Inc., (A/C 405 324-5033) to obtain the missing manifests. She indicated that there was still a problem at their TSDF and would send us a copy when she located them.

3. Reference (b) filed the exception report for the enclosed manifests.

Lawrence K. Maitlen
LAWRENCE K. MAITLEN
Property Disposal Officer
DRMO Scott

STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

2200 CHURCHILL ROAD, SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761
P.O. BOX 19275

IL532-0610
LPC 62 8/81

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) **EPA Form 8700-22 (Rev. 9-86)** Form Approved. OMB No. 2050-0039 Expires 9-30-

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. [illegible] Manifest Document No. [illegible]
2. Page 1 of 1

Information in the shaded areas required by Federal law, but is requ by Illinois law.

3. Generator's Name and Mailing Address [illegible]

A. Illinois Manifest Document Number IL 2026659

B. Illinois Generator's ID

4. Generator's Phone ([illegible]) [illegible]

5. Transporter 1 Company Name [illegible]

6. US EPA ID Number [illegible]

C. Illinois Transporter's ID [illegible]

D. (405 [illegible]) Transporter's Phon

7. Transporter 2 Company Name

8. US EPA ID Number

E. Illinois Transporter's ID

F. ( ) Transporter's Phon

9. Designated Facility Name and Site Address [illegible]

10. US EPA ID Number [illegible]

G. Illinois Facility's ID

H. Facility's Phone (405 697-3236

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. [illegible]		1 OF	1	1	EPA HW Number XX 00 Authorization Numb
b.					EPA HW Number XX Authorization Numb
c.					EPA HW Number XX Authorization Numb
d.					EPA HW Number XX Authorization Numb

J. Additional Descriptions for Materials Listed Above [illegible]

K. Handling Codes for Wastes Listed Above In Item #14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information

[illegible]

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name [illegible] Signature Date Month Day Ye 07 / 28

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name [illegible] Signature [illegible] Date Month Day Ye 07 / 28

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name Signature Date Month Day Ye

19. Discrepancy Indication Space

[illegible] copy [illegible] back.

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name Signature Date Month Day Ye

GENERATOR

TRANSPORTER

FACILITY

IN ILLINOIS: 217 / 782-3637 *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS* OUTSIDE ILLINOIS: 800 / 424-8802 or 202 / 426-2675

DISTRIBUTION: PART - 1 GENERATOR PART - 2 IEPA PART - 3 FACILITY PART - 4 TRANSPORTER PART - 5 IEPA PART - 6 GENERATOR

REV. 7

GENERATOR COPY — PART 1-DO NOT REMOVE PART 1 FROM SET UNTIL COMPLETED.

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

GENERATOR COPY - PART 6

STATE OF ILLINOIS

2200 CHURCHILL ROAD, SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761
P.O. BOX 19275

IL532-0610
LPC 62 8/81

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) **EPA Form 8700-22 (Rev. 9-86)** Form Approved. OMB No. 2050-0039, Expires 9-30-88

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. | Manifest Document No. 91032 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address

A. Illinois Manifest Document No. IL 2026653

B. Illinois Generator's ID

4. Generator's Phone ( )

5. Transporter 1 Company Name | 6. US EPA ID Number | C. Illinois Transporter's ID

D. ( ) Transporter's Phone

7. Transporter 2 Company Name | 8. US EPA ID Number | E. Illinois Transporter's ID

F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address | 10. US EPA ID Number | G. Illinois Facility's ID

H. Facility's Phone

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
GENERATOR a.					EPA HW Number XX Authorization Number
b.					EPA HW Number XX Authorization Number
c.					EPA HW Number XX Authorization Number
d.					EPA HW Number XX Authorization Number

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above In Item # 14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information

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Printed/Typed Name | Signature | Date Month Day Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date Month Day Year

FACILITY

19. Discrepancy Indication Space

Alt. Origin Mat.

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name | Signature | Date Month Day Year

ILLINOIS: 217 / 782-3637 *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS* OUTSIDE ILLINOIS: 800 / 424-8802 or 202 / 426-2675

DISTRIBUTION: PART - 1 GENERATOR PART - 2 IEPA PART - 3 FACILITY PART - 4 TRANSPORTER PART - 5 IEPA PART - 6 GENERATOR

V7

GENERATOR COPY — PART 1-DO NOT REMOVE PART 1 FROM SET UNTIL COMPLETED.

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GENERATOR COPY - PART 6

STATE OF ILLINOIS
2200 CHURCHILL ROAD, SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761
P.O. BOX 19275

IL532-0610
LPC 62 8/81

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) **EPA Form 8700-22 (Rev. 9-86)** Form Approved. OMB No. 2050-0039, Expires 9-30-88

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. | Manifest Document No. | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address

4. Generator's Phone ( )

A. Illinois Manifest Document Number: IL 2026658

B. Illinois Generator's ID

5. Transporter 1 Company Name | 6. US EPA ID Number | C. Illinois Transporter's ID | D. ( ) Transporter's Phone

7. Transporter 2 Company Name | 8. US EPA ID Number | E. Illinois Transporter's ID | F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address | 10. US EPA ID Number | G. Illinois Facility's ID | H. Facility's Phone

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.					EPA HW Number XX Authorization Number
b.					EPA HW Number XX Authorization Number
c.					EPA HW Number XX Authorization Number
d.					EPA HW Number XX Authorization Number

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above In Item # 14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name | Signature | Date (Month Day Year)

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date (Month Day Year)

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date (Month Day Year)

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name | Signature | Date (Month Day Year)

ILLINOIS: 217 / 782-3637 *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS* OUTSIDE ILLINOIS: 800 / 424-8802 or 202 / 426-2675

DISTRIBUTION: PART - 1 GENERATOR PART - 2 IEPA PART - 3 FACILITY PART - 4 TRANSPORTER PART - 5 IEPA PART - 6 GENERATOR

GENERATOR COPY — PART 1-DO NOT REMOVE PART 1 FROM SET UNTIL COMPLETED.

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GENERATOR COPY - PART 6

JUN 0 6 1991

5HR-12

Walter F. Anderson, Captain, USAF
Chief, Environmental Management
Department of The Air Force
Headquarters 375th Air Base Group (MAC)
Scott Air Force Base, Illinois 62225

Re: Annual Inspection Reports

Dear Captain Anderson:

In response to your May 17, 1991, letter, please find enclosed a copy of the May 19, 1990, inspection reports for Scott Air Force Base. I am sending you a copy of the State of Illinois inspection report and a copy of the RCRA Land Disposal Restriction inspection report.

Also, you requested a copy of the May 8 and 9, 1991, inspection report. However, at this time, we are unable to provide you with that information. Our office has not received the May 1991, inspection report. Once we receive it, we will gladly provide you with the information.

If you need additional information or further assistance, please contact Ms. Zetta Thomas of my staff at (312) 886-4581.

Sincerely yours,

Paul E. Dimock, Chief
IL/MI/WI Enforcement Program Section

Enclosure

Z.THOMAS:ev:06/03/91:disk # Filename:WAnderson

SIGNATURE/INITIAL CONCURRENCE REQUESTED - RCRA ENFORCEMENT BRANCH (REB)									
TYP.	AUTH	IL/IN TES CHIEF	MI/WI TES CHIEF	MN/OH TES CHIEF	IL/MI/WI EPS CHIEF	IN/MN/OH EPS CHIEF	REB BRANCH CHIEF	RCRA ASSOC. DIR.	WMD DIVISION DIRECTOR
GW 6-5-91	2T 6/5/91				PEH 6-5-91				

IL75 70024177

DEPARTMENT OF THE AIR FORCE

HEADQUARTERS 375TH AIR BASE GROUP (MAC)

SCOTT AIR FORCE BASE, ILLINOIS 62225

RECEIVED

OFFICE OF

17 MAY 1991

REPLY TO ATTN OF: DEV

SUBJECT: Annual Inspection Reports

TO: William E. Muno, Chief
RCRA Enforcement Branch
U.S. EPA Region V
230 S. Dearborn Ave.
Chicago, Illinois 60605

1. In May 1990 Mr. Gerald Golubski performed an annual EPA Multi-Media Inspection of our installation. Please send copies of the 1990 Inspection Report to us as soon as possible.

2. On 8 and 9 May 1991 Mr. Golubski performed our 1991 EPA Multi-Media Inspection. Request copies of the 1991 Inspection Report as soon as it is available.

3. If you have any questions regarding this request, please refer them to Lt Kokotajlo or MSgt Brown, 618-256-4165.

WALTER F. ANDERSON, Capt, USAF
Chief, Environmental Management

MAC--THE BACKBONE OF DETERRENCE

STATE OF WISCONSIN

Form 4400-66 Rev. 7-84
Chapter 144, Wis. Stats.

Mail Copies To: State of Wisconsin
Department of Natural Resources
Bureau of Solid Waste Mgt.
Box 8094
Madison, Wisconsin 53708

FOR DNR USE ONLY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. L L 7 5 7 0 0 2 4 1 | Manifest Document No. 7 . . . .

2. Page 1 of 1 | Information in the shaded area is not required by Federal law.

3. Generator's Name and Mailing Address
DPDC Scott
Building 4141
Scott AFB, IL 62226

4. Generator's Phone 618/256-3105

A. State Manifest Document Number WI 19065

B. State Generator's ID

5. Transporter 1 Company Name: Aqua-Tech, Inc.

6. US EPA ID Number: W I D 0 6 6 8 8 8 0 1 7

C. State Transporter's ID

D. Transporter's Phone 414/284-5746

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Aqua-Tech, Inc.
140 South Park Street
Port Washington, WI 53074

10. US EPA ID Number: W I D 0 6 6 8 8 8 0 1 7

G. State Facility's ID

H. Facility's Phone 414/284-5746

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. Waste Lithium Batteries for Disposal; ORM-C	1	CF	61	P	D003
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above
a. WS#1133 (Line #4/7)

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations and according to the requirements of the Wisconsin Department of Natural Resources.

GENERATOR

Printed/Typed Name: OZZIE B. WEBB JR, Chief | Signature | Date: Month 04 Day 11 Yr 88

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Steven W. Popp | Signature | Date: Month 04 Day 11 Yr 88

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month . Day . Yr .

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature | Date: Month . Day . Yr .

Emergency 24 Hour Assistance Telephone Number
In Wisconsin (608-266-3232)
Outside Wisconsin (800-424-8802)

Distribution: 1 — BSWM 4 — Facility
2 — Generator 5 — Generator
3 — BSWM 6 — Transporter
BSWM Copies 1 & 3 mail to above.

COPY 2

5HS-12

25 FEB 1988

Dennis I. Tudor, Chief
Environmental Engineering and Planning
Scott Air Force Base
375 ABG/DEEV
Belleville, Illinois 62225-5045

Re: Notice of Violation
Scott Air Force Base
IL7 570 024 177

Dear Mr. Tudor:

The United States Environmental Protection Agency (U.S. EPA) has reviewed the information which you submitted to this office on February 8, 1988. The stated actions appear to adequately address the land disposal restrictions deficiencies outlined in our January 12, 1988, Notice of Violation.

Your cooperation and efforts in this matter are appreciated. Should you have further questions, please feel free to contact Sharon R. Travis of my staff at (312) 886-6533.

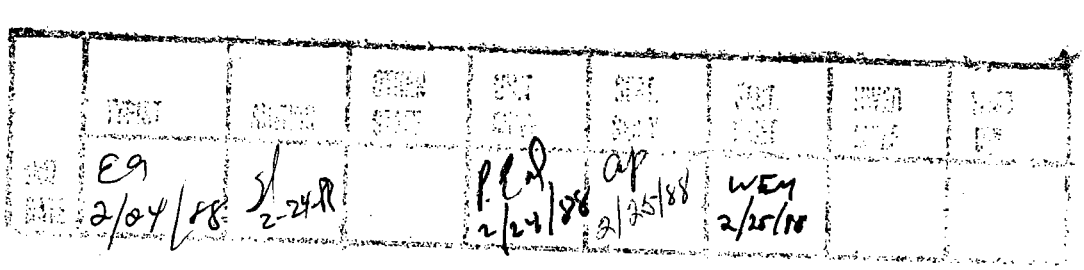
Sincerely yours,

ORIGINAL SIGNED BY
WILLIAM E. MUNO

William E. Muno, Chief
RCRA Enforcement Branch

cc: Glenn Savage, IEPA, FOS, DLPC
Harry Chappel, FCU, DLPC
Gary King, IEPA, EP, DLPC
Bill Franz, 5ME-14

5HS-12:STRAVIS:2/22/88:ea: SHARON #3



5HE-12

12 JAN 1988

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Dennis I. Tudor, Chief
Environmental Engineering and Planning
Scott Air Force Base
Belleville, Illinois 62225-5045

Re: Notice of Violation
Scott Air Force Base
IL7 570 024 177

Dear Mr. Tudor:

On July 8, 1987, the Illinois Environmental Protection Agency (IEPA), representing the U.S. Environmental Protection Agency (U.S. EPA), conducted a Resource Conservation and Recovery Act (RCRA) inspection of the above-referenced facility. The purpose of the inspection was to determine the compliance status of your facility with respect to the applicable hazardous waste management requirements of RCRA, including the land disposal restrictions of certain spent solvents. The land disposal restrictions became effective on November 8, 1986, (reference 51 Federal Register 40636: 40 CFR Part 268, and revisions to 40 CFR Parts 260-265 and 270).

With respect to the land disposal requirements section of the inspection, your facility was found to be in violation of certain land disposal requirements as noted below:

1. Failure to notify in writing for each shipment of F-series solvent wastes sent for off-site treatment as required by 268.7(a)(1), specifically, the applicable treatment standard;

2. Failure to maintain in the operating record, results of waste analyses and trial test as required by 265.73(b)(3);

3. Failure to revise your waste analyses plan to include 40 CFR Part 268 requirements in accordance with Section 265.13;

4. Failure to provide testing of chemical and physical analyses for all F001-F005 wastes; and

5. Failure to identify on all containers contents and dates entering storage as required by 268.50.

A copy of the inspection report is enclosed for your records. Please submit to this office, within thirty (30) days of receipt of this Notice of Violation, documentation demonstrating that the above-cited violations have been corrected and indicating what measures have been initiated to assure future compliance. Failure to correct the violation(s) may subject the facility to further Federal enforcement action.

If you have any questions regarding this correspondence, please contact Sharon R. Travis of my staff at (312) 886-6533.

Sincerely yours,

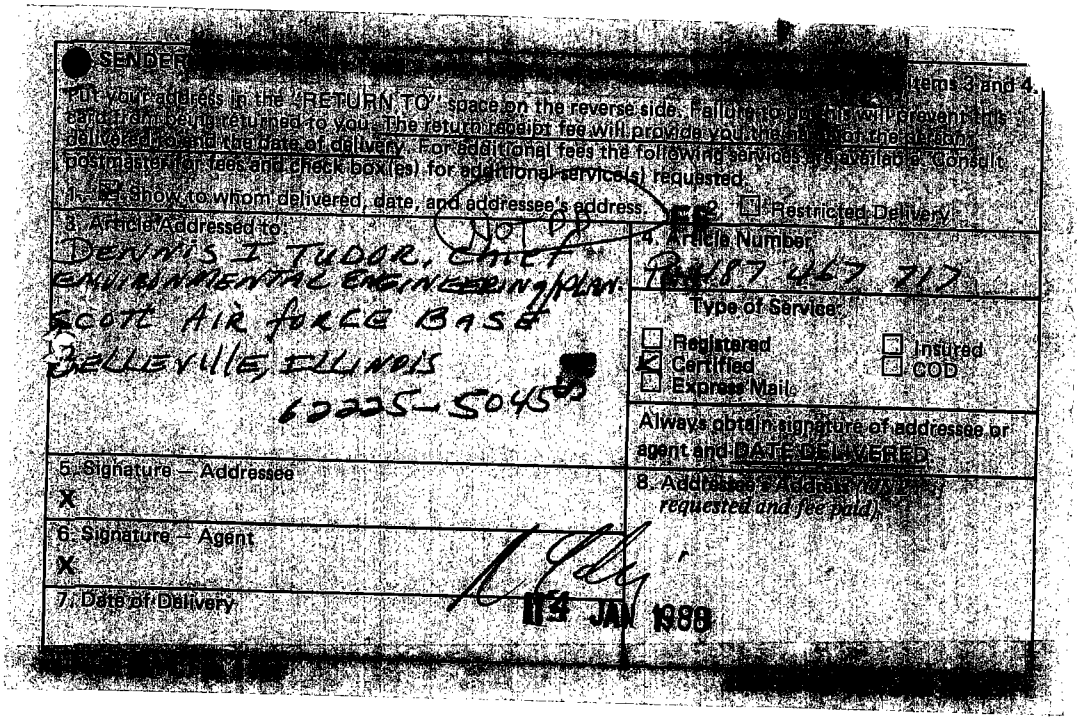
William E. Muno, Chief
RCRA Enforcement Section

Enclosure

cc: Harry Chappel, IEPA
Glenn Savage, IEPA

bcc: Paul Dimock

	INITIAL							
INIT. DATE	EG 1-7-88	1-7-88		P.E.D. 1-7-88	1-8-88	1-8-88		



SENDER:

Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☐ Show to whom delivered, date, and addressee's address.
2. ☐ Restricted Delivery

3. Article Addressed to:
DENNIS I TUDOR, CHIEF
ENVIRONMENTAL ENGINEERING PLAN
SCOTT AIR FORCE BASE
BELLEVILLE ILLINOIS
62225-5045

4. Article Number
P 287 467 717

Type of Service:
☐ Registered ☐ Insured
☑ Certified ☐ COD
☐ Express Mail

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Addressee
X

6. Signature — Agent
X

7. Date of Delivery
19 JAN 1988

8. Addressee's Address (ONLY if requested and fee paid)

DEPARTMENT OF THE AIR FORCE

HEADQUARTERS 375TH AIR BASE GROUP (MAC)

SCOTT AIR FORCE BASE, ILLINOIS 62225

08 FEB 1988

REPLY TO ATTN OF: CC

SUBJECT: Response to United States Environmental Protection Agency (USEPA) Notice of Violation (NOV) Dated 12 Jan 88

TO: United States Environmental Protection Agency, Region 5
ATTN: Sharon Travis (5HE-12)
230 South Dearborn Street
Chicago, IL 60604

1. Following is the Scott AFB response to the Notice of Violation received for noncompliance with the new land disposal restrictions:

a. Failure to notify in writing for each shipment of F-series solvent wastes sent for off-site treatment as required by 268.7(a)(1); maintain in the operating record, results of waste analyses and trial tests as required by 265.73(b)(3); provide testing of chemical and physical analyses for all F001-F005 wastes. A joint review between the Environmental Coordinator and the Defense Reutilization and Marketing Office (DRMO) representative revealed that the base has in fact been sending written notifications, providing testing and keeping results of those tests in DRMO's files. Attached is an example of the records kept on Scott AFB's hazardous waste shipments. This record contains the uniform hazardous waste manifest, the notification letter, required treatment standards, listing of wastes banned from land disposal, and laboratory test results.

b. Failure to revise your waste analysis plan to include 40 CFR Part 268 requirements in accordance with Section 265.13. After reviewing the regulations stated, a revised waste analysis plan has been written. A draft copy of this plan is attached for your review.

c. Failure to identify on all containers contents and dates entering storage as required by 268.50. This item was received as another NOV which has already been corrected (see attached NOV and response).

2. Scott AFB is very concerned with the management of hazardous waste and will do everything possible to maintain compliance. If there are any further questions concerning this response or the hazardous waste management plan, please contact the Base Environmental Coordinator, Lt Richard Sloop, at (618) 256-2092.

THOMAS E. DIAMOND, Colonel, USAF
Commander

3 Atch
1. Example Record
2. Draft Waste Analysis Plan
3. 30 Nov 87 NOV and Response

cc: 375 ABG/CD/DE/JA
375 AAW/CC/CV
Med Cen/SGPB

STATE OF ILLINOIS — ENVIRONMENTAL PROTECTION AGENCY · DIVISION OF LAND POLLUTION CONTROL

2200 CHURCHILL ROAD, SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761
P.O. BOX 19275

IL532-0610
LPC 62 8/81

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) EPA Form 8700-22 (Rev. 9-86) Form Approved. OMB No. 2050-0039, Expires 9-30-88

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL7570024177 — Manifest Document No.: 75603

2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address: DRMO Scott AFB, Bldg. 4141 Scott AFB, Belleville, IL 62225

4. Generator's Phone (618-256-3105)

A. Illinois Manifest Document Number: IL 187673

B. Illinois Generator's ID: 1630105014

5. Transporter 1 Company Name: OSCO Inc.

6. US EPA ID Number: TND089558019

C. Illinois Transporter's ID: 0617

D. (615) 381-4999 Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. Illinois Transporter's ID

F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address: Special Waste Inc. 1734 Legion Rd. Athens, TN 37303

10. US EPA ID Number: TND034547141

G. Illinois Facility's ID: 9471070001

H. Facility's Phone: (615) 745-9222

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. "RQ" 1 Hazardous Waste Solid, NOS ORM-E, NA9189 (D009)	001	DF	00001	2	EPA HW Number XXD009 Authorization Number
b. Waste Corrosive Liquid, NOS Corrosive Material, UN1760 (D002)	001	DF	00003	1	EPA HW Number XXD002 Authorization Number
c. Empty Containers	008	BA	00005	2	EPA HW Number XXNONE Authorization Number
d. Empty Containers	003	DM	00002	2	EPA HW Number XXNONE Authorization Number

J. Additional Descriptions for Materials Listed Above: Truck 0
A 171010
B 177067
E 1000 5 yds = 8 plastic bags
D 1000 2 yd = 165165

K. Handling Codes for Wastes Listed Above In Item #14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information: G.W. Inc is the contractor for this facilities hazardous waste. Please route all correspondence and billing to: P.O. Box A, Saukville, WI 53080 PLA200-87-D-0031 D.O.56

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; **OR**, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Date (Month Day Year)
Donna L. Fisher	Donna L. Fisher	120887

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
Jeffrey Feyereisen	Jeffrey J Feyereisen	120887

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name	Signature	Date (Month Day Year)
Mark Saunders	Mark Saunders	121087

IOS 217 / 782-3637 *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS* OUTSIDE ILLINOIS: 800 / 424-8802 or 202 / 426-2675

BUTION: PART - 1 GENERATOR PART - 2 IEPA PART - 3 FACILITY PART - 4 TRANSPORTER PART - 5 IEPA PART - 6 GENERATOR

GENERATOR COPY — PART 1-DO NOT REMOVE PART 1 FROM SET UNTIL COMPLETED.

Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management ...ter.

Notification

Manifest No. 187673

This notification is provided IAW 40 CFR Part 268.7(a)(1). The above numbered manifest includes the following wastes which are prohibited from land disposal (except in injection wells) unless an exemption has been granted pursuant to a petition under Part 268.6 or the applicable treatment standards have been met. Treatment standards for prohibited waste are given at attachment 1.

Waste Stream	EPA Number
Hazardous Waste Solid (Mercury Debris)	D009.

Nothing in this notification shall be interpreted to permit or authorize any method of treatment and/or disposal other than in accordance with the applicable disposal contract.

INSTRUCTIONS:

1. Fill in corresponding manifest number.
2. Fill in name of waste and EPA number.
3. Sign and date from below.
4. Attach Treatment Standards (attachment 1).
5. Attach waste analysis data, where available.
6. Retain one copy with the manifest.

D. D. Fisher
Printed/Typed Name

Donna Y. Fisher
Signature

8 Dec 87
Date

Atch 1

Attachment 1
Treatment Standards

Waste	Treatment Standard
Solvents:	
F001-F005 solvents containing greater than 1 percent by weight total organic constituents.	See table on pg. 2
California Wastes:	
(1) Liquid hazardous waste having a pH $\leq$ 2.0.	None
(2) Liquid hazardous waste containing PCBs $\geq$ 50 ppm.	Incineration
(3) Liquid hazardous wastes that are primarily water and contain HOCs in total concentration $\geq$ 1000 mg/l and 10,000 mg/l*.	None
(4) Liquid hazardous waste containing free cyanides at concentrations $\geq$ 1000 mg/l.	None
(5) Liquid hazardous waste containing metals at concentrations $\geq$ those specified below:	None
Arsenic (AS	500 mg/l
Cadmium (Cd)	100 mg/l
Chromium VI (CrVI)	500 mg/l
Lead (Pb)	500 mg/l
Mercury (Hg)	20 mg/l
Nickel (Ni)	134 mg/l
Selenium (Se)	100 mg/l
Thorium (Th)	130 mg/l

*NOTE: Until 8 Jul 89, liquid (except wastewater) and nonliquid hazardous waste containing HOCs in total concentration $\geq$ 1000 mg/l may be disposed in a landfill or surface impoundment only if the facility is in compliance with the requirements of 40 CFR 268.5(h)(2). After that date, they must be incinerated.

Table - Treatment Standards for Solvents:

F001-F005 spent solvents	Concentration (in mg/l)	
	Wastewaters containing spent solvents	All other spent solvent wastes
Acetone	0.05	0.59
n-Butyl alcohol	5.0	5.0
Carbon disulfide	1.05	4.81
Carbon tetrachloride	.05	.96
Chlorobenzene	.15	.05
Cresols (and cresylic acid)	2.82	.75
Cyclohexanone	.125	.75
1,2-dichlorobenzene	.65	.125
Ethyl acetate	.05	.75
Ethyle benzene	.05	.053
Ethyl ether	.05	.75
Isobutanol	5.0	5.0
Methanol	.25	.75
Methylene chloride	.20	.96
Methylene chloride (from the pharmaceutical industry)	12.7	.96
Methyl ethyl ketone	0.05	0.75
Methyl isobutyl ketone	0.05	0.33
Nitrobenzene	0.66	0.125
Pyridine	1.12	0.33
Tetrachloroethylene	0.079	0.05
Toluene	1.12	0.33
1,1,1-Trichloroethane	1.05	0.41
1,2,2-Trichloro-1,2,2-trifluroethane	1.05	0.96
Trichloroethylene	0.062	0.091
Trichlorofluoromethane	0.05	0.96
Xylene	0.05	0.15

GENERATOR NOTIFICATION REGARDING SHIPMENT OF WASTES

RESTRICTED FROM LAND DISPOSAL UNDER 40 CFR 268.7, 268.32 OR RCRA 3004 (d)

This notification is submitted by Scott AFB to SWF in accordance with the Land Disposal Restrictions, Final Rules. According to these final rules, generators of restricted EPA hazardous wastes must provide the following information with each shipment delivered to SWF

MANIFEST # 11 1876773 EPA HAZARDOUS WASTE NUMBERS A. D009 B. D002 C. NONE D. NONE

PROHIBITION/TREATMENT STANDARD (MG/LITER)*

WASTE CONSTITUENT	EPA CODE	MANIFEST LINE ITEM A	B	C	D	OTHER SPENT SOLVENT WASTES	MANIFEST LINE ITEM A	B	C	D	WASTEWATERS W/SOLVENTS
Acetone	F003					0.59					0.05
n-Butyl alcohol	F003					5.0					5.0
Carbon disulfide	F005					4.81					1.05
Carbon tetrachloride	F001					0.96					0.05
Chlorobenzene	F002					0.05					0.15
Cresols & cresylic acid	F004					0.75					2.82
Cyclohexanone	F003					0.75					0.125
1,2-Dichlorobenzene	F002					0.125					0.65
Ethyl acetate	F003					0.75					0.05
Ethyl benzene	F003					0.053					0.05
Ethyl ether	F003					0.75					0.05
Isobutanol	F005					5.0					5.0
Methanol	F003					0.75					0.25
Methylene chloride	F001, F002					0.96					0.20
Methylene chloride (pharmaceutical)	F001, F002					0.96					12.7
Methyl ethyl ketone	F005					0.75					0.05
Methyl isobutyl ketone	F003					0.33					0.05
Nitrobenzene	F004					0.125					0.66
Pyridine	F005					0.33					1.12
[illegible]chloroethylene	F001, F002					0.05					0.079
Toluene	F005					0.33					1.12
1,1,1-Trichloroethane	F001, F002					0.41					1.05
1,1,2-Trichloroethane	F002					0.96					1.05
Trichloroethylene	F001, F002					0.091					0.062
Trichlorofluromethane	F001, F002					0.96					0.05
Xylene	F003					0.15					0.05
Benzene/2-ethoxyethanol/ 2-nitropropane	F005										

						LIQUID WASTE CONCENTRATIONS
Cyanide liquid & sludge						1,000.00
Arsenic	D004					500.00
Cadmium	D006					100.00
Chromium	D007					500.00
Lead	D008					500.00
Mercury	D009	X				20.00
Nickel						134.00
Selenium	D010					100.00
Thallium						130.00
Liquid acids	D002		N/A			≤ 2 pH
Liquid HOC compounds App. III, section 268						1,000
Liquid PCB						50

The Generator, I certify that to the best of my knowldege that unless indicated in the above table, wastes do not qualify [illegible] all restricted wastes. An "X" indicates the waste cannot be land disposed of without prior treatment to the standard indicated.

SIGNATURE OF GENERATOR OR AUTHORIZED REPRESENTATIVE [signature] DATE 8 Dec 87

Analysis may be submitted in lieu of completing the table for restricted materials.

SUPPLEMENTAL DOCUMENT TO BLOCK J

MANIFEST # IL 1876173

	CLIN NUMBER	ITEM DESCRIPTION	# OF CONT.	VOL./WT.
	5500.	Spill Debris w/ Mercury Packed in plastic pail	1	1/16
	5500	" " " " "		216
	3700	Helicopter 1 EA = 1 gal (5 gal plastic)	1	1 EA
	"	Developer Replenisher - Part B " "		11 EA
				(12 EA = 3 gal)
	6059	Empty Containers - Bottles in Plastic bags	8	
	6059	Empty Containers - metal drums	3	165/165

CONTRACT/D.O. # [illegible]

G. W., INC.

SIGNATURE [illegible]

C.O.R.

SIGNATURE [signature]

DATE 8 Dec 87

STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL IL532-0610

2200 CHURCHILL ROAD, SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761
P.O. BOX 19275 LPC 62 8/81

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) **EPA Form 8700-22 (Rev. 9-86)** Form Approved. OMB No. 2050-0039, Expires 9-30-88

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL7570024177 | Manifest Document No.: 75605 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address: DRMO Scott AFB, Bldg. 4141 Scott AFB, Belleville, IL 62225

A. Illinois Manifest Document Number: IL 1876774

B. Illinois Generator's ID: 1630105014

4. Generator's Phone: (618) 256-3105

5. Transporter 1 Company Name: OSCO Inc.

6. US EPA ID Number: TND089558019

C. Illinois Transporter's ID: 0617

D. (615) 381-4999 Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. Illinois Transporter's ID

F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address: Special Waste Inc, 713 Legion RD, Athens, TN 37303

10. US EPA ID Number: TND034547141

G. Illinois Facility's ID: 9471070001

H. Facility's Phone: (615) 745-9222

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. "RQ", Waste Batteries, Dry Corrosive Material, NA 1813 (D002, D006)	004	DM	00022	2	EPA HW Number XXD002 Authorization Number
b. Non-regulated Waste Liquid, (Photographics)	001	DF	00003	1	EPA HW Number XXNONE Authorization Number
c. Non-regulated Waste Liquid, (Photographics)	001	DF	00003	1	EPA HW Number XXNONE Authorization Number
d. Waste Corrosive Liquid, NOS Corrosive Material, UN1760 (D002)	001	DF	00003	1	EPA HW Number XXD002 Authorization Number

J. Additional Descriptions for Materials Listed Above: Truck 0
A. 177061
B. 177070
C. 177069
D. 177068

K. Handling Codes for Wastes Listed Above In Item # 14: 1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information: Facilities hazardous waste, G.W Inc. Is the contractor for this Please route all correspondence and billing to: P.O. Box 4 Saukville, WI 53080
DLA200-87-D-0031 D.O. 0056

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; **OR**, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR

Printed/Typed Name	Signature	Date (Month Day Year)
Donna C. Fisher	Donna L. Fisher	12 08 87

TRANSPORTER

	Printed/Typed Name	Signature	Date (Month Day Year)
17. Transporter 1 Acknowledgement of Receipt of Materials	Jeffrey J. Feyereisen	Jeffrey J Feyereisen	12 08 87
18. Transporter 2 Acknowledgement of Receipt of Materials			

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.		Date (Month Day Year)
Printed/Typed Name: Mark Saunders	Signature: Mark Saunders	12 10 87

ILLINOIS: 217 / 782-3637 *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS* OUTSIDE ILLINOIS: 800 / 424-8802 or 202 / 426-2675

DISTRIBUTION: PART - 1 GENERATOR PART - 2 IEPA PART - 3 FACILITY PART - 4 TRANSPORTER PART - 5 IEPA PART - 6 GENERATOR

GENERATOR COPY — PART 1-DO NOT REMOVE PART 1 FROM SET UNTIL COMPLETED.

The Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Unit.

GENERATOR NOTIFICATION REGARDING SHIPMENT OF WASTES
RESTRICTED FROM LAND DISPOSAL UNDER 40 CFR 260.7, 268.32 OR RCRA 3004 (d)

This notification is submitted by Scott AFB to SWI in accordance with the Land Disposal Restrictions, Final Rules. According to these final rules, generators of restricted EPA hazardous wastes must provide the following information with each shipment delivered to SWF.

MANIFEST # IL 1876774 EPA HAZARDOUS WASTE NUMBERS A. D002 D006 B. NONE C. NONE D. D002

PROHIBITION/TREATMENT STANDARD (MG/LITER)*

WASTE CONSTITUENT	EPA CODE	MANIFEST LINE ITEM A	B	C	D	OTHER SPENT SOLVENT WASTES	MANIFEST LINE ITEM A	B	C	D	WASTEWATERS W/SOLVENTS
Acetone	F003					0.59					0.05
n-Butyl alcohol	F003					5.0					5.0
Carbon disulfide	F005					4.01					1.05
Carbon tetrachloride	F001					0.96					0.05
Chlorobenzene	F002					0.05					0.15
Cresols & cresylic acid	F004					0.75					2.02
Cyclohexanone	F003					0.75					0.125
1,2-Dichlorobenzene	F002					0.125					0.65
Ethyl acetate	F003					0.75					0.05
Ethyl benzene	F003					0.053					0.05
Ethyl ether	F003					0.75					0.05
Isobutanol	F005					5.0					5.0
Methanol	F003					0.75					0.25
Methylene chloride	F001, F002					0.96					0.20
Methylene chloride (pharmaceutical)	F001, F002					0.96					12.7
Methyl ethyl ketone	F005					0.75					0.05
Methyl isobutyl ketone	F003					0.33					0.05
Nitrobenzene	F004					0.125					0.66
Pyridine	F005					0.33					1.12
Tetrachloroethylene	F001, F002					0.05					0.079
Toluene	F005					0.33					1.12
1,1,1-Trichloroethane	F001, F002					0.41					1.05
1,1,2-Trichloroethane	F002					0.96					1.05
Trichloroethylene	F001, F002					0.091					0.062
Trichlorofluoromethane	F001, F002					0.96					0.05
Xylene	F003					0.15					0.05
Benzene/2-ethoxyethanol/ 2-nitropropane	F005										
						LIQUID WASTE CONCENTRATIONS					
Cyanide liquid & sludge						1,000.00					
Arsenic	D004					500.00					
Cadmium	D006					100.00					
Chromium	D007					500.00					
Lead	D008					500.00					
Mercury	D009					20.00					
Nickel						134.00					
Selenium	D010					100.00					
Thallium						130.00					
Liquid acids	D002	N/A			✓	≤ 2 pH					
Liquid HOC compounds per App. III, section 268						1,000					
Liquid PCB						50					

I the Generator, I certify that to the best of my knowledge that unless indicated in the above table, wastes do not qualify as landfill restricted wastes. An "X" indicates the waste cannot be land disposed of without prior treatment to the standard indicated.

SIGNATURE OF GENERATOR OR AUTHORIZED REPRESENTATIVE Donna J. Tibbs DATE 8 Dec 87

Analysis may be submitted in lieu of completing the table for restricted materials.

SUPPLEMENTAL DOCUMENT TO BLOCK J

MANIFEST # IL 1876774

F. E M	CLIN NUMBER	ITEM DESCRIPTION	# OF CONT.	VOL./WT.
	0503	Ni cad Batteries		2320 lbs
	0503	Ni cad Batteries		160 lbs
	0503	Ni cad Batteries		2 lbs
	0503	Ni cad Batteries		12 lbs
	0503	Ni cad Batteries		38 lbs
	0503	Ni cad Batteries.		12 lbs
		Shipped in metal 55's	4	Total = 2,544
3	3700	Developer/Replenisher (5gal plastic) Part A 11EA=3gal	1	11 EA
	"	" " " " Part B 11EA=3gal	1	11 EA
D	"	" " " " Part C 11EA=3gal	1	11 EA

CONTRACT/D.O. # DLA200-87-D-0031 D.O. 0056

G. W., INC.

SIGNATURE [signature]

DATE 2 Dec 87

C.O.R.

SIGNATURE [signature]

DATE 8 Dec 87

Notification

Manifest No. IL1876774

This notification is provided IAW 40 CFR Part 268.7(a)(1). The above numbered manifest includes the following wastes which are prohibited from land disposal (except in injection wells) unless an exemption has been granted pursuant to a petition under Part 268.6 or the applicable treatment standards have been met. Treatment standards for prohibited waste are given at attachment 1.

Waste Stream	EPA Number
Corrosive Liquid, UN1760	D002

Nothing in this notification shall be interpreted to permit or authorize any method of treatment and/or disposal other than in accordance with the applicable disposal contract.

INSTRUCTIONS:

1. Fill in corresponding manifest number.
2. Fill in name of waste and EPA number.
3. Sign and date from below.
4. Attach Treatment Standards (attachment 1).
5. Attach waste analysis data, where available.
6. Retain one copy with the manifest.

Donna L Fisher	Donna L. Fisher	8 Dec 87
Printed/Typed Name	Signature	Date

Encl

Attachment 1
Treatment Standards

Waste	Treatment Standard
Solvents:	
F001-F005 solvents containing greater than 1 percent by weight total organic constituents.	See table on pg: 2
California Wastes:	
(1) Liquid hazardous waste having a pH $\leq$ 2.0.	None
(2) Liquid hazardous waste containing PCBs $\geq$ 50 ppm.	Incineration
(3) Liquid hazardous wastes that are primarily water and contain HOCs in total concentration $\geq$ 1000 mg/l and 10,000 mg/l*.	None
(4) Liquid hazardous waste containing free cyanides at concentrations $\geq$ 1000 mg/l.	None
(5) Liquid hazardous waste containing metals at concentrations $\geq$ those specified below:	None

Arsenic (AS	500 mg/l
Cadmium (Cd)	100 mg/l
Chromium VI (CrVI)	500 mg/l
Lead (Pb)	500 mg/l
Mercury (Hg)	20 mg/l
Nickel (Ni)	134 mg/l
Selenium (Se)	100 mg/l
Thorium (Th)	130 mg/l

*NOTE: Until 8 Jul 89, liquid (except wastewater) and nonliquid hazardous waste containing HOCs in total concentration $\geq$ 1000 mg/l may be disposed in a landfill or surface impoundment only if the facility is in compliance with the requirements of 40 CFR 268.5(h)(2). After that date, they must be incinerated.

Table - Treatment Standards for Solvents:

F001-F005 spent solvents	Concentration (in mg/l)	
	Wastewaters containing spent solvents	All other spent solvent wastes
Acetone	0.05	0.59
n-Butyl alcohol	5.0	5.0
Carbon disulfide	1.05	4.81
Carbon tetrachloride	.05	.96
Chlorobenzene	.15	.05
Cresols (and cresylic acid)	2.82	.75
Cyclohexanone	.125	.75
1,2-dichlorobenzene	.65	.125
Ethyl acetate	.05	.75
Ethyle benzene	.05	.053
Ethyl ether	.05	.75
Isobutanol	5.0	5.0
Methanol	.25	.75
Methylene chloride	.20	.96
Methylene chloride (from the pharmaceutical industry)	12.7	.96
Methyl ethyl ketone	0.05	0.75
Methyl isobutyl ketone	0.05	0.33
Nitrobenzene	0.66	0.125
Pyridine	1.12	0.33
Tetrachloroethylene	0.079	0.05
Toluene	1.12	0.33
1,1,1-Trichloroethane	1.05	0.41
1,2,2-Trichloro-1,2,2-trifluroethane	1.05	0.96
Trichloroethylene	0.062	0.091
Trichlorofluoromethane	0.05	0.96
Xylene	0.05	0.15

STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

2200 CHURCHILL ROAD, SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761
P.O. BOX 19275

IL532-0610
LPC 62 8/81

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) **EPA Form 8700-22 (Rev. 9-86)** Form Approved. OMB No. 2050-0039, Expires 9-30-88

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: IL7570024177 | Manifest Document No.: 75604 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address: DRMO Scott AFB, BLDG 4141 Scott AFB, Belleville, IL 62225

4. Generator's Phone (618) 256-3105

A. Illinois Manifest Document Number: 1876769

B. Illinois Generator's ID: 1630105014

5. Transporter 1 Company Name: OSCO Inc | 6. US EPA ID Number: TND089558019 | C. Illinois Transporter's ID: 0617 | D. (615) 381-4999 Transporter's Phone

7. Transporter 2 Company Name | 8. US EPA ID Number | E. Illinois Transporter's ID | F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address: Special Waste Inc. 1713 Legion Rd. Athens, TN 37303 | 10. US EPA ID Number: TND034547141 | G. Illinois Facility's ID: 9471070001 | H. Facility's Phone: (615) 745-9222

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. Waste Corrosive Liquid, NOS Corrosive Liquid, UN1760 (D002)	001	DF	00005	1	EPA HW Number XXD002 Authorization Number
b. Waste Corrosive Liquid, NOS Corrosive Liquid, UN1760 (D002)	001	DF	00001	1	EPA HW Number XXD002 Authorization Number
c. Waste Corrosive Liquid, NOS Corrosive Liquid, UN1760 (D002)	001	DF	00001	1	EPA HW Number XXD002 Authorization Number
d. "RQ" 100 Waste Petroleum NAPTHA Combustible Liquid, UN1255 (D001)	002	DM	00110	1	EPA HW Number XXD001 Authorization Number

J. Additional Descriptions for Materials Listed Above: Truck 0
A 177050
B 177039
C 177040
D 177072

K. Handling Codes for Wastes Listed Above In Item # 14: 1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information: G.W Inc. Is the contractor for this Facilities hazardous waste. Please route all correspondence and billing to: G.W Inc. P.O. Box A Saukville, WI 53080 D.O. 0056 DLA200-87-D-0031

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; **OR**, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR — Printed/Typed Name: Donna L Fisher | Signature: Donna L Fisher | Date: Month 12 Day 08 Year 87

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials — Printed/Typed Name: Jeffrey Feyereisen | Signature: Jeffrey Feyereisen | Date: Month 12 Day 08 Year 87

18. Transporter 2 Acknowledgement of Receipt of Materials — Printed/Typed Name | Signature | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. — Printed/Typed Name: Mark Saunders | Signature: Mark Saunders | Date: Month 12 Day 10 Year 87

ILLINOIS: 217 / 782-3637 *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS* OUTSIDE ILLINOIS: 800 / 424-8802 or 202 / 426-2675

DISTRIBUTION: PART - 1 GENERATOR PART - 2 IEPA PART - 3 FACILITY PART - 4 TRANSPORTER PART - 5 IEPA PART - 6 GENERATOR

GENERATOR COPY — PART 1-DO NOT REMOVE PART 1 FROM THIS COPY UNTIL COMPLETED.

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day or imprisonment up to 5 years. This form has been approved by the Forms Management Center.

Table - Treatment Standards for Solvents:

F001-F005 spent solvents	Concentration (in mg/l)	
	Wastewaters containing spent solvents	All other spent solvent wastes
Acetone	0.05	0.59
n-Butyl alcohol	5.0	5.0
Carbon disulfide	1.05	4.81
Carbon tetrachloride	.05	.96
Chlorobenzene	.15	.05
Cresols (and cresylic acid)	2.82	.75
Cyclohexanone	.125	.75
1,2-dichlorobenzene	.65	.125
Ethyl acetate	.05	.75
Ethyle benzene	.05	.053
Ethyl ether	.05	.75
Isobutanol	5.0	5.0
Methanol	.25	.75
Methylene chloride	.20	.96
Methylene chloride (from the pharmaceutical industry)	12.7	.96
Methyl ethyl ketone	0.05	0.75
Methyl isobutyl ketone	0.05	0.33
Nitrobenzene	0.66	0.125
Pyridine	1.12	0.33
Tetrachloroethylene	0.079	0.05
Toluene	1.12	0.33
1,1,1-Trichloroethane	1.05	0.41
1,2,2-Trichloro-1,2,2-trifluroethane	1.05	0.96
Trichloroethylene	0.062	0.091
Trichlorofluoromethane	0.05	0.96
Xylene	0.05	0.15

Attachment 1
Treatment Standards

Waste	Treatment Standard
Solvents:	
F001-F005 solvents containing greater than 1 percent by weight total organic constituents.	See table on pg. 2
California Wastes:	
(1) Liquid hazardous waste having a pH $\leq$ 2.0.	None
(2) Liquid hazardous waste containing PCBs $\geq$ 50 ppm.	Incineration
(3) Liquid hazardous wastes that are primarily water and contain HOCs in total concentration $\geq$ 1000 mg/l and 10,000 mg/l*.	None
(4) Liquid hazardous waste containing free cyanides at concentrations $\geq$ 1000 mg/l.	None
(5) Liquid hazardous waste containing metals at concentrations $\geq$ those specified below:	None

Arsenic (AS	500 mg/l
Cadmium (Cd)	100 mg/l
Chromium VI (CrVI)	500 mg/l
Lead (Pb)	500 mg/l
Mercury (Hg)	20 mg/l
Nickel (Ni)	134 mg/l
Selenium (Se)	100 mg/l
Thorium (Th)	130 mg/l

*NOTE: Until 8 Jul 89, liquid (except wastewater) and nonliquid hazardous waste containing HOCs in total concentration $\geq$ 1000 mg/l may be disposed in a landfill or surface impoundment only if the facility is in compliance with the requirements of 40 CFR 268.5(h)(2). After that date, they must be incinerated.

Notification

Manifest No. IL 1876769

This notification is provided IAW 40 CFR Part 268.7(a)(1). The above numbered manifest includes the following wastes which are prohibited from land disposal (except in injection wells) unless an exemption has been granted pursuant to a petition under Part 268.6 or the applicable treatment standards have been met. Treatment standards for prohibited waste are given at attachment 1.

Waste Stream	EPA Number
Corrosive Liquid, UN 1760	D002.

Nothing in this notification shall be interpreted to permit or authorize any method of treatment and/or disposal other than in accordance with the applicable disposal contract.

INSTRUCTIONS:

1. Fill in corresponding manifest number.
2. Fill in name of waste and EPA number.
3. Sign and date from below.
4. Attach Treatment Standards (attachment 1).
5. Attach waste analysis data, where available.
6. Retain one copy with the manifest.

Printed/Typed Name: Dennis Fisher

Signature: [signature]

Date: 8 Dec 87

End

GENERATOR NOTIFICATION REGARDING SHIPMENT OF WASTES RESTRICTED FROM LAND DISPOSAL UNDER 40 CFR 260.7, 268.32 OR RCRA 3004 (d)

This notification is submitted by Scott PCB to Special Waste Inc. in accordance with the Land Disposal Restrictions, Final Rules. According to these final rules, generators of restricted EPA hazard wastes must provide the following information with each shipment delivered to Special Waste Inc.

MANIFEST # IL-1876769 EPA HAZARDOUS WASTE NUMBERS A. D002 B. D002 C. D002 D. D001

PROHIBITION/TREATMENT STANDARD (MG/LITER)*

WASTE CONSTITUENT	EPA CODE	MANIFEST LINE ITEM A	B	C	D	OTHER SPENT SOLVENT WASTES	MANIFEST LINE ITEM A	B	C	D	WASTEWATERS W/SOLVENT
Acetone	F007					0.59					0.05
n-Butyl alcohol	F003					5.0					5.0
Carbon disulfide	F005					4.01					1.05
Carbon tetrachloride	F001					0.96					0.05
Chlorobenzene	F002					0.05					0.15
Cresols & cresylic acid	F004					0.75					2.02
Cyclohexanone	F003					0.75					0.125
1,2-Dichlorobenzene	F002					0.125					0.65
Ethyl acetate	F003					0.75					0.05
Ethyl benzene	F003					0.053					0.05
Ethyl ether	F003					0.75					0.05
Isobutanol	F005					5.0					5.0
Methanol	F003					0.75					0.25
Methylene chloride	F001, F002					0.96					0.20
Methylene chloride (pharmaceutical)	F001, F002					0.96					12.7
Methyl ethyl ketone	F005					0.75					0.05
Methyl isobutyl ketone	F003					0.33					0.05
Nitrobenzene	F004					0.125					0.66
Pyridine	F005					0.33					1.12
Tetrachloroethylene	F001, F002					0.05					0.079
Toluene	F005					0.33					1.12
1,1,1-Trichloroethane	F001, F002					0.41					1.05
1,1,2-Trichloroethane	F002					0.96					1.05
Trichloroethylene	F001, F002					0.091					0.062
Trichlorofluoromethane	F001, F002					0.96					0.05
Xylene	F003					0.15					0.05
Benzene/2-ethoxyethanol/ 2-nitropropane	F005										
						LIQUID WASTE CONCENTRATIONS					
Cyanide liquid & sludge						1,000.00					
Arsenic	D004					500.00					
Cadmium	D006					100.00					
Chromium	D007					500.00					
Lead	D008					500.00					
Mercury	D009					20.00					
Nickel						134.00					
Selenium	D010					100.00					
Thallium						130.00					
Liquid acids	D002	N/A	N/A	X		≤ 2 pH					
Liquid HOC compounds per App. III, section 268						1,000					
Liquid PCB						50					

As the Generator, I certify that to the best of my knowledge that unless indicated in the above table, wastes do not qualify as landfill restricted wastes. An "X" indicates the waste cannot be land disposed of without prior treatment to the standard indicated.

SIGNATURE OF GENERATOR OR AUTHORIZED REPRESENTATIVE Robert J. Fisher DATE 8 Dec 87

Analysis may be submitted in lieu of completing the table for restricted materials.

SUPPLEMENTAL DOCUMENT TO BLOCK J

MANIFEST # IL5176169

F. E M	CLIN NUMBER	ITEM DESCRIPTION	# OF CONT.	VOL./WT.
1	3700	Stabilizer - Sodium Hydroxide 5 EA = 5 gal (plastic pail)	1	5 EA
B+C	3700	Dioxin - (2-1gal pail) Line B = Parts A+D Line C = Parts B+C	2	16 EA
D	3705	Blanket Conditioner		55 gal
	1201	Container - 55 gal	1	
	3705	Blanket Conditioner		55 gal
	1201	Container - 55 gal	1	

CONTRACT/D.O. # DAAA09-87-D-0031 D.O. 0056

G. W., INC.

SIGNATURE [signature]

DATE 12-3-87

C.O.R.

SIGNATURE

DATE

STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

2200 CHURCHILL ROAD, SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761
P.O. BOX 19275

IL532-0610
LPC 62 8/81

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) **EPA Form 8700-22 (Rev. 9-86)** Form Approved. OMB No. 2050-0039, Expires 9-30-88

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. IL7570024177 — Manifest Document No. 75602
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address: DRMO Scott AFB, Bldg. 4141 Scott AFB, Belleville, IL 62225
4. Generator's Phone (618) 256-3105

A. Illinois Manifest Document Number: IL 1876768
B. Illinois Generator's ID: 1630105014

5. Transporter 1 Company Name: OSCO Inc. — 6. US EPA ID Number: TND089559019
C. Illinois Transporter's ID: 0617
D. (615) 381-4999 Transporter's Phone

7. Transporter 2 Company Name — 8. US EPA ID Number
E. Illinois Transporter's ID
F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address: Special Waste Inc., 178 Legion Rd., Athens, TN 37303 — 10. US EPA ID Number: TND034547141
G. Illinois Facility's ID: 9471070001
H. Facility's Phone: (615) 745-9222

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. "RQ" 100 Waste Combustible Liquid, NOS Combustible Liquid, NA1993 (D001)	001	DM	00055	1	EPA HW Number XXD001 Authorization Number
b. Waste Lithium Batteries ORM-C (D003)	001	DM	00001	2	EPA HW Number XXD003 Authorization Number
c. Non-Regulated ~~Waste~~ Liquid (Photographics)	001	DM	00060	1	EPA HW Number XXNONE Authorization Number
d. "RQ" 100 Waste Flammable Solid, NOS Flammable Solid, UN1325 (D001)	002	DM	00001	2	EPA HW Number XXD001 Authorization Number

J. Additional Descriptions for Materials Listed Above: Truck 0
A 177025
B 177021 1yd = 90lbs.
C 177071
D 177024 1yd = 210 lbs

K. Handling Codes for Wastes Listed Above In Item # 14: 1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information: G.W Inc is the contractor for this Facilities hazardous waste. Please route all correspondence and billing to: P.O. Box A Saukville, WI 53080
DLA200-87-D-0031 D.O. 0056

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; **OR**, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR — Printed/Typed Name: Donna L Fisher — Signature: Donna L. Fisher — Date (Month Day Year): 12887

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials — Printed/Typed Name: Jeffrey J Feyereisen — Signature: Jeffrey J Feyereisen — Date: 120887

18. Transporter 2 Acknowledgement of Receipt of Materials — Printed/Typed Name — Signature — Date

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. — Printed/Typed Name: Mark Saunders — Signature: Mark Saunders — Date: 121087

NOIS: 217 / 782-3637 *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS* OUTSIDE ILLINOIS: 800 / 424-8802 or 202 / 426-2675

IBUTION: PART - 1 GENERATOR PART - 2 IEPA PART - 3 FACILITY PART - 4 TRANSPORTER PART - 5 IEPA PART - 6 GENERATOR

GENERATOR COPY — PART 1-DO NOT REMOVE PART 1 FROM SET UNTIL COMPLETED.

...is Agency is authorized to require pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner ...perator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management ...ter.

SUPPLEMENTAL DOCUMENT TO BLOCK J

MANIFEST # IL 1876768

CLIN NUMBER	ITEM DESCRIPTION	# OF CONT.	VOL./WT.
1656	[illegible] / surface active agents		55 gal
1201	Container (1-85 gal overpack - 55 inside)	1	
0501	Lithium Batteries		2 lbs
0501	"		2 lbs
0501	"		2 lbs
0501	" "		2 lbs
0501	"		82 lbs
—	Packed in Metal 55	1	Total 90 lbs
3705	Conditioner Bath		60 gal
1201	Container (55 gal overpack)	1	
5500	Spill Residue		110 lbs
1201	Container (85 gal overpack)	1	
5500	Spill Residue		100 lbs
1201	Container (85 gal overpack)	1	

CONTRACT/D.O. # DLA 200-87-D-0031 D.O. 0056

G. W., INC.

ATURE [illegible]

C.O.R.

SIGNATURE Donna L. Fisher

DATE 8 Dec 87

GENERATOR NOTIFICATION REGARDING SHIPMENT OF WASTES

RESTRICTED FROM LAND DISPOSAL UNDER 40 CFR 268.7, 268.32 OR RCRA 3004 (d)

This notification is submitted by Scott AFB to Special Waste Inc in accordance with the Land Disposal Restrictions, Final Rules. According to these final rules, generators of restricted EPA hazardo wastes must provide the following information with each shipment delivered to Special Waste Inc

MANIFEST # IL 1876768 EPA HAZARDOUS WASTE NUMBERS A. D001 B. D003 C. NONE D. D001

PROHIBITION/TREATMENT STADARD (MG/LITER)*

WASTE CONSTITUENT	EPA CODE	MANIFEST LINE ITEM A	B	C	D	OTHER SPENT SOLVENT WASTES	MANIFEST LINE ITEM A	B	C	D	WASTEWATERS W/SOLVENTS
Acetone	F003					0.59					0.05
n-Butyl alcohol	F003					5.0					5.0
Carbon disulfide	F005					4.01					1.05
Carbon tetrachloride	F001					0.96					0.05
Chlorobenzene	F002					0.05					0.15
Cresols & cresylic acid	F004					0.75					2.02
Cyclohexanone	F003					0.75					0.125
1,2-Dichlorobenzene	F002					0.125					0.65
Ethyl acetate	F003					0.75					0.05
Ethyl benzene	F003					0.053					0.05
Ethyl ether	F003					0.75					0.05
Isobutanol	F005					5.0					5.0
Methanol	F003					0.75					0.25
Methylene chloride	F001, F002					0.96					0.20
Methylene chloride (pharmaceutical)	F001, F002					0.96					12.7
Methyl ethyl ketone	F005					0.75					0.05
Methyl isobutyl ketone	F003					0.33					0.05
Nitrobenzene	F004					0.125					0.66
Pyridine	F005					0.33					1.12
Tetrachloroethylene	F001, F002					0.05					0.079
Toluene	F005					0.33					1.12
1,1,1-Trichloroethane	F001, F002					0.41					1.05
1,1,2-Trichloroethane	F002					0.96					1.05
Trichloroethylene	F001, F002					0.091					0.062
Trichlorofluromethane	F001, F002					0.96					0.05
Xylene	F003					0.15					0.05
Benzene/2-ethoxyethanol/ 2-nitropropane	F005										

						LIQUID WASTE CONCENTRATIONS
Cyanide liquid & sludge						1,000.00
Arsenic	D004					500.00
Cadmium	D006					100.00
Chromium	D007					500.00
Lead	D008					500.00
Mercury	D009					20.00
Nickel						134.00
Selenium	D010					100.00
Thallium						130.00
Liquid acids	D002					≤ 2 pH
Liquid HOC compounds per App. III, section 268						1,000
Liquid PCB						50

N/A

As the Generator, I certify that to the best of my knowldege that unless indicated in the above table, wastes do not qualify landfill restricted wastes. An "X" indicates the waste cannot be land disposed of without prior treatment to the standard indicated.

SIGNATURE OF GENERATOR OR AUTHORIZED REPRESENTATIVE Donna Y Fisher DATE 8 Dec 87

* Analysis may be submitted in lieu of completing the table for restricted materials.

DLA

#0056

DELIVERY ORDER INVENTORY (NON PCB)

PICKUP REPORT

GENERATOR: Scott AFB	EPA NUMBER: IL7570024177	AWARDED CONTRACT NUMBER: DLA200-87-D-0031
COMPLETE ADDRESS: Scott AFB IL	DRMO: Scott	SHADED PORTIONS TO BE COMPLETED BY CONTRACTING OFFICE
COR: Donna Fisher	PICKUP LOCATION: DRMO Scott Bldg 1411 SAFB IL	CONTRACT NUMBER: DLA200-87-D-0031 / DELIVERY ORDER NUMBER: DO 0056
COMMERCIAL PHONE NUMBER: 618-256-3105/4497	AUTOVON PHONE NUMBER: AV 576-3105/4497	AUTHORIZED TRANSPORTER NAME: OSCO Inc / EPA NUMBER: TND089538019
GENERATOR REQUEST NUMBER: DRMO-87-S-008	RIC CODE: 5VM.	TSDF NAME: Special Waste Inc / EPA NUMBER: TND003454141
DATE SENT TO CONTRACTING: 6 Nov 87	DATE RECEIVED BY CONTRACTING	AUTHORIZED TRANSPORTER SIGNATURE: Michael J. Zielinski
		AUTHORIZED CONTRACTING OFFICERS REPRESENTATIVE (COR): Donna L. Fisher

1 CLIN	2 SUFFIX		3 NSN / LSN	4 QTID DODAAC	DATE	SERIAL	5 ITEM NAME US DOT DESCRIPTION	6 STORAGE CONTAINER / DRUM NUMBER	7 STORAGE LOCATION	8 QUANTITY	9 UNIT	10 PRICE	11 AMOUNT	12 EPA WASTE CODE	13 PICKED UP QUANTITY	UNIT	14 PICKUP MANIFEST NUMBER / LINE CODE	15 DATE PICKED UP DDMMYY
3700	A	D	6750-00 STABILI	SX1365	7304	0001	Stabilizer ✓	5-EA 1 ql	E Bldg	5	EA	15.00	75.00	D001	5	EA	IL1876769 H	12-8-87
3700	A	E	6750-00 ACTI	SX1365	7309	0002	Activator ✓	1-EA 3-DT BT 11-KTS	E-Bldg	1	EA	15.00	15.00	D001	1	EA	IL1876773 B	
*3700	A	F	6750-01-D016-0159	FB4407	6353	0101	Developer/Replenisher		E-Bldg	44	EA	15.00	660.00	See Below	44	EA	IL1876774 IL1876773	
3700	A	G	6250-00 Develop	SX1365	7202	0001	Developer ✓	4-KT	"	16	EA	15.00	240.00	D001	16	EA	IL1876769-B IL1876769-C	
5500	A	G	6505-00 128-3005	FM4407	7069	0001	Spill Debri contaminated w/ mercury ✓	1-EA	Security Cage	2	lb	1.00	2.00	D001	2	LB	IL1876773 A	
3705	A	J	6850-00 CONDIT	FB7021	6181	0180	Blanket Conditioner ✓	1-EA 55 gl DC	Sales Holding Area	55	gl	4.00	220.00	D001	55	GL	IL1876769 D	
1201	A	W	8110-DRUM				CONTAINER for item #6	"	"	55	lb	NC	NC	—	55	LB		
3705	A	K	6850-00 CONDIT	FB7021	6181	0179	Blanket Conditioner ✓	"	"	55	gl	4.00	220.00	D001	55	GL		
1201	A	X	8110-DRUM				CONTAINER for item #7	"	"	55	lb	NC	NC	—	55	LB	↓	
6089	A	D	8110-00 CONTAIN	SX1365	7304	0003	Empty Containers Previously Contained HAZ ✓	PLASTIC BAGS	E-Bldg	187	lb	.20	37.40	[illegible]	[illegible]	LB	IL1876773 C	
0503	A	A	6140-00-BATT	SX1365	7301	0001	Ni-Cad Batteries ✓	2320 lbs Wooden Crate	Const Area	2320	lb	3.00	6960.00	[illegible]	2320	LB	IL1876774 A	
0503	A	B	6140-01-131-9696	FB4407	7169	0034A	" ✓	Wooden Crate	"	160	lb	3.00	480.00		[illegible]	LB		
0503	A	C	"	FB4407	7169	0034	" ✓	"	"	2	lb	3.00	6.00		2	LB		
~~0504~~ 0503	A	A	6140-01-032-3938	F420EE	6301	0001	NICAD ~~Mercury~~ Batteries ✓	"	"	12	lb	3.00	36.00		2	LB	↓	✓

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(SEE REVERSE FOR ADDITIONAL REMARKS IF APPLICABLE)

Developer / Replenisher Part A IL1876774 – B NONE
Part B IL1876774 – C NONE
IL1876774 – D NONE

DCA

#0056

DELIVERY ORDER INVENTORY (NON PCB)

PICKUP REPORT

GENERATOR: Scott AFB	EPA NUMBER: IL7570024177	AWARDED CONTRACT NUMBER: DLA200-87-D-0031	SHADED PORTIONS TO BE COMPLETED BY CONTRACTING OFFICE
COMPLETE ADDRESS: Scott AFB IL	DRMO: Scott	CONTRACT NUMBER: DLA200-87-D-0031	DELIVERY ORDER NUMBER: D.O. 0056
COR: Donna Fisher	PICKUP LOCATION: DRMO Scott, Bldg 4141, SAFB IL	AUTHORIZED TRANSPORTER NAME: OSCO Inc	EPA NUMBER: TND089558019
COMMERCIAL PHONE NUMBER: 618-256-3105/4497	AUTOVON PHONE NUMBER: AV 576-3105/4497	TSDF NAME: Chemical Waste Inc.	EPA NUMBER: TND034547141
GENERATOR REQUEST NUMBER: DRMO-87-S-008	RIC CODE: SVM	AUTHORIZED TRANSPORTER SIGNATURE: Michael T. Zielinski	
DATE SENT TO CONTRACTING: 6 NOV 87	DATE RECEIVED BY CONTRACTING	AUTHORIZED CONTRACTING OFFICERS REPRESENTATIVE (COR): Donna L. Fisher	

1 CLIN	2 SUFFIX		3 NSN / LSN	4 DTID: DODAAC	DTID: DATE	DTID: SERIAL	5 ITEM NAME / US DOT DESCRIPTION	6 STORAGE CONTAINER / DRUM NUMBER	7 STORAGE LOCATION	8 QUANTITY	9 UNIT	10 PRICE	11 AMOUNT	12 EPA WASTE CODE	13 PICKED UP: QUANTITY	PICKED UP: UNIT	14 PICKUP MANIFEST NUMBER / LINE CODE	15 DATE PICKED UP DDMMYY
~~0503~~ 0504	A	B	6140-01-032-3938	F42DEE	6322	0001	~~Alkaline~~ NiCad Batteries	Gaylord Crate	Const Area	38	lb	3.00	114.00	D001 D002	35	LB	IL1376774 P	12-8-87
~~0503~~ 0504	1	C	637-6794	F42DEE	6301	0002	" "	"	"	12	lb	3.00	36.00	"	"	LB	↓	↓

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(SEE REVERSE FOR ADDITIONAL REMARKS IF APPLICABLE)

Air Force

#0056

DELIVERY ORDER INVENTORY (NON PCB)

GENERATOR: Scott AFB
EPA NUMBER: IL 7570024177
AWARDED CONTRACT NUMBER: DLA 200-87-D-0031
COMPLETE ADDRESS: Scott AFB, IL
ORMO: Scott
COR: Donna L. Fisher
PICKUP LOCATION: Aqua Yard
COMMERCIAL PHONE NUMBER: 618-256-3105/4497
AUTOVON PHONE NUMBER: AV 576-3105/4497
GENERATOR REQUEST NUMBER: DRMO-S-87-008
RIC CODE: SVM
DATE SENT TO CONTRACTING: 6 Nov 87
DATE RECEIVED BY CONTRACTING:

PICKUP REPORT

SHADED PORTIONS TO BE COMPLETED BY CONTRACTING OFFICE

CONTRACT NUMBER: DLA 200-87-D-0031
DELIVERY ORDER NUMBER: D.O. 0056
AUTHORIZED TRANSPORTER NAME: OSCO Inc
EPA NUMBER: TN0089558019
TSDF NAME: Special Waste Inc.
EPA NUMBER: TN0034547141
AUTHORIZED TRANSPORTER SIGNATURE: Michael A. Zielinski
AUTHORIZED CONTRACTING OFFICERS REPRESENTATIVE (COR)

1 CLIN	2 SUFFIX		3 NSN / LSN	4 DTIO DODAAC	DTIO DATE	DTIO SERIAL	5 ITEM NAME US DOT DESCRIPTION	6 STORAGE CONTAINER DRUM NUMBER	7 STORAGE LOCATION	8 QUANTITY	9 UNIT	10 PRICE	11 AMOUNT	12 EPA WASTE CODE	13 PICKED UP QUANTITY	PICKED UP UNIT	14 PICKUP MANIFEST NUMBER LINE CODE	15 DATE PICKED UP DDMMYY
6089	A	C	8110-00-DRUM	F4814G	7301	0005	HZ Drums	3-EA 55 gal	Aquayard	165	lb	.20	33.00	NONE	165	LB	EUS76773 D	12-8-87

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(SEE REVERSE FOR ADDITIONAL REMARKS IF APPLICABLE)

DCA

DELIVERY ORDER INVENTORY (NON PCB)

PICKUP REPORT

GENERATOR: Scott AFB	EPA NUMBER: IL7570024177	AWARDED CONTRACT NUMBER: DA200-87-D-0031	SHADED PORTIONS TO BE COMPLETED BY CONTRACTING OFFICE
COMPLETE ADDRESS: Scott AFB IL	DRMO: Scott		CONTRACT NUMBER / DELIVERY ORDER NUMBER
COR: Donna Fisher	PICKUP LOCATION: DRMO Scott Bldg 4141, SAFB IL		AUTHORIZED TRANSPORTER NAME / EPA NUMBER
COMMERCIAL PHONE NUMBER: 618-256-3105/4497	AUTOVON PHONE NUMBER: AV 576-3105/4497		TSDF NAME / EPA NUMBER
GENERATOR REQUEST NUMBER: DRMO-87-S-C05	RIC CODE: SVM		AUTHORIZED TRANSPORTER SIGNATURE
DATE SENT TO CONTRACTING: 6 NOV 87	DATE RECEIVED BY CONTRACTING		AUTHORIZED CONTRACTING OFFICERS REPRESENTATIVE (COR)

1 CLIN	2 SUFFIX		3 NSN / LSN	4 DTID: DODAAC	DATE	SERIAL	5 ITEM NAME US DOT DESCRIPTION	6 STORAGE CONTAINER / DRUM NUMBER	7 STORAGE LOCATION	8 QUANTITY	9 UNIT	10 PRICE	11 AMOUNT	12 EPA WASTE CODE	13 PICKED UP: QUANTITY	UNIT	14 PICKUP MANIFEST NUMBER / LINE CODE	15 DATE PICKED UP DDMMYY
0504	P	P	6140-01-032-3938	F420EE	6322	0001	Mercury Batteries	Wooden Crate	Conex Area	38	lb							
0504	P	P	6140-01-037-6794	F420EE	6301	0002	" "	"	"	12	lb							

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(SEE REVERSE FOR ADDITIONAL REMARKS IF APPLICABLE)

PAGE OF

DLA

DELIVERY ORDER INVENTORY (NON PCB)

PICKUP REPORT

GENERATOR: Scott AFB	EPA NUMBER: IL7570024177	AWARDED CONTRACT NUMBER: DLA900-87-D-0083,
COMPLETE ADDRESS: Scott AFB IL	DRMO: Scott	SHADED PORTIONS TO BE COMPLETED BY CONTRACTING OFFICE
COR: Donna Fisher	PICKUP LOCATION: DRMO Scott Bldg 414 SAFB IL	CONTRACT NUMBER / DELIVERY ORDER NUMBER
COMMERCIAL PHONE NUMBER: 618-256-3105/4497	AUTOVON PHONE NUMBER: AV 576-3105/4497	AUTHORIZED TRANSPORTER NAME / EPA NUMBER
GENERATOR REQUEST NUMBER: DRMO-87-S-008	RIC CODE: SVM	TSDF NAME / EPA NUMBER
DATE SENT TO CONTRACTING: 6 NOV 87	DATE RECEIVED BY CONTRACTING	AUTHORIZED TRANSPORTER SIGNATURE
		AUTHORIZED CONTRACTING OFFICERS REPRESENTATIVE (COR)

1 CLIN	2 SUFFIX		3 NSN / LSN	4 DTID DODAAC	DTID DATE	DTID SERIAL	5 ITEM NAME US DOT DESCRIPTION	6 STORAGE CONTAINER / DRUM NUMBER	7 STORAGE LOCATION	8 QUANTITY	9 UNIT	10 PRICE	11 AMOUNT	12 EPA WASTE CODE	13 PICKED UP QUANTITY	13 PICKED UP UNIT	14 PICKUP MANIFEST NUMBER / LINE CODE	15 DATE PICKED UP DDMMYY
3700	A	D	6750-00 STABILI	SX1365	7304	0001	Stabilizer	5-EA 1 ql	E Bldg	5	EA							
3700	A	E	6750-00 ACTI	SX1365	7304	0002	Activator	1-EA 3-QT BT	E-Bldg	1	EA							
3700	A	F	6750-01-260-0159	FB4407	6353	0101	Developer/Replenisher	11-KTS	E-Bldg	44	EA							
3700	A	G	6250-00 DEVELOP	SX1365	7292	0001	Developer	4-KT	"	16	EA							
6 5500	A	G	6505-00 128-3005	FM4407	7069	0001	Spill Debri contaminated w/ mercury	1-EA	Security Cage	2	lb	- 5604 -						
3705	A	J	6850-00 CONDIT	FB7021	6181	0180	Blanket Conditioner	1-EA 55 ql Dr	Sales Holding Area	55	ql							
1201	A	W	8110-Drum				CONTAINER for item #6	"	"	55	lb							
3705	A	K	6850 00 CONDIT	FB7021	6181	0179	Blanket Conditioner	"	"	55	ql							
1201	A	X	8110-DRUM				CONTAINER for item #7	"	"	55	lb							
6089	A	D	8110-00 CONTAIN	SX1365	7304	0003	Empty Containers Previously Contained HM	Plastic BAGS	E Bldg	187	lb.							
0503	A	A	6140-00-BATT	SX1365	7301	0001	Ni-Cad Batteries	2320 lbs Welded Crate	Const Area	2320	lb.							
0503	A	B	6140-01-131-9696	FB4407	7169	0034A	"	Welded Crate	"	160	lb							
0503	A	C	"	FB4407	7169	0034	"	"	"	2	lb							
0504	A	A	6140-01-032-3938	FH20EE	6301	0001	Mercury Batteries	"	"	12	lb							

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(SEE REVERSE FOR ADDITIONAL REMARKS IF APPLICABLE)

PAGE OF

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 375TH AIR BASE GROUP (MAC)
SCOTT AIR FORCE BASE, ILLINOIS 62225

REPLY TO ATTN OF: DE (Lt Sloop, 62092)

3 FEB 1988

SUBJECT: Revision to the Waste Analysis Plan

TO: SEE DISTRIBUTION

1. Because of several changes in the Code of Federal Regulation, Title 40 and the Illinois Environmental Regulations, the waste analysis plan must be updated to include Title 35 Illinois Environmental Protection Regulations, specifically section 725.113 and 40 CFR 265.13.

2. Since Scott AFB still generates relatively small quantities of hazardous waste, the policy of testing each individual waste drum will remain in effect. The Bioenvironmental Engineering Office will draw samples and send them to the Air Force Occupational and Environmental Health Laboratory for hazardous waste identification analysis. The following waste analysis methods will be used:

a. Infrared Spectrograph.

b. pH Measurement.

c. Closed Cup Flash Point Tester.

NOTE: See attachment 1 for the test parameters.

3. Should the generation of hazardous waste increase significantly, due to mission change or other circumstance, the development of an identification plan based on the random analysis of hazardous waste streams may be necessary.

Walter E. Smith

WALTER E. SMITH, Lt Col, USAF
Base Civil Engineer

2 Atch
1. Test Parameters
2. Sampling Protocol

DISTRIBUTION:

375 ABG/DEEV
DRMO/XCL
Med Cen, Scott/SGPB

TESTING PARAMETERS

SOLVENTS (F-SERIES WASTES)	PARAMETER
F001 - F005 solvents containing greater than 1 percent by weight total organic constituents.	See page 2

CALIFORNIA WASTES

(1) Liquid hazardous waste	$2 \leq pH \leq 12$
(2) Liquid hazardous waste containing Polychlorinated Biphenols	$\geq$ 50 ppm
(3) Liquid hazardous wastes that are primarily water and contain hazardous organic chemicals	$\geq$ 1000 mg/l
(4) Liquid hazardous waste containing free cyanides	$\geq$ 1000 mg/l

(5) Liquid hazardous waste containing metals at concentrations greater than those specified below:

Arsenic (AS)	500 mg/l
Cadmium (Cd)	100 mg/l
Chromium VI (CrVI)	500 mg/l
Lead (Pb)	500 mg/l
Mercury (Hg)	20 mg/l
Nickel (Ni)	134 mg/l
Selenium (Se)	100 mg/l
Thorium (Th)	130 mg/l

NAC GOVT COPIES 213

Atch 2

TABLE 1 (Cont.)

F001-F005 Spent Solvents	Concentration (mg/l)	
	Wastewaters containing spent solvents	All other spent solvent wastes
Acetone	0.05	0.59
n-Butyl alcohol	5.0	5.0
Carbon Disulfide	1.05	4.81
Carbon tetrachloride	0.05	0.96
Chlorobenzene	0.05	0.15
Cresols (and cresylic acid)	2.82	0.75
Cyclohexanone	0.125	0.75
1,2-dichlorobenzene	0.65	0.125
Ethyl Acetate	0.05	0.75
Ethyle benzene	0.05	0.053
Ethyl ether	0.05	0.75
Isobutanol	5.0	5.0
Methanol	0.25	0.75
Methylene Chloride	0.2	0.96
Methylene chloride (from the pharmaceutical industry)	12.7	0.96
Methyl Ethyl Ketone	0.05	0.75
Methyl Isobutyl Ketone	0.05	0.33
Nitrobenzene	0.66	0.125
Pyridine	1.12	0.33
Tetrachloroethylene	0.079	0.05
Toluene	1.12	0.33
1,1,1-Trichloroethane	1.05	0.41
1,2,2-Trichloro-1,2,2-triflouroethane	1.05	0.96
Trichloroethylene	0.062	0.091
Trichloroflouromethane	0.05	0.96
Xylene	0.05	0.15

HAZARDOUS WASTE SAMPLING PROTOCOL

1. Liquid Samples - All liquid hazardous waste samples are taken through the bungholes of 55 gallon drums. Samples are taken with disposable plastic pipets and plastic tubing and squeeze bulb aspirator.

2. A length of plastic tubing is connected to the pipet to allow sampling from mid barrel. The tubing is lowered in to the barrel at approximately mid point. The squeeze bulb is aspirated and the liquid collected in the tubing is transferred into a glass or polystyrene jar. Prior to shipment, the jar is tapped at the lid to insure tightness.

3. Soil Samples - All samples are taken from 35 gallon drums unless otherwise specified or in the event of an actual spill. Soil is sampled with an easy to clean stainless steel scoop. Soil is placed in a double plastic bag and the bag is tied. Prior to shipment the bag is taped.

4. Samples are placed in a shipping carton with enough packing material to insure samples do not become loose enroute to the analysis laboratory. An AF Form 2751 is shipped with each sample to identify who sampled the waste and to identify where the sample was taken from.

5. All hazardous waste samples are shipped to the Occupational Environmental Health Laboratory (OEHL), Brooks AFB, San Antonio, Texas, for analysis. Hazardous waste sample results are reported to the Department of Bioenvironmental Engineering, and Bioenvironmental Engineering reports the findings to 375 CES/DEMLF, in turn.

6. Copies of the hazardous waste analysis are on file in the Department of Bioenvironmental Engineering (Bldg. 1533), USAF Medical Center/SGPB, Scott AFB, Illinois.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
230 SOUTH DEARBORN ST.
CHICAGO, ILLINOIS 60604

REPLY TO THE ATTENTION OF:
5HE-12

NOV 30 1987

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Dennis I. Tudor, Chief
Environmental Engineering and Planning
Scott Air Force Base
375 ABG/DEEV
Belleville, Illinois 62225-5045

Re: Notice of Violation
Scott Air Force Base
EPA I.D. No. IL7 570 024 177

Dear Mr. Tudor:

An inspection of Scott Air Force Base was conducted on July 8, 1987, by representatives of the United States Environmental Protection Agency (U.S. EPA) and the Illinois Environmental Protection Agency. Under Executive Order 12088, Federal agencies have been given the primary responsibility for ensuring the compliance of Federal facilities under their jurisdiction.

The purpose of the inspection was to determine if Scott Air Force Base was in compliance with the State equivalent requirements of Subtitle C of the Resource Conservation and Recovery Act (RCRA) as amended, 42 U.S.C. §6901 et seq. The State requirements are found at Illinois Administrative Code (IAC) Part 720 et seq. A copy of the inspection report is enclosed for your information.

As a result of the inspection, the following violation has been been identified:

> 35 Ill. Adm. Code 722.134a(2) and (3) requires that while being accumulated on site, each container and tank is labeled or marked clearly with the words, "Hazardous Waste". At the time of the inspection three drums were observed to be unlabeled with no accumulation dates.

You are hereby requested to submit within (30) calendar days from the date of this letter a written description of the actions taken to correct the aforementioned violation. If corrective measures are not properly taken, this matter shall be reported to the Scott Air Force Base Adjutant General for appropriate action or presented to the Office of Management and Budget for resolution.

If you have any questions regarding this matter or wish to request a meeting, please contact Ms. Sharon R. Johnson of my staff at (312) 886-6533.

Sincerely yours,

Wm. E. Muno

William E. Muno, Chief
RCRA Enforcement Section

Enclosure

cc: Harry Chappel, IEPA, CMS, Springfield, IL - w/enclosure
Glenn Savage, IEPA, FOS - w/enclosure
Gary King, Senior Attorney, DLPC

Atch 3

rs/396V/4Dec87/sloop/62092

CC

Reply to Notice of Violation (NOV) - USEPA Inspection, 8 July 87
(Your Ltr, 30 Nov 87)

United States Environmental Protection Agency
Region 5
Attn: Ms Sharon R Johnson (5HE-12)
230 South Dearborn Street
Chicago, Illinois 60604

27 DEC 1987

1. This letter is the reply to the NOV received 3 Dec 87 from the U.S. Environmental Protection Agency (EPA ID No. IL7 570 024 177). The NOV resulted from the USEPA inspection which took place 8 July 87. The apparent violation involved three waste drums stored at the accumulation point for the Consolidated Aircraft Maintenance Squadron (Bldg 441). These drums were stored at the accumulation point without being marked with the words "Hazardous Waste" and the accumulation date.

2. This discrepancy was pointed out during the inspection and the following corrective actions were taken:

a. The accumulation point manager, Mr Dennis E. Reinard, was told by the Base Environmental Coordinator, Lt Richard Sloop, to make sure all drums are marked with the words "Hazardous Waste" and the accumulation date.

b. These corrective actions were verified by a later inspection by Lt Sloop on 13 Aug 87.

c. More emphasis will be placed on proper drum markings in future training sessions.

3. If you have any further questions or comments concerning this NOV or the hazardous waste program at Scott, my point of contact is 2d Lt Richard Sloop, 375 ABG/DEEV (618) 256-2092.

SIGNED

THOMAS E. DIAMOND, COL, USAF
BASE COMMANDER

COORD: DEEV _____ CCE _____

DEE _____ CD _____

DED _____ CC Sig _____

DE _____

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
230 SOUTH DEARBORN ST.
CHICAGO, ILLINOIS 60604

REPLY TO THE ATTENTION OF:

0 7 JAN 1988

5HE-12

Dennis I. Tudor, Chief
Environmental Engineering and Planning
Scott Air Force Base
375 ABG/DEEV
Belleville, Illinois 62225-5045

Re: Notice of Violation
Scott Air Force Base
IL7 570 024 177

Dear Mr. Tudor:

The United States Environmental Protection Agency (U.S. EPA) has reviewed the information which you submitted to this office on December 28, 1987. The stated actions have adequately resolved the Resource Conservation and Recovery Act (RCRA) violation identified in our November 30, 1987, Notice of Violation.

Your cooperation and efforts in this matter are appreciated. Should you have further questions, please feel free to contact Sharon R. Travis of my staff at (312) 886-6533.

Sincerely yours,

Wm. E. Muno

William E. Muno, Chief
RCRA Enforcement Section

cc: Glenn Savage, IEPA, FOS, DLPC
Harry Chappel, FCU, DLPC
Gary King, IEPA, EP, DLPC
Bill Franz, 5ME-14

CONVERSATION RECORD

TIME:

DATE: 1-15 and 2-5-88

TYPE: ☐ VISIT ☐ CONFERENCE ☒ TELEPHONE ☒ INCOMING ☒ OUTGOING

Location of Visit/Conference:

ROUTING

NAME/SYMBOL	INT

NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU	ORGANIZATION (Office, dept., bureau, etc.)	TELEPHONE NO:
Tim Case, Inspector	IEPA	(309) 693-5462

SUBJECT: Caterpillar Technical Center ILD 067 407 627

SUMMARY

After review of the land disposal restriction checklist of the above facility's inspection conducted on September 14, 1987, I noticed that the inspector checked a yes and no when it came to answering 268.50 for clearly marking the containers with contents and dates entering storage. I phoned the inspector about the discrepancy and he said he meant no, they did not comply with 268.50 (end of phone call). After issuing an NOV on Jan. 21, 1988, the facility contacted me. Mr. Connor did not understand how he could be out of compliance with that particular violation when all their containers in their storage area had the proper labeling on them. The State, however, had issued them an NOV for 16 other RCRA violations. One of the violations was failure to mark the container (1) with the words Hazardous Waste in their statelite accumulation area. After extensively talking with Mr. Connors, I spoke later with the inspector who phoned me to say he made a mistake, there was no discrepancy in their storage area [268.50]. He stated that he was a new inspector and he was sorry for the inconvenience. He also phoned the facility to let them know the outcome and that U.S. EPA will send out a letter verifying in compliance with the land disposal requirements.

ACTION REQUIRED

Write letter to facility returning them to compliance

NAME OF PERSON DOCUMENTING CONVERSATION	SIGNATURE	DATE

ACTION TAKEN

SIGNATURE	TITLE	DATE
Sharon R Travis	EPS	2-8-88

0 7 JAN 1988

5HE-12

Dennis I. Tudor, Chief
Environmental Engineering and Planning
Scott Air Force Base
375 ABG/DEEV
Belleville, Illinois 62225-5045

Re: Notice of Violation
Scott Air Force Base
IL7 570 024 177

Dear Mr. Tudor:

The United States Environmental Protection Agency (U.S. EPA) has reviewed the information which you submitted to this office on December 28, 1987. The stated actions have adequately resolved the Resource Conservation and Recovery Act (RCRA) violation identified in our November 30, 1987, Notice of Violation.

Your cooperation and efforts in this matter are appreciated. Should you have further questions, please feel free to contact Sharon R. Travis of my staff at (312) 886-6533.

Sincerely yours,

William E. Muno, Chief
RCRA Enforcement Section

cc: Glenn Savage, IEPA, FOS, DLPC
Harry Chappel, FCU, DLPC
Gary King, IEPA, EP, DLPC
Bill Franz, 5ME-14

5HE-12:STRAVIS:1/5/88:ea: DISK #3

INIT. DATE	1/6/88	1-6-88		1-6-88	1-6-88	1-7-87		

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 375TH AIR BASE GROUP (MAC)
SCOTT AIR FORCE BASE, ILLINOIS 62225

28 DEC 1987

REPLY TO ATTN OF: CC

SUBJECT: Reply to Notice of Violation (NOV) - USEPA Inspection, 8 July 87 (Your Ltr, 30 Nov 87)

TO: United States Environmental Protection Agency
Region 5
Attn: Ms Sharon R Johnson (5HE-12)
230 South Dearborn Street
Chicago, Illinois 60604

1. This letter is the reply to the NOV received 3 Dec 87 from the U.S. Environmental Protection Agency (EPA ID No. IL7 570 024 177). The NOV resulted from the USEPA inspection which took place 8 July 87. The apparent violation involved three waste drums stored at the accumulation point for the Consolidated Aircraft Maintenance Squadron (Bldg 441). These drums were stored at the accumulation point without being marked with the words "Hazardous Waste" and the accumulation date.

2. This discrepancy was pointed out during the inspection and the following corrective actions were taken:

a. The accumulation point manager, Mr Dennis E. Reinard, was told by the Base Environmental Coordinator, Lt Richard Sloop, to make sure all drums are marked with the words "Hazardous Waste" and the accumulation date.

b. These corrective actions were verified by a later inspection by Lt Sloop on 13 Aug 87.

c. More emphasis will be placed on proper drum markings in future training sessions.

d. We continue to maintain compliance concerning the waste drums stored in the accumulation point. This was confirmed by our most recent inspection which occurred on 18 Dec 87.

3. If you have any further questions or comments concerning this NOV or the hazardous waste program at Scott, my point of contact is 2d Lt Richard Sloop, 375 ABG/DEEV (618) 256-2092.

Thomas E Diamond

THOMAS E. DIAMOND, Colonel, USAF
Commander

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

NOV 30 1987

Evaluation of ESD Product

Sharon R. Johnson
Enforcement Programs Unit #1

Willie H. Harris, Chief
Central District Office (5SCDO)

THRU: William E. Muno, Chief
RCRA Enforcement Section

ORIGINAL SIGNED BY
WILLIAM E. MUNO

Attached you will find a copy of the ESD Evaluation Form for a RCRA Compliance Evaluation Inspection conducted at Scott Air Force Base, Belleville, Illinois on July 8, 1987. As a result of our review of the inspection report, a Notice of Violation Letter was prepared.

If you have any further questions, please contact me at FTS 886-6533.

Attachment

bcc: B. Franz, 5ME

5HE-12:SJOHNSON:6-6533:ea:10/6/87 JOHNSON DISK #2

CONCURRENCES

SYMBOL	EPU #1		P.R.D	AP	WEM			
SURNAME	O.R	pm		11/30/87	11/23/87			
DATE	11/18/87	11-19-87	11-24-87					

EPA Form 1320-1 (12-70) OFFICIAL FILE

*U.S. GPO

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
230 SOUTH DEARBORN ST.
CHICAGO, ILLINOIS 60604

REPLY TO THE ATTENTION OF
5S

MEMORANDUM

SUBJECT: Evaluation of ESD Product

Re: Scott Air Force Base

FROM: Willie H. Harris

Act# C28109

TO: William E. Muno (5HE)

The subject product you requested is attached along with an evaluation form. Please take a few minutes to fill out this evaluation form, sign it, have it initialed by your Section and Branch Chief, and return it to me. This information will help us to better meet your needs and also will provide important feedback to the staff. I have provided an addressed Special Attention envelope for your convienence.

Attachments

EC PRODUCT EVALUATION

Re: Scott Air Force Base

Act# C28109.

1) How well did the product satisfy your objectives? 1 2 3 (4) 5

very well

2) How do you rate completeness? 1 2 3 (4) 5

3) How do you rate quality? 1 2 3 (4) 5

4) How do you rate technical competence? 1 2 3 (4) 5

5) How do you rate timeliness? 1 2 (3) 4 5

6) What is your overall rating? 1 2 3 (4) 5

7) What suggestions do you have for improvement?

8) How did you or will you use the product?

a Notice of Violation was prepared

Rater Signature Sharon Johnson

Section Chief Initials

Branch Chief Initials WEM

5HE-12

NOV 30 1987

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Dennis I. Tudor, Chief
Environmental Engineering and Planning
Scott Air Force Base
375 ABG/DEEV
Belleville, Illinois 62225-5045

Re: Notice of Violation
Scott Air Force Base
EPA I.D. No. IL7 570 024 177

Dear Mr. Tudor:

An inspection of Scott Air Force Base was conducted on July 8, 1987, by representatives of the United States Environmental Protection Agency (U.S. EPA) and the Illinois Environmental Protection Agency. Under Executive Order 12088, Federal agencies have been given the primary responsibility for ensuring the compliance of Federal facilities under their jurisdiction.

The purpose of the inspection was to determine if Scott Air Force Base was in compliance with the State equivalent requirements of Subtitle C of the Resource Conservation and Recovery Act (RCRA) as amended, 42 U.S.C. §6901 et seq. The State requirements are found at Illinois Administrative Code (IAC) Part 720 et seq. A copy of the inspection report is enclosed for your information.

As a result of the inspection, the following violation has been been identified:

1. 35 Ill. Adm. Code 722.134a(2) and (3) requires that while being accumulated on site, each container and tank is labeled or marked clearly with the words, "Hazardous Waste". At the time of the inspection three drums were observed to be unlabeled with no accumulation dates.

You are hereby requested to submit within (30) calendar days from the date of this letter a written description of the actions taken to correct the aforementioned violation. If corrective measures are not properly taken, this matter shall be reported to the Scott Air Force Base Adjutant General for appropriate action or presented to the Office of Management and Budget for resolution.

If you have any questions regarding this matter or wish to request a meeting, please contact Ms. Sharon R. Johnson of my staff at (312) 886-6533.

Sincerely yours,

ORIGINAL SIGNED BY
WILLIAM E. MUNO

William E. Muno, Chief
RCRA Enforcement Section

Enclosure

cc: Harry Chappel, IEPA, CMS, Springfield, IL - w/enclosure
Glenn Savage, IEPA, FOS - w/enclosure
Gary King, Senior Attorney, DLPC

bcc: William Franz, 5ME-14

WMD:HWEB:RES:SPU #1:S. Johnson:o.robinson:Disk 2-Sharon:
rev. o.r. 11/18/87 Final

CONCURRENCES

SYMBOL	EPU#1							
SURNAME	O.R				WEM			
DATE	11/18/87	11-19-87	11-19-87	11/23/87	11/23/87			

(12-70)

OFFICIAL FILE COPY

*U.S. GPO : 1984-436-836

P 250 863 113

RECEIPT FOR CERTIFIED MAIL

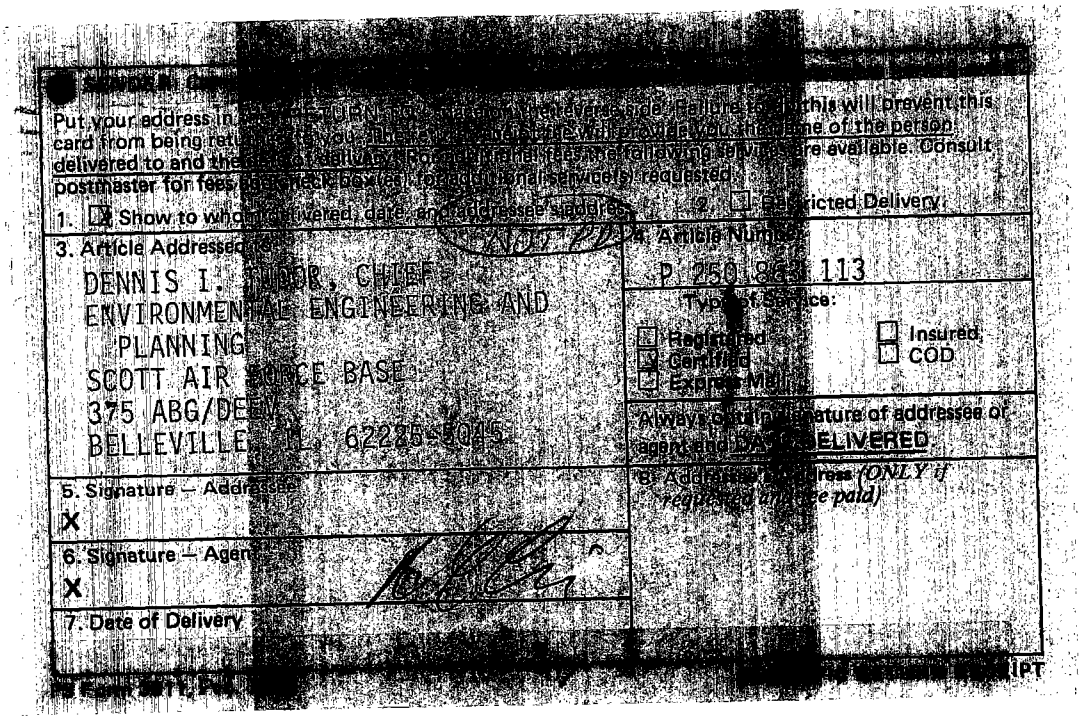
NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL
(See Reverse)

RES-EPU#1 Sharon Johnson SHE-12

Sent to DENNIS I. TUDOR, CHIEF	
Street and No. ENVIR. ENG. & Planning 375 ABG/DEEV	
P.O., State and ZIP Code BELLEVILLE, IL 62225-5045	
Postage	2.40
Certified Fee	75
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	70
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	385
Postmark or Date	

CHICAGO DEC 1987 USPO

PS Form 3800, June 1985 ★ U.S.G.P.O. 1985-480-794



SENDER: Complete [redacted]

Put your address in [redacted] RETURN [redacted] reverse side. Failure to do this will prevent this card from being ret[redacted] you. [redacted] will provide you the name of the person delivered to and the [redacted] delivery. For additional fees the following services are available. Consult postmaster for fees [redacted] box(es) for additional service(s) requested.

1. ☒ Show to whom delivered, date, and addressee's address. NOT PD
2. ☐ Restricted Delivery.

3. Article Addressed to:
DENNIS I. TUDOR, CHIEF
ENVIRONMENTAL ENGINEERING AND PLANNING
SCOTT AIR FORCE BASE
375 ABG/DEEV
BELLEVILLE, IL 62225-5045

4. Article Number
P 250 863 113

Type of Service:
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Addressee
X

6. Signature — Agent
X

7. Date of Delivery

8. Addressee's Address (ONLY if requested and fee paid)

PS Form 3811, Feb. [redacted] IPT

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
230 SOUTH DEARBORN ST.
CHICAGO, ILLINOIS 60604

REPLY TO THE ATTENTION OF:
5SCDO

MEMORANDUM

DATE: SEP 28 1987

SUBJECT: RCRA Inspection at Scott Air Force Base
(IL7570024177) (C28109)

FROM: Gerald R. Golubski, Environmental Engineer
Central District Office (5SCDO)

TO: William E. Muno, Chief
RCRA Enforcement Section (5HE-12)

THRU: Willie H. Harris, Chief
Central District Office (5SCDO)

On July 8, 1987, a RCRA Inspection was conducted at the subject Facility. This inspection was performed in conjunction with a multi-media inspection that was held at this Air Force Base that week. Under separate cover other inspection reports were forwarded to the appropriate US EPA Region V Divisions (Water, RCRA, UST, Drinking Water Supply, etc.).

The Facility was represented by Mr. Dennis Tudor, Chief of Environmental and Contract Planning Section, Captain Paul Munnell, Base Environmental Coordinator and 2nd Lieutenant Richard E. Sloop. The Illinois EPA was represented by Mr. Mike Grant. A completed RCRA Checklist Inspection Report which accompainies this transmittal was prepared by Mr. Grant and this inspector. Mr. Basim Dihu, Environmental Engineer with the US EPA's Environmental Services Division was also present.

Scott Air Force Base is a major military installation which serves as headquarters for the Military Airlift Command and other U.S. Air Force commands. U.S. Air Force Reserves are also employed at the Facility. There is twenty four hour security at all gates. Emergency facilities are located on-site, including a hospital and fire department. Hazardous waste are generated at many locations on-site, which are listed as D, U, and P.

Storage in drums is conducted at the "Aqua Yard", which is designated on the Part A permit application. Part A was amended in December 1985, to reflect an increased maximum waste inventory of 36 drums. A roof structure was erected over the drum storage area last summer. No storage in tanks or treatment of hazardous waste is conducted.

Solid Waste Management Units on site were identified under Phase 1 of the Installation Restoration Program. These include an old landfill and a sludge weathering lagoon. Characterization of these units is to be completed during future phases. The Base Hospital uses an incinerator to burn trash, infectious wastes, and other solid wastes. Ashes are sent to a solid waste landfill.

STORAGE FACILITY AT THE AQUA YARD

All hazardous wastes generated at the Base are sent to the "Aqua Yard" for storage. This yard consist of several underground fuel storage tanks (JP-4, Diesel, gasoline), two underground ethylene glycol tanks (used for deicing aircraft in the winter time) and several underground tanks for storing used motor oil. A contractor periodically picks-up this used motor oil whenever their are sufficient amounts in storage. All underground tanks are checked visually using long "dip sticks" by military personnel. This procedure is followed in order to accurately determine the inventory of fuels or oils in storage as well as serve as an indicator if any leaks should develop. The entire aqua yard is protected by a ten foot high locked chain link fence. Only five keys were made for the locks on the gate. The five persons who hold these keys are the only ones permitted to enter the yard.

At the time of this inspection thirty-three 55 gallon drums were held in storage (the permit allows up to 36 drums) within the spill prevention dike. Each drum had an antistatic grounding wire affixed. All containers were stored closed. All drums were labeled, and numbered. No evidence of spills, leaks or malfunctions were apparent. Although, recent rainfall was noticably present in a corner of the concrete dike, this water would normally evaporate quickly according to facility personnel. All hazardous wastes drums are set upon a plastic skid to prevent this rainwater from rusting out the drums.

INSPECTION RECORDS

Inspection records appeared to be adequate at the time of this inspection. No leaks or emergency situations were noted on these records.

TRAINING RECORDS

As with every military base, operating personnel are constantly changing. Currently, Captain Munnell is in charge of the RCRA program at the Base. Training Records indicated that he completed the Air Force Institute of Technology's "Hazardous Waste Management Course" in April 1986. Subsequent RCRA training was held on July 22, 1986 by nine other persons

assigned to the Civil Engineering Unit at the Base. It is anticipated that Captain Munnell will be transfering next month. Thus, recurrent training is scheduled prior to his leaving. Moreover, Lt. Sloop has been designated as his replacement. According to the records available on site, the Lieutenant is scheduled to receive this same Hazardous Waste Management Course this September. No training deficiencies were noted at the time of the inspection.

WASTE ANALYSIS PLAN

At the present time every drum of hazardous wastes delivered to the Aqua Yard is sampled and analysed. The Bioenvironmental Engineering Group prepares samples and forwards them to the U.S. Air Force's - Occupational. Environmental Health Laboratory (OEHL), Brooks Air Force Base in San Antoino, Texas. Unfortunately, the turn around time for the analysis to be completed takes several months. Therefore, these drums are stored in the Aqua Yard for many months. In an effort to reduce the current hazardous wastes inventory, the Base is preparing a service contract by which cleaning solvents (from vehicle parts) would be recycled by a vendor. This would considerably reduce the hazardous wastes solvent stored in the Aqua Yard and perhaps improve upon the turn around time on the other analysis.

The waste analysis plan (as redrafted on 8 April 1986) does indicate that if the mission at the Base changes, the waste analysis plan will address those changes. For example, if greater number of analysis is warranted a random analysis selection plan for each waste stream will be followed.

CONTINGENCY PLAN

The Facility's Contingency Plan is contained in it's - Scott Air Force "Base, Oil and Hazardous Substance Spill Prevention and Response Plan" dated February 1986. A copy of that plan accompanies this transmittal for your review. The plan is now undergoing its annual review. According to Lt. Sloop the revised plan is scheduled for release at the end of this summer.

CLOSURE PLAN

For purposes of planning only, the Facility has estimated its year for closure as 2090. Although current closure costs have been estimated as $40,000, it should be recognized that this would only provide closure for the existing site. If in the event that the military mission of the Base is changed, a revised closure plan must be developed. Also, as closure costs escalate, new closure estimates should be prepared annually.

OPERATING RECORD

The facility maintains good operating records. Inventory records appeared to be accurate at the time of the inspection. Records go back to 1983 starting with barrel # 1.

Currently, the facility is up to barrel # 334. Hence, it maybe deduced that in recent years approximately 80 to 90 barrels were shipped off-site each year. It has been estimated by Captain Munnell if a vendor recycles its cleaning solvents wastes perhaps only 40 barrells of hazardous waste would be shipped out annually.

DEFENSE REUTILIZATION AND MARKETING OFFICE (DRMO)

Off site disposal and manifesting are handled through the Defense Reutilization and Marketing Office (DRMO) on Base. The DRMO awards contracts for tansportation and disposal of hazardous waste generated by Scott Air Force Base.

Manifest were filled out completely with required identification numbers, certifications, descriptions, etc. As always, according to Mr. Cozzi B. Webb the Defense property disposal officer, the local DRMO will not accept any wastes from Scott Air Force Base unless it is accompanied by a government form attesting to its composition (usually the analysis sheet from Brooks AFB is provided). Also, since this DRMO also serves military installations in Missouri and Illinois, they have hired an Environmental Specialist to insure that RCRA requirements are followed. Unfortunately, it was learned that this person had hurt her back (twisted a spinal disc) and was therefore unavailable during the inspection. It is expected that she would be off for at lease several days according to Mr. Webb.

BUILDING 443

It was learned during the course of this inspection that an outside storrage yard adjacent to building 443 serves as a site for storing hazardous waste. Although, the area has "No Smoking" signs and is fenced the 3 drums inside were not labeled as hazardous wastes and no accumulation dates were evident. These drums will therefore need to be properly labeled and stored in the Aqua Yard within 90 days of accumulation.

CONCLUSIONS/RECOMMENDATIONS

1. The facility should make an effort to recycle it's cleaning solvent wastes through a vendor. This would reduce the current inventory of drums in the Aqua Yard and reduce the chance of exceeding its 36 barrel limitation.

2. The Scott AFB "Oil and Hazardous Substance Spill Prevention and Response Plan" should be reviewed annually as scheduled.

3. The three drums near building 443 need to be properly labeled, and stored in the Aqua Yard.

If you have any questions concerning this report, please contact this writer at 886-1968.

Attachment

5HE-12

MAY 1 1 1987

Dennis I. Tudor, Chief
Environmental Engineering and Planning
Scott Air Force Base
375 ABG/DEEV
Belleville, Illinois 62225-5045

Re: Notice of Violation
Scott Air Force Base
IL7 570 024 177

Dear Mr. Tudor:

The United States Environmental Protection Agency (U.S. EPA) has reviewed the information which you submitted to this office on March 09, 1987. The stated actions appear to adequately address the Resource Conservation and Recovery Act (RCRA) deficiencies outlined in our June 3, 1986, Notice of Violation.

Your cooperation and efforts in this matter are appreciated. Should you have further questions, please feel free to contact Sharon R. Johnson of my staff at (312) 886-6533.

Sincerely yours,

ORIGINAL SIGNED BY
WILLIAM E. MUNO

William E. Muno, Chief
RCRA Enforcement Section

cc: Glenn Savage, IEPA, FOS, DLPC
Harry Chappel, FCU, DLPC
Gary King, IEPA, EP, DLPC

WMD:HWEB:RES:EPU #1:SJOHNSON:robinson/5/07/87:disk #2
Final - o.r -rev. 5-07-87

	TYPIST	AUTHOR	OTHER STAFF	UNIT CHIEF	SECT. SEC'Y	SECT. CHIEF	BRANCH CHIEF	WMD DIR
INIT. DATE	5/7/87	5-7-87		RLC 5/7/87	AP 5-8-87	WEM 5/8/87		

Illinois Environmental Protection Agency · 2200 Churchill Road, Springfield, IL 62706

217/782-6761

Refer to: 1630100015 -- St. Clair County
Scott Air Force Base
7570024177
Compliance File

April 1, 1987

Scott Air Force Base
Attn: Colonel Ashdown, Base Civil Engineer
375 ABG/DE
Scott Air Force Base, IL 62225

Dear Colonel Ashdown:

The Agency is in receipt of your March 9, 1987 response(s) to our June 26, 1986 Enforcement Notice Letter. Your response(s) has been reviewed and the apparent violation(s) of Section(s) 725.116(a) and 725.116(d) are now considered resolved.

If you have any questions, please contact Pat McCarthy at 618/345-4606.

Sincerely,

Harry A. Chappel, P.E., Acting Manager
Facilities Compliance Unit
Compliance Monitoring Section
Division of Land Pollution Control

HAC:BF:bls/2063g,42

cc: Division File
Southern Region
Bruce Carlson
Pat McCarthy
Bur Filson

LPC 1630100015
— St. Clair County
Scott Air Force Base
ILD 75700241 77
Compliance File

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 375TH AIR BASE GROUP (MAC)
SCOTT AIR FORCE BASE, ILLINOIS 62225

09 MAR 1987

REPLY TO ATTN OF DE

SUBJECT: Notice of Violation (Hazardous Waste Training Documentation)

TO: Illinois Environmental Protection Agency
Division of Land Pollution Control
Enforcement Section, ATTN: Bruce Carlson
2200 Churchill Road
Springfield IL 62706

1. Enclosed is the information your agency requested in regards to Hazardous Waste Training documentation. The attached document satisfies the final remaining requirement in the Notice of Violation we received from your office on 3 Jun 86.

2. If you have any questions, please call Lt Paul Munnell at (618)256-2092.

NANCY J. MANLEY, P.E.
Deputy Base Civil Engineer

1 Atch
HW Training Documentation

cc: 375 CAMS/CC

U.S. EPA, REGION V
WASTE MANAGEMENT DIVISION
HAZARDOUS WASTE ENFORCEMENT BR.
RECEIVED
MAR 17 1987

RECEIVED
ENFORCEMENT PROGRAMS
MAR 12 1987
Environmental Protection Agency

4 MAR 1987

HAZARDOUS WASTE TRAINING

I, Dennis Reinard (print name) Dennis Reinard (signature), as Accumulation Point Manager for the 375 CAM Squadron, certify that the following personnel at the generating activities under my control have read through and are familiar with the site specific contingency plan contained in the Spill Prevention and Response Plan.

Bldg 433, Hydraulic Shop - Gary Shaw (printed name) Gary Shaw (signature)

Bldg 441, Paint Shop - Dennis Reinard (printed name) Dennis Reinard (signature)

Bldg 456, AGE Shop - Charles E Lacoak (printed name) Charles E Lacoak (signature)

Bldg 506, Wheel & Tire Shop - Thomas Benoer (printed name) Thomas Benoer (signature)

Bldg 742, Fuel Cell - John M Sanchez (print name) John M. Sanchez (signature)

5HE-12

JUL 16 1986

Mr. Cozzie B. Webb, Jr.
Property Disposal Officer
Defense Reutilization and
Marketing Office-Scott
Building 4141
Scott Air Force Base, Illinois 62225-5000

Re: Defense Reutilization and
Marketing Service
Scott Air Force Base
Non-Notifier

Dear Mr. Webb:

On May 8, 1985, your facility located at the Defense Reutilization and Marketing Service, Building 4141, Scott Air Force Base, Illinois 62225, was inspected by the Illinois Environmental Protection Agency (IEPA), to determine your facility's compliance with the requirements of the Resource Conservation and Recovery Act (RCRA) as regulated under the Illinois provisions found at 35 Ill. Adm. Code Part 720 et seq.

As a result of that inspection and a Pre-Enforcement Conference held on January 29, 1986, with the IEPA, it has been determined that the above referenced facility is in violation of the regulations applicable to owners and operators of hazardous waste treatment, storage and disposal facilities, 35 Ill. Adm. Code Part 725. Specifically, the facility failed to develop a closure plan as required by 35 Ill. Adm. Code 725.212 through 725.215. The closure plan must include at least:

1. A description of how and when the facility will be partially closed, if applicable, and finally closed. The plan must identify how the requirements of Sections 725.211, 725,213, 725.214 and 725.215 will be met;

2. An estimate of the maximum inventory of wastes in storage and in treatment at any time during the life of the facility;

3. A description of the steps needed to decontaminate facility equipment during closure;

4. An estimate of the expected year of closure and a schedule for final closure; and

5. A provision for closure certification by an independent registered professional engineer.

In order to discuss the above violations in more detail, we request a meeting with you within ten (10) days of receipt of this letter. Within thirty (30) days after the meeting a written closure plan should be developed and submitted to Gary King, Senior Attorney, Division of Enforcement Services, Illinois Environmental Protection Agency, 2200 Churchill Road, Springfield, Illinois 62706 for approval.

Please be advised that, if corrective measures are not properly taken, this matter shall be reported to the Scott Air Force Base Adjutant General for appropriate action or presented to the Office of Management and Budget for resolution.

To request a meeting regarding this matter, please contact Oliver L. Warnsley of my staff at (312) 886-6533.

Sincerely yours,

ORIGINAL SIGNED BY
WILLIAM E. MUNO

William E. Muno, Chief
RCRA Enforcement Section

cc: Mark Haney, IEPA, CMS, DLPC
Gary King, IEPA, EP-DLPC
Glenn Savage, IEPA, FOS

bcc: William Franz - 5ME-14

WMD:RES:EPU #1:O. WARNSLEY:o. robinson:7/15/86:o.w. disk #2

	TYPIST	AUTHOR	OTHER STAFF	UNIT CHIEF	SECT. SECTY	SECT. CHIEF	BRNCH CHIEF	WMD DIR
	o.r 7/15/86	olw 7/15/86		RLL 7/15/86	7-15-86	WEM 7/16/86		

Illinois Environmental Protection Agency · 2200 Churchill Road, Springfield, IL 62706

217-782-5544

June 16, 1986

RECEIVED
JUN 1 ? 1986
U.S. EPA, REGION V
WASTE MANAGEMENT DIVISION
OFFICE OF THE DIRECTOR

Mr. Basil G. Constantelos, Director
Waste Management Division
U.S. Environmental Protection Agency
Region V
230 South Dearborn Street
Chicago, IL 60604

Re: Request for Issuance of Administrative Order
Belleville/Scott Air Force Base:
Defense Reutilization and Marketing Service
St. Clair County, Illinois
LPC 1630105014
IEPA Enforcement File No. 7912-HAZ

Dear Mr. Constantelos:

The Illinois Environmental Protection Agency (IEPA) hereby requests that an Administrative Order be issued concerning the above-referenced facility for violations of the interim status standards applicable to hazardous waste storage facilities under Title 35 of the Illinois Administrative Code, Part 725. The particular violations involved are set forth in Attachment A of the enclosed pre-enforcement conference letter of December 20, 1985.

Violations alleged pertain to a hazardous waste storage area where 15 drums of ballistic sand contaminated with lead bullets were stored from at least February 1, 1985 until June 13, 1985. The waste in these drums was generated off-site, reportedly at a Navy Reserve Unit's rifle range located in St. Louis, Missouri. The storage area is located within the grounds of Scott Air Force Base on property occupied by the U.S. Department of Defense's Defense Logistics Agency, Defense Reutilitzation and Marketing Service (DRMS), a tenant of the Base. The DRMS has never filed a RCRA Part A application to cover any operations at this Base, although they acknowledge the waste in the 15 drums was hazardous by the characteristic of EP toxicity. Submission of a closure plan for the storage area was promised within 30 days in a letter submitted to IEPA by DRMS on February 28, 1986. On March 20, 1986, IEPA was verbally informed by DRMS that sumbission of a closure plan would require an unspecified additional amount of time. To date, we have recieved no such closure plan.

The ISS inspection upon which the determination of violations was made was conducted by Tom Powell of IEPA's Collinsville Regional Office on May 8, 1985. A compliance inquiry letter specifying the violations was sent to DRMS on November 7, 1985. In a response letter of November 14, 1985, DRMS stated they had internally reclassified the waste as hazardous waste and had disposed of it, but did not specify what other corrective action would be taken. In an effort to secure specific corrective action commitments acceptable to the IEPA, a pre-enforcement conference letter was sent on December 20, 1985. The resulting pre-enforcement conference was held on January 29, 1986 and the expected corrective action discussed at the conference is described in the enclosed memorandum of February 25, 1986. The letter of February 25, 1986 from DRMS referred to above was to be the commitment letter resulting from the pre-enforcement conference, but the closure plan submittal promised therein has not been provided.

Please provide a copy of this letter and the enclosed supporting documents to the appropriate USEPA staff member assigned to this matter. If your staff should have any technical questions after reviewing these documents, they should feel free to directly contact Tom Powell at 618-345-4606.

Please see that Bruce Carlson of the IEPA's legal staff is promptly informed of the USEPA personnel assigned to this matter and that he is copied on all orders or other communications directed to the subject facility. If USEPA should decide that it cannot proceed in this matter, please promptly return these documents to me along with a written statement of your reasons.

Thank you for your assistance.

Sincerely yours,

Gary King

Gary King
Senior Attorney
Enforcement Programs
Division of Land Pollution Control

Enclosures

cc: Bruce Carlson
Joseph E. Svoboda
Docket Control

BLC:mc

03 JUN 1986

5HE-12

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Dennis I. Tudor, Chief
Environmental Engineering and Planning
Scott Air Force Base
375 ABG/DEEV
Belleville, Illinois 62225-5045

Re: Notice of Violation
Scott Air Force Base
EPA I.D. No. IL7 570 024 177

Dear Mr. Tudor:

On March 25 and 26, 1986, your facility located at 375 ABG/DEEV, Belleville, Illinois, was inspected by the United States Environmental Protection Agency (U.S. EPA) and the Illinois Environmental Protection Agency (IEPA), to determine your facility's compliance with the requirements of the Resource Conservation and Recovery Act (RCRA) as regulated under the Illinois provisions found at 35 Illinois Administrative Code (IAC) Part 720 et seq. A copy of the inspection report is enclosed for your information.

As a result of that inspection it has been determined that the above referenced facility is in violation of the regulations applicable to owners and operators of hazardous waste treatment, storage and disposal facilities, 35 IAC Part 725. Specifically, the following violations were found:

1. A waste analysis plan which meets the requirements of 35 IAC 725.113(d) was not available at the time of the inspections;

2. Personnel training records including job descriptions which meet the requirements of 35 IAC 725.116(d) were not available at the time of the inspections; and

3. A written contingency plan which meets the requirements of 35 IAC 725.152(b)(c)(d) and (e) was not prepared and kept at the facility during the time of the inspections.

In order to discuss the above violations in more detail, we request a meeting with you within ten (10) days of receipt of this letter. Within thirty (30) days after the meeting, a waste analysis plan, a written contingency plan and job descriptions for the personnel handling hazardous waste should be developed and submitted to the IEPA for approval.

Please be advised that, if corrective measures are not properly taken, this matter shall be reported to the Scott Air Force Base Adjutant General for appropriate action or presented to the Office of Management and Budget for resolution.

To request a meeting regarding this matter, please contact Mr. Oliver L. Warnsley of my staff at (312) 886-6533.

Sincerely yours,

William E. Muno, Chief
RCRA Enforcement Section

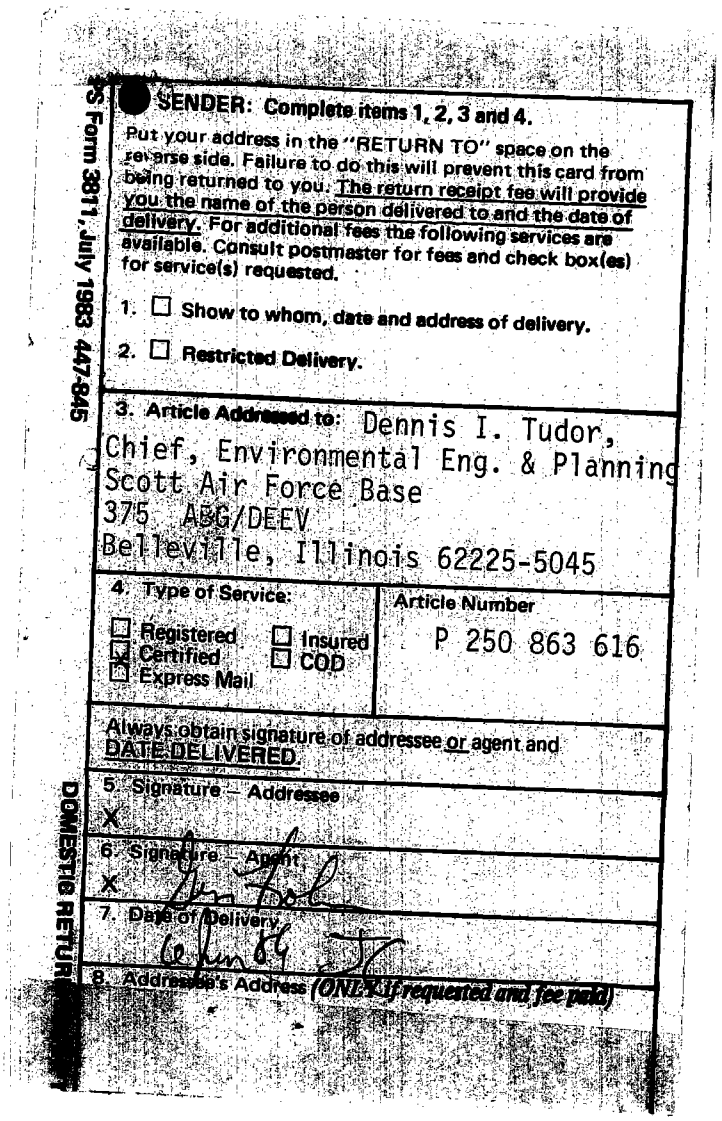
Enclosure

cc: M. Nechvatal, IEPA, CMS, Springfield, IL - w/enclosure
Glenn Savage, IEPA, FOS - w/enclosure
Gary King, Senior Attorney, DLPC

bcc: William Franz, 5ME-14

WMD:HWEB:RES:SPU #1:O. Warnsley:o.robinson:Disk 1-Oliver:rev. 5/23/86
" 6/2/86

	INITIAL	ACTION	BRANCH STAFF	BRNCH CHIEF	SECT. SECY	SECT. CHIEF	WASTE MGMT	
INIT. DATE	D.R. 6/2/86	OLW 6/2/86		RCC 6/2/86				



SENDER: Complete items 1, 2, 3 and 4.

Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.

1. ☐ Show to whom, date and address of delivery.
2. ☐ Restricted Delivery.

3. Article Addressed to: Dennis I. Tudor,
Chief, Environmental Eng. & Planning
Scott Air Force Base
375 ABG/DEEV
Belleville, Illinois 62225-5045

4. Type of Service:
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail

Article Number
P 250 863 616

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature – Addressee
X

6. Signature – Agent
X

7. Date of Delivery
6 Jun 86

8. Addressee's Address (ONLY if requested and fee paid)

PS Form 3811, July 1983 447-845

DOMESTIC RETURN

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION V

IL7570024177

DATE: MAY 23 1986

SUBJECT: Evaluation of ESD Product

FROM: Oliver Warnsley
Enforcement Programs Unit #1

TO: Willie H. Harris, Chief
Central District Office (5S-CDO)

THRU: William E. Muno, Chief
RCRA Enforcement Section

Attached you will find a copy of ESD Evaluation Form for a RCRA Compliance Evaluation Inspection conducted at Scott AFB 375 ABG/DEEV on March 25, 1986. As a result of our review of the inspection report, a Notice of Violation was prepared. If you have any further questions, please contact me at FTS- 886-6533.

Attachment

WMD:HWEB:RES:EPU #1:O. WARNSLEY:o. robinson:5/22/86
Disk #2

CONCURRENCES								
SYMBOL	EPU #1	EPU #1						
SURNAME	O.W.	A.K.						
DATE	5/22/86	5/23/86						

EPA Form 1320-1 (12-70) OFFICIAL FILE COPY

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: APR 28 1986

SUBJECT: Evaluation of ESD Product: Re: RCRA Insp. Scott AFB

Willie H. Harris Act. #: (C 28121)

FROM: Willie H. Harris, Chief
Central District Office (5S CDO)

TO: William E. Muno, Chief
RCRA Enforcement Section (5 HE)

The subject product you requested is attached. Please take a few minutes to fill out this evaluation form and return it to me through your Branch Chief or Division Director. This information will help us to better meet your needs and also will provide important feedback to the staff.

Please circle a number from 1 to 5 to indicate your level of satisfaction; 1 is unsatisfactory, 3 is average and 5 is outstanding. I invite you to be candid in your evaluation and to provide narrative comments to support the numerical rating.

1.) How well did the product satisfy your objectives? 1 2 (3) 4 5

2.) How do you rate completeness? 1 2 3 (4) 5

3.) How do you rate quality? 1 2 3 (4) 5

4.) How do you rate technical competence? 1 2 3 (4) 5

5.) How do you rate timeliness? 1 2 (3) 4 5

6.) What is your overall rating? 1 2 3 (4) 5

7.) What suggestions do you have for improvement?

None

8.) How did you or will you use the product?

We plan on issuing a letter of Warning to the facility

Thank you for your time and effort. I look forward to receiving your comments within the next few days.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: APR 28 1986

SUBJECT: RCRA Inspection at Scott Air Force Base, Belleville, Illinois (IL7570024177) (C28121)

FROM: Margo R. Dilday, Environmental Engineer MRD
RCRA Enforcement Section (5 HE)

TO: William E. Muno, Chief
RCRA Enforcement Section (5 HE-12)

THRU: Willie H. Harris, Chief John Mikan for
Central District Office (5S CDO)

On March 25 and 26, 1986, I conducted a RCRA Interim Status compliance inspection of the subject Facility. Illinois Environmental Protection Agency (IEPA) Inspectors Tom Powell and Mike Grant, were present on March 25, to conduct a follow-up inspection to determne the Facility's progress on a compliance schedule concerning prior RCRA violations. Pablo Go, an Environmental Engineer at the U.S. EPA, Environmental Services Division, was also present.

The inspection checklist was completed during interviews with Mr. Dennis I. Tudor, Chief of Environmental Engineering and Planning, and Sgt. Keith C. Stephens, Environmental Support Specialist. Mr. Cozzie B. Webb, Jr., a Defense Property Disposal Officer, from the Defence Reutilization and Marketing Office (DRMO), a tenant of Scott Air Force Base, was also interviewed with respect to manifesting. Maurice J. Took, Hospital Plant Management, was interviewed about the hospital incinerator. Additional background information was obtained from a review of IEPA files and conversations with Tom Powell.

Scott Air Force Base is a major military installation which serves as headquarters for the Military Airlift Command and other U.S. Air Force commands. U.S. Air Force Reserves are also employed at the Facility. There is twentyfour hour security at all gates. Emergency facilities are located on-site, including a hospital and fire department. Hazardous wastes are generated at many locations on-site, which are listed as D, U, and P.

Storage in drums is conducted at the "Aqua Yard", which is designated on the Part A permit application. Part A was amended in December 1985, to reflect an increased maximum waste inventory of 36 drums. A roof structure is to be erected over the drum storage area this summer. No storage in tanks or treatment of hazardous waste is conducted.

Solid Waste Management Units on site were identified under Phase 1 of the Installation Restoration Program. These include an old landfill and a sludge weathering lagoon. Characterization of these units is to be completed during future phases. The Base Hospital uses an incinerator to burn trash, infectious wastes, and other solid wastes; ashes are sent to a solid waste landfill.

Waste analyses are performed and analytical results recorded prior to disposal off-site. No analyses are performed prior to storage, which makes it difficult to judge if drums of incompatible wastes are protected from each other. A waste analysis plan has not been compiled.

Personnel training records are being developed. An extensive training program has been initiated. Job titles and training descriptions exist, but documentation of job descriptions does not yet meet the requirements. In the future, new employees are to receive the required training within six months.

The contingency plan, in the form of a spill control plan, was in draft form. It could not be utilized for the inspection because it has to go through an internal review and sign-off. Emergency facilities on base would be adequate to deal with emergency situations related to hazardous waste management.

The operating record contained and required elements and was up to date. The closure plan and closure cost estimate were available for inspection. The estimated cost of closure for the "Aqua Yard" and a PXV storage area, is $40,000. The estimate is not broken down into individual costs for given activities. Also, the closure plan states that it would take an Act of Congress to initiate, and the estimated year of closure is 2090.

Off-site disposal and manifesting are handled through the Defense Reutilization and Marketing Office (DRMO) on base. The DRMO awards contracts for transportation and disposal of hazardous wastes generated by Scott Air Force Base. Manifests were filled out completely with required identification numbers, certifications, descriptions, etc. However, it was noted that the numbers indicating quantity were often crossed out and changed (See attached maniofest copies). Mr. Webb, the Defense Property Disposal Officer at DRMO, stated that the numbers were crossed out because quantities were estimated by the generator, who did not have a scale, then later the numbers were changed when the waste was weighed.

CONCLUSIONS/RECOMMENDATONS

- a waste analysis plan must be developed
- personnel training records must include job descriptions; new personnel must be trained with six months
- The contingency plan must be finalized, and must include all required elements (including office and home phone numbers of emergency coordinators)
- changes on manifests should be dated and initialized
- the closure cost estimate should be broken down further to reflect costs of individual closure activities (transportation costs, disposal costs, decontamination costs, etc.)

Attachments

MEMORANDUM

DATE: March 24, 1986

TO: Gary King - LPC - Enforcement

FROM: Ken Mensing - LPC - Collinsville KHM

SUBJECT: 1630105014 - St. Clair Co. - Belleville/Scott AFB: Defense Reutilization and Marketing Service

I feel the following matter should be addressed by E.D.G., with an appropriate determination made by same.

The Defense Reutilization and Marketing Service (DRMS) occupies property on Scott Air Force Base, but is not an integral entity of Scott AFB. Scott AFB constitutes the host and DRMS is the tenant. Scott AFB is a RCRA regulated generator and storage facility (IL7570024177). During a May 8, 1985 inspection at Scott, a visit was also made to the DRMS facility and it was determined that 15 drums of ballastic sand contaminated with lead bullets were being stored at the DRMS yard. This site is not a RCRA facility. The sand was transported from off-site to the facility without manifests, nor were the drums marked or labeled as hazardous waste. DRMS claims that the material was brought to their yard in the hopes they could resell or reutilize it. The sand was later reclassified as a hazardous waste while in storage. These drums were in storage for longer than 90 days. Subsequently, the drums were shipped to a disposal facility in Michigan using Scott's I.D. number. DRMS has to this day been a non-notifier. Bruce Carlson sent a non-notifier referral letter to Jodi Traub, Region 5 on August 12, 1985. These drums of sand have been the only hazardous waste stored on site. A C.I.L. was sent on November 7, 1985 and a Pre-Enforcement Conference was held on January 29, 1986. The Pre-Enforcement Conference committal letter was received about two weeks late. The letter memorialized their intention not to accept and store any more hazardous waste at their facility at Scott. They claimed it never was their policy to store hazardous waste and that the 15 drums of sand was an isolated occurrence. At this time the unresolved violation pertains to closure of the drum storage area. The drums are gone and nothing was spilled, but an approved closure is necessary. Their recent letter of February 25, 1986 stated that their closure plan should be submitted within 30 days. On March 20, 1986, Tom Migdalski of DRMS called and said that the closure plan would be delayed because of the various levels of sign off that it must go through before submittal to IEPA. Proper closure will resolve the violations at the facility.

I am requesting that EDG make a determination whether we should continue to work with them toward achieving proper closure, even though the non-compliance time line is quite long and we are experiencing all kinds of delays regarding the closure plan or whether EDG feels that enforcement action is warranted.

KGM:pbo/0016L

cc: Division File
cc: DLPC Collinsville
cc: Glenn Savage
cc: Bruce Carlson

M E M O R A N D U M

DATE: February 25, 1986

TO: LPC - Division File

FROM: Tom Powell - DLPC - Collinsville

SUBJECT: LPC 1630105014 - St. Clair County - Belleville/Scott AFB: Defense Reutilization and Marketing Service (DRMS) - Non-Notifier

On January 29, 1986, a Pre-Enforcement Conference (PEC) was held at this Regional office for the above referenced facility. In attendance, representing this Agency were Ken Mensing and myself. Scott DRMS was represented by Tom Migdalski of the Defense Reutilization and Marketing Region (DRMR), Columbus, Ohio and Cozzie Webb of the Defense Reutilization and Marketing Office (DRMO) at Scott Air Force Base. The Agency was not represented by its legal council due to more important matters that had recently developed.

This PEC commenced with a general discussion as to the management/disposal activities for waste materials handled by the DRMO at Scott. General topics discussed are as follows:

1) Discussed the Host (Scott) vs. Tennant (DRMO) relationship. DRPO policy is to use the host's number, if one is needed.

2) Presently, the DRMO at Scott does not have its own USEPA ID Number. Waste is not suppose to be transported to this site. Rather, the sand should have been picked up at the point of generation. (See item #4)

3) If a USEPA ID number is needed (i.e. manifests) the DRMO uses the Scott Air Force Base ID number. (This is not generally the case, however the ballistic sand, for which the PEC was scheduled, was shipped out using Scott's ID number.)

4) The DRMO at Scott has a Service Contract with G.W., Inc. of Cedarburg, Wisconsin (414/375-1316). G.W. has entered into a one year contract with the DRMR on June 14, 1985. Under the contract, G.W. is to pick up hazardous waste from eight different "pick-up points" managed by the Scott DRMO. The eight are as follows:

A) St. Louis Army Support Center
B) St. Louis Defense Mapping
C) U.S. Medical Service; Scott AFB
D) Scott Air Force Base
E) 2nd District U.S. Coast Guard, St. Louis
F) Illinois National Guard, Springfield
G) U. S. Army Support Center, Granite City
H) Air Force Reserve, Lambert Field, St. Louis, Mo.

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Hazardous Waste generated at the "pick-up" points is then held at the point of generation until arrangements are made by the Scott DRMO to have G.W. pick up the waste.

5) The contract with G.W., Inc. has what is called "line items". Each line item is a specific individual waste stream. Listed wastes and characteristic waste are both listed with a specific line item number. G.W., under the terms of the contract, arranges for disposal, should a line item waste be generated at one of the eight pick-up points. (The DRMO will dispose of materials, even if the material can be recylced. For example, spent solvent will not be returned, it is the option of G.W. to recycle or dispose.) G.W. serves four other Defense Reutilization and Marketing Offices in northern Illinois and western Iowa.

6) As previously stated, waste is left at the point of generation. Sampling is also to occur at the generation point. Before any waste can be moved/transported between DRMO, a "turn-in document" must be submitted to the DRMO. The turn-in document would list, among other items, the amount of material to be disposed, as well as a copy of any analysis. The turn-in document should identify the material so that the DRMO can prepare the necessary paperwork, for example, disposal, sales, reutilization, etc.

7) The DRMO at Scott is tentatively scheduled to move to the Granite City Army Depot in late 1986/early 1987. They will submit a Part A for waste storage for the Granite City facility.

8) Messrs. Migdalski and Webb spoke of the "Statement of Intent" form. Should any (waste) material be sold, as a condition of the sale, the purchaser would have to complete the "Statement of Intent". No regard for RCRA is noted, in that hazardous waste could be sold by simply bidding on the material and completing the "Statement of Intent".

After the discussion as to the general operation procedures for waste disposal, the topic focused on the specific problem associated with the ballistic sand that was being stored illegally. The following are items the Agency requested during the PEC:

1) Told the DRMS representatives that since the sand was shipped to the site and stored for more than 90 days, they must either; file a "Part A" or submit a closure plan. Messrs. Migdalski and Webb stated that they do not wish this site to be a storage facility, and will not file a "Part A". Their only option, they were told, is to file a closure plan. We requested submittal of the plan within 30 days of the meeting.

2) Requested what safeguards will be taken to insure that hazardous waste is not inadvertently transported to the site again. Mr. Webb stated that no hazardous waste will be accepted, while he is the disposal officer. This waste material arrived before he was assigned to the facility. (February 1, 1985) The Agency requested additional information, as well as safeguards in their "letter of commital" to ensure this situation does not reoccur.

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In summary, the Agency requested a "letter of commital" outlining what measures will be taken to ensure that hazardous waste is not stored at the site. The commital letter should list, point by point the proposed corrective actions. The letter is due within 15 days from the meeting date.

The facility must prepare and submit a closure plan for Agency review within 30 days from the meeting date.

TEP:jlr/0155L

cc: DLPC - Collinsville
cc: Bur Filson
cc: Bruce Carlson

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SCOTT AIR FORCE BASE

OIL AND HAZARDOUS SUBSTANCE

SPILL PREVENTION AND RESPONSE PLAN

FEBRUARY 1986

SCOTT AIR FORCE BASE
OIL AND HAZARDOUS SUBSTANCE SPILL PREVENTION AND RESPONSE PLAN
Scott AFB, Illinois 62225
February 1986

SECURITY INSTRUCTIONS/RECORD OF REVIEW AND AMENDMENTS

SECURITY INSTRUCTIONS

1. The long title of this document is Oil and Hazardous Substance Spill Prevention and Response Plan (SPR). The title is unclassified.

2. This document is unclassified.

3. As this plan is unclassified, it does not come within the scope of directives governing the protection of information affecting national security as specified in Air Force Directives in the 205 series.

4. This plan will be distributed to those organizations shown on the Distribution List, Annex X. The plan will be controlled in accordance with established USAF procedures for unclassified documents.

5. Tasked organizations are authorized to extract and reproduce those portions of this document essential in the accomplishment of necessary planning and in the preparation of supporting documents and reports.

REVIEW AND AMENDMENT INSTRUCTIONS

1. The review of the SPR Plan, and any resulting amendments or changes to the plan must be logged on the attached record sheet. See Plan Review and Update, Section VI, for additional detail.

2. When amendments or changes significantly affect the Annex I, or the Spill Prevention, Control and Countermeasure (SPCC) section; the plan must be recertified by a professional engineer.

RECORD OF CHANGES:

Change Number	Date	Date of Entry	Signature and Organization of Individual Posting Entry

RECORD OF REVIEW:

Reviewed By	Organization	Date Reviewed	Remarks

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SCOTT AIR FORCE BASE
OIL AND HAZARDOUS SUBSTANCE SPILL PREVENTION AND RESPONSE PLAN
Scott AFB, Illinois 62225
February 1986

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SCOTT AIR FORCE BASE
OIL AND HAZARDOUS SUBSTANCE SPILL PREVENTION AND RESPONSE PLAN
Scott AFB, Illinois 62225
February 1986

SPILL PREVENTION AND RESPONSE PLAN (SPR)

SECTION ONE - OVERALL MISSION

The plan will have a long title of "Oil and Hazardous Substance Spill Prevention and Response Plan" and a short title of "Spill Prevention and Response Plan." This plan is intended to fulfill the requirements of a Spill Prevention Control and Countermeasure (SPCC) Plan, an Oil and Hazardous Substance Pollution Contingency (OHSPC) Plan and the hazardous waste spill prevention and response requirements. The SPCC portion of the document primarily pertains to spill prevention and includes a discussion of the major types of spill prevention procedures, methods and equipment incorporated into the base facilities. The Contingency Plan portion of the document specifies procedures to be followed when responding to releases, accidents and spills involving oils or hazardous substances. These include spill detection, reporting, containment, cleanup and disposal procedures. The plan should be implemented in conjunction with the Scott AFB Disaster Preparedness OPLAN, 355-1, or Scott AFB Base Recovery OPLAN, 932-85 in the event that the circumstances warrant implementation of the OPLAN. Also included within this document are general procedures for plan reviews and updates. The SPR Plan is supported by several vital annexes which provide the specific information associated with the facilities found on Scott Air Force Base.

> IN THE EVENT OF A SPILL OF OIL OR A HAZARDOUS SUBSTANCE, CONCERNED PARTIES SHOULD REFER DIRECTLY TO THE SECTION ENTITLED "PLAN EXECUTION" FOR GENERAL RESPONSE PROCEDURES AND TO ANNEXES I, II AND III FOR SITE SPECIFIC INFORMATION.

These annexes provide relevant site descriptions including location, maximum spill quantity, probable spill route and secondary containment (Annex I); Site Specific Contingency Plans for major potential spill sites (Annex II); and Safety Data Sheets for the oils and hazardous substances normally stored on Base (Annex III).

SECTION TWO - RESPONSIBILITIES

Environmental Protection Subcommittee for Spills

The development, review and update of the SPR plan is the responsibility of the appointed "Spill Committee." The committee is a subcommittee of the Environmental Protection Committee (EPC) and is composed of the Base Civil Engineer who serves as the chairman of the spill subcommittee, the Base Bioenvironmental Engineer, the Base Fire Chief, the Base Environmental Coordinator and the Base Fuels Management Officer. Various members of the EPC are used as consultants in the development, review and update of this plan.

Environmental Protection Committee (EPC)

The Base Environmental Protection Committee is responsible for reviewing the SPR plan prior to its promulgation by the Base Commander and prior to finalization of any modifications occurring during the annual review and update of the plan. The committee will develop pollution abatement policy guidance, monitor implementation of this plan and other pollution abatement directives, and insure that supporting procedures by responsible commanders are published.

Tasked Commanders and Staff Agency Chiefs

It is the responsibility of the tasked commanders and staff agency chiefs to publish such procedures that are necessary for implementing this plan, insuring adequate training is conducted, and for insuring that environmental protection/pollution abatement procedures are implemented in their areas of responsibility. They will designate additional project officers and monitors as required to insure an effective program and continually inspect the work areas under their control to insure that effective pollution abatement procedures are followed. They will also insure that Site-Specific Contingency Plans developed for their particular areas are posted in prominent locations at the potential spill sites.

On-Scene Coordinator (OSC)

The OSC is the individual assigned the responsibility for directing and coordinating all spill response actions for Air Force spills (see Executive Order 12316). The OSC will have the authority to utilize the expertise and resources of the Spill Response Team (SRT) in determining and performing response actions. It is also the responsibility of the OSC to oversee that training programs regarding spill response activities are routinely conducted at the base.

The primary on-scene coordinator for spills of oil or hazardous substances at Scott AFB will be the Commander 375 Air Base Group. The first alternate OSC will be the Base Civil Engineer and the second alternate OSC will be the Base

Fire Chief. The alternate OSC will assume full responsibility in the absence of the primary OSC.

Spill Response Team (SRT)

The SRT members, as designated in this document, are tasked to respond to all spills when requested by the OSC and to perform spill containment, recovery, clean-up, disposal and restoration activities as directed by the OSC.

Individuals Assigned, Attached to, or Working at Scott AFB

Each individual assigned, attached to, or working at Scott AFB is tasked to report any spill of oil or hazardous substance to the Base Fire Department (Ext 117) and to take every reasonable precaution to prevent the spillage of oil or hazardous substances. In addition, all contractors performing services on base will be notified prior to the initiation of the contract of their responsibilities to take every reasonable precaution to prevent the spillage of oil or hazardous substances and to report any spills of this nature to the Base Fire Department.

SECTION THREE - SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC)

Mission

Spill prevention control and countermeasure procedures, methods and equipment have been developed and implemented for all the Scott AFB oil and hazardous substance storage and transfer areas. The general mechanisms of spill prevention that are practiced at Scott AFB are briefly discussed below. The specific spill prevention mechanisms associated with each facility having a potential for a "Reportable Spill" are summarized in the Annex I table and tabs.

Secondary Containment

Secondary Containment is the physical containment or capture of a spill thus preventing or limiting its release to the environment. Examples include: dikes, curbs, oil/water separators, drip pans and collection systems. Additional examples may include remote secondary containment such as floating booms and flow diversions utilizing basins, sumps, ponds, etc. (Refer to Annex I, Tab F).

Visual Inspections

Visual Inspections consist of touring or patrolling the potential spill site to detect spills, evidence of spills, or other conditions that could result in a spill (Refer to Annex I, Tab I). These include routine inspections performed by the operating and supervisory personnel and detailed inspections performed by members of the Environmental Protection Subcommittee for Spills, one of which shall be a registered professional engineer who can certify the plan.

Preventive Maintenance

Preventive Maintenance, as a part of the SPCC program, involves the periodic lubrication, adjustment and replacement of worn parts in all equipment where equipment failure could result in a spill of oils or hazardous substances, or impede response efforts. This includes the implementation of all Standard Operating Procedures (SOP) and Recurring Maintenance Programs (RMP) for the specific areas. (Refer to Annex I, Tab J).

Housekeeping

Good housekeeping is the practice of maintaining a clean orderly work environment; thereby reducing the possibility of accidental spills caused by mishandling of equipment and materials, and facilitating the detection of spills and leaks. (Refer to Annex I, Tab K).

Material Compatibility

Material Compatibility refers to the compatibility of oil and hazardous substances with the materials of construction that store or transport them; compatibility of storage or transfer devices with their environment; and compatibility of different substances upon mixing. (Refer to Annex I, Tab L).

Security

Security involves the deterrence of unauthorized, unknowing, or accidental entry of personnel, animals or vehicles into potential spill areas when such entry could result in the damage or misuse of equipment containing or conveying oils or hazardous substances. (Refer to Annex I, Tab M).

Monitoring

Monitoring entails the prevention of oil and hazardous substance spills by observing operational conditions that could indicate or result in a spill, and early detection of existing spills by monitoring environmental conditions. (Refer to Annex I, Tab N). Secondary or backup monitoring should be used where acute health hazards are involved.

SECTION FOUR - OIL AND HAZARDOUS SUBSTANCE CONTINGENCY PLAN

Mission

The Oil and Hazardous Substance Contingency Plan for Scott AFB designates the procedures to be followed in the event of releases, accidents and spills involving oils or hazardous substances and the organizations, personnel and equipment responsible for carrying out the response functions.

Response Organizations

The On-Scene Coordinator (OSC) is the individual assigned the responsibility for directing and coordinating all spill response actions. The OSC will have the authority to utilize the expertise and resources of the Spill Response Team (SRT) in determining and performing response actions. Deployment of the Spill Response Team (SRT) will be activated only if called by the OSC or his designate. The deployment of the SRT is effected to provide a coordinated response to contain, control, recover and restore the environment from all spills. Annex VI summarizes all Base telephone numbers used for contacting these organizations. Off-duty telephone numbers are maintained by the Civil Engineering Service Desk. Annex VII summarizes all off-base response organizations along with the telephone numbers used for contacting these organizations. The personnel assigned to the SRT and their designated responsibilities are discussed in the following paragraphs.

(1) Commander 375 ABG will:

a. Act as primary on-scene coordinator responsible for directing and coordinating all spill response actions.

(2) Base Civil Engineer (BCE) will:

a. Act as first alternate on-scene coordinator in the event the Commander 375 ABG is unavailable or delegates his responsibility to the BCE.

b. Provide an Environmental Coordinator to furnish technical expertise relative to pollution control techniques.

c. Within his capability, provide personnel, transportation and equipment for containment, clean-up, and restoration of landscape due to spills of oils and hazardous substances that exceed the capability of the base agency responsible for the spill.

d. Notify the Commander 375 ABG of personnel and equipment requirements that exceed base capability.

e. Plan, program, and construct interception devices to prevent potential sources of pollution from emptying directly into the Little River or off-base tributary streams.

f. Provide suitable inventory and storage for chemical agents, absorbent materials, and equipment not otherwise specified to be furnished by other units which are employed in combating pollution.

g. Provide a Liquid Fuels Maintenance technician to supply explosion hazard technical assistance to the OSC.

(3) Base Fire Chief will:

a. Act as the on-scene coordinator until the Commander 375 ABG or BCE arrives at the spill scene. He will serve as second alternate on-scene coordinator in the event the Commander 375 ABG or the BCE are unavailable.

b. Direct Fire Department to record all spill reports received from the Emergency Call Line (117) on a designated telephone log.

c. Immediately respond to spills as necessary to protect life and property with due regard for the environment.

d. Activate Disaster Preparedness OPLAN 355-1 as necessary.

e. Direct emergency dispatch operator to notify the Scott AFB Medical Center if injuries are reported and the Base Civil Engineer or Environmental Coordinator of the spill occurrence.

f. Provide technical assistance to the OSC concerning response to, and handling of, combustible or flammable substances.

g. Maintain protective clothing and equipment for response personnel within the Fire Department.

(4) The Environmental Coordinator will:

a. Report to scene of spill immediately upon notification.

b. Evaluate the severity of spill and determine the response necessary for containment and recovery.

c. Advise the Commander 375 ABG (OSC) and BCE as to the necessity for activation of the SRT.

d. On the authorization of the OSC, notify specifically requested members of the SRT or instruct the CE-Service Desk (Fire Department, non-duty hours) to notify these members to assemble at a designated area within 15 minutes of notification.

e. Furnish the OSC technical expertise relative to pollution control techniques.

(5) Bioenvironmental Engineer will:

a. Take periodic samples of all on-base waterways for background information.

b. Upon notification of a spill, and at the direction of the OSC, sample and test the affected waterways to monitor the extent and degree of pollution caused by the spill, if any.

c. Provide technical assistance and advice to the OSC and the Scott AFB Medical Center with respect to the health hazards associated with oils and hazardous substances.

(6) Disaster Preparedness Officer will:

a. Insure that the Scott AFB Base Disaster Preparedness OPLAN 355-1 is coordinated with the SPR Plan in the event of a hazardous substance spill requiring the implementation of the OPLAN.

(7) Chief of Security Police will:

a. Instruct his organization to immediately respond to an actual or potential oil or hazardous substance spill, to isolate the spill area and control traffic when and where necessary as directed by the OSC.

b. Insure that during non-duty hours, including holidays, routine checks of the fuel storage areas, pumps and transfer equipment are conducted to assure that they are not being tampered with, subjected to unauthorized use, or display evidence of leaks or spillage.

c. Insure that while individuals in the security force are on normal patrols, they are continuously aware of oil and hazardous substance spills and report all areas that appear to be suspect.

(8) Liquid Fuels Maintenance Technician will:

a. Report to the scene at the request of the OSC to measure explosive vapor concentrations, and determine where explosion hazards exist. This information will be provided to the OSC for use in establishing the cordon.

(9) Staff Judge Advocate will:

a. Respond to all oil and hazardous substance pollution spills at the request of the OSC to ensure that information, records, and samples adequate for legal purposes are obtained and safeguarded for future use.

b. Advise the OSC on the legal aspects of spill response when parties other than the Air Force are responsible for the spill.

(10) Public Affairs Officer will:

a. Respond to all oil or hazardous substance spills when requested by the OSC.

b. Keep abreast of all base actions during a spill so as to be able to provide prompt and accurate news releases on the nature of the discharge and the steps being taken to correct the problem. This policy must be followed to obtain understanding from the public, insure cooperation from all interested parties, and to check the spread of misinformation.

c. Coordinate all news media releases involving base actions with the Wing Commander.

d. If the Regional Response Teams' News Office is activated, coordinate all news releases with them. If a Regional Response Team News Office is not activated, the EPA's Public Information Office can be contacted, if deemed appropriate (217-782-3397).

(11) Safety Officer will:

a. Provide technical assistance to the OSC with respect to the safety of personnel.

(12) Commander Scott AFB Medical Center will:

a. Insure that medical personnel and ambulance(s) are dispatched to the site of the spill as directed.

b. Insure that emergency treatment is rendered and injured personnel are removed to the clinic for treatment.

c. Insure that current and follow-up information on injured personnel is provided to the OSC as soon as possible.

d. Insure that the Medical Center staff is familiar with health effects of hazardous substances present on the base.

(13) Transportation Officer will:

a. Provide OSC with transportation as required for spill response personnel and equipment.

(14) Weather Squadron Officer will:

a. Insure that the OSC is provided with up-to-date weather information as requested.

(15) Chief of Operations and Training will:

a. Insure that a photographer will document with photographs the extent of the spill and the containment, countermeasures, and restoration procedures utilized, as directed by the OSC.

(16) In addition to the base organizations and personnel assigned to the response effort, provisions have been made for including off-base organizations in the response organization when on-base spill response resources and expertise are insufficient, and when off-base water, land, or air are adversely affected. Some of the significant off-base spill response resources that can be incorporated into the SRT, as needed, are discussed in the paragraphs below. A current listing of telephone numbers to contact these organizations is presented in Annex VII.

a. Air Force Engineering Service Center (AFESC)

The Air Force Engineering Service Center is assigned the responsibility to provide technical guidance and assistance to major commands and bases in contingency operations and environmental planning. Technical expertise can be provided to the Air Force OSC on hazardous material identification, control, clean-up and disposal. The AFESC/DEVP is located at Tyndall Air Force Base, Florida and can be contacted in the following manner:

AUTOVON	970-6167
COMMERCIAL	(904) 283-6167

b. Regional Response Team

Scott AFB falls under the jurisdiction of the U.S. EPA, Region V. The Regional Response Center will be able to provide additional equipment, personnel, expertise and data bases to aid in the response to major spills.

c. State of Illinois Response Team

The State of Illinois Department of Natural Resources has developed an Emergency Response Team to respond to spills occurring within the State boundaries. The State on-scene coordinator will be briefed fully by the Base OSC on the spill response. The State OSC will be familiar with the available sources of spill response equipment and materials within Illinois.

d. Mutual Support Agreements

1. Currently, there is a mutual aid agreement between Scott Air Force Base and the following Fire Departments and Districts:

(a) Belleville Fire Department

(b) Shiloh Valley Fire Department

(c) Lebanon Volunteer Fire Department

(d) Clinton/St Clair County Fire Department

(e) Mascoutah Volunteer Fire Department

(f) Emerald Mound Fire Department

(g) O'Fallon Volunteer Fire Department

(h) East Side Volunteer Fire Department

(i) New Baden Volunteer Fire Department

(j) Mascoutah District Fire Department

2. The agreement stipulates that upon an official request by one of the above, the Civil Engineering Fire Department will dispatch a limited amount of fire fighting equipment and personnel to the required area.

3. The agreement also provides the base with similar aid from the above Fire Departments. This is in accordance with AFR 92-1.

4. Although no formal written agreements exist for mutual police support, the St. Clair Police Department will be contacted to provide assistance in securing any off-base areas in proximity to the spill site, dissemination of information to the local populace, and assist in evacuations if necessary.

5. These agencies may be activated through procedures established in either Scott OPLAN 355-1 (Disaster Preparedness) or Scott OPLAN 932-85 (Base Recovery).

e. Private Contractors

Private contractors are included in the response organization primarily to conduct clean-up and restoration work when Base resources are insufficient to conduct these activities. Names of reputable contractors have been obtained from the Illinois Environmental Protection Agency, Emergency Response Unit. Available local contractors include Riedel Emergency Services (314-532-7660), O.H. Materials (314-441-8641) and Petro Chem (312-739-1150). No advanced contract arrangements have been made by the base with any outside contractors.

f. CHEMTREC

CHEMTREC, the Chemical Transportation Emergency Center, is a 24-hour hot line that provides warnings and limited guidance to the OSC when a spill product can be identified by either chemical or trade name. CHEMTREC will also assist the OSC in contracting the manufacturer or shipper for additional information. This service should be used whenever adequate spill

response information is not available. The telephone number for CHEMTEC is 1-800-424-9300.

g. CHRIS Manual - Chemical Hazards Response Information System

The CHRIS manual is an official publication of the U.S. Coast Guard that currently provides technical information and appropriate response procedures for over 1,000 different substances. The manual contains four volumes which are periodically updated. CHRIS data forms for many of the chemicals stored at the base have been included in Annex III of this document.

h. ETIS - Environmental Technical Information System

ETIS is a computerized information system which contains Federal and state environmental regulations, directories of Federal and state environmental contacts and computer modeling capabilities. The ETIS overall system manager is the U.S. Army Construction Engineering Research Laboratory located at Champaign, Illinois. The Environmental Planning Directorate at AFESC manages Air Force use of the system. Additional information on the system and how to access it can be obtained by calling AUTOVON 970-6167 or Commercial (904) 283-1667.

i. OHMTADS - Oil and Hazardous Materials Technical Assistance Data System, EPA

Usually called TADS, this system is a computerized information retrieval file on various hazardous substances. The data base contains chemical, biological, toxicological and response information on more than 1,000 chemicals and can be accessed by either chemical or trade names. The TADS system should be considered for both spill response planning and as a source of vital information during a spill response. AFESC/DEV can provide information on this system including how to subscribe or access the system through ETIS.

j. USAF Occupational and Environmental Health Laboratory (OEHL)

The OEHL is assigned responsibility for providing consulting services on spill sampling contaminant treatment methods, as well as analytical support during response and recovery operations. For complex spill problems, on-site support may be provided, call AUTOVON 240-3626.

Plan Execution

Due to the diversity of materials stored on base and the variable severity of the hazards presented in the event of a spill, the response actions will vary. General procedures are outlined in the following sub-sections. These procedures should be reviewed and if necessary, updated prior to adopting courses of action in a particular situation. The table in Annex I and maps in Annex IX should be consulted with regard to the reportable actions. If a Site-Specific Contingency Plan exists for the spill area in

question, it will be noted in the Contingency Action column of the Annex I table and should be referred to in Annex II. It should be noted that this plan deals only with solid and liquid phase pollutants. Releases of gaseous substances, because of their rapid dispersion and often highly hazardous nature should be dealt with in accordance with Scott AFB OPLAN 355-1, Disaster Preparedness.

The execution of the SPR Plan is divided into two phases; Phase I - Spill Discovery and Initial Notification; Phase II - Response Actions. Phase I designates the initial spill response or potential spill of oil or hazardous substances. It also designates the procedures to be followed by the Fire Department, Base Environmental Coordinator, Base Civil Engineer and CE Service Desk in providing rapid notification of the spill to the proper on-base personnel and organizations. Phase II then designates the general response actions to be taken by the OSC in containing, cleanup and restoring the spill site.

Phase I - Spill Discovery and Initial Notification

(1) Person(s) discovering spill is responsible for providing initial defensive actions without undue risk of personal injury.

a. The following actions will be implemented as necessary upon discovery of a spill. The order of the actions will depend on existing conditions.

1. Initiate evacuation, if necessary.

2. Notify Base Fire Department On-Base Ext. 117, Off-Base Telephone No. 744-1117.

3. Stop source of spill when possible without undue risk of personal injury; to include use of on-site spill containment equipment and materials.

4. Make spill scene OFF LIMITS to unauthorized personnel.

5. Restrict all sources of ignition when flammable substances are involved.

6. Report to on-scene coordinator upon arrival.

b. When notifying the Fire Department of the spill occurrence, the following information should be provided if known or can reasonably be determined.

1. Name of individual reporting spill.

2. Location of spill.

3. Number of injured personnel and nature of injuries (if applicable).

4. Substance spilled.

5. Amount spilled (estimated).

6. Rate material currently spilling (estimated).

7. Time spill occurred (estimated).

8. Extent which spill has traveled.

9. Any additional pertinent information (i.e., other potential hazards).

(2) The Fire Department will:

a. Record spill reports on a Spill Incident Checklist Log designed to record the information listed in the above paragraph (1)b along with the time of the report.

b. Immediately respond as necessary to protect life and property with due regard for the environment.

c. Notify the Fire Chief and Base Environmental Coordinator (or Base Civil Engineer if Environmental Coordinator cannot be contacted) as well as the Scott AFB Medical Center if injuries are reported. The Spill Incident Checklist Log will contain a notice instructing the dispatch operator to immediately institute these notifications. The checklist will include the Duty and Non-Duty telephone numbers for the above mentioned personnel. The current duty telephone numbers for these personnel are listed in Annex VI.

(3) The Base Environmental Coordinator or Civil Engineer will:

a. Immediately proceed to the spill site and evaluate the severity of the spill and determine the response necessary for containment and recovery.

b. Advise the OSC as to the necessity for activation of the Spill Response Team (SRT).

c. On the authorization of the OSC, notify specifically requested members of the SRT or instruct the CE Service Desk to notify these members to assemble at the area designated by the OSC or the Environmental Coordinator within 15 minutes of notification.

d. Respond with available men, equipment, and materials if requested by appropriate authority and approved by the OSC.

(4) The CE Service Desk will:

a. Maintain a current list of all members of the Spill Response Team (SRT) along with their duty telephone numbers (Annex VI) as well as non-duty telephone numbers.

b. Contact the SRT members designated by the OSC or the Environmental Coordinator and inform them to assemble within 15 minutes at a specified location.

Phase II - Spill Response Actions

(1) In the event of a spill of oil or hazardous substances, the OSC will be responsible for directing and coordinating all spill response actions. The OSC or his designee will maintain an Incident Log detailing all actions taken during the course of the pollution spill response. The log will include: a description of pollutant; the actions taken to recover the pollutant and restore the environment; and any additional significant information. Spill response actions under the responsibility of the OSC are:

a. Activate or authorize action of appropriate members of the Spill Response Team (SRT) based on information relayed during initial notification or information provided by the Environmental Coordinator, and immediately investigate the reported spill.

b. Determine source, type and approximate quantity of spill substance.

c. Evaluate magnitude and severity of the threat to public health, welfare and natural resources. The Material Safety Data Sheets contained in Annex III should be utilized as required to determine potential health, fire and pollution affects associated with the spill material.

d. Take appropriate safety precautions to protect response personnel and any additional personnel located in close proximity to the probable spill route. Base Security Police will be utilized for implementing evacuation or traffic control measures.

e. Determine the party responsible for spill, if other than the Air Force. The responsible party should be informed of the spill and their response action evaluated by the Base OSC. If their response actions are inadequate in the judgement of the OSC, they should first be informed of their financial liability, and then if their spill response actions remain inadequate, the Base OSC should assume control of the spill response. In all response actions involving parties other than the Air Force, the Base Judge Advocate should be informed. If a contractor is involved with a spill, the contracting office should be notified (Ext 63036).

f. Determine cause of spill and institute appropriate action to stop the source of spill if spill is still occurring.

g. Institute spill containment procedures. The primary concern is to confine spills as close to their source as practical and if at all possible prevent spills from exiting base property. In accomplishing this task, the OSC should refer to the following sources of information contained in this document:

1. Annex I for maximum potential spill quantities, available secondary containment, probable spill routes and general contingency actions.

2. Annex II for Site-Specific Contingency Plan when the existence of such a plan is stated under "Contingency Action" in Annex I.

3. Annex III for the health hazards, fire hazards, pollution potential and physical and chemical properties of the spill materials.

4. Annex VIII for maps to assist in the determination of probable spill routes, access to the spill sites, location of remote secondary containment and spill containment areas.

5. Annex V for spill response equipment inventory and location of equipment.

6. Annex IV for a listing of the containment facilities located on Base which may potentially be used for containment of spills.

h. Contact MAC/DEEV (Ext. 65764), even if base personnel are uncertain of the spill classification. The purpose of the telecon is to verify the spill classification or aid in the classification when uncertainty exists and to gather available information on reportable spills to support the initial command telecon report to USAF/LEEV. For spills occurring after normal duty hours or on weekends, the MAC/DE alert duty officer should be contacted through the MAC Command Post, (Ext. 63325). As much of the following information as can be reasonably determined should be initially reported.

- Name of installation.

- Location of incident and geography.

- OSC name and telephone number.

- Time of spill.

- Type and estimated quantity of spill substance.

- Magnitude and severity of the threat to public health, welfare and natural resources.

- Weather conditions at spill site.

- Cause of incident.

- Anticipated containment and clean-up action and effectiveness.

- Need for assistance by National, regional, or state response teams.

- Any other pertinent information.

i. Determine if the vulnerable areas listed in Annex VIII (i.e. wastewater treatment plant or recreational waters) might be adversely affected and notify the appropriate personnel or organizations listed in the Annex.

j. Determine if a Reportable Spill has occurred. Annex I includes Reportable Spill criteria for the substances identified on base as potential Reportable Spill substances. If the spill is deemed a "Reportable Spill" by the OSC, a confirming message containing the available information identified in paragraph (1)q of this section must be released and transmitted to MAC SCOTT AFB IL/DEEV/SGPAE with information copies to HQ USAF WASH DC/LEEV/SGES, HQ AFESC TYNDALL AFB FL/DEVP/PA/DEMM, HQ AFMSC BROOKS AFB TX/SGP, USAF OEHL BROOKS AFB TX/ECW, HQ USAF WASH DC/LEYF (when POL is involved) and HQ USAF WASH DC/RDCM (when industrial facilities are involved). This message should be transmitted within 4 hours of the telecon notification to MAC/DEEV. If the telecon notification is made after 1500 hours local, the message will be transmitted no later than 1000 hours the following day.

k. Telephone and message notification of other Federal and state agencies must be made promptly following telecon notification of reportable spill to MAC/DEEV. These agencies are:

National Response Center	(800) 424-8802
U.S. EPA, Region V Response Center	(312) 353-2318
Illinois Emergency Services & Disaster Agency	(800) 782-7860
Illinois EPA Emergency Response Unit	(217) 782-3637
St. Clair Emergency Services & Disaster Agency	(618) 277-3012

l. Direct Base Bioenvironmental Engineer to take samples to determine the chemical nature, pollutant concentration and extent of the spill as required for response actions and documentation.

m. Advise Base Public Affairs of the size and nature of the spill and response actions.

n. Initiate clean-up actions. Pollutants will be collected to the maximum extent possible.

1. Petroleum pollutants will be collected and stored in the waste oil storage facility.

2. Absorbent and similar material will be placed in 55 gallon drums, labeled, turned in to the Aqua Yard and stored there if necessary

until eventual disposal in accordance with Department of Defense (DOD) and RCRA regulations.

3. Hazardous pollutants will be collected in polyethylene lined drums (see 49 CFR 178.133) or other approved drums under 49 CFR 172.101 or 102, labeled, turned in to the Aqua Yard and stored there if necessary until eventual disposal in accordance with DOD and RCRA regulations. The Chemical Hazards Response Information System (CHRIS) Hazardous Chemical Data Sheets and Material Safety Data Forms included in Annex III should be consulted with regard to special procedures and precautions.

o. Officially classify oil spills using the following definitions:

1. Minor discharge. Minor discharge means a discharge to the inland waters of less than 1,000 gallons of oil; or a discharge to the coastal waters of less than 10,000 gallons of oil.

2. Medium discharge. Medium discharge means a discharge of 1,000 to 10,000 gallons of oil to the inland waters; or a discharge of 10,000 gallons to 100,000 gallons of oil to the coastal waters.

3. Major discharge. Major discharge means a discharge of more than 10,000 gallons of oil to the inland waters; or more than 100,000 gallons of oil to the coastal waters.

p. Following the initial confirmation message, the base will release and transmit subsequent messages every weekday as of 0800 hours due out by 1200 hours the same day. The report may be made by exception. Following the initial message, subsequent messages need not be transmitted on weekends or holidays unless specifically requested by MAC/DEEV. Addresses for the subsequent message reports are the same as those listed in paragraph (1)j of this section.

q. On completion of clean-up operations, a "close-up" report will be submitted to MAC/DEEV, with information copies to Region V, Environmental Protection Agency. In addition, the report must be submitted within 60 days of a "major" oil spill to the National Response Team and the Regional Response Team; within 60 days of a 1,000 gallon oil spill or two (2) reportable oil spills in twelve (12) months to the Regional Administrator of EPA; within 60 days of a reportable spill of Clean Water Act Section 311 substances to the Regional EPA Enforcement Division Director; and within 15 days of a spill of hazardous waste requiring the implementation of the SPR Plan to the Regional Administrator of EPA. Both regulatory agency reports and internal Air Force reports should contain all of the information listed below. However, the regulatory agency reports must be narrative format and the internal Air Force reports must be in the message format specified in AFR 19-8.

1. Name and address of installation and/or owner;

2. Name and telephone number of OSC;

3. Incident report (initial, second, third, final);

4. Date and time of incident;

5. Time of official spill notification to the National Response Center and other regional and state officials;

6. Location of incident and the nature of the terrain at the location, to include surface and subsurface drainage characteristics and relationships to water bodies (estimate extent of area affected such as miles of stream or acres of lake);

7. Weather conditions and how they affected response action;

8. Cause of incident;

9. Type and estimated amount (barrels, gallons, pounds) of pollutant and the official size classification (minor, medium, major);

10. Actual damage and/or potential threat to human life, to property (private, state, or Federal), and to plant or animal life;

11. Corrective action taken to eliminate pollution source;

12. Corrective taken to remove pollutant;

13. Assistance required;

14. Estimated completion date of remedial actions and anticipated effectiveness;

15. Estimated quantity and disposition as spill material and contaminated soil;

16. Confirmation that emergency response equipment is back in operation before resuming operating activities;

17. Description of any problems encountered during implementation of the SPR plan and an explanation of how the Spill Prevention and Response Plan was, or will be, modified to prevent the recurrence of the spill event;

18. Anticipated or actual reaction by the news media and public to the incident (Specify potential for liability in the internal Air Force reports only);

19. A copy of this SPR Plan if requested.

SECTION FIVE - TRAINING

Personnel Training Requirements

All personnel involved with the management and handling of oil and hazardous substances must take part in periodic spill prevention and response training programs. The training program will consist of formal training and on the job training incorporated into existing fire and safety training programs. The training will be conducted by an individual familiar with the SPR and hazardous waste management (i.e. the Base Environmental Coordinator and supervisory personnel from respective oil and hazardous substance storage areas). Others assisting with the training will include the Bioenvironmental Engineer, Fire Department and Disaster Preparedness Office. Training programs will include the following key features:

a. Introduction to RCRA;

b. Identification of Typical MAC RCRA Compounds;

c. Accumulation Point Management;

d. Containers and Container Management;

e. Container Marking and Labeling;

f. Recordkeeping;

g. Treatment, Storage, and Disposal Facility (TSDF) Management;

h. Turn-In Procedures;

i. Organization/Activity Responsibility;

j. Closure of Accumulation Points/TSDFs;

k. Contingency Plans/Emergency Responses;

l. Manifest and Transportation;

m. Commercial Disposal Facilities;

n. Hazardous Substance Characterization and Compatibility;

o. Fire Considerations; and

p. Safety Considerations.

Training programs will be conducted either annually or semi-annually (IAW the Hazardous Waste Training Program) for all personnel working at oil and hazardous substances sites; within six months (two weeks recommended) for all personnel starting a supervised position; prior to starting work for

personnel entering an unsupervised position; after any significant revisions to the training program or the SPR Plan, and after a spill response in which training deficiencies were noted. Records of the type, extent and frequency of each employee's training will be maintained until closure of the applicable area or until three years after the date the employee last worked. Training will be documented in each individual's training record. Newcomers to the base should be immediately informed of the general spill response and reporting procedures by including a procedural outline in each newcomer sponsor package.

Contractor Handling Oils and Hazardous Materials

Contractors working in areas associated with oils or hazardous substances are responsible for training their personnel in spill response and reporting procedures. The contract administrator for the Air Force is responsible for providing these contractors with a summary of spill response and reporting procedures.

Spill Response Team (SRT) Training

All base personnel designated in this document as part of the SRT must take part in periodic spill response training programs. The training will involve both general training and detailed training. The general training will consist of the applicable laws; base responsibilities; DOD and USAF policies; potential hazards to personnel, property and the environment from spill events; and the use of the SPR Plan including the function of the OSC, the designated responsibilities of member organizations and the general response procedures. The detailed training will be specifically structured for each response organization and address the following:

a. The responsibilities of the individual organization being trained;

b. The detailed response procedures to be followed in the event of a spill;

c. The location and use of spill response equipment;

d. The potential health and fire hazards associated with spill response activities.

The training will consist of formal classroom training and spill exercises. The OSC is responsible for the training program and the Base Environmental Coordinator will implement the program. The frequency of the training program, at a minimum, will correspond to the requirements designated for base personnel. Spill response exercises will be conducted at least once annually. Response to an actual spill will satisfy the annual requirement for spill response exercises. New SRT members should be given a copy of the SPR Plan and briefed when they are assigned to the team.

SECTION SIX - PLAN REVIEW AND UPDATE

The SPR Plan will be reviewed, at a minimum, annually and amended as required. Other circumstances which will warrant a plan review and update are listed as follows:

a. When RCRA permit is modified;

b. When facility changes occur which increase the potential for spills or change the spill prevention and response procedure methods and equipment;

c. When the SPR Plan fails or proves to be ineffective in the prevention of or response to a spill event;

d. At the request of the U.S. Environmental Protection Agency;

e. When changes occur in the OSC or SRT or spill response equipment list;

f. After enactment of, or amendment to, pertinent Federal or state legislation, or changes in DOD or USAF policy. Particular attention should be given to changes in reportable spill quantities;

g. After pertinent modifications of Federal, regional and state contingency plans;

h. After any changes in adjacent land and water use that would affect spill prevention and response considerations;

i. At the request of the Scott AFB Environmental Protection Committee or its Subcommittee on spills.

The Environmental Protection Subcommittee on spills will conduct these reviews utilizing the same procedures used in the initial plan development of the document (refer to USAF Guidance Manual for Preparation of SPR Plans). The review will include detailed inspection of oil and hazardous substance sites and verification of all data generated during the initial plan development. When possible, a professional engineer will take part in these inspections. The Environmental Protection Subcommittee on spills will submit a report to the Environmental Protection Committee describing any deficiencies and recommended corrective actions.

The Environmental Protection Committee will be responsible for reviewing the report, monitoring any corrective actions and amending the SPR Plan when necessary. The review of the SPR Plan, and any resulting amendments or changes to the plan will be logged on the record sheet at the front of this document. If amendments or changes significantly affect the SPCC portion of the plan, Annex I; the plan must be recertified by a professional engineer.

ANNEX I

OIL AND HAZARDOUS SUBSTANCE SITE SPILL PREVENTION MECHANISMS AND CONTINGENCY ACTIONS

Contents

Section I - Oil and Hazardous Substance Site Spill Prevention Control and Countermeasures Summary

Section II - Oil and Hazardous Substance Site Spill Prevention Control and Countermeasure Explanatory TABs

Section III - Certification and Approval Signatures

SECTION I Oil and Hazardous Substance Site Spill Prevention Control and Countermeasures Summary

An inspection of existing oil or hazardous substance storage facilities which have the potential for incurring a Reportable Spill defined by 40 CFR 110, 40 CFR 112, 40 CFR 117, CERCLA and applicable state regulations was conducted at Scott AFB. The inspection included all facilities listed on the following table with verification dates recorded. The information recorded for these facilities was developed from interviews with base personnel and review of the existing "Oil and Hazardous Substance Pollution Contingency Plan."

The table within this section has been divided into five categories:

(1) Heating Oil Storage Facilities;

(2) Aircraft/Vehicle Fuel Storage Facilities;

(3) Waste Petroleum Products, Hazardous Materials Storage Facilities, and Hazardous Waste Generation and Accumulation Points.

(4) Emergency Generators

(5) Sanitary Waste Water Collection System.

Each category is arranged in a sequential order by facility number with the miscellaneous non-number facilities located at the end of the appropriate category division.

The table contains site description information, maximum spill quantities and the grid coordinates associated with the Oil and Hazardous Substance Site Location Map, Annex VIII. In addition, available information concerning reportable spill quantities, secondary containment features, probable spill routes, contingency actions, visual inspection procedures, preventive maintenance, housekeeping, material compatibility, security, monitoring procedures and Standing Operating Procedures (SOP's) are specifically referenced for each facility. These references are described in the SPCC Explanatory TAB's found in Section II.

OIL AND HAZARDOUS SUBSTANCE SITE SPILL CONTROL AND COUNTERMEASURES

Facility Number	Substance Stored	Site Description	Grid Coord. Annex VIII	Max. Spill Quality (gal.)	Reportable Spill Qty	2nd-ary Containment	Probable Spill Route (Refer to Maps in Annex VIII)	Contingency Action	Visual Inspection	Prev. Maint.	House-Keeping	Material Compatability	Security	Monitoring	Verification Date
1. Heating Oil Storage Facilities															
Bldg 255	No. 2 Fuel Oil	1000 gal U/G Tank	Off-Base	1,000	E-1	F-2	G-1	H-1	I-1	J-1	K-1	L-1	M-1	N-1 N-8	1/27/86
Bldg 351	No. 2 Fuel Oil	500 gal A/G Tank	15.8, M.8	500	E-1	F-4	G-5	H-2	I-2	J-2	K-1	L-1	M-1	N-1	7/16/85
Bldg 500		1500 gal	Off-Base	1,500											
Bldg 503	No. 2 Fuel Oil	1000 gal A/G Tank	16.5, I.5	1,000	E-1	F-4	G-5	H-2	I-2	J-2	K-1	L-1	M-1	N-1	7/16/85
Bldg 505	No. 2 Fuel Oil	1500 gal A/G Tank	16.5, H.2	1,500	E-1	F-4	G-5	H-2	I-2	J-2	K-1	L-1	M-1	N-1	7/16/85
Bldg 506	No. 2 Fuel Oil	5000 gal U/G Tank	16.7, G.7	5,000	E-1	F-2	G-1	H-1	I-1	J-1	K-1	L-1	M-1	N-1 N-8	1/27/86
Bldg 509	No. 2 Fuel Oil	1000 gal A/G Tank	15.8, G.6	1,000	E-1	F-3	G-5	H-2	I-1	J-2	K-1	L-1	M-1	N-1	7/16/85
Bldg 514	No. 2 Fuel Oil	1000 gal A/G Tank	16.0, G.0	1,000	E-1	F-3	G-5	H-2	I-2	J-2	K-1	L-1	M-1	N-1	7/16/85
Bldg 515	No. 2 Fuel Oil	1000 gal A/G Tank	15.5, G.2	1,000	E-1	F-3	G-5	H-2	I-2	J-2	K-1	L-1	M-1	N-1	7/16/85
Bldg 516/517	No. 2 Fuel Oil	1000 gal A/G Tank	15.3, G.0	1,000	E-1	F-3	G-5	H-2	I-2	J-2	K-1	L-1	M-1	N-1	7/16/85
Bldg 528	No. 2 Fuel Oil	1000 gal A/G Tank	14.7, H.8	1,000	E-1	F-4	G-5	H-2	I-2	J-2	K-1	L-1	M-1	N-1	3/10/86

OIL AND HAZARDOUS SUBSTANCE SITE
SPILL CONTROL AND COUNTERMEASURES

Facility Number	Substance Stored	Site Description	Grid Coord. Annex VIII	Max. Spill Quality (gal.)	Reportable Spill Qty	2nd-ary Containment	Probable Spill Route (Refer to Maps in Annex VIII)	Contingency Action	Visual Inspection	Prev. Maint.	House-Keeping	Material Compatability	Security	Monitoring	Verification Date
Bldg 530	No. 2 Fuel Oil	2-1000 gal A/G Tanks	14.3, G.5	2,000	E-1	F-3	G-5	H-2	I-2	J-2	K-1	L-1	M-1	N-1	3/10/86
Bldg 531	No. 2 Fuel Oil	1000 gal A/G Tank	14.6, G.3	1,000	E-1	F-3	G-5	H-2	I-2	J-2	K-1	L-1	M-1	N-1	3/10/86
Bldg 532	No. 2 Fuel Oil	1500 gal A/G Tank	14.5, F.8	1,500	E-1	F-3	G-5	H-2	I-2	J-2	K-1	L-1	M-1	N-1	3/10/86
Bldg 533	No. 2 Fuel Oil	1000 gal 275 gal A/G Tanks	14.3, F.9	1,275	E-1	F-3 F-4	G-5	H-2	I-2	J-2	K-1	L-1	M-1	N-1	7/16/85
Bldg 535	No. 2 Fuel Oil	275 gal A/G Tank	14.5, F.6	275	E-1	F-4	G-5	H-2	I-2	J-2	K-1	L-1	M-1	N-1	7/16/85
Bldg 538	No. 2 Fuel Oil	1000 gal A/G Tank	14.9, F.4	1,000	E-1	F-3	G-5	H-2	I-2	J-2	K-1	L-1	M-1	N-1	7/16/85
Bldg 543	No. 2 Fuel Oil	1000 gal A/G Tank	15.1, F.5	1,000	E-1	F-3	G-5	H-2	I-2	J-2	K-1	L-1	M-1	N-1	7/16/85
Bldg 741	No. 2 Fuel Oil	1000 gal A/G Tank	21.7, F.8	1,000	E-1	F-5	G-5	H-2	I-2	J-2	K-1	L-1	M-1	N-1	7/16/85
Bldg 742	No. 2 Fuel Oil	2-8000 gal U/G Tanks	19.6, G.4	16,000	E-1	F-2	G-1	H-1	I-1	J-1	K-1	L-1	M-1	N-1 N-8	1/27/86
Bldg 853	No. 2 Fuel Oil	1500 gal A/G Tank	25.6, F.0	1,500	E-1	F-5	G-5	H-2	I-2	J-2	K-1	L-1	M-1	N-1	7/16/85
Bldg 854	No. 2 Fuel Oil	1500 gal A/G Tank	26.2, F.0	1,500	E-1	F-5	G-5	H-2	I-2	J-2	K-1	L-1	M-1	N-1	7/16/85

OIL AND HAZARDOUS SUBSTANCE SITE SPILL CONTROL AND COUNTERMEASURES

Facility Number	Substance Stored	Site Description	Grid Coord. Annex VIII	Max. Spill Quality (gal.)	Reportable Spill Qty	2nd-ary Containment	Probable Spill Route (Refer to Maps in Annex VIII)	Contingency Action	Visual Inspection	Prev. Maint.	House-Keeping	Material Compatability	Security	Monitoring	Verification Date
Bldg 855	No. 2 Fuel Oil	1000 gal A/G Tank	26.7, F.0	1,000	E-1	F-5	G-5	H-2	I-2	J-2	K-1	L-1	M-1	N-1	7/16/85
Bldg 869	No. 2 Fuel Oil	2-20,000 U/G Tanks	24.3, F.3	40,000	E-1	F-2	G-1	H-1	I-1	J-1	K-1	L-1	M-1	N-1 N-8	1/27/86
Bldg 877	No. 2 Fuel Oil	1500 gal A/G Tank	25.6, E.7	1,500	E-1	F-5	G-5	H-2	I-2	J-2	K-1	L-1	M-1	N-1	7/16/85
Bldg 878	No. 2 Fuel Oil	1500 gal A/G Tank	26.2, E.7	1,500	E-1	F-3	G-5	H-2	I-2	J-2	K-1	L-1	M-1	N-1	7/16/85
Bldg 879	No. 2 Fuel Oil	1500 gal A/G Tank	26.7, E.7	1,500	E-1	F-5	G-5	H-2	I-2	J-2	K-1	L-1	M-1	N-1	7/16/85
Bldg 1197	No. 2 Fuel Oil	1000 gal A/G Tank	21.4, S.8	1,000	E-1	F-3	G-2	H-2	I-2	J-2	K-1	L-1	M-1	N-1	7/16/85
Bldg 1533	No. 2 Fuel Oil	1000 gal A/G Tank	8.4, N-5	1,000	E-1	F-3	G-6	H-2	I-2	J-2	K-1	L-1	M-1	N-1	7/16/85
Bldg 1961	No. 2 Fuel Oil	5000 gal U/G Tank	11.5, G.5	5,000	E-1	F-2	G-1	H-1	I-1	J-1	K-1	L-1	M-1	N-1 N-8	1/27/86
Bldg 1970	No. 2 Fuel Oil	1000 gal A/G Tank	10.0, H.4	1,000	E-1	F-3	G-6	H-2	I-2	J-2	K-1	L-1	M-1	N-1	7/16/85
Bldg 3165	No. 2 Fuel Oil	1000 gal A/G Tank	30.3, K.6	1,000	E-1	F-3	G-4	H-2	I-2	J-2	K-1	L-1	M-1	N-1	7/16/85
Bldg 3184	No. 2 Fuel Oil	1000 gal U/G Tank	28.3, L.2	1,000	E-1	F-2	G-1	H-1	I-1	J-1	K-1	L-1	M-1	N-1 N-8	1/27/86
Bldg 3270	No. 2 Fuel Oil	1500 gal A/G Tank	33.7, F.3	1,500	E-1	F-5	G-5	H-2	I-2	J-2	K-1	L-1	M-1	N-1	7/16/85

OIL AND HAZARDOUS SUBSTANCE SITE SPILL CONTROL AND COUNTERMEASURES

Facility Number	Substance Stored	Site Description	Grid Coord. Annex VIII	Max. Spill Quality (gal.)	Reportable Spill Qty	2ndary Containment	Probable Spill Route (Refer to Maps in Annex VIII)	Contingency Action	Visual Inspection	Prev. Maint.	Housekeeping	Material Compatability	Security	Monitoring	Verification Date
Bldg 3271	No. 2 Fuel Oil	1500 gal A/G Tank	33.1, F.2	1,500	E-1	F-5	G-5	H-2	I-2	J-2	K-1	L-1	M-1	N-1	7/16/85
Bldg 3272	No. 2 Fuel Oil	1500 gal A/G Tank	34.2, F.6	1,500	E-1	F-3	G-5	H-2	I-2	J-2	K-1	L-1	M-1	N-1	7/16/85
Bldg 3273	No. 2 Fuel Oil	1000 gal A/G Tank	33.5, F.5	1,000	E-1	F-3	G-5	H-2	I-2	J-2	K-1	L-1	M-1	N-1	7/16/85
Bldg 3274	No. 2 Fuel Oil	1000 gal A/G Tank	34.5, G.0	1,000	E-1	F-5	G-5	H-2	I-2	J-2	K-1	L-1	M-1	N-1	7/16/85
Bldg 3275	No. 2 Fuel Oil	1500 gal A/G Tank	33.8, F.8	1,500	E-1	F-5	G-5	H-2	I-2	J-2	K-1	L-1	M-1	N-1	7/16/85
Bldg 3277	No. 2 Fuel Oil	1000 gal A/G Tank	34.3, G.3	1,000	E-1	F-5	G-5	H-2	I-2	J-2	K-1	L-1	M-1	N-1	7/16/85
Bldg 3279	No. 2 Fuel Oil	1000 gal A/G Tank	34.6, G.6	1,000	E-1	F-5	G-5	H-2	I-2	J-2	K-1	L-1	M-1	N-1	7/16/85
Bldg 3287	No. 2 Fuel Oil	1000 gal A/G Tank	33.5, H.3	1,000	E-1	F-3	G-4	H-2	I-2	J-2	K-1	L-1	M-1	N-1	7/16/86
Bldg 3650	No. 2 Fuel Oil	5000 gal A/G Tank	28.8, Q.9	5,000	E-1	F-2	G-1	H-1	I-1	J-1	K-1	L-1	M-1	N-1	
Bldg 4141	No. 2 Fuel Oil	1000 gal A/G Tank	26.5, E.2	1,000	E-1	F-5	G-5	H-2	I-2	J-2	K-1	L-1	M-1	N-1	7/16/85
Bldg 4157	No. 2 Fuel Oil	1000 gal A/G Tank	27.3, D.8	1,000	E-1	F-5	G-5	H-2	I-2	J-2	K-1	L-1	M-1	N-1	7/16/85
Bldg 4180	No. 2 Fuel Oil	1000 gal A/G Tank	28.5, D.4	1,000	E-1	F-5	G-5	H-2	I-2	J-2	K-1	L-1	M-1	N-1	7/16/85

OIL AND HAZARDOUS SUBSTANCE SITE SPILL CONTROL AND COUNTERMEASURES

Facility Number	Substance Stored	Site Description	Grid Coord. Annex VIII	Max. Spill Quality (gal.)	Reportable Spill Qty	2nd-ary Containment	Probable Spill Route (Refer to Maps in Annex VIII)	Contingency Action	Visual Inspection	Prev. Maint.	House-Keeping	Material Compatability	Security	Monitoring	Verification Date
Fac 8455	No. 2 Fuel Oil	420,000 A/G Tank	14.6, J.0	420,000	E-1	F-6	G-8	H-1 Annex	I-2	J-2		L-1	M-1	N-1	7/16/85
Aqua Yard	No. 2 Fuel Oil	5-25,000 U/G Tanks	15.7, I.3	125,000	E-1	F-2	G-1	H-1	I-1	J-1	K-1	L-1	M-1	N-1 N-8	1/27/86

OIL AND HAZARDOUS SUBSTANCE SITE
SPILL CONTROL AND COUNTERMEASURES

Facility Number	Substance Stored	Site Description	Grid Coord. Annex VIII	Max. Spill Quality (gal.)	Reportable Spill Qty	2nd-ary Containment	Probable Spill Route (Refer to Maps in Annex VIII)	Contingency Action	Visual Inspection	Prev. Maint.	House-Keeping	Material Compatability	Security	Monitoring	Verification Date
2. Aircraft/Vehicle Fuel Storage Facilities.															
Bldg 48	Gasoline	11,000 gal, 2-12,000gal U/G Tanks	14.8, I.7	35,000	E-1	F-2	G-1	H-1			K-1	L-1	M-2	N-2 N-8	1/27/86
Bldg 456	JP-4, Gasoline	1000 gal, 500 gal U/G Tanks	16.2, N.0	1,500	E-1	F-2	G-1	H-1	I-1		K-1	L-1	M-2	N-2 N-8	1/27/86
Bldg 508	JP-4	11,000 gal, 2-50,000gal U/G Tanks	16.9, G.1	111,000	E-1	F-2	G-1	H-1	I-1		K-1	L-1	M-2	N-2 N-8	1/27/86
Bldg 3172	JP-4	5000 gal U/G Tank	29.6, M.4	5,000	E-1	F-2	G-1	H-1	I-1		K-1	L-1	M-2	N-2 N-8	1/27/86
Bldg 3200	Gasoline, Diesel	2-5000 gal U/G Tanks	33.0, F.7	10,000	E-1	F-2	G-1	H-1			K-1	L-1	M-2	N-2 N-8	1/27/86
Fac 8550/8570	JP-4	2-210,000 A/G Tanks	16.4, F.3	420,000	E-1	F-7	G-9	H-2 Annex	I-3 I-4	J-3	K-1	L-1	M-3	N-4	3/11/86
Fac 8552/8554	JP-4	2-27,000 A/G Tanks	27.3, N.2	54,000	E-1	F-8	G-10	H-2 Annex	I-3 I-4	J-3	K-1	L-1	M-3	N-4	3/11/86

OIL AND HAZARDOUS SUBSTANCE SITE
SPILL CONTROL AND COUNTERMEASURES

Facility Number	Substance Stored	Site Description	Grid Coord. Annex VIII	Max. Spill Quality (gal.)	Reportable Spill Qty	2nd-ary Containment	Probable Spill Route (Refer to Maps in Annex VIII)	Contingency Action	Visual Inspection	Prev. Maint.	House-Keeping	Material Compatability	Security	Monitoring	Verification Date
3. Waste Petroleum Products, Hazardous Material Storage, Hazardous Waste Accumulation Points and Generators															
Bldg 36	Caustic Soda	300 gal tank, 5 gal containers	15.5, J.6	500	E-2	F-9	G-11	H-3	I-5 I-8			L-1	M-4	N-5	
Bldg 45	B-3	1500 gal tank, 55 gal drums, qt bottles, pt bottles	15.0, I.8	2,000	E-2	F-10	G-12	H-3	I-6 I-8			L-2	M-5	N-6	3/14/86
Bldg 441/443	B-4 B-6	55 gal drums	16.5, L.5	850	E-2	F-11	G-13	H-2 Annex	I-7 I-8	J-4	K-1	L-2	M-4		2/3/86
Bldg 506	B-5	55 gal drums	16.5, G.5	175	E-2	F-1	G-11	H-2	I-7 I-8	J-4	K-1	L-1	M-6		3/5/86
Bldg 512															
Bldg 519	B-2A	B-2A	15.9, F.4	350	B-2A	F-13	G-5	H-2	I-7 I-8	J-4		L-1	M-4		3/6/86
Bldg 532	B-6 B-9	55 gal drums, 1 gal, 5 gal cans	14.8, F.7	550	E-2	F-1	G-5	H-2	I-7 I-8		K-1	L-2	M-4 M-7		3/17/86
Bldg 548	B-6 B-7 B-8	55 gal drums 5 gal cans	14.0, F.5	850	E-1 E-2	F-12	G-15	H-2	I-8 I-9		K-1	L-2	M-8		2/13/86

OIL AND HAZARDOUS SUBSTANCE SITE
SPILL CONTROL AND COUNTERMEASURES

Facility Number	Substance Stored	Site Description	Grid Coord. Annex VIII	Max. Spill Quality (gal.)	Reportable Spill Qty	2nd-ary Containment	Probable Spill Route (Refer to Maps in Annex VIII)	Contingency Action	Visual Inspection	Prev. Maint.	House-Keeping	Material Compatability	Security	Monitoring	Verification Date
Bldg 742	B-9	55 gal drum	19.5, G.5	110	E-2	F-12	G-14		I-8 I-9	J-4	K-1	L-1	M-6		3/5/86
Bldg 1197	B-2B	B-2B	21.3, S.8	150	B-2B	F-1	G-2	H-2	I-8 I-9	J-4	K-1	L-2	M-8		
Bldg 4001															
Bldg 4005	B-1 Caustic Soda	B-1	22.7, D.2	1,400	B-2A	F-14	G-5	H-2	I-7	J-4	K-2	L-2	M-7		3/6/86
Conex Shed, SE of Bldg 54	Sulfuric Acid, Batteries	1 gal containers	16.0, F.9	35	E-2	F-1	G-14		I-10		K-1	L-1	M-4		3/14/86
Aqua Yard	B-6 B-8 B-10	4-10,000 gal 2-12,000 gal U/G Tanks	15.7, I.2	66,000	E-1 E-2	F-15	G-1 G-14		I-9		K-1	L-2	M-3	N-8	1/27/86
Bldg 528	Ammonia	150 Lb Cylinders	14.8 G.9		100 lbs										
Bldg 700	Ammonia	150 1b Cylinders	23.3 F.5		100 lbs										
Bldg 1600	Ammonia	150 1b Cylinders	11.6 K.7		100 lbs										

OIL AND HAZARDOUS SUBSTANCE SITE SPILL CONTROL AND COUNTERMEASURES

Facility Number	Substance Stored	Site Description	Grid Coord. Annex VIII	Max. Spill Quality (gal.)	Report-able Spill Qty	2nd-ary Con-tain-ment	Probable Spill Route (Refer to Maps in Annex VIII)	Contingency Action	Visual Inspec-tion	Prev. Maint.	House-Keeping	Mate-rial Comp-atab-ility	Secu-rity	Moni-toring	Verifi-cation Date
Bldg 3292	Chlorine	2-1 ton Cylinders	34.9 F.2												
Bldg 3295	Chlorine	150 lbs Cylinders	34.0 F.0												
Bldg 42	Chlorine	150 lbs Cylinders	14.7 J.5												
Bldg 155	Chlorine	150 lbs Cylinders	13.0 L.9												
Bldg 1504	Chlorine	150 lbs Cylinders	9.4 O.7												
Bldg 1985	Chlorine	150 lbs Cylinders	8.1 H.2												

OIL AND HAZARDOUS SUBSTANCE SITE
SPILL CONTROL AND COUNTERMEASURES

Facility Number	Substance Stored	Site Description	Grid Coord. Annex VIII	Max. Spill Quality (gal.)	Reportable Spill Qty	2ndary Containment	Probable Spill Route (Refer to Maps in Annex VIII)	Contingency Action	Visual Inspection	Prev. Maint.	Housekeeping	Material Compatability	Security	Monitoring	Verification Date
4. Emergency Generators															
Bldg 5	Diesel	550 gal U/G Tank	14.0, K.3	550	E-1	F-2	G-1	H-1	I-11	J-5	K-1	L-1	M-9	N-7 N-8	1/27/86
Bldg 33	Gasoline	275 gal U/G Tank	15.5, K.0	275	E-1	F-2	G-1	H-1	I-11	J-5	K-1	L-1	M-9	N-7 N-8	1/27/86
Bldg 45	Gasoline	500 gal U/G Tank	15.1, I.9	500	E-1	F-2	G-1	H-1	I-11	J-5	K-1	L-1		N-7 N-8	1/27/86
Bldg 50	Diesel	4000 gal U/G Tank 70 gal unit Mounted Tank	14.0, I.6	4,070	E-1	F-2	G-1 G-11	H-1 H-2	I-11	J-5	K-1	L-1	M-1	N-7 N-8	1/27/86
Bldg 250	Diesel	550 gal U/G Tank	Off-Base	550	E-1	F-2	G-1	H-1	I-11	J-5	K-1	L-1	M-1	N-7 N-8	1/27/86
Bldg 262	Diesel	300 gal U/G Tank	Off-Base	300	E-1	F-2	G-1	H-1	I-11	J-5	K-1	L-1	M-1 M-3	N-7 N-8	1/27/86
Bldg 433	Diesel	2000 gal U/G Tank 10 gal unit Mounted Tank	16.5, J.8	2,010	E-1	F-2	G-1 G-11	H-1 H-2	I-12	J-5	K-1	L-1	M-6	N-7 N-8	1/27/86
Bldg 460	Diesel	275 gal U/G Tank	16.4, 0.4	275	E-1	F-2	G-1	H-1	I-11	J-5	K-1	L-1	M-1	N-7 N-8	1/27/86
Bldg 702	Diesel	1000 gal U/G Tank	22.2, L.7	1,000	E-1	F-2	G-1	H-1	I-11	J-5	K-1	L-1	M-6	N-7 N-8	1/27/86

OIL AND HAZARDOUS SUBSTANCE SITE
SPILL CONTROL AND COUNTERMEASURES

Facility Number	Substance Stored	Site Description	Grid Coord. Annex VIII	Max. Spill Quality (gal.)	Reportable Spill Qty	2nd-ary Containment	Probable Spill Route (Refer to Maps in Annex VIII)	Contingency Action	Visual Inspection	Prev. Maint.	House-Keeping	Material Compatability	Security	Monitoring	Verification Date
Bldg 1045	Diesel	275 gal U/G Tank	12.6, U.2	275	E-1	F-2	G-1	H-1	I-11	J-5	K-1	L-1	M-1	N-7 N-8	1/27/86
Bldg 1089	Diesel	550 gal U/G Tank	9.8, U.7	550	E-1	F-2	G-1	H-1	I-11	J-5	K-1	L-1	M-3	N-7 N-8	1/27/86
Bldg 1530	Diesel	1000 gal U/G Tank	7.5, O.2	1,000	E-1	F-2	G-1	H-1	I-12	J-5	K-1	L-1		N-7 N-8	1/27/86
Bldg 1575	Diesel	6000 gal U/G Tank	11.6, M.3	6,000	E-1	F-2	G-1	H-1	I-12	J-5	K-1	L-1	M-4	N-7 N-8	1/27/86
Bldg 1600	Diesel	8000 gal U/G Tank	11.6, K.7	8,000	E-1	F-2	G-1	H-1	I-11	J-5	K-1	L-1	M-4	N-7 N-8	1/27/86
Bldg 1971	Diesel	275 gal U/G Tank	9.6, H.3	275	E-1	F-2	G-1	H-1	I-11	J-5	K-1	L-1	M-1	N-7 N-8	1/27/86
Bldg 3175	Diesel	275 gal U/G Tank	28.7, J.4	275	E-1	F-2	G-1	H-1	I-11	J-5	K-1	L-1	M-1	N-7 N-8	1/27/86
Bldg 3189	Gasoline	275 gal U/G Tank	30.4, J.4	275	E-1	F-2	G-1	H-1	I-11	J-5	K-1	L-1	M-3	N-7 N-8	1/27/86
Bldg 3690	Diesel	275 gal U/G Tank	23.5, R.2	275	E-1	F-2	G-1	H-1	I-11	J-5	K-1	L-1	M-1	N-7 N-8	1/27/86
Bldg 3691	Diesel	275 gal U/G Tank	23.4, P.1	275	E-1	F-2	G-1	H-1	I-11	J-5	K-1	L-1	M-6	N-7 N-8	1/27/86
Bldg 4900	Diesel	275 gal U/G Tank	33.3, B.2	275	E-1	F-2	G-1	H-1	I-11	J-5	K-1	1-1	M-1	N-7 N-8	1/27/86
Bldg 5484	Diesel	1000 gal U/G Tank	22.0, Z.0	1,000	E-1	F-2	G-1	H-1	I-11	J-5	K-1	L-1	M-3	N-7 N-8	1/27/86

OIL AND HAZARDOUS SUBSTANCE SITE
SPILL CONTROL AND COUNTERMEASURES

Facility Number	Substance Stored	Site Description	Grid Coord. Annex VIII	Max. Spill Quality (gal.)	Reportable Spill Qty	2ndary Containment	Probable Spill Route (Refer to Maps in Annex VIII)	Contingency Action	Visual Inspection	Prev. Maint.	Housekeeping	Material Compatability	Security	Monitoring	Verification Date
Bldg 39	Diesel	500 gal A/G Tank	15.3, J.6	500	E-1	F-1	G-11	H-2	I-11	J-5	K-1	L-1	M-4	N-7	
Bldg 42	Gasoline	1 gal unit Mounted Tank	14.7, J.4	1	E-1	F-1	G-14	H-2	I-11	J-5	K-1	L-1	M-4	N-7	
Bldg 255	Diesel	275 gal A/G Tank	Off-Base	275	E-1	F-1		H-2	I-11	J-5	K-1	L-1	M-1	N-7	
Bldg 500	Diesel	275 gal A/G Tank	Off-Base	275	E-1	F-1		H-2	I-11	J-5	K-1	L-1	M-1	N-7	
Bldg 505	Diesel	275 gal A/G Tank	16.6, H.3	275	E-1	F-1	G-5 G-14	H-2	I-11	J-5	K-1	L-1	M-3	N-7	
Bldg 528	Diesel	21 gal unit Mounted Tank	14.7, H.8	21	E-1	F-1	G-14	H-2	I-11	J-5	K-1	L-1	M-9	N-7	
Bldg 536	Gasoline	2-275 gal A/G Tank	14.5, F.4	550	E-1	F-1	G-5	H-2	I-11	J-5	K-1	L-1	M-7	N-7	
Bldg 544	Diesel	275 gal A/G Tank	16.8, F.2	275	E-1	F-1	G-5	H-2	I-11	J-5	K-1	L-1	M-1	N-7	
Bldg 1500	Gasoline	10 gal unit Mounted Tank	9.6, P.4	10	E-1	F-1	G-11 G-14	H-2	I-11	J-5	K-1	L-1	M-4	N-7	
Bldg 1521	Gasoline	55 gal A/G Tank	11.6, N.7	55	E-1	F-1	G-11	H-2	I-11	J-5	K-1	L-1	M-4	N-7	
Bldg 1522	Gasoline	55 gal A/G Tank	10.6, N.7	55	E-1	F-1	G-11	H-2	I-11	J-5	K-1	L-1	M-4	N-7	
Bldg 1534	Diesel	55 gal A/G Tank	8.9, N.7	55	E-1	F-1	G-6	H-2	I-11	J-5	K-1	L-1	M-9	N-7	

OIL AND HAZARDOUS SUBSTANCE SITE SPILL CONTROL AND COUNTERMEASURES

Facility Number	Substance Stored	Site Description	Grid Coord. Annex VIII	Max. Spill Quality (gal.)	Reportable Spill Qty	2ndary Containment	Probable Spill Route (Refer to Maps in Annex VIII)	Contingency Action	Visual Inspection	Prev. Maint.	Housekeeping	Material Compatability	Security	Monitoring	Verification Date
Bldg 3167	Gasoline	55 gal A/G Tank	30.6, K.3	55	E-1	F-1	G-4	H-2	I-11	J-5	K-1	L-1	M-9	N-7	
Bldg 3290	Diesel	275 gal A/G Tank	34.2, F.1	275	E-1	F-1		H-2	I-11	J-5	K-1	L-1	M-8	N-7	
Bldg 3681	Diesel	3-275 gal A/G Tank	26.5, 0.5	825	E-1	F-1	G-3 G-11	H-2	I-11	J-5	K-1	L-1	M-4	N-7	
Bldg 4001	Diesel	275 gal A/G Tank	23.2, D.8	275	E-1	F-1	G-5	H-2	I-11	J-5	K-1	L-1	M-1	N-7	
Bldg 6747	Diesel	300 gal A/G Tank	30.8, F.0	300	E-1	F-1	G-5	H-2	I-11	J-5	K-1	L-1	M-6	N-7	
Bldg 6748	Diesel	300 gal A/G Tank	17.0, R.4	300	E-1	F-1	G-5	H-2	I-11	J-5	K-1	L-1	M-6	N-7	

"B" TAB'S

SUBSTANCES STORED AND REPORATABLE SPILL QUANTITIES

NOTE: The "B" Tab contains a listing of chemicals stored at designated facilities on base. Reportable Spill Quantities have been noted for the chemicals for which the Reportable Spill Quantities are known. A dash (-) has been place in the Reportable Spill Quantity column for compounds which do not have Reportable Spill Quantities designated in the Clean Water Act (CWA) Section 311 or Section 307a. If a spill occurs with a product which does not have a Reportable Spill Quantity noted in the Tab, OSC should contact CHEMTREC (800-424-9300) to obtain additional information. It should be noted that the reporting requirements for hazardous waste apply only to materials that are hazardous waste prior to the spill. For all listed hazardous wastes the reportable spill quantity is one (1) pound and this includes spills by small quantity generators under RCRA Subtitles C.

Tab No.

B-1 List of chemicals stored in supply open storage. List includes chemical, container size, location, reportable spill quanity.

Chemical and Stock No.	Container	Bldg. or Fac. No.	Reporatable Spill Quantity
Aircraft Cleaning Compound (6850-00-005-5305)	Qt	512	---
Alcohol (6810-00-205-6786)		512	---
Antifreeze (Ethylene Glycol) (6850-00-135-2879)	55 gal	4001	---
Boric Acid (6810-00-264-6535)		512	---
Bromochloromethane (6810-00-209-8098)	5 gal	4005	---
Cleaner Spray (6850-00-003-1194)		512	---
Cleaning Compound (6850-00-105-3084)		512	---
Cleaning Compound (6850-00-224-6663)		512	---
Cleaning Compound (6850-00-319-0834)		4005	---

Chemical and Stock No.	Container	Bldg. or Fac. No.	Reporatable Spill Quantity
Cleaning Compound (6850-00-935-0995)	55 gal	4001	E-1
Cyclohexylamine (6810-00-051-2235)		512	---
Cyclohexylamine (6810-00-637-6132)		512	---
Denatured Alcohol (6810-00-205-6790)		512	---
Denatured Alcohol (6810-00-543-7415)		512	---
Dry Cleaning Solvent (PD-680) (6850-00-285-8011)	55 gal	512	---
Lime-A-Way (6850-00-949-1397)		4001	---
Methanol (6810-00-275-6010)	5 gal	512	5000 lbs
Methyl Ethyl Ketone (6810-00-281-2785)		512	5000 lbs
Oakite Cleaning Compound (6850-00-824-9094)	55 gal	4001	---
Oakite Cleaning Compound (6850-01-045-7931)	55 gal	4001	---
Penetrating Oil (6850-00-973-9091)		512	E-1
Sodium Hypochlorite (6810-00-598-7316)		4001	100 lbs
Sulfuric Acid (6810-00-893-8138)	15 gal	4005	1000 lbs
Toluene (6810-00-290-0048)		4005	1000 lbs
Trichloroethane (6810-00-664-0387)	Gal	4005	---
1-1-1 Trichloroethane (6810-00-930-6311)		4005	1000 lbs

SUBSTANCES STORED AND REPORTABLE SPILL QUANTITIES

Tab No.	Chemical and Container Size		Reportable Spill Quanitity
B-2A	Dursban - 2%	1 gal	---
	Dursban - M	5 gal	---
	Dursban - 4E	5 gal	---
	Dursban - 10CR	50 lb	---
	Diazinon - 4E	1 gal	1 lb
	Diazinon - 2% Dust	5 lb	1 lb
	Diazinon - 14G	50 lb	1 lb
	Baygon - 1.5% EC	1 gal	---
	Baygon - 2% Bait	5 lb	---
	Sevin Dust - 80%	10 lb	---
	Ficam - WP 76%	4 oz	---
	Malathion - 57% EC	5 gal	10 lbs
	Malathion - 91% ULV	5 gal	10 lbs
	Chlordane - 8E	5 gal	1 lb
	Cygon - 2E	1 gal	---
	Syntox	1 gal	---
	Vapona	12 oz	---
	Oftanol - 5%	40 lb	---
	Phenothrin		---
	Pyrethrin - .4%	1 gal	1000 lbs
	Pyrethrum - 9%	50 lb	1000 lbs
	Thuricide - HPC	5 gal & 1 gal	---
	Metasystox		---
	Warfarin	5 lb	100 lbs
	Malvex	50 lb	---
	Penta - 4.48%	1 gal	---
	Diaphalin Bait Blocks		---
	Plyac	1 gal	---
	Dipel		---
	Safrotin		---

"B" TAB's (Cont'd)

SUBSTANCES STORED AND REPORTABLE SPILL QUANTITIES

Tab No.	Chemical and Container Size		Reportable Spill Quanitity
B-2B	Acti-Dione Thiram	3 lb	10 lb
	Aura Green	1 lb	---
	Banol	1 qt	---
	Banvel	1 gal	---
	Basagran	1 gal	---
	Bayleton	2 lb	---
	Betamec - 4	5 gal	---
	Chipco	2 lb	---
	Chipco Ronstar	50 lb	---
	Chlordane		1 lb
	Daconil - 2787	2 lb	---
	Dacthal - 5	50 lb	---
	Diazinon - 50W	5 lb	1 lb
	Diazinon - 14	40 lb	1 lb
	Diazinon - 5%	50 lb	1 lb
	Formec	4 lb	---
	Koban	1 gal	---
	Kromad	5 lb	---
	Mylone - 50D	50 lb	---
	Oftanol	40 lb	---
	Paraquat	1 gal	---
	Pre-San E	5 gal	---
	Ronstar	50 lb	---
	Round-Up	5 gal	---
	Sevin - WP	10 lb	---
	Sequestrene	5 lb	---
	Simazine - 80W	5 lb	---
	Subdue 2E Fungicide	1 gal	---
	Surflan - 75W	5 lb	---
	Terence - SP	3 lb	---
	Trex San Bent	2.5lb	---
	Tersan - LSR	3 lb	---
	Tersan - 1991	2 lb	---
	Thylate	5 lb	---
	Tobaz	5 lb	---
	Trex San	2.5gal	---
	Tupersan	5 lb	---
	2-4D	55 gal	100 lbs
	Trimec	5 gal	---
	Dyclomec	50 lb	---
	Wilt Pruf	30 gal	---
	Chipman - 2-4D	50 lb	100 lbs

SUBSTANCES STORED AND REPORTABLE SPILL QUANTITIES

Tab No.	Chemical and Container Size		Reportable Spill Quanitity
B-3	Potassium Iodide-Iodate	Quart Bottle	---
	Hydrochloric Acid	Quart Bottle	5000 lbs
	Cyclohexamine	55 gal Drum	---
	Turbin Defoulant	55 gal Drum	---
	Sodium Thiosulfate	Pint Bottle	---
	Chromate	30 gal Containers	---
	Sulfuric Acid	1500 gal Tank	1000 lbs
B-4	Dry Cleaning Solvent (PD-680)	55 gal Drum	---
	Trichloroethane/		---
	Degreaser/		---
	Paint/Kits		---
	Metyl Ethyl Ketone/		5000 lbs
	Thinner/		---
	Toluene/		1000 lbs
	Hydrochloric Acid/		5000 lbs
	Nitric Acid/		1000 lbs
	Boric Acid/		---
	Sulfuric Acid/		1000 lbs
	Sodium Cyanide/		10 lbs
	Stripper/		---
B-5	Trichloroethane		---
	PD-680		---
B-6	Hazardous Waste	55 gal Drum	E-2
B-7	Lube Oil		E-1
	Dry Cleaning Solvent (PD-680)		---
	Thinner		---
	Lacquer		---
	Paints		---
	Batteries		---
	Sulfuric Acid		1000 lbs
B-8	Waste Oil		E-1
B-9	Paints		---
	Thinners		---
B-10	Contaminated JP-4		E-1
	Deicing Fluid		---

"E" TABS

REPORTABLE SPILL QUANTITIES

Tab No.	
E-1	A "Reportable Spill" of oil or other petroleum products occurs when the spill causes a film, sheen or discoloration of the surface of the water or adjoining shoreline; or causes a sludge or emulsion to be deposited beneath the surface of the water or upon the adjoining shoreline. This criteria is applicable for both on-base and off-base surface waters.
E-2	Hazardous Waste The Reportable Quantity for hazardous waste is available in 40 CFR Part 302.4 (Dated 1985).

"F" TABS

SECONDARY CONTAINMENT

Tab No.	
F-1	None.
F-2	Unknown.
F-3	Work Request 35491 has been submitted to construct a concrete dike and basin around the tank. No current method of secondary containment exists.
F-4	None. By Air Force directive, all buildings are to be converted to natural gas heating.
F-5	Work Request 35491 has been submitted to replace the concrete dike and basin around the tank. Existing structure is deteriorated.
F-6	Work Request 33685 has been submitted to repair the dike surrounding the tank.
F-7	Tanks are surrounded by concrete dikes. The basin consists of a 4" polymer-bentonite sealant admix-soil blend layer covered by a 6" sand layer and a 2" gravel layer. Work Request 35204 has been submitted to install an oil/water separator for release valve.
F-8	Tanks are surrounded by concrete dikes. The basin consists of a 4" polymer-bentonite sealant admix-soil blend layer covered by a 6" sand layer and a 2" gravel layer.
F-9	Floor drain connected to sanitary sewer.
F-10	Sulfuric acid tank is surrounded by a concrete dike with a concrete basin. Other materials are stored either in the lab cabinet or the chemical storage room. No secondary containment is provided in these areas.
F-11	In Building 441 the entire stripping room is enclosed in a concrete curb. Work Request 35690 has been submitted to construct a curb at the entrance to Bldg 443. The accumulation point has no secondary containment.

F-12 Floor drains are connected to an oil/waste separator prior to discharge into sanitary sewer.

F-13 Storage facility is a converted freezer unit. Spills could be contained in building.

F-14 A 6" concrete curb surrounds the causic soda storage area.

F-15 A 6" concrete dike and basin area facilitates the drum storage area.

"G" TABS

PROBABLE SPILL ROUTE
(Refer to maps in Annex VIII)

Tab No.	
G-1	Leakage from underground tanks may contaminate shallow aquifers near the base. These aquifers are utilized as a limited source of water supply by domestic and agricultural customers near the base. The aquifers are of limited extent and are not regionally significant.
G-2	Material may reach storm sewer and travel via discharge area 1.
G-3	Material may reach storm sewer and travel via discharge area 2.
G-4	Material may reach storm sewer and travel via discharge area 3.
G-5	Material may reach storm sewer and travel via discharge area 4.
G-6	Material may reach storm sewer and travel via discharge area 5.
G-7	Material may reach storm sewer and travel via discharge area 6.
G-8	Although spill would be prevented from horizontal movement by dike, fuel could penetrate basin pavement and may contaminate shallow aquifers near the base. These aquifers are utilized as a limited source of water by domestic and agricultural customers near the base. The aquifers are of limited extent and are not regionally significant.
G-9	Spills from tank will be contained within diked area. If fuel escapes dike it may reach south ditch (discharge area 4). If fuel should percolate through basin, it may contaminate shallow, regionally insignificant aquifers near the base.
G-10	Spills from tank will be contained within diked area. If

fuel escapes dike it may reach drainage ditch (discharge area 2). If fuel should percolate through basin it may contaminate the shallow, regionally insignificant aquifers near the base.

G-11 Spill may travel into floor drain and enter the sanitary sewer system.

G-12 Spill may travel into Heat Plant operation area to floor drain connected to sanitary sewer system.

G-13 Floor drains within buildings are connected to the sanitary sewer system. Any excursion outside the buildings may reach storm sewer and travel via discharge area 4.

G-14 Dissipate on ground in area of spill.

G-15 In the event of an excursion outside the building itself, it is possible for spilled materials to enter the storm sewer and travel via discharge area 4 and/or 5.

"H" TABS

CONTINGENCY ACTION

Tab No.	
H-1	Suspected underground spills should be assessed with regard to the maximum quantity which may have escaped. Remaining fuel should be removed from tank immediately. Ditches and surface areas in the vicinity of the underground tank should be closely monitored to detect any traces of the spilled material. Information pertaining to the spill should be evaluated to determine if the incident warrants ground water monitoring.
H-2	Base personnel should respond to spill by containing spill substance within most immediate area. This should be accomplished by temporary diking to preclude entrance to ditches, and storm or sanitary sewer. Temporary wood or absorbant type booms should be immediately installed both upstream of any spill entering drainage ditches. For larger spills, temporary dikes should be installed in ditches and temporary plugs placed in sewer lines at applicable manholes. The applicable spill control gate should be immediately closed. Absorbant material should be used for cleanup.
H-3	Spilled material would be diluted with water and directed into sanitary sewer system via floor drain.

"I" TABS

VISUAL INSPECTION

Tab No.	
I-1	Tank periodically sampled to determine contamination level of fuel.
I-2	Civil Engineering personnel inspect monthly for leaks.
I-3	Civil Engineering liquid fuels personnel inspect tanks IAW AFM 85-16.
I-4	Daily inspection is performed by Base Fuels Management personnel and documented on AFTO Form 39.
I-5	Daily inspection is performed by Water Plant personnel.
I-6	Daily (duty days) inspection is performed by Heat Plant personnel.
I-7	Area inspected daily by supervisory personnel.
I-8	Annual Industrial Hygene Survey is performed by Bioenvironmental Engineering.
I-9	Area inspected daily by organization personnel.
I-10	Area inspected weekly by Power Production personnel.
I-11	Generator inspected every 2 weeks.
I-12	Generator inspected weekly.

"J" TABS

PREVENTIVE MAINTENANCE

Tab No.	
J-1	Tanks cleaned by Civil Engineering Liquid Fuels personnel as determined.
J-2	Painting accomplished as required under Recurring Maintenance Program.
J-3	Liquid fuels personnel clean tanks every 3 years. Painting accomplished as required by contract.
J-4	Stocks rotated periodically.
J-5	Preventive maintenance performed as determined from routine inspection.

"K" TABS

HOUSEKEEPING

Tab No.	
K-1	Area maintained in a clean, orderly state.
K-2	Adequate aisle space and segregation of materials.

"L" TABS

MATERIAL COMPATIBILITY

Tab No.	
L-1	No material incompatibilities.
L-2	Incompatible materials segregated.

"M" TABS

SECURITY

Tab No.	
M-1	Lock on filler line.
M-2	Lock on gauging hatch.
M-3	Area fenced and locked.
M-4	Door to building locked when not manned.
M-5	Doors to lab and chemical storage room are locked when key personnel are not present.
M-6	Facility is located within a controlled area along the flightline. Security Police, the Control Tower, and working personnel all provide 24 hr/day security.
M-7	Located within the Civil Engineering compound, which is enclosed by a cyclone fence.
M-8	Building is surrounded by a cyclone fence. Storage areas are locked.
M-9	None.

"N" TABS

MONITORING

Tab No.	
N-1	Fuels Management maintains a schedule of tanks to be refueled by contract. Each tank is checked approximately every 2 weeks.
N-2	Fuel level inventory maintained on a daily basis. Tank refueled as required.
N-3	Tank stick tested for leakage on a yearly basis.
N-4	Supervisory/Operating personnel observe on a daily basis.
N-5	Site supervisors will ensure that daily inspections of drains and sanitary sewers are accomplished to ensure operational status.
N-6	Inventory is monitored on a monthly basis, stocks are rotated periodically, and reordering is done as required.
N-7	Generators are tested monthly.
N-8	In the near future a monitoring program of underground storage tanks will be implemented by the base.

ANNEX II-1

SITE-SPECIFIC CONTINGENCY PLAN
FOR
POL OPERATING FUEL STORAGE AREA (BLDG 547)
BASE SERVICE STATION (BLDG 48); AIRCRAFT REFUELING HYDRANTS;
FUEL TRUCK PARKING AREA: FUEL TRUCK ROUTES (ANNEX VIII)
POL BULK FUEL STORAGE AREA AND HYDRANT REFUELING PUMPHOUSES
(FACILITY 8550, 8570, 8552, 8554, BLDG 508 & 545)
AQUA YARD UNDERGROUND TANKS (FACILITY 29) REFUELING MAINTENANCE (BLDG 3184)
AERO CLUB UNDERGROUND TANKS (NEAR BLDG 3200)

NOTIFICATION AND INITIAL SPILL RESPONSE

In the event of a spill the following actions should be taken. The order of the actions will depend on the existing conditions.

1. Evacuate area if necessary.
2. Notify Base Fire Department Ext 117.
3. Notify Supervisor Fuels Management Branch Ext 65051.
4. Check cause and stop source of spill when possible without undue risk of personal injury. In case of line breakage, close all valves upstream and downstream of the break.
5. If spill occurs in diked area, assure dike drain valve is closed and locked.
6. Make spill scene OFF LIMITS to unauthorized personnel.
7. Restrict all sources of ignition.
8. Report to acting on-scene coordinator upon spill response team arrival and provide assistance until response team is fully operational.

When notifying the Fire Department the following information should be provided if known or can reasonably be determined:

1. Name of individual reporting spill.
2. Location of spill.
3. Number of injured personnel and nature of injuries.
4. Substance spilled.
5. Amount spilled (estimated).
6. Rate substance currently spilling (estimated).
7. Time spill occurred (estimated).
8. Extent which spill has traveled.
9. Any other pertinent information (i.e. other potential hazards).

SPECIAL PRECAUTIONARY MEASURES

Avoid contact with liquid fuels.

FLAMMABLE Liquids - Extinguish with dry chemical, foam or carbon dioxide. Flashback along vapor trail can occur. See attached Safety Data Sheets for additional information.

PROBABLE SPILL ROUTES

Spills escaping diked areas and the general confines of the storage areas will enter adjacent storm drains and drainage ditches which flow to the main drainage courses in Spill Containment Area 2 or 4 (or possibly some other area in case of a fuel truck spill) with the final destination of Silver Creek.

CONTAINMENT, CLEAN-UP AND DISPOSAL

1. CE will immediately close the appropriate gates.

2. Liquid Fuel Maintenance Technician will measure vapor concentrations and determine where explosion hazards exist.
3. In event of JP-4 spills, Fuels Management will dispatch a defuel unit to area to recover reclaimable fuel. This unit will be used to remove only portions of spillage that can be recovered without contaminating the products. Contamination of product normally occurs within 2" of ground.
4. CE Liquid Fuels Maintenance will dispatch a unit to collect contaminated fuels. All fuel recovered by BCE will be off-loaded in designated tanks in the aqua yard.
5. Spills escaping diked area will drain via adjacent drainage ditches to Silver Creek. CE will install temporary dikes and/or booms in ditches to contain spilled fuels.
6. Sandbags may be utilized to contain spilled fuels from hydrant refueling line ruptures.
7. Clean-up operations should include the use of absorbant material and/or portable skimmers.

POSTING REQUIREMENTS

This site-specific contingency plan will be posted in prominent locations within the potential spill areas. The following Safety Data Sheets will be attached when posting:

1. Gasoline.
2. Jet Fuels: JP-4
3. Oils: Diesel

These sheets may be obtained from Annex III, SPR Plan or the product manufacturer. Material Safety Data Sheets are available for review at Bioenvironmental Engineering (67307).

ANNEX II - 2

SITE-SPECIFIC CONTINGENCY PLAN

SUPPLY STORAGE AREAS - BUILDINGS 512, 4001 AND 4005

NOTIFICATION AND INITIAL SPILL RESPONSE

In the event of a spill the following actions should be taken. The order of the actions will depend on the existing conditions.

1. Notify Base Fire Department Ext 117.
2. Notify Supervisor of Supply Facilities Ext 62291.
3. Check cause and stop source of spill when possible without undue risk of personal injury. If the nature of the spill material is unknown, use extreme caution.
4. Prohibit all sources of ignition when flammable substances are involved.
5. Make spill scene OFF LIMITS to unauthorized personnel.
6. Report to acting on-scene coordinator upon spill response team arrival and provide assistance until response team is fully operational.

When notifying the Fire Department the following information should be provided if known or can reasonably be determined.

1. Name of individual reporting spill.
2. Location of spill.
3. Number of injured personnel and nature of injuries.

4. Substance spilled.

5. Amount spilled (estimated).

6. Rate substance currently spilling (estimated).

7. Time spill occurred (estimated).

8. Extent which spill has traveled.

9. Any other pertinent information (i.e., other potential hazards).

SPECIAL PRECAUTIONARY MEASURES

Refer to attached Safety Data Sheets for particular hazards and precautionary measures for specific chemicals.

PROBABLE SPILL ROUTES

If large spill occurs the spill may drain into Spill Containment Area 4 with final destination Silver Creek.

CONTAINMENT, CLEAN-UP AND DISPOSAL

1. CE will close spill gate.
2. Sandbags, dirt, sand or other available material may be utilized to contain spilled substances around leaking containers.
3. Leaking container should be oriented so as to minimize leakage.
4. Clean-up operations should include the use of absorbant materials.
5. Spill residues will be placed in polyethylene lined drums under 49 CFR 172.101 or 102, turned in to the aqua yard (contact (62092) and disposed in accordance with DOD regulations and Federal hazardous waste regulations.

POSTING REQUIREMENTS

This Site-Specific Contingency Plan will be placed in prominent locations within the potential spill areas. Appropriate Safety Data Sheets for materials stored in these areas (refer to Tab B-1) will be attached when posting. These sheets may be obtained from Annex III, SPR Plan or the product manufacturer. Material Safety Data Sheet are available for review at Bioenvironmental Engineer (67307).

ANNEX II-3

SITE-SPECIFIC CONTINGENCY PLAN
ENTOMOLOGY SHOP STORAGE - BLDGS 519 & 1197

NOTIFICATION AND INITIAL SPILL RESPONSE

1. Notify Base Fire Department Ext 117.
2. Notify Environmental Coordinator Ext 62092 or Base Civil Engineer Ext 62202.
3. Notify Pest Control Shop Supervisor Ext 62617.
4. Check cause and stop source of spill when possible without undue risk of personal injury. See Special Precautionary Measures.
5. Prohibit all sources of ignition when flammable substances are involved.
6. Make spill scene OFF LIMITS to unauthorized personnel.
7. Report to acting on-scene coordinator upon spill response team arrival and provide assistance until response team is fully operational.

When notifying the Fire Department the following information should be provided if known or can reasonably be determined.

1. Name of individual reporting spill.
2. Location of spill.
3. Number of injured personnel and nature of injuries.
4. Substance spilled.
5. Amount spilled (estimated).

6. Rate substance currently spilling (estimated).
7. Time spill occurred (estimated).
8. Extent which spill has traveled.
9. Any other pertinent information (i.e., other potential hazards).

SPECIAL PRECAUTIONARY MEASURES

Avoid contact with spilled substance. Protective clothing should be worn over entire body when handling chemicals. Refer to attached Safety Data Sheets for particular hazards and precautionary measures for specific chemicals.

PROBABLE SPILL ROUTE

Spills occurring at Bldg 1197 will dissipate on ground in area of spill. Large spills will drain under adjacent chain-linked fence. Spills exiting base boundaries may eventually reach Silver Creek via Spill Containment Area 1. Spills occurring at Bldg 519 will dissipate on ground in area of spill. Large spills may reach Silver Creek via Spill Containment Area 4.

CONTAINMENT, CLEAN-UP AND DISPOSAL

1. If leakage occurs in a single container, if possible, move the container to a large garbage can.
2. Determine and implement decontamination procedures as specified on the Safety Data Sheets. If information is not available contact CHEMTREC (phone 800-424-9300).
3. All contaminated materials will be placed in polyethylene lined drums (see 49 CFR 178.133) or other approved drums under

49 CFR 172.101 or 102 turned in to the Aqua Yard and disposed of in accordance with DOD regulations and Federal hazardous waste regulations.

POSTING REQUIREMENTS

This Site-Specific Contingency Plan will be posted at prominent locations inside and outside of Bldgs 519 and 1197. The appropriate MSDS and CHRIS Sheets for materials stored in these areas (refer to Tab B-2A and B-2B) will be attached when posting. These sheets may be obtained from Annex III, SPR Plan or the product manufacturer. Material Safety Data Sheets are available for review at Bioenvironmental Engineer (67307).

ANNEX II - 4

SITE SPECIFIC CONTINGENCY PLAN

TRANSPORTATION FACILITY (BLDG 548)

NOTIFICATION AND INITIAL SPILL RESPONSE

In the event of a spill, the following actions should be taken. The order of the actions will depend on the existing conditions.

1. Notify Base Fire Department Ext 117.
2. Notify Vehicle Maintenance Officer/Superintendent Ext 65675.
3. Check cause and stop source of spill when possible without undue risk of personal injury.
4. Prohibit all sources of ignition.
5. Make spill scene OFF LIMITS to unauthorized personnel.
6. Report to acting on-scene coordinator upon spill response team arrival and provide assistance until response team is fully operational.

When notifying the Fire Department the following information should be provided if known or can reasonably be determined.

1. Name of individual reporting spill.
2. Location of spill.
3. Number of injured personnel and nature of injuries.
4. Substance spilled.
5. Amount spilled (estimated).

6. Rate substance currently spilling (estimated).

7. Time spill occurred (estimated).

8. Extent which spill has traveled.

9. Any other pertinent information (i.e., other potential hazards).

SPECIAL PRECAUTIONARY MEASURES

Avoid contact with spilled substances.

FLAMMABLE Liquids - Extinguish with dry chemicals, foam or carbon dioxide. Flashback along vapor trail can occur. Refer to attached Safety Data Sheets for particular hazards and precautionary measures for specific chemicals.

PROBABLE SPILL ROUTE

Depending on the exact location and nature of the spill, it may dissipate on the ground; may drain into an oil/water separator; or if large, may drain directly to the south ditch (Spill Containment Area 4) with the final destination Silver Creek. Spills escaping from the oil/water separators at Building 548 will enter the sanitary sewer system. Substantial spills outside Building 548 will probably enter the south ditch.

CONTAINMENT, CLEAN-UP AND DISPOSAL

1. CE will immediately close spill gates on Containment Area 4 and 5.

2. Liquid Fuel Maintenance Technician will measure vapor concentrations and determine where explosion hazards exist.

3. CE Liquid Fuels Maintenance will dispatch a unit to collect contaminated fuels from large spills.

4. If possible, move the leaking container/equipment to nearest

oil/water separator.

5. CE will install temporary dikes and/or booms in drainage ditches to contain spills entering the ditches.
6. Clean-up operations should include the use of absorbant material and/or portable skimmers.

POSTING REQUIREMENTS

This Site-Specific Contingency Plan will be posted in prominent locations within potential spill areas. The appropriate Safety Data Sheets (Annex III, SPR Plan) for materials stored in these areas will be attached when posting. These sheets may also be obtained from the product manufacturer. Material Safety Data Sheets are available for review at Bioenvironmental Engineering (67307).

ANNEX II - 5

SITE-SPECIFIC CONTINGENCY PLAN

BX SERVICE STATION - BUILDING 1965

NOTIFICATION AND INITIAL SPILL RESPONSE

Upon discovery of oil or hazardous substance spillage or accidental discharge, the following actions should be taken. The order of the actions will depend on the existing conditions.

1. Notify Base Fire Department Ext 117.
2. Notify Exchange Manager Ext 744-0700.
3. Check cause and stop source of spill when possible without undue risk of personal injury.
4. Prohibit all sources of ignition.
5. Make spill scene OFF LIMITS to unauthorized personnel.
6. Report to acting on-scene coordinator upon spill response team arrival and provide assistance until response team is fully operational.

When notifying the Fire Department the following information should be provided if known or can reasonably be determined.

1. Name of individual reporting spill.
2. Location of spill.
3. Number of injured personnel and nature of injuries.

4. Substance spilled.

5. Amount spilled (estimated).

6. Rate substance currently spilling (estimated).

7. Time spill occurred (estimated).

8. Extent which spill has traveled.

9. Any other pertinent information (i.e., other potential hazards).

SPECIAL PRECAUTIONARY MEASURES

Avoid contact with liquid fuels.

FLAMMABLE Liquids - Extinguish with dry chemical, foam, or carbon dioxide. Flashback along vapor trail can occur.

See attached Safety Data Sheets for additional information.

PROBABLE SPILL ROUTES

Small spills occurring in the service area will dissipate on the ground, or enter a storm drain that connects to Ash Creek. Larger spills may enter the stream, which is part of the drainage system in Spill Containment Area 5. It empties into Ash Creek which flows into Loop Creek. If the underground fuel storage tanks or waste oil tank leaks, contamination of shallow aquifers near the base may occur.

CONTAINMENT, CLEAN-UP AND DISPOSAL

1. Sandbags, dirt, sand or other available material may be utilized to contain spilled substances.

2. The substance should be transferred from leaking container as soon as possible.

3. Clean-up operations should include the use of absorbant material

and/or portable skimmers.

4. Spill residues will be placed in polyethylene lined drums (see 49 CRF 178.133) or other approved drums under 49 CFR 172.101 or 102 turned in to the aqua yard and disposed of in accordance with DOD regulations and Federal hazardous waste regulations.
5. Spills escaping into the drainage system will drain via Spill Containment Area 5. CE will install temporary dikes and/or booms in the ditches and/or streams to contain spilled fuels.

POSTING REQUIREMENTS

This Site-Specific Contingency Plan will be posted in prominent locations at the designated potential spill sites. The appropriate Safety Data Sheets (Annex III, SPR Plan) will be attached when posting. These sheets may also be obtained from the product manufacturer. Material Safety Data Sheets are available for review at Bioenvironmental Engineering (67307).

ANNEX II - 6

SITE-SPECIFIC CONTINGENCY PLAN

AIRCRAFT AND RELATED EQUIPMENT MAINTENANCE FACILITIES

Reserve Hanger	Bldg 3680
Maintenance & Hydraulic	Bldg 433
AGE	Bldg 456 & 455
Wheel & Tire Shop	Bldg 506
Paint & Cleaning Shop	Bldg 441
Fuel Cell Shop	Bldg 433
PMEL	Bldg 352

NOTIFICATION AND INITIAL SPILL RESPONSE

Upon discovery of oil or hazardous substance spillage or accidental discharge, the following actions should be taken. The order of the actions will depend on the existing conditions.

1. Notify Base Fire Department Ext 117.
2. Notify officer/superintendent of Facility responsible for spill.
3. Check cause and stop source of spill when possible without undue risk of personal injury.
4. Restrict all sources of ignition when flammable substances are involved.
5. Make spill scene OFF LIMITS to unauthorized personnel.
6. Report to acting on-scene coordinator upon spill response team arrival and provide assistance until response team is fully operational.

When notifying the Fire Department the following information should

be provided if known or can reasonably be determined:

1. Name of individual reporting spill.
2. Location of spill.
3. Number of injured personnel and nature of injuries.
4. Substance spilled.
5. Amount spilled (estimated).
6. Rate substance currently spilling (estimated).
7. Time spill occurred (estimated).
8. Extent which spill has traveled.
9. Any other pertinent information (i.e., other potential hazards).

SPECIAL PRECAUTIONARY MEASURES

Refer to attached Safety Data Sheets for particular hazards and precautionary measures for specific chemicals.

PROBABLE SPILL ROUTES

Small spills will dissipate on ground. Some spills will drain to an oil/water separator connected to the sanitary sewer. Large spills may flow via drainage ditch and/or culvert storm drain through Spill Containment Area No. 4, except Building 3680 which drains to Spill Containment Area No. 2.

SPECIAL NOTIFICATION PROCEDURES

If an oil or hazardous substance enters the sanitary sewer system and has the potential for causing damage to the base waste water treatment plant either due to the quantity or characteristics of the substance, notify Base Civil Engineering (62202) immediately.

CONTAINMENT, CLEAN-UP AND DISPOSAL

1. CE will immediately close the appropriate spill gates.
2. If possible, move the leaking container/equipment to an oil/water separator that drains into the sanitary sewer system.
3. If the leaking container/equipment cannot be moved, sandbags, dirt, sand or other available material may be used to contain spills around the leaking container.
4. The substance should be transferred from the leaking container.
5. If possible, spilled substances should be neutralized according to methods specified on attached Safety Data Sheet.
6. Clean-up operations should include the use of absorbant material.
7. Spill residues will be placed in polyethylene lined drums (see 49 CFR 178.133) or other approved drums under 49 CFR 172,101 or 102 turned in to the aqua yard and disposed in accordance with DOD regulations and Federal hazardous waste regulations.

POSTING REQUIREMENTS

This Site-Specific Contingency Plan will be posted in prominent locations at the designated potential spill sites. The appropriate Safety Data Sheets (Annex III, SPR Plan) will be attached when posting. These sheets may also be obtained from the product manufacturer. Material Safety Data Sheets are available for review at Bioenvironmental Engineering (67307).

ANNEX II - 7

SITE SPECIFIC CONTINGENCY PLAN

SANITARY WASTEWATER COLLECTION SYSTEM

1. The Scott AFB wastewater treatment plant treats an average of 1.5 million gallons of sewage per day through the system that traverses Scott AFB (see Annex VIII for Sanitary Sewage System Plan). The collection systems consist of underground gravity flow and force main sewers. The only exposed pipes occur at gully/stream crossings. The collection system also includes ten lift stations. A spill could result from the following:

1. Blockage
2. Rupture
3. Pump failure
4. Power failure

2. Discovery, notification and request for assistance as discussed under Plan Execution are applicable to a sanitary wastewater spill. The following actions should be taken by the individual(s) initially discovering a sewage spill.

a. Notify Base Fire Department Ext 117.

b. Notify Base Civil Engineering Ext 62202

c. Check cause and stop source of spill when possible without undue risk of personal injury.

d. Report to acting on-scene coordinator upon spill response

team arrival and provide assistance until response team is fully operational.

3. Containment, clean-up, and disposal procedures described under Plan Execution are supplemented as follows:

   a. Lift stations upstream of a force main break or overflowing manhole may be shutdown temporarily, thus eliminating flow in downstream sewage. Gravity lines upstream of a spill occurring at a lift station or gravity system manhole may be selectively plugged to reduce or eliminate flow. In either instance, the system upstream of the plug or shutdown lift station must be monitored to avoid additional sewage overflows.

   b. In some instances, overflowing manholes or lift station wet wells may be pumped to manholes downstream of a line break, line stoppage or malfunctioning lift station.

   c. Flow in portions of the sewage system serving isolated facilities or a small number of facilities may be eliminated by shutting off water supply to the facilities.

   d. Simultaneously with or immediately following suppression, an attempt will be made to arrest the movement of untreated sanitary waste toward surface waters:

      (1) Overland flow of liquids can be blocked by dikes constructed by earth moving equipment or by placement of sandbags, hay bales, or any barrier material available.

      (2) During dry weather, storm drainage ditches can be blocked with the same procedures as for overland flow.

(3) Floating contaminants can be arrested from waterways with floating booms or chicken wire fences with baled and loose hay extending 10 to 20 feet from the barrier.

(4) Spilled material may be trapped by constructing holding ponds on site with earth moving equipment.

e. After spill is contained:

(1) Consideration should be given to pumping the trapped waste material to a downstream manhole or into a tanker truck for hauling to a downstream manhole.

(2) If the nature of the spill is such that removal and discharge to the sanitary system is not feasible, the raw waste material should be disinfected with calcium hypocholorite (HTH). HTH should be carefully sprinkled over the raw waste material and mixed into the waste by any means available (e.g., air pump with diffuser). HTH should be applied and mixed until a chlorine residual of 2 pm is obtained.

(3) Release of trapped (contained) and disinfected sanitary waste to the surface waters adjacent to Scott AFB may be acceptable in certain instances. However, the Illinois Environmental Protection Agency must be contacted for guidance and concurrence.

(4) All solid material removed from the water surface or ground surface, will be buried in an approved landfill.

f. Upon completion of clean-up and disposal, the OSC will inspect the

area of the spill and take the necessary actions to restore the area to its pre-existing condition.

ANNEX III
SAFETY DATA SHEETS

Safety Data Sheet Index
(Arranged in Alphabetical Order)

CHRIS Hazardous Chemical Data Forms

Ammonia, Anhydrous

Boric Acid

Caustic Soda Solution

Chlordane

Chlorine

Cyclohexanone

Cyclohexylamine

2,4 D Esters

Diazinon

Ethylene Glycol

Gasolines: Automotive

Gasolines: Aviation

Hydrochloric Acid

Hydrazine

Jet Fuels: JP-4

Kerosene

Liquefied Petroleum Gas

Malathion

Mercury

Methyl Ethyl Ketone

Mineral Spirits

Naptha: Stoddard Solvent

Nitric Acid

Oils: Diesel

Oils, Fuel: 2

Oils, Miscellaneous: Motor

Oils, Miscellaneous: Transformer

Oxygen, Liquefied

Polychlorinated Biphenyl

Potassium Iodide

Propane

Sodium Cyanide

Sulfuric Acid

Thiram

Toluene

Trichloroethane

Trichloroethylene

AMA AMMONIA, ANHYDROUS

Common Synonyms
Liquid Ammonia

Liquefied compressed gas Colorless Ammonia odor

Floats and boils on water. Poisonous, visible vapor cloud is produced.

Avoid contact with liquid and vapor. Keep people away
Wear goggles, self-contained breathing apparatus, and rubber overclothing (including gloves).
Stop discharge if possible
Stay upwind and use water spray to "knock down" vapor
Call fire department
Isolate and remove discharged material
Notify local health and pollution control agencies

Fire

Combustible.
Wear goggles, self-contained breathing apparatus, and rubber overclothing (including gloves)
Stop flow of gas or liquid if possible.
Cool exposed containers and protect men effecting shutoff with water
Let fire burn.

Exposure

CALL FOR MEDICAL AID.

VAPOR
POISONOUS IF INHALED
Irritating to eyes, nose and throat.
Move to fresh air.
If in eyes, hold eyelids open and flush with plenty of water
If breathing has stopped, give artificial respiration
If breathing is difficult, give oxygen

LIQUID
Will burn skin and eyes.
Harmful if swallowed.
Will cause frostbite.
Remove contaminated clothing and shoes.
Flush affected areas with plenty of water
DO NOT RUB AFFECTED AREAS
IF IN EYES, hold eyelids open and flush with plenty of water
IF SWALLOWED and victim is CONSCIOUS, have victim drink water or milk

Water Pollution

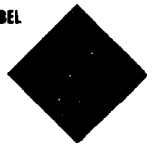
HARMFUL TO AQUATIC LIFE IN VERY LOW CONCENTRATIONS.
May be dangerous if it enters water intakes.
Notify local health and wildlife officials.
Notify operators of nearby water intakes

1. RESPONSE TO DISCHARGE

(See Response Methods Handbook, CG 446-4)

Issue warning - poison
Restrict access
Evacuate area
Disperse and flush

2. LABEL



3. CHEMICAL DESIGNATIONS

3.1 **Synonyms:** Liquid ammonia

3.2 **Coast Guard Compatibility Classification:** Ammonia

3.3 **Chemical Formula:** NH_3

3.4 **IMCO/United Nations Numerical Designation:** 2.0/1005

4. OBSERVABLE CHARACTERISTICS

4.1 **Physical State (as shipped):** Compressed liquefied gas

4.2 **Color:** Colorless

4.3 **Odor:** Pungent, extremely pungent

5. HEALTH HAZARDS

5.1 **Personal Protective Equipment:** Gas-tight chemical goggles, self-contained breathing apparatus, rubber boots, rubber gloves, emergency shower and eye bath.

5.2 **Symptoms Following Exposure:** 700 ppm causes eye irritation, and permanent injury may result if *prompt remedial measures are not taken, 5000 ppm can cause immediate death from spasm,* inflammation, or edema of the larynx. Contact of the liquid with skin freezes the tissue and then produces a caustic burn.

5.3 **Treatment for Exposure:** INHALATION: move victim to fresh air and give artificial repiration if necessary. Oxygen may be useful. Observe for laryngeal spasm and perform tracheostomy if indicated. SKIN OR EYES: flood immediately with running water for 15 min. Treat subsequently as thermal burn.

5.4 **Toxicity by Inhalation (Threshold Limit Value):** 25 ppm

5.5 **Short-Term Inhalation Limits:** 50 ppm for 5 min.

5.6 **Toxicity by Ingestion:** Not pertinent

5.7 **Late Toxicity:** Not pertinent

5.8 **Vapor (Gas) Irritant Characteristics:** Vapors cause severe eye or throat irritation and may cause eye or lung injury. Vapors cannot be tolerated even at low concentrations.

5.9 **Liquid or Solid Irritant Characteristics:** Causes smarting of the skin and first-degree burns on short exposure; may cause secondary burns on long exposure.

5.10 **Odor Threshold:** 46.8 ppm

6. FIRE HAZARDS

6.1 **Flash Point:** Not flammable under conditions likely to be encountered

6.2 **Flammable Limits in Air:** 15.50% - 27.00%

6.3 **Fire Extinguishing Agents:** Stop flow of gas or liquid. Let fire burn.

6.4 **Fire Extinguishing Agents Not to be Used:** None

6.5 **Special Hazards of Combustion Products:** Not pertinent

6.6 **Behavior in Fire:** Not pertinent

6.7 **Ignition Temperature:** 1204°F

6.8 **Electrical Hazard:** Class I, Group D

6.9 **Burning Rate:** 1 mm/min

7. CHEMICAL REACTIVITY

7.1 **Reactivity with Water:** Dissolves with mild heat effect

7.2 **Reactivity with Common Materials:** Corrosive to copper and galvanized surfaces

7.3 **Stability During Transport:** Stable

7.4 **Neutralizing Agents for Acids and Caustics:** Dilute with water

7.5 **Polymerization:** Not pertinent

7.6 **Inhibitor of Polymerization:** Not pertinent

8. WATER POLLUTION

8.1 **Aquatic Toxicity:**
2.0 - 2.5 ppm/1-4 days/goldfish and yellow perch/LC
60 - 80 ppm/3 days/crayfish/LC_{100}
8.2 ppm/96 hr/fathead minnow/TL_m
*Time period not specified.

8.2 **Waterfowl Toxicity:** 120 ppm

8.3 **Biological Oxygen Demand (BOD):** Not pertinent

8.4 **Food Chain Concentration Potential:** None

9. SELECTED MANUFACTURERS

1 American Oil Co
910 South Michigan Ave.
Chicago, Illinois 60605

2 C F Industries Inc
100 S. Wacker Drive
Chicago, Illinois 60606

3 The Williams Companies
Agrico Chemicals Co., Inc
5050 Poplar Ave.
Memphis, Tenn. 38101

10. SHIPPING INFORMATION

10.1 **Grades or Purity:** Commercial, industrial, refrigeration, electronic, and metallurgical grades all have purity greater than 99.5%

10.2 **Storage Temperature:** Ambient for pressurized ammonia; low temperature for ammonia at atmospheric pressure

10.3 **Inert Atmosphere:** No requirement

10.4 **Venting:** Safety relief 250 psi for ammonia under pressure. Pressure-vacuum for ammonia at atmospheric pressure.

11. HAZARD ASSESSMENT CODE

(See Hazard Assessment Handbook, CG 446-3)

A-B-C-K-L-M-N-O

12. HAZARD CLASSIFICATIONS

12.1 **Code of Federal Regulations:** Nonflammable compressed gas

12.2 **NAS Hazard Rating for Bulk Water Transportation:**

Category	Rating
Fire	1
Health	
Vapor Irritant	4
Liquid or Solid Irritant	2
Poisons	2
Water Pollution	
Human Toxicity	2
Aquatic Toxicity	2
Aesthetic Effect	2
Reactivity	
Other Chemicals	3
Water	2
Self-Reaction	0

12.3 **NFPA Hazard Classifications:**

Category	Classification, gas	Classification, liquefied
Health Hazard (Blue)	2	3
Flammability (Red)	1	1
Reactivity (Yellow)	0	0

13. PHYSICAL AND CHEMICAL PROPERTIES

13.1 **Physical State at 15°C and 1 atm:** Gas

13.2 **Molecular Weight:** 17.03

13.3 **Boiling Point at 1 atm:** −28.1°F = −33.4°C = 239.8°K

13.4 **Freezing Point:** −108°F = −77.7°C = 265.5°K

13.5 **Critical Temperature:** 271°F = 133°C = 406°K

13.6 **Critical Pressure:** 1636 psia = 111.3 atm = 11.27 MN/m²

13.7 **Specific Gravity:** 0.682 at −33.4°C (liquid)

13.8 **Liquid Surface Tension:** Not pertinent

13.9 **Liquid-Water Interfacial Tension:** Not pertinent

13.10 **Vapor (Gas) Specific Gravity:** 0.6

13.11 **Ratio of Specific Heats of Vapor (Gas):** 1.3 at 20°C

13.12 **Latent Heat of Vaporization:** 589 Btu/lb = 327 cal/g = 13.7 × 10⁵ J/kg

13.13 **Heat of Combustion:** −7992 Btu/lb = −4440 cal/g = −185.9 × 10⁵ J/kg

13.14 **Heat of Decomposition:** Not pertinent

13.15 **Heat of Solution:** −232 Btu/lb = −129 cal/g = −5.40 × 10⁵ J/kg

13.16 **Heat of Polymerization:** Not pertinent

(Continued on pages 5 and 6.)

NOTES

REVISED 1978

BAC

BORIC ACID

Common Synonyms			
Orthoboric acid Boracic acid	Solid	White	Odorless
	Sinks and mixes with water.		

Stop discharge if possible. Keep people away.
Avoid contact with solid.
Isolate and remove discharged material.
Notify local health and pollution control agencies.

Fire

Not flammable.

Exposure

CALL FOR MEDICAL AID.

SOLID
Irritating to skin and eyes.
If swallowed will cause nausea or vomiting.
Remove contaminated clothing and shoes.
Flush affected areas with plenty of water.
IF IN EYES, hold eyelids open and flush with plenty of water.
IF SWALLOWED and victim is CONSCIOUS, have victim drink water or milk and have victim induce vomiting.
IF SWALLOWED and victim is UNCONSCIOUS OR HAVING CONVULSIONS, do nothing except keep victim warm.

Water Pollution

Dangerous to aquatic life in high concentrations.
May be dangerous if it enters water intakes.
Notify local health and wildlife officials.
Notify operators of nearby water intakes.

1. RESPONSE TO DISCHARGE

(See Response Methods Handbook, CG 448-4)

Issue warning - water contaminant
Should be removed
Chemical and physical treatment

2. LABELS

No hazard label required by Code of Federal Regulations

3. CHEMICAL DESIGNATIONS

3.1 **Synonyms:** Boracic acid; Orthoboric acid

3.2 **Coast Guard Compatibility Classification:** Not listed

3.3 **Chemical Formula:** H_3BO_3

3.4 **IMCO/United Nations Numerical Designation:** Not listed

4. OBSERVABLE CHARACTERISTICS

4.1 **Physical State (as shipped):** Solid

4.2 **Color:** White

4.3 **Odor:** None

5. HEALTH HAZARDS

5.1 **Personal Protective Equipment:** Chemical goggles

5.2 **Symptoms Following Exposure:** Although no adverse effects have been reported from inhaling boric acid dust, it is absorbed through mucous membranes. Ingestion of 5 grams or more may irritate gastrointestinal tract and affect central nervous system. Contact with dust or aqueous solutions may irritate eyes; no chronic effects have been recognized, but continued contact should be avoided. Dust and solutions are absorbed through burns and open wounds but not through unbroken skin.

5.3 **Treatment for Exposure:** INHALATION: remove from contaminated atmosphere. INGESTION: obtain medical attention as soon as possible; if the patient is conscious, induce vomiting by giving warm salty water (2 tablespoons of table salt to a pint of water) or warm soapy water; if this measure is unsuccessful, vomiting may be induced by tickling the back of the patient's throat with a finger; vomiting should be encouraged about three times or until the vomitus is clear; additional water may be given to wash out the stomach. EYES: immediately flush the eyes with large quantities of running water for a minimum of 15 min.; hold the eyelids apart during the irrigation to ensure flushing of the entire surface of the eye and lids with water; obtain medical attention as soon as possible; continue the irrigation for an additional 15 min. if the physician is not available. SKIN: immediately flush affected area with water; remove contaminated clothing under the shower; continue washing with water - do not attempt to neutralize with chemical agents; obtain medical attention unless burn is minor.

5.4 **Toxicity by Inhalation (Threshold Limit Value):** 10 mg/m³ (as boric oxide)

5.5 **Short-Term Inhalation Limits:** Data not available

(Continued on page 4)

6. FIRE HAZARDS

6.1 **Flash Point:** Not flammable

6.2 **Flammable Limits in Air:** Not flammable

6.3 **Fire Extinguishing Agents:** Not pertinent

6.4 **Fire Extinguishing Agents Not to be Used:** Not pertinent

6.5 **Special Hazards of Combustion Products:**

6.6 **Behavior in Fire:**

6.7 **Ignition Temperature:** Not pertinent

6.8 **Electrical Hazard:** Not pertinent

6.9 **Burning Rate:** Not pertinent

7. CHEMICAL REACTIVITY

7.1 **Reactivity with Water:** No reaction

7.2 **Reactivity with Common Materials:**

7.3 **Stability During Transport:** Stable

7.4 **Neutralizing Agents for Acids and Caustics:** Not pertinent

7.5 **Polymerization:** Not pertinent

7.6 **Inhibitor of Polymerization:** Not pertinent

8. WATER POLLUTION

8.1 **Aquatic Toxicity:** 1800 ppm/24 hr/mosquito fish/TL_m/fresh water

8.2 **Waterfowl Toxicity:** Data not available

8.3 **Biological Oxygen Demand (BOD):** None

8.4 **Food Chain Concentration Potential:** None

9. SELECTED MANUFACTURERS

1. Kerr-McGee Chemical Corp.
   Kerr-McGee Bldg.
   Oklahoma City, Okla. 73102
2. U. S. Borax and Chemical Co.
   3075 Wilshire Blvd.
   Los Angeles, Calif. 90010
3. Stauffer Chemical Co.
   Industrial Chemicals Div.
   Westport, Conn. 06880

10. SHIPPING INFORMATION

10.1 **Grades of Purity:** Radio, 99.98%; Technical, 99.9%; N.F., 99.5%

10.2 **Storage Temperature:** Ambient

10.3 **Inert Atmosphere:** No requirement

10.4 **Venting:** Open

11. HAZARD ASSESSMENT CODE

(See Hazard Assessment Handbook, CG 448-3)

SS-II

12. HAZARD CLASSIFICATIONS

12.1 **Code of Federal Regulations:** Not listed

12.2 **NAS Hazard Rating for Bulk Water Transportation:** Not listed

12.3 **NFPA Hazard Classifications:** Not listed

13. PHYSICAL AND CHEMICAL PROPERTIES

13.1 **Physical State at 15°C and 1 atm:** Solid

13.2 **Molecular Weight:** 61.83

13.3 **Boiling Point at 1 atm:** Not pertinent (decomposes)

13.4 **Freezing Point:** Not pertinent

13.5 **Critical Temperature:** Not pertinent

13.6 **Critical Pressure:** Not pertinent

13.7 **Specific Gravity:** 1.51 at 14°C (solid)

13.8 **Liquid Surface Tension:** Not pertinent

13.9 **Liquid-Water Interfacial Tension:** Not pertinent

13.10 **Vapor (Gas) Specific Gravity:** Not pertinent

13.11 **Ratio of Specific Heats of Vapor (Gas):** Not pertinent

13.12 **Latent Heat of Vaporization:** Not pertinent

13.13 **Heat of Combustion:** Not pertinent

13.14 **Heat of Decomposition:** Not pertinent

13.15 **Heat of Solution:** −157 Btu/lb = −87 cal/g = -3.7×10^5 J/kg

13.16 **Heat of Polymerization:** Not pertinent

(Continued on pages 5 and 6)

5. HEALTH HAZARDS (Cont'd)

5.6 **Toxicity by Ingestion:** Grade 2; oral rat LD_{50} = 2,660 mg/kg

5.7 **Late Toxicity:** Data not available

5.8 **Vapor (Gas) Irritant Characteristics:** Data not available

5.9 **Liquid or Solid Irritant Characteristics:** Data not available

5.10 **Odor Threshold:** Odorless

CSS — CAUSTIC SODA SOLUTION

Common Synonyms
Sodium hydroxide solution
Lye

Thick liquid | Colorless | Odorless

Sinks and mixes with water.

AVOID CONTACT WITH LIQUID. Keep people away.
Wear rubber overclothing (including gloves).
Stop discharge if possible.
Isolate and remove discharged material.
Notify local health and pollution control agencies.

Fire

Not flammable.

Exposure

CALL FOR MEDICAL AID.

LIQUID
Will burn skin and eyes.
Harmful if swallowed.

Remove contaminated clothing and shoes.
Flush affected areas with plenty of water.
IF IN EYES, hold eyelids open and flush with plenty of water.
IF SWALLOWED and victim is CONSCIOUS, have victim drink water or milk.
DO NOT INDUCE VOMITING.

Water Pollution

Dangerous to aquatic life in high concentrations.
May be dangerous if it enters water intakes.

Notify local health and pollution control officials.
Notify operators of nearby water intakes.

1. RESPONSE TO DISCHARGE

(See Response Methods Handbook, CG 448-4)

Issue warning: corrosive
Restrict access
Disperse and flush

2. LABEL

3. CHEMICAL DESIGNATIONS

3.1 **Synonyms:** Sodium hydroxide solution; Lye

3.2 **Coast Guard Compatibility Classification:** Caustic

3.3 **Chemical Formula:** $NaOH \quad H_2O$

3.4 **IMCO/United Nations Numerical Designation:** 8.0/1824

4. OBSERVABLE CHARACTERISTICS

4.1 **Physical State (as shipped):** Liquid

4.2 **Color:** Colorless

4.3 **Odor:** None

5. HEALTH HAZARDS

5.1 **Personal Protective Equipment:** Wide-brimmed hat; safety goggles with rubber side shields, tight-fitting cotton clothing; rubber gloves under shirt cuffs; rubber boots and apron.

5.2 **Symptoms Following Exposure:** Causes severe burns of eyes, skin, and mucous membranes.

5.3 **Treatment for Exposure:** (Act quickly!) EYES: flush with water at once for at least 15 min. SKIN: flush with water, then rinse with dilute vinegar (acetic acid). INGESTION: give water and milk. Do NOT induce vomiting. Call physician at once, even when injury seems to be slight.

5.4 **Toxicity by Inhalation (Threshold Limit Value):** Not pertinent

5.5 **Short-Term Inhalation Limits:** Not pertinent

5.6 **Toxicity by Ingestion:** Grade 2; oral rabbit LD_{50} = 500 mg/kg

5.7 **Late Toxicity:** None

5.8 **Vapor (Gas) Irritant Characteristics:** Not pertinent

5.9 **Liquid or Solid Irritant Characteristics:** Severe skin irritant. Causes second- and third-degree burns on short contact and is very injurious to the eyes.

5.10 **Odor Threshold:** Not pertinent

6. FIRE HAZARDS

6.1 **Flash Point:** Not flammable

6.2 **Flammable Limits in Air:** Not flammable

6.3 **Fire Extinguishing Agents:** Not pertinent

6.4 **Fire Extinguishing Agents Not to be Used:** Not pertinent

6.5 **Special Hazards of Combustion Products:** Not pertinent

6.6 **Behavior in Fire:** Not pertinent

6.7 **Ignition Temperature:** Not flammable

6.8 **Electrical Hazard:** Not pertinent

6.9 **Burning Rate:** Not flammable

7. CHEMICAL REACTIVITY

7.1 **Reactivity with Water:** No reaction

7.2 **Reactivity with Common Materials:** Corrosive to aluminum, zinc, and tin. Contact with some metals may generate hydrogen gas, which is explosive and flammable.

7.3 **Stability During Transport:** Stable

7.4 **Neutralizing Agents for Acids and Caustics:** Dilute with water, rinse with dilute acetic acid.

7.5 **Polymerization:** Not pertinent

7.6 **Inhibitor of Polymerization:** Not pertinent

8. WATER POLLUTION

8.1 **Aquatic Toxicity:** 125 ppm/96 hr/mosquito fish/TL_m/fresh water
180 ppm/23 hr/oysters/lethal/salt water
(These figures are for 100% sodium hydroxide)

8.2 **Waterfowl Toxicity:** Data not available

8.3 **Biological Oxygen Demand (BOD):** None

8.4 **Food Chain Concentration Potential:** None

9. SELECTED MANUFACTURERS

1. Diamond Shamrock Corp.
Electrochemicals Division
Painesville, Ohio 44077

2. Dow Chemical Co.
Midland, Mich. 48640

3. PPG Industries, Inc.
Industrial Chemicals Division
Barberton, Ohio 44203

10. SHIPPING INFORMATION

10.1 **Grades or Purity:** 50-73%

10.2 **Storage Temperature:** Ambient or elevated

10.3 **Inert Atmosphere:** No requirement

10.4 **Venting:** Open

11. HAZARD ASSESSMENT CODE

(See Hazard Assessment Handbook, CG 446-3)

A-P

12. HAZARD CLASSIFICATIONS

12.1 **Code of Federal Regulations:** Corrosive material

12.2 **MAS Hazard Rating for Bulk Water Transportation:**

Category	Rating
Fire	0
Health	
Vapor Irritant	0
Liquid or Solid Irritant	4
Poisons	1
Water Pollution	
Human Toxicity	2
Aquatic Toxicity	3
Aesthetic Effect	2
Reactivity	
Other Chemicals	4
Water	0
Self-Reaction	0

12.3 **NFPA Hazard Classifications:**

Category	Classification
Health Hazard (Blue)	3
Flammability (Red)	0
Reactivity (Yellow)	1

13. PHYSICAL AND CHEMICAL PROPERTIES

13.1 **Physical State at 15°C and 1 atm:** Liquid

13.2 **Molecular Weight:** Not pertinent

13.3 **Boiling Point at 1 atm:** >266°F = >130°C = >403°K

13.4 **Freezing Point:** Not pertinent

13.5 **Critical Temperature:** Not pertinent

13.6 **Critical Pressure:** Not pertinent

13.7 **Specific Gravity:** 1.5 at 20°C

13.8 **Liquid Surface Tension:** Not pertinent

13.9 **Liquid-Water Interfacial Tension:** Not pertinent

13.10 **Vapor (Gas) Specific Gravity:** Not pertinent

13.11 **Ratio of Specific Heats of Vapor (Gas):** Not pertinent

13.12 **Latent Heat of Vaporization:** Not pertinent

13.13 **Heat of Combustion:** Not pertinent

13.14 **Heat of Decomposition:** Not pertinent

13.15 **Heat of Solution:** Not pertinent

13.16 **Heat of Polymerization:** Not pertinent

(Continued on pages 5 and 6)

NOTES

CDN

CHLORDANE

Common Synonyms
Chlordan
1, 2, 4, 5, 6, 7, 8, 8-octachloro-2, 3, 3a, 4, 7, 7a-hexahydro-4, 7-methanoindene
Toxichlor
Octa-Klor
Velsicol 1068

Liquid or solution | Brown | Sharp odor

Sinks in water.

AVOID CONTACT WITH LIQUID. KEEP PEOPLE AWAY.
Wear goggles, self-contained breathing apparatus, and rubber overclothing (including gloves).
Stop discharge if possible.
Call fire department.
Isolate and remove discharged material.
Notify local health and pollution control agencies.

Fire

Not flammable but solution may be combustible.
POISONOUS GASES MAY BE PRODUCED IN FIRE.
Extinguish with dry chemicals, foam or carbon dioxide.
Water may be ineffective on fire.
Cool exposed containers with water.

Exposure

CALL FOR MEDICAL AID.
LIQUID OR SOLUTION
POISONOUS IF SWALLOWED OR IF SKIN IS EXPOSED.
Irritating to skin and eyes.
Remove contaminated clothing and shoes.
Flush affected areas with plenty of water.
DO NOT RUB AFFECTED AREAS.
IF IN EYES, hold eyelids open and flush with plenty of water.
IF SWALLOWED and victim is CONSCIOUS, have victim drink water or milk and have victim induce vomiting.
IF SWALLOWED and victim is UNCONSCIOUS OR HAVING CONVULSIONS, do nothing except keep victim warm.

Water Pollution

HARMFUL TO AQUATIC LIFE IN VERY LOW CONCENTRATIONS.
May be dangerous if it enters water intakes.
Notify local health and wildlife officials.
Notify operators of nearby water intakes.

1. RESPONSE TO DISCHARGE

(See Response Methods Handbook, CG 448-4)

Issue warning poison
Restrict access
Should be removed
Chemical and physical treatment

2. LABELS

No hazard label required by Code of Federal Regulations

3. CHEMICAL DESIGNATIONS

3.1 **Synonyms:** Chlordan; 1, 2, 4, 5, 6, 7, 8, 8-Octachloro-2, 3, 3a, 4, 7, 7a-hexahydro-4, 7-methanoindene; Velsicol 1068; CD-68; Toxichlor, Octa-Klor

3.2 **Coast Guard Compatibility Classification:** Not applicable

3.3 **Chemical Formula:** $C_{10}H_6Cl_8$

3.4 **IMCO/United Nations Numerical Designation:** 6.1/1615

4. OBSERVABLE CHARACTERISTICS

4.1 **Physical State (as shipped):** Liquid

4.2 **Color:** Brown

4.3 **Odor:** Penetrating; aromatic; slightly pungent, like chlorine

5. HEALTH HAZARDS

5.1 **Personal Protective Equipment:** Respirator for sprays, fogs, or dust; goggles, rubber gloves

5.2 **Symptoms Following Exposure:** Moderately irritating to eyes and skin. Ingestion, absorption through skin, or inhalation of mist or dust may cause excitability, convulsions, nausea, vomiting, diarrhea, and some local irritation of the gastrointestinal tract.

5.3 **Treatment for Exposure:** INHALATION: administer oxygen and give fluid therapy; do not give epinephrine, since it may induce ventricular fibrillation; enforce complete rest. EYES: flush with water for at least 15 min. SKIN: wash off skin with adequate quantities of soap and water; do NOT scrub. INGESTION: induce vomiting and follow with gastric lavage and administration of saline cathartics; ether and barbiturates may be used to control convulsions; oxygen and fluid therapy are also recommended; do NOT give epinephrine. Since no specific antidotes are known, symptomatic therapy must be accompanied by complete rest.

5.4 **Toxicity by Inhalation (Threshold Limit Value):** 0.5 mg/m³

5.5 **Short-Term Inhalation Limits:** 2 mg/m³ for 30 min

5.6 **Toxicity by Ingestion:** Grade 3; oral LD_{50} = 283 mg/kg (rat)

5.7 **Late Toxicity:** Possible liver damage; loss of appetite and weight

5.8 **Vapor (Gas) Irritant Characteristics:** Data not available

5.9 **Liquid or Solid Irritant Characteristics:** Data not available

5.10 **Odor Threshold:** Data not available

6. FIRE HAZARDS

6.1 **Flash Point:** Solution, 225°F O.C., 132°F C.C. Solid is not flammable

6.2 **Flammable Limits in Air:** 0.7% 5% (kerosene solution)

6.3 **Fire Extinguishing Agents:** Dry chemical, foam, carbon dioxide

6.4 **Fire Extinguishing Agents Not to be Used:** Water may be ineffective on solution fire

6.5 **Special Hazards of Combustion Products:** Irritating and toxic hydrogen chloride and phosgene gases may be formed when kerosene solution of compound burns.

6.6 **Behavior in Fire:** Not pertinent

6.7 **Ignition Temperature:** 410°F (kerosene solvent)

6.8 **Electrical Hazard:** Data not available

6.9 **Burning Rate:** Not pertinent

7. CHEMICAL REACTIVITY

7.1 **Reactivity with Water:** No reaction

7.2 **Reactivity with Common Materials:** No reaction

7.3 **Stability During Transport:** Stable to 160°F

7.4 **Neutralizing Agents for Acids and Caustics:** Not pertinent

7.5 **Polymerization:** Not pertinent

7.6 **Inhibitor of Polymerization:** Not pertinent

8. WATER POLLUTION

8.1 **Aquatic Toxicity:** 0.5 ppm/96 hr/goldfish/TL_m/fresh water

8.2 **Waterfowl Toxicity:** LD_{50} = 1,200 mg/kg

8.3 **Biological Oxygen Demand (BOD):** Data not available

8.4 **Food Chain Concentration Potential:** High

9. SELECTED MANUFACTURERS

1. Velsicol Chemical Corp.
341 East Ohio Street
Chicago, Ill. 60611
2. S. B. Penick & Co.
100 Church Street
New York, N. Y. 10007
3. Chempar Chemical Co.
260 Madison Avenue
New York, N. Y. 10016

10. SHIPPING INFORMATION

10.1 **Grades of Purity:** Technical. A variety of dusts, powders, and solutions in kerosene containing 2-80% chlordane are shipped.

10.2 **Storage Temperature:** Ambient

10.3 **Inert Atmosphere:** No requirement

10.4 **Venting:** Open (flame arrester)

11. HAZARD ASSESSMENT CODE

(See Hazard Assessment Handbook, CG 448-3)

A-X-Y

12. HAZARD CLASSIFICATIONS

12.1 **Code of Federal Regulations:** Combustible Liquid

12.2 **NAS Hazard Rating for Bulk Water Transportation:** Not listed

12.3 **NFPA Hazard Classifications:** Not listed

13. PHYSICAL AND CHEMICAL PROPERTIES*

13.1 **Physical State at 15°C and 1 atm:** Liquid

13.2 **Molecular Weight:** 409.8

13.3 **Boiling Point at 1 atm:** Decomposes

13.4 **Freezing Point:** Not pertinent

13.5 **Critical Temperature:** Not pertinent

13.6 **Critical Pressure:** Not pertinent

13.7 **Specific Gravity:** 1.6 at 25°C (liquid)

13.8 **Liquid Surface Tension:** (est.) 25 dynes/cm = 0.025 N/m at 20°C

13.9 **Liquid-Water Interfacial Tension:** (est.) 50 dynes/cm = 0.05 N/m at 20°C

13.10 **Vapor (Gas) Specific Gravity:** Not pertinent

13.11 **Ratio of Specific Heats of Vapor (Gas):** Not pertinent

13.12 **Latent Heat of Vaporization:** Not pertinent

13.13 **Heat of Combustion:** (est.) −4,000 Btu/lb = −2,200 cal/g = -93×10^3 J/kg

13.14 **Heat of Decomposition:** Not pertinent

13.15 **Heat of Solution:** Not pertinent

13.16 **Heat of Polymerization:** Not pertinent

* Properties refer to undiluted, technical-grade chlordane.

(Continued on pages 5 and 6)

NOTES

CLX

CHLORINE

Common Synonyms	Liquefied compressed gas Greenish yellow Irritating, bleach-like choking odor
	Sinks and boils in water. Poisonous, visible vapor cloud is produced.

AVOID CONTACT WITH LIQUID AND VAPOR. Keep people away.
Wear goggles, self-contained breathing apparatus and rubber overclothing (including gloves).
Stop discharge if possible.
Evacuate area in case of large discharge.
Stay upwind and use water spray to "knock down" vapor.
Notify local health and pollution control agencies.

Fire

Not flammable.
May cause fire on contact with combustibles.
POISONOUS GASES ARE PRODUCED IN FIRES.
Stop flow of gas if possible.
Cool exposed containers and protect men effecting shutoff with water.
Wear goggles, self-contained breathing apparatus, and rubber overclothing (including gloves).

Exposure

CALL FOR MEDICAL AID.

VAPOR
POISONOUS IF INHALED.
Will burn eyes.
Move to fresh air.
If breathing has stopped, give artificial respiration (but NOT mouth-to-mouth).
If breathing is difficult, give oxygen.
IF IN EYES, hold eyelids open and flush with plenty of water.

LIQUID
Will burn skin and eyes.
Will cause frostbite.
Flush affected areas with plenty of water.
IF IN EYES, hold eyelids open and flush with plenty of water.
DO NOT RUB AFFECTED AREAS.

Water Pollution

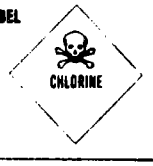
HARMFUL TO AQUATIC LIFE IN VERY LOW CONCENTRATIONS.
May be dangerous if it enters water intakes.
Notify local health and wildlife officials.
Notify operators of nearby water intakes.

1. RESPONSE TO DISCHARGE

(See Response Methods Handbook, CG 448-4)

Issue warning poison
Restrict access
Evacuate area

2. LABEL



3. CHEMICAL DESIGNATIONS

3.1 **Synonyms:** No common synonyms
3.2 **Coast Guard Compatibility Classification:** Halogen
3.3 **Chemical Formula:** Cl_2
3.4 **IMCO/United Nations Numerical Designation:** 2.0/1017

4. OBSERVABLE CHARACTERISTICS

4.1 **Physical State (as shipped):** Liquefied compressed gas
4.2 **Color:** Greenish yellow
4.3 **Odor:** Characteristic choking

5. HEALTH HAZARDS

5.1 **Personal Protective Equipment:** Quick-opening safety shower and eye fountain; respiratory equipment approved for chlorine service. Wear safety goggles at all times when in vicinity of liquid chlorine.

5.2 **Symptoms Following Exposure:** Eye irritation, sneezing, copious salivation, general excitement and restlessness. Irritation may persist for several days. High concentrations cause respiratory distress and violent coughing, often with retching. Death may result from suffocation.

5.3 **Treatment for Exposure:** INHALATION: remove victim from source of exposure; call a doctor, support respiration; administer oxygen. EYES: flush with copious amounts of water for at least 15 min.

5.4 **Toxicity by Inhalation (Threshold Limit Value):** 1 ppm

5.5 **Short-Term Inhalation Limits:** 3 ppm for 5 min.

5.6 **Toxicity by Ingestion:** Not pertinent; ingestion unlikely (chlorine is a gas above −34.5°C)

5.7 **Late Toxicity:** None

5.8 **Vapor (Gas) Irritant Characteristics:** Vapors cause severe irritation of eyes and throat and can cause eye and lung injury. They cannot be tolerated even at low concentrations.

5.9 **Liquid or Solid Irritant Characteristics:** Causes smarting of the skin and first-degree burns on short exposure; may cause secondary burns on long exposure.

5.10 **Odor Threshold:** 3.5 ppm

6. FIRE HAZARDS

6.1 **Flash Point:** Not flammable
6.2 **Flammable Limits in Air:** Not flammable
6.3 **Fire Extinguishing Agents:** Not pertinent
6.4 **Fire Extinguishing Agents Not to be Used:** Not pertinent
6.5 **Special Hazards of Combustion Products:** Toxic products are generated when combustibles burn in chlorine.
6.6 **Behavior in Fire:** Most combustibles will burn in chlorine, although gas is not flammable.
6.7 **Ignition Temperature:** Not flammable
6.8 **Electrical Hazard:** Data not available
6.9 **Burning Rate:** Not flammable

7. CHEMICAL REACTIVITY

7.1 **Reactivity with Water:** Forms a corrosive solution
7.2 **Reactivity with Common Materials:** Reacts vigorously with most metals at high temperature. Copper may burn spontaneously.
7.3 **Stability During Transport:** Stable
7.4 **Neutralizing Agents for Acids and Caustics:** Not pertinent
7.5 **Polymerization:** Not pertinent
7.6 **Inhibitor of Polymerization:** Not pertinent

8. WATER POLLUTION

8.1 **Aquatic Toxicity:** 0.08 ppm/168 hr/trout/TL_m/fresh water; 10 ppm/1 hr/tunicates/killed/salt water
8.2 **Waterfowl Toxicity:** Data not available
8.3 **Biological Oxygen Demand (BOD):** None
8.4 **Food Chain Concentration Potential:** None

9. SELECTED MANUFACTURERS

1. Diamond Shamrock Corp.
   Electro Chemicals Division
   Deer Park, Texas 77536
2. Dow Chemical Co.
   Midland, Mich. 48640
3. PPG Industries Inc
   Industrial Chemicals Division
   Barberton, Ohio 44203

10. SHIPPING INFORMATION

10.1 **Grades of Purity:** Research purity; ultra high purity; high purity
10.2 **Storage Temperature:** Ambient
10.3 **Inert Atmosphere:** No requirement
10.4 **Venting:** Safety relief (300 psi)

11. HAZARD ASSESSMENT CODE

(See Hazard Assessment Handbook, CG 446-3)

A-C-I-J

12. HAZARD CLASSIFICATIONS

12.1 **Code of Federal Regulations:** Nonflammable compressed gas

12.2 **NAS Hazard Rating for Bulk Water Transportation:**

Category	Rating
Fire	0
Health	
Vapor Irritant	4
Liquid or Solid Irritant	2
Poisons	4
Water Pollution	
Human Toxicity	2
Aquatic Toxicity	3
Aesthetic Effect	2
Reactivity	
Other Chemicals	4
Water	1
Self-Reaction	0

12.3 **NFPA Hazard Classifications:**

Category	Classification
Health Hazard (Blue)	3
Flammability (Red)	0
Reactivity (Yellow)	0
	oxy

13. PHYSICAL AND CHEMICAL PROPERTIES

13.1 **Physical State at 15°C and 1 atm:** Gas
13.2 **Molecular Weight:** 70.91
13.3 **Boiling Point at 1 atm:** −29.4°F = −34.1°C = 239.1°K
13.4 **Freezing Point:** −150°F = −101°C = 172°K
13.5 **Critical Temperature:** 291°F = 144°C = 417°K
13.6 **Critical Pressure:** 1118 psia = 76.05 atm = 7.704 MN/m^2
13.7 **Specific Gravity:** 1.424 at 15°C (liquid)
13.8 **Liquid Surface Tension:** 26.55 dynes/cm at −35.3°C
13.9 **Liquid-Water Interfacial Tension:** Not pertinent
13.10 **Vapor (Gas) Specific Gravity:** 2.4
13.11 **Ratio of Specific Heats of Vapor (Gas):** 1.325
13.12 **Latent Heat of Vaporization:** 124 Btu/lb = 68.7 cal/g = 2.87 × 10^5 J/kg
13.13 **Heat of Combustion:** Not pertinent
13.14 **Heat of Decomposition:** Not pertinent
13.15 **Heat of Solution:** Not pertinent
13.16 **Heat of Polymerization:** Not pertinent

(Continued on pages 5 and 6)

NOTES

REVISED 1978

CCH

CYCLOHEXANONE

Common Synonyms
Cyclohexyl Ketone

Watery liquid | Colorless to light yellow | Sweet, peppermint odor

Floats and mixes slowly with water.

Avoid contact with liquid. Keep people away.
Wear goggles, self-contained breathing apparatus, and rubber overclothing (including gloves).
Stop discharge if possible.
Call fire department.
Isolate and remove discharged material.
Notify local health and pollution control agencies.

Fire

Combustible.
Extinguish with dry chemicals, foam, or carbon dioxide.

Exposure

CALL FOR MEDICAL AID.

LIQUID
Will burn skin and eyes.
Harmful if swallowed.
Remove contaminated clothing and shoes.
Flush affected areas with plenty of water.
IF IN EYES, hold eyelids open and flush with plenty of water.
IF SWALLOWED, and victim is CONSCIOUS, have victim drink water or milk.

Water Pollution

Effect of low concentrations on aquatic life is unknown.
May be dangerous if it enters water intakes.
Notify local health and pollution control officials.
Notify operators of nearby water intakes.

1. RESPONSE TO DISCHARGE

(See Response Methods Handbook, CG 446-4)

Disperse and flush

2. LABELS

No hazard label required by Code of Federal Regulations

3. CHEMICAL DESIGNATIONS

3.1 **Synonyms:** Anone
Cyclohexyl ketone
Hytrol O
Nadone
Pimelic ketone
Sextone

3.2 **Coast Guard Compatibility Classification:** Ketone

3.3 **Chemical Formula:** $(CH_2)_5CO$

3.4 **IMCO/United Nations Numerical Designation:** 3.3/1915

4. OBSERVABLE CHARACTERISTICS

4.1 **Physical State (as shipped):** Liquid

4.2 **Color:** Colorless to slightly yellow

4.3 **Odor:** Like peppermint and acetone

5. HEALTH HAZARDS

5.1 **Personal Protective Equipment:** Chemical goggles

5.2 **Symptoms Following Exposure:** Inhalation of vapors from hot material can cause narcosis. The liquid may cause dermatitis.

5.3 **Treatment for Exposure:** Immediately flush eyes with plenty of water, call a physician

5.4 **Toxicity by Inhalation (Threshold Limit Value):** 50 ppm

5.5 **Short-Term Inhalation Limits:** Data not available

5.6 **Toxicity by Ingestion:** Grade 2; LD_{50} 0.5 to 5 g/kg

5.7 **Late Toxicity:** Data not available

5.8 **Vapor (Gas) Irritant Characteristics:** Vapor is moderately irritating such that personnel will not usually tolerate moderate or high vapor concentrations.

5.9 **Liquid or Solid Characteristics:** Causes smarting of the skin and first-degree burns on short exposure and may cause secondary burns on long exposure.

5.10 **Odor Threshold:** 0.12 ppm

6. FIRE HAZARDS

6.1 **Flash Point:** 129°F O.C.; 111°F C.C.

6.2 **Flammable Limits in Air:** 1.1% LFL

6.3 **Fire Extinguishing Agents:** Water, dry chemical or carbon dioxide

6.4 **Fire Extinguishing Agents Not to be Used:** Not pertinent

6.5 **Special Hazards of Combustion Products:** Not pertinent

6.6 **Behavior in Fire:** Not pertinent

6.7 **Ignition Temperature:** 788°F

6.8 **Electrical Hazard:** Data not available

6.9 **Burning Rate:** 4.2 mm/min.

7. CHEMICAL REACTIVITY

7.1 **Reactivity with Water:** No reaction

7.2 **Reactivity with Common Materials:** No reaction

7.3 **Stability During Transport:** Stable

7.4 **Neutralizing Agents for Acids and Caustics:** Not pertinent

7.5 **Polymerization:** Not pertinent

7.6 **Inhibitor of Polymerization:** Not pertinent

8. WATER POLLUTION

8.1 **Aquatic Toxicity:** Data not available

8.2 **Waterfowl Toxicity:** Data not available

8.3 **Biological Oxygen Demand (BOD):** Data not available

8.4 **Food Chain Concentration Potential:** None

9. SELECTED MANUFACTURERS

1. Allied Chemical Corp.
Specialty Chemicals Div.
Hopewell, Virginia 23860
2. E. I. du Pont de Nemours & Co.
Industrial & Biochemicals Dept.
Wilmington, Delaware 19898
3. Monsanto Co.
Monsanto Industrial Chemicals Co.
800 North Lindbergh Blvd
St. Louis, Mo. 63166

10. SHIPPING INFORMATION

10.1 **Grades or Purity:** Technical: 99.87%

10.2 **Storage Temperature:** Data not available

10.3 **Inert Atmosphere:** Data not available

10.4 **Venting:** Data not available

11. HAZARD ASSESSMENT CODE

(See Hazard Assessment Handbook, CG 446-3)

A-P-Q-T-U

12. HAZARD CLASSIFICATIONS

12.1 **Code of Federal Regulations:** Combustible Liquid

12.2 **NAS Hazard Rating for Bulk Water Transportation:**

Category	Rating
Fire	2
Health	
Vapor Irritant	3
Liquid or Solid Irritant	2
Poisons	1
Water Pollution	
Human Toxicity	1
Aquatic Toxicity	3
Aesthetic Effect	2
Reactivity	
Other Chemicals	2
Water	0
Self-Reaction	0

12.3 **NFPA Hazard Classifications:** Not listed

13. PHYSICAL AND CHEMICAL PROPERTIES

13.1 **Physical State at 15°C and 1 atm:** Liquid

13.2 **Molecular Weight:** 98.15

13.3 **Boiling Point at 1 atm:** 312.4°F = 155.8°C = 429.0°K

13.4 **Freezing Point:** −24.2°F = −31.2°C = 242.0°K

13.5 **Critical Temperature:** 673°F = 356°C = 629°K

13.6 **Critical Pressure:** 560 psia = 38 atm = 3.8 MN/m²

13.7 **Specific Gravity:** 0.945 at 20°C (liquid)

13.8 **Liquid Surface Tension:** 34 dynes/cm = 0.034 N/m at 20°C

13.9 **Liquid-Water Interfacial Tension:** 90 dynes/cm = 0.090 N/m at 22.7°C

13.10 **Vapor (Gas) Specific Gravity:** Not pertinent

13.11 **Ratio of Specific Heats of Vapor (Gas):** 1.064

13.12 **Latent Heat of Vaporization:** 160 Btu/lb = 91 cal/g = 3.8 × 10⁵ J/kg

13.13 **Heat of Combustion:** −15,430 Btu/lb = −8570 cal/g = −358.8 × 10⁵ J/kg

13.14 **Heat of Decomposition:** Not pertinent

13.15 **Heat of Solution:** Not pertinent

13.16 **Heat of Polymerization:** Not pertinent

(Continued on pages 5 and 6)

NOTES

REVISED 1978

CHA CYCLOHEXYLAMINE

Common Synonyms			
Aminocyclohexane Hexahydroaniline	Liquid	Colorless	Strong, fishy odor
	Floats and mixes with water.		

Avoid contact with liquid. Keep people away.
Wear goggles, self-contained breathing apparatus, and rubber overclothing (including gloves).
Stop discharge if possible.
Call fire department.
Isolate and remove discharged material
Notify local health and pollution control agencies.

Fire

FLAMMABLE
Flashback along vapor trail may occur.
Vapor may explode if ignited in an enclosed area.
Wear goggles and self-contained breathing apparatus.
Extinguish with dry chemicals, foam, or carbon dioxide.
Cool exposed containers with water.

Exposure

CALL FOR MEDICAL AID.

LIQUID
Will burn skin and eyes.
Harmful if swallowed.
Remove contaminated clothing and shoes.
Flush affected areas with plenty of water.
IF IN EYES, hold eyelids open and flush with plenty of water.
IF SWALLOWED, and victim is CONSCIOUS, have victim drink water or milk.
DO NOT INDUCE VOMITING.

Water Pollution

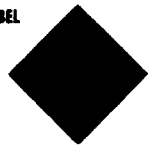
Effect of low concentrations on aquatic life is unknown.
May be dangerous if it enters water intakes.
Notify local health and pollution control officials.
Notify operators of nearby water intakes.

1. RESPONSE TO DISCHARGE

(See Response Methods Handbook, CG 448-4)

Disperse and flush

2. LABEL



3. CHEMICAL DESIGNATIONS

3.1 **Synonyms:**
Aminocyclohexane
Hexahydroaniline

3.2 **Coast Guard Compatibility Classification:** Aliphatic amine

3.3 **Chemical Formula:** $C_6H_{11}NH_2$

3.4 **IMCO/United Nations Numerical Designation:** Not listed

4. OBSERVABLE CHARACTERISTICS

4.1 **Physical State (as shipped):** Liquid

4.2 **Color:** Colorless

4.3 **Odor:** Strong fishy

5. HEALTH HAZARDS

5.1 **Personal Protective Equipment:** Rubber gloves, chemical goggles, approved Bureau of Mines respirator for organic vapors

5.2 **Symptoms Following Exposure:** Cyclohexylamine is strongly caustic. Inhalation of vapors and contact of liquid with skin and eyes causes severe burns.

5.3 **Treatment for Exposure** INGESTION: do NOT induce vomiting. EYES: flush with water for at least 15 min and obtain immediate medical attention. SKIN: immediately remove contaminated clothing and flush skin with large amounts of water

5.4 **Toxicity by Inhalation (Threshold Limit Value):** 300 mg/m³

5.5 **Short-Term Inhalation Limits:** Data not available

5.6 **Toxicity by Ingestion:** Grade 3; LD_{50} 50 to 500 mg/kg

5.7 **Late Toxicity:** Produced cancer of the bladder in the rat.

5.8 **Vapor (Gas) Irritant Characteristics:** Vapor is moderately irritating such that personnel will not usually tolerate moderate or high vapor concentrations.

5.9 **Liquid or Solid Irritant Characteristics:** Severe skin irritant. Causes second- and third-degree burns on short contact; very injurious to the eyes.

5.10 **Odor Threshold:** Data not available

6. FIRE HAZARDS

6.1 **Flash Point:** 90°F O.C.

6.2 **Flammable Limits in Air:** Data not available

6.3 **Fire Extinguishing Agents:** Foam, carbon dioxide, dry chemical

6.4 **Fire Extinguishing Agents Not to be Used:** Not pertinent

6.5 **Special Hazards of Combustion Products:** Not pertinent

6.6 **Behavior in Fire:** Not pertinent

6.7 **Ignition Temperature:** 560°F

6.8 **Electrical Hazard:** Data not available

6.9 **Burning Rate:** 5.0 mm/min

7. CHEMICAL REACTIVITY

7.1 **Reactivity with Water:** No reaction

7.2 **Reactivity with Common Materials:** No reaction

7.3 **Stability During Transport:** Stable

7.4 **Neutralizing Agents for Acids and Caustics:** Flush with water.

7.5 **Polymerization:** Not pertinent

7.6 **Inhibitor of Polymerization:** Not pertinent

8. WATER POLLUTION

8.1 **Aquatic Toxicity:** Data not available

8.2 **Waterfowl Toxicity:** Data not available

8.3 **Biological Oxygen Demand (BOD):** Data not available

8.4 **Food Chain Concentration Potential:** None

9. SELECTED MANUFACTURERS

1. Abbott Laboratories
Chemical Division
Wichita, Kansas 67200
2. Monsanto Co.
Monsanto Industrial Chemicals Co
800 North Lindbergh Blvd
St. Louis, Mo. 63166
3. Virginia Chemicals Inc.
3340 West Norfolk Rd.
Portsmouth, Virginia 23703

10. SHIPPING INFORMATION

10.1 **Grades or Purity:** Data not available

10.2 **Storage Temperature:** Data not available

10.3 **Inert Atmosphere:** Data not available

10.4 **Venting:** Data not available

11. HAZARD ASSESSMENT CODE

(See Hazard Assessment Handbook, CG 446-3)

A-P-Q

12. HAZARD CLASSIFICATIONS

12.1 **Code of Federal Regulations:** Flammable Liquid

12.2 **NAS Hazard Rating for Bulk Water Transportation:** Not listed

12.3 **NFPA Hazard Classifications:**

Category	Classification
Health Hazard (Blue)	2
Flammability (Red)	3
Reactivity (Yellow)	0

13. PHYSICAL AND CHEMICAL PROPERTIES

13.1 **Physical State at 15°C and 1 atm:** Liquid

13.2 **Molecular Weight:** 99.18

13.3 **Boiling Point at 1 atm:** 274.1°F = 134.5°C = 407.7°K

13.4 **Freezing Point:** 0.1°F = −17.7°C = 255.5°K

13.5 **Critical Temperature:** 648°F = 342°C = 615°K

13.6 **Critical Pressure:** Not pertinent

13.7 **Specific Gravity:** 0.865 at 20°C (liquid)

13.8 **Liquid Surface Tension:** Not pertinent

13.9 **Liquid-Water Interfacial Tension:** Not pertinent

13.10 **Vapor (Gas) Specific Gravity:** Not pertinent

13.11 **Ratio of Specific Heats of Vapor (Gas):** Not pertinent

13.12 **Latent Heat of Vaporization:** 158 Btu/lb = 87.6 cal/g = 3.67×10^5 J/kg

13.13 **Heat of Combustion:** (est.) −18,000 Btu/lb = −10,000 cal/g = -420×10^5 J/kg

13.14 **Heat of Decomposition:** Not pertinent

13.15 **Heat of Solution:** (est.) −4 Btu/lb = −2 cal/g = -0.1×10^5 J/kg

13.16 **Heat of Polymerization:** Not pertinent

(Continued on pages 5 and 6)

NOTES

DES

2,4-D ESTERS

Common Synonyms			
Butyl 2,4-Dichlorophenoxyacetate/ Isopropyl 2,4-dichlorophenoxy acetate/ 2,4 Dichlorophenoxyacetic acid, butyl ester/ 2,4-Dichlorophenoxyacetic acid,	Liquid	Yellowish brown	Fuel oil-like odor
	Sinks in water.		

Stop discharge if possible. Keep people away.
Shut off ignition sources. Call fire department.
Avoid contact with liquid.
Isolate and remove discharged material.
Notify local health and pollution control agencies.

Fire

Combustible.
Irritating gases may be produced when heated.
Wear goggles and self-contained breathing apparatus.
Extinguish with dry chemicals, foam or carbon dioxide.
Water may be ineffective on fire.
Cool exposed containers with water.

Exposure

CALL FOR MEDICAL AID.

LIQUID
Irritating to skin and eyes.
Harmful if swallowed.
Remove contaminated clothing and shoes.
Flush affected areas with plenty of water.
IF IN EYES, hold eyelids open and flush with plenty of water.
IF SWALLOWED and victim is CONSCIOUS, have victim drink water or milk and have victim induce vomiting.
IF SWALLOWED and victim is UNCONSCIOUS OR HAVING CONVULSIONS, do nothing except keep victim warm.

Water Pollution

Dangerous to aquatic life in high concentrations.
May be dangerous if it enters water intakes.
Notify local health and wildlife officials.
Notify operators of nearby water intakes.

1. RESPONSE TO DISCHARGE

(See Response Methods Handbook, CG 448-4)

Issue warning - water contaminant
Should be removed
Chemical and physical treatment

2. LABELS

No hazard label required by Code of Federal Regulations

3. CHEMICAL DESIGNATIONS

3.1 **Synonyms:** Butoxyethyl 2,4-dichlorophenoxyacetate; Butyl 2,4-dichlorophenoxyacetate; 2,4-Dichlorophenoxyacetic acid, butoxyethyl ester; 2,4-Dichlorophenoxyacetic acid, butyl ester; 2,4-Dichlorophenoxyacetic acid, isopropyl ester; Isopropyl 2,4-dichlorophenoxy acetate

3.2 **Coast Guard Compatibility Classification:** Not listed

(Continued on page 4)

4. OBSERVABLE CHARACTERISTICS

4.1 **Physical State (as shipped):** Liquid

4.2 **Color:** Brown; amber

4.3 **Odor:** May have odor of fuel oil

5. HEALTH HAZARDS

5.1 **Personal Protective Equipment:** Face shield or goggles, rubber gloves

5.2 **Symptoms Following Exposure:** Contact with eyes may cause mild irritation

5.3 **Treatment for Exposure:** INGESTION: if large amounts are swallowed, induce vomiting and get medical help. EYES: flush with plenty of water and see a doctor. SKIN: flush with water, wash with soap and water

5.4 **Toxicity by Inhalation (Threshold Limit Value):** Data not available

5.5 **Short-Term Inhalation Limits:** Data not available

5.6 **Toxicity by Ingestion:** Grade 2 or 3, LD_{50} 320 - 617 mg/kg

5.7 **Late Toxicity:** Data not available

5.8 **Vapor (Gas) Irritant Characteristics:** Data not available

5.9 **Liquid or Solid Irritant Characteristics:** Data not available

5.10 **Odor Threshold:** Data not available

6. FIRE HAZARDS

6.1 **Flash Point:** >175°F O.C.

6.2 **Flammable Limits in Air:** Data not available

6.3 **Fire Extinguishing Agents:** Foam, dry chemical, carbon dioxide

6.4 **Fire Extinguishing Agents Not to be Used:** Water may be ineffective.

6.5 **Special Hazards of Combustion Products:** Irritating hydrogen chloride vapor may form in fire

6.6 **Behavior in Fire:**

6.7 **Ignition Temperature:** Data not available

6.8 **Electrical Hazard:** Data not available

6.9 **Burning Rate:** Data not available

7. CHEMICAL REACTIVITY

7.1 **Reactivity with Water:** No reaction

7.2 **Reactivity with Common Materials:** May attack some forms of plastics

7.3 **Stability During Transport:** Stable

7.4 **Neutralizing Agents for Acids and Caustics:** Not pertinent

7.5 **Polymerization:** Not pertinent

7.6 **Inhibitor of Polymerization:** Not pertinent

8. WATER POLLUTION

8.1 **Aquatic Toxicity:** 350 ppm/24 hr/bass, bluegill/50% kill/ fresh water
1.0 -5.0 ppm/96 hr/oyster/39% shell growth disease/salt water

8.2 **Waterfowl Toxicity:** LD_{50} 2023.0 mg/kg

8.3 **Biological Oxygen Demand (BOD):** Data not available

8.4 **Food Chain Concentration Potential:** None

9. SELECTED MANUFACTURERS

1. Amchem Products, Inc.
Brookside Ave.
Ambler, Pa. 19002

2. Chipman Division of Rhodia, Inc.
23 Belmont Drive
Somerset, N. J. 08873

3. The Dow Chemical Co.
Midland, Mich. 48640

10. SHIPPING INFORMATION

10.1 **Grades or Purity:** Technical, 99%, 64% in petroleum oil

10.2 **Storage Temperature:** Ambient

10.3 **Inert Atmosphere:** No requirement

10.4 **Venting:** Open

11. HAZARD ASSESSMENT CODE

(See Hazard Assessment Handbook, CG 448-3)

A-X-Y

12. HAZARD CLASSIFICATIONS

12.1 **Code of Federal Regulations:** Not listed

12.2 **NAS Hazard Rating for Bulk Water Transportation:** Not listed

12.3 **NFPA Hazard Classifications:** Not listed

13. PHYSICAL AND CHEMICAL PROPERTIES

13.1 **Physical State at 15°C and 1 atm:** Liquid

13.2 **Molecular Weight:** 234 - 291

13.3 **Boiling Point at 1 atm:** Very high

13.4 **Freezing Point:** Not pertinent

13.5 **Critical Temperature:** Not pertinent

13.6 **Critical Pressure:** Not pertinent

13.7 **Specific Gravity:** 1.088 - 1.237 at 20°C (liquid)

13.8 **Liquid Surface Tension:** Data not available

13.9 **Liquid-Water Interfacial Tension:** Data not available

13.10 **Vapor (Gas) Specific Gravity:** Not pertinent

13.11 **Ratio of Specific Heats of Vapor (Gas):** Not pertinent

13.12 **Latent Heat of Vaporization:** Data not available

13.13 **Heat of Combustion:** Data not available

13.14 **Heat of Decomposition:** Not pertinent

13.15 **Heat of Solution:** Not pertinent

13.16 **Heat of Polymerization:** Not pertinent

(Continued on pages 5 and 6)

3. CHEMICAL DESIGNATIONS (Cont'd.)

3.3 **Chemical Formula:** $2,4\text{-}Cl_2C_6H_3OCH_2COOR$, where $R = C_4H_9$, C_8H_{17}, or $CH_2CH_2OC_4H_9$

3.4 **IMCO/United Nations Numerical Designation:** Not listed

DZN — DIAZINON

Common Synonyms

O, O-Diethyl O-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate
O, O-Diethyl O-(2-isopropyl-4-methyl-6-pyrimidyl) thiophosphate
Alfa-tox, Spectracide, Sarolex

Liquid — Light to dark brown

Sinks in water.

Stop discharge if possible. Keep people away.
Isolate and remove discharged material.
Notify local health and pollution control agencies.

Fire

Not flammable.
POISONOUS GASES ARE PRODUCED WHEN HEATED.

Exposure

CALL FOR MEDICAL AID.

LIQUID
POISONOUS IF SWALLOWED.
Irritating to skin and eyes.
Remove contaminated clothing and shoes.
Flush affected areas with plenty of water.
IF IN EYES, hold eyelids open and flush with plenty of water.
IF SWALLOWED and victim is CONSCIOUS, have victim drink water or milk.

Water Pollution

HARMFUL TO AQUATIC LIFE IN VERY LOW CONCENTRATIONS.
May be dangerous if it enters water intakes.
Notify local health and wildlife officials.
Notify operators of nearby water intakes.

1. RESPONSE TO DISCHARGE

(See Response Methods Handbook, CG 446-4)

Issue warning--poison, water contaminant, high flammability (if solution)
Restrict access
Should be removed
Chemical and physical treatment

2. LABELS

No hazard label required by Code of Federal Regulations

3. CHEMICAL DESIGNATIONS

3.1 **Synonyms:** O, O-Diethyl O-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate; O, O-Diethyl O-2-isopropyl-4-methyl-6-pyrimidyl thiophosphate, Diethyl 2-isopropyl-4-methyl-6-pyrimidyl thionophosphate; Alfa-tox; Sarolex; Spectracide

3.2 **Coast Guard Compatibility Classification:** Not applicable

3.3 **Chemical Formula:** $C_{12}H_{21}N_2O_3PS$

3.4 **IMCO/United Nations Numerical Designation:** 6.1/1615

4. OBSERVABLE CHARACTERISTICS

4.1 **Physical State (as shipped):** Solid, or liquid solution

4.2 **Color:** Amber to dark brown

4.3 **Odor:** Data not available

5. HEALTH HAZARDS

5.1 **Personal Protective Equipment:** Goggles or face shield; rubber gloves; protective clothing

5.2 **Symptoms Following Exposure:** Ingestion or prolonged inhalation of mist causes headache, giddiness, blurred vision, nervousness, weakness, cramps, diarrhea, discomfort in the chest, sweating, miosis, tearing, salivation and other excessive respiratory tract secretion, vomiting, cyanosis, papilledema, uncontrollable muscle twitches, convulsions, coma, loss of reflexes, and loss of sphincter control. Liquid irritates eyes and skin.

5.3 **Treatment for Exposure:** INHALATION: remove to fresh air, keep warm; get medical attention at once. EYES: flush with plenty of water for at least 15 min. and get medical attention. SKIN: wash contaminated area with soap and water. INGESTION: get medical attention at once; give water slurry of charcoal; do NOT give milk or alcohol.

5.4 **Toxicity by Inhalation (Threshold Limit Value):** Data not available

5.5 **Short-Term Inhalation Limits:** Not pertinent

5.6 **Toxicity by Ingestion:** Grade 3; oral LD_{50} = 76 mg/kg (rat)

5.7 **Late Toxicity:** May be mutagenic

5.8 **Vapor (Gas) Irritant Characteristics:** Data not available

5.9 **Liquid or Solid Irritant Characteristics:** Data not available

5.10 **Odor Threshold:** Data not available

6. FIRE HAZARDS

6.1 **Flash Point:** 82 - 105°F C.C. (solutions only; pure liquid difficult to burn)

6.2 **Flammable Limits in Air:** Not pertinent

6.3 **Fire Extinguishing Agents:** (for solutions) Foam, dry chemical, or carbon dioxide

6.4 **Fire Extinguishing Agents Not to be Used:** Water may be ineffective.

6.5 **Special Hazards of Combustion Products:** Oxides of sulfur and of phosphorus are generated in fires.

6.6 **Behavior in Fire:** Not pertinent

6.7 **Ignition Temperature:** Not pertinent

6.8 **Electrical Hazard:** Data not available

6.9 **Burning Rate:** (for solutions) 4 mm/min.

7. CHEMICAL REACTIVITY

7.1 **Reactivity with Water:** No reaction

7.2 **Reactivity with Common Materials:** No reaction

7.3 **Stability During Transport:** Stable

7.4 **Neutralizing Agents for Acids and Caustics:** Not pertinent

7.5 **Polymerization:** Not pertinent

7.6 **Inhibitor of Polymerization:** Not pertinent

8. WATER POLLUTION

8.1 **Aquatic Toxicity:** 0.025 ppm/96 hr/stonefly nymph/TL_m/fresh water
30 μ g/l /48 hr/bluegill/TL_m/fresh water
(becomes bound to soil when used according to directions)

8.2 **Waterfowl Toxicity:**
LD_{50} = 3.54 mg/kg
LC_{50} = 5 days, 90 ppm mallard duck
LC_{50} = 7 days, 68 ppm quail

8.3 **Biological Oxygen Demand (BOD):** Data not available

8.4 **Food Chain Concentration Potential:** Data not available

9. SELECTED MANUFACTURERS

Ciba-Geigy Corporation
Agricultural Division
P. O. Box 11422
Greensboro, N. C. 27409

10. SHIPPING INFORMATION

10.1 **Grades or Purity:** Technical; wettable powders; a variety of emulsifiable solutions in combustible solvents.

10.2 **Storage Temperature:** Ambient

10.3 **Inert Atmosphere:** No requirement

10.4 **Venting:** Open (flame arrester)

11. HAZARD ASSESSMENT CODE

(See Hazard Assessment Handbook, CG 446-3)

A-X-Y

12. HAZARD CLASSIFICATIONS

12.1 **Code of Federal Regulations:** ORM A

12.2 **NAS Hazard Rating for Bulk Water Transportation:** Not listed

12.3 **NFPA Hazard Classifications:** Not listed

13. PHYSICAL AND CHEMICAL PROPERTIES

13.1 **Physical State at 15°C and 1 atm:** Liquid

13.2 **Molecular Weight:** 304.4

13.3 **Boiling Point at 1 atm:** Very high; decomposes

13.4 **Freezing Point:** Not pertinent

13.5 **Critical Temperature:** Not pertinent

13.6 **Critical Pressure:** Not pertinent

13.7 **Specific Gravity:** 1.117 at 20°C (liquid)

13.8 **Liquid Surface Tension:** (est.) 35 dynes/cm = 0.035 N/m at 20°C

13.9 **Liquid-Water Interfacial Tension:** (est.) 40 dynes/cm = 0.040 N/m at 20°C

13.10 **Vapor (Gas) Specific Gravity:** Not pertinent

13.11 **Ratio of Specific Heats of Vapor (Gas):** Not pertinent

13.12 **Latent Heat of Vaporization:** Not pertinent

13.13 **Heat of Combustion:** (est.) −12,000 Btu/lb = −6,500 cal/g = −270 × 10^3 J/kg

13.14 **Heat of Decomposition:** Not pertinent

13.15 **Heat of Solution:** Not pertinent

13.16 **Heat of Polymerization:** Not pertinent

(Continued on pages 5 and 6)

NOTES

EGL ETHYLENE GLYCOL

Common Synonyms			
Glycol Monoethylene glycol 1,2-Ethanediol	Thick liquid	Colorless	Odorless
	Sinks and mixes with water.		

Stop discharge if possible.
Call fire department.
Isolate and remove discharged material.
Notify local health and pollution control agencies.

Fire

Combustible.
Extinguish with dry chemical, alcohol foam, or carbon dioxide.
Water may be ineffective on fire.
Cool exposed containers with water.

Exposure

CALL FOR MEDICAL AID.

LIQUID
Irritating to skin and eyes.
If swallowed, will cause loss of consciousness.
Remove contaminated clothing and shoes.
Flush affected areas with plenty of water.
IF IN EYES, hold eyelids open and flush with plenty of water.
IF SWALLOWED and victim is CONSCIOUS, have victim drink water or milk and have victim induce vomiting.
IF SWALLOWED and victim is UNCONSCIOUS OR HAVING CONVULSIONS, do nothing except keep victim warm.

Water Pollution

Effect of low concentrations on aquatic life is unknown.
May be dangerous if it enters water intakes.
Notify local health and wildlife officials.
Notify operators of nearby water intakes.

1. RESPONSE TO DISCHARGE

(See Response Methods Handbook, CG 446-4)

Disperse and flush

2. LABELS

No hazard label required by Code of Federal Regulations

3. CHEMICAL DESIGNATIONS

3.1 **Synonyms:** 1,2-Dihydroxyethane
1,2-Ethanediol
Ethylene dihydrate
Glycol
Monoethylene glycol

3.2 **Coast Guard Compatibility Classification:** Glycol

3.3 **Chemical Formula:** $HOCH_2CH_2OH$

3.4 **IMCO/United Nations Numerical Designation:** Not listed

4. OBSERVABLE CHARACTERISTICS

4.1 **Physical State (as shipped):** Liquid

4.2 **Color:** Colorless

4.3 **Odor:** Slight odor

5. HEALTH HAZARDS

5.1 **Personal Protective Equipment:** Goggles, shower and eye bath

5.2 **Symptoms Following Exposure:** Inhalation of vapor is not hazardous. Ingestion causes stupor or coma, sometimes leading to fatal kidney injury.

5.3 **Treatment for Exposure:** INGESTION: induce vomiting and call a physician. SKIN AND EYES: flush with water.

5.4 **Toxicity by Inhalation (Threshold Limit Value):** 100 ppm

5.5 **Short-Term Inhalation Limits:** Not pertinent

5.6 **Toxicity by Ingestion:** Grade 1, LD_{50} 5 to 15 g/kg (rat, guinea pig, mouse)

5.7 **Late Toxicity:** Fatal kidney injury may result if ingested

5.8 **Vapor (Gas) Irritant Characteristics:** Vapors are nonirritating to the eyes and throat

5.9 **Liquid or Solid Irritant Characteristics:** No appreciable hazard. Practically harmless to the skin

5.10 **Odor Threshold:** Not pertinent

6. FIRE HAZARDS

6.1 **Flash Point:** 240°F O.C., 232°F C.C.

6.2 **Flammable Limits in Air:** LEL = 3.2%, UEL not listed

6.3 **Fire Extinguishing Agents:** Water fog, *alcohol foam, carbon dioxide, or dry* chemical

6.4 **Fire Extinguishing Agents Not to be Used:** Water or foam may cause frothing

6.5 **Special Hazards of Combustion Products:** Not pertinent

6.6 **Behavior in Fire:** Not pertinent

6.7 **Ignition Temperature:** 775°F

6.8 **Electrical Hazard:** Not pertinent

6.9 **Burning Rate:** 1.0 mm/min

7. CHEMICAL REACTIVITY

7.1 **Reactivity with Water:** No reaction

7.2 **Reactivity with Common Materials:** No reaction

7.3 **Stability During Transport:** Stable

7.4 **Neutralizing Agents for Acids and Caustics:** Not pertinent

7.5 **Polymerization:** Not pertinent

7.6 **Inhibitor of Polymerization:** Not pertinent

8. WATER POLLUTION

8.1 **Aquatic Toxicity:** > 100 ppm/48 hr/shrimp/LC_{50}/salt water

8.2 **Waterfowl Toxicity:** Data not available

8.3 **Biological Oxygen Demand (BOD):** 12.5% (theor.), 5 days, 78% (theor.) 20 days

8.4 **Food Chain Concentration Potential:** None

9. SELECTED MANUFACTURERS

1 Dow Chemical Co.
Midland, Mich. 48640

2 PPG Industries, Inc.
Chemical Division
Guayanilla, Puerto Rico 00656

3 Union Carbide Corp.
Chemicals and Plastics Division
270 Park Ave.
New York, N. Y. 10017

10. SHIPPING INFORMATION

10.1 **Grades or Purity:** Industrial grade, low-conductivity grade

10.2 **Storage Temperature:** Ambient

10.3 **Inert Atmosphere:** *No requirement*

10.4 **Venting:** Open (flame arrester)

11. HAZARD ASSESSMENT CODE

(See Hazard Assessment Handbook, CG 446-3)

A-P-Q

12. HAZARD CLASSIFICATIONS

12.1 **Code of Federal Regulations:** Not listed

12.2 **NAS Hazard Rating for Bulk Water *Transportation:***

Category	Rating
Fire	1
Health	
Vapor Irritant	0
Liquid or Solid Irritant	0
Poisons	1
Water Pollution	
Human Toxicity	2
Aquatic Toxicity	1
Aesthetic Effect	1
Reactivity	
Other Chemicals	2
Water	0
Self-Reaction	0

12.3 **NFPA Hazard Classifications:**

Category	Classification
Health Hazard (Blue)	1
Flammability (Red)	1
Reactivity (Yellow)	0

13. PHYSICAL AND CHEMICAL PROPERTIES

13.1 **Physical State at 15°C and 1 atm:** Liquid

13.2 **Molecular Weight:** 62.07

13.3 **Boiling Point at 1 atm:** 387.7°F = 197.6°C = 470.8°K

13.4 **Freezing Point:** 8.6°F = −13°C = 260°K

13.5 **Critical Temperature:** Not pertinent

13.6 **Critical Pressure:** *Not pertinent*

13.7 **Specific Gravity:** 1.115 at 20°C (liquid)

13.8 **Liquid Surface Tension:** Not pertinent

13.9 **Liquid-Water Interfacial Tension:** Not pertinent

13.10 **Vapor (Gas) Specific Gravity:** Not pertinent

13.11 **Ratio of Specific Heats of Vapor (Gas):** 1.095

13.12 **Latent Heat of Vaporization:** 344 Btu/lb = 191 cal/g = 8.00×10^5 J/kg

13.13 **Heat of Combustion:** −7259 Btu/lb = −4033 cal/g = -168.9×10^5 J/kg

13.14 **Heat of Decomposition:** Not pertinent

13.15 **Heat of Solution:** (est.) −20 Btu/lb = −12 cal/g = -0.5×10^5 J/kg

13.16 **Heat of Polymerization:** Not pertinent

(Continued on pages 5 and 6)

NOTES

GAT GASOLINES: AUTOMOTIVE
(< 4.23g lead/gal)

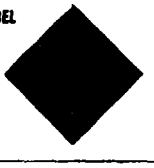
Common Synonyms	Watery liquid Colorless to pale brown or pink Gasoline odor Floats on water. Flammable, irritating vapor is produced.
	Stop discharge if possible. Keep people away. Shut off ignition sources and call fire department. Stay upwind and use water spray to "knock down" vapor. Isolate and remove discharged material. Notify local health and pollution control agencies.
Fire	FLAMMABLE. Flashback along vapor trail may occur. Vapor may explode if ignited in an enclosed area. Extinguish with dry chemical, foam, or carbon dioxide. Water may be ineffective on fire. Cool exposed containers with water.
Exposure	CALL FOR MEDICAL AID. VAPOR Irritating to eyes, nose and throat. If inhaled, will cause dizziness, headache, difficult breathing or loss of consciousness. Move to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. LIQUID Irritating to skin and eyes. If swallowed, will cause nausea or vomiting. Remove contaminated clothing and shoes. Flush affected areas with plenty of water. IF IN EYES, hold eyelids open and flush with plenty of water. IF SWALLOWED and victim is CONSCIOUS, have victim drink water or milk. DO NOT INDUCE VOMITING.
Water Pollution	HARMFUL TO AQUATIC LIFE IN VERY LOW CONCENTRATIONS Fouling to shoreline. May be dangerous if it enters water intakes. Notify local health and wildlife officials. Notify operators of nearby water intakes.

1. RESPONSE TO DISCHARGE

(See Response Methods Handbook, CG 448-4)

Issue warning: high flammability
Evacuate area
Disperse and flush

2. LABEL



3. CHEMICAL DESIGNATIONS

3.1 **Synonyms:** Motor spirit
Petrol

3.2 **Coast Guard Compatibility Classification:** Miscellaneous hydrocarbon mixtures

3.3 **Chemical Formula:** (Mixture of hydrocarbons)

3.4 **IMCO/United Nations Numerical Designation:** 3.1/1203

4. OBSERVABLE CHARACTERISTICS

4.1 **Physical State (as shipped):** Liquid

4.2 **Color:** Colorless to brown

4.3 **Odor:** *Gasoline*

5. HEALTH HAZARDS

5.1 **Personal Protective Equipment:** Protective goggles, gloves

5.2 **Symptoms Following Exposure:** *Irritation of mucous membranes and stimulation followed by* depression of central nervous system. Breathing of vapor may also cause dizziness, headache, and incoordination or, in more severe cases, anesthesia, coma, and respiratory arrest. If liquid enters lungs, it will cause severe irritation, coughing, gagging, pulmonary edema, and, later, signs of bronchopneumonia and pneumonitis. Swallowing may cause irregular heartbeat

5.3 **Treatment for Exposure:** INHALATION: maintain respiration and administer oxygen, enforce bed rest if liquid is in lungs. INGESTION: do NOT induce vomiting, stomach should be lavaged (by doctor) if appreciable quantity is swallowed. EYES: wash with copious quantity of water. SKIN: wipe off and wash with soap and water

5.4 **Toxicity by Inhalation (Threshold Limit Value):** No single TLV applies

5.5 **Short-Term Inhalation Limits:** 500 ppm for 30 min.

5.6 **Toxicity by Ingestion:** Grade 2; LD_{50} 0.5 to 5 g/kg

5.7 **Late Toxicity:** None

5.8 **Vapor (Gas) Irritant Characteristics:** Vapors cause a slight smarting of the eyes or respiratory system if present in high concentrations. The effect is temporary

5.9 **Liquid or Solid Irritant Characteristics:** *Minimum hazard. If spilled on clothing and allowed to* remain, may cause smarting and reddening of the skin

5.10 **Odor Threshold:** 0.25 ppm

6. FIRE HAZARDS

6.1 **Flash Point:** −36°F C.C.

6.2 **Flammable Limits in Air:** 1.4% - 7.4%

6.3 **Fire Extinguishing Agents:** Foam, carbon dioxide, dry chemical

6.4 **Fire Extinguishing Agents Not to be Used:** Water may be ineffective

6.5 **Special Hazards of Combustion Products:** None

6.6 **Behavior in Fire:** Vapor is heavier than air and may travel considerable distance to a source of ignition and flash back

6.7 **Ignition Temperature:** 853°F

6.8 **Electrical Hazard:** Class I, Group D

6.9 **Burning Rate:** 4 mm/min

7. CHEMICAL REACTIVITY

7.1 **Reactivity with Water:** No reaction

7.2 **Reactivity with Common Materials:** No reaction

7.3 **Stability During Transport:** Stable

7.4 **Neutralizing Agents for Acids and Caustics:** Not pertinent

7.5 **Polymerization:** Not pertinent

7.6 **Inhibitor of Polymerization:** Not pertinent

8. WATER POLLUTION

8.1 **Aquatic Toxicity:**
90 ppm/24 hr/juvenile American shad/ TL_m/fresh water
91 mg/l/24 hr/juvenile American shad/ TL_m/salt water

8.2 **Waterfowl Toxicity:** Data not available

8.3 **Biological Oxygen Demand (BOD):** 8%, 5 days

8.4 **Food Chain Concentration Potential:** None

9. SELECTED MANUFACTURERS

1. Exxon Co.
30 Rockefeller Plaza
New York, N.Y. 10020

2. Shell Oil Co.
1 Shell Plaza
Houston, Texas 77001

3. Sun Oil Co.
St. Davids, Pa. 19087

10. SHIPPING INFORMATION

10.1 **Grades or Purity:** Various octane ratings, military specifications

10.2 **Storage Temperature:** Ambient

10.3 **Inert Atmosphere:** No requirement

10.4 **Venting:** Open (flame arrester) or *pressure-vacuum*

11. HAZARD ASSESSMENT CODE

(See Hazard Assessment Handbook, CG 446-3)

A-T-U-V-W

12. HAZARD CLASSIFICATIONS

12.1 **Code of Federal Regulations:** *Flammable liquid*

12.2 **NAS Hazard Rating for Bulk Water Transportation:**

Category	Rating
Fire	3
Health	
Vapor Irritant	1
Liquid or Solid Irritant	1
Poisons	2
Water Pollution	
Human Toxicity	1
Aquatic Toxicity	2
Aesthetic Effect	2
Reactivity	
Other Chemicals	0
Water	0
Self-Reaction	0

12.3 **NFPA Hazard Classifications:**

Category	Classification
Health Hazard (Blue)	1
Flammability (Red)	3
Reactivity (Yellow)	0

13. PHYSICAL AND CHEMICAL PROPERTIES

13.1 **Physical State at 15°C and 1 atm:** Liquid

13.2 **Molecular Weight:** Not pertinent

13.3 **Boiling Point at 1 atm:** 140 - 390°F
= 60 - 199°C = 333 - 472°K

13.4 **Freezing Point:** Not pertinent

13.5 **Critical Temperature:** Not pertinent

13.6 **Critical Pressure:** Not pertinent

13.7 **Specific Gravity:** 0.7321 at 20°C (liquid)

13.8 **Liquid Surface Tension:** 19 - 23 dynes/cm
= 0.019 - 0.023 N/m at 20°C

13.9 **Liquid-Water Interfacial Tension:** 49 - 51 dynes/cm
= 0.049 - 0.051 N/m at 20°C

13.10 **Vapor (Gas) Specific Gravity:** 3.4

13.11 **Ratio of Specific Heats of Vapor (Gas):** (est.) 1.054

13.12 **Latent Heat of Vaporization:** 130 - 150 Btu/lb = 71 - 81 cal/g
= $3.0 - 3.4 \times 10^5$ J/kg

13.13 **Heat of Combustion:** −18,720 Btu/lb
= −10,400 cal/g = -435.1×10^5 J/kg

13.14 **Heat of Decomposition:** Not pertinent

13.15 **Heat of Solution:** Not pertinent

13.16 **Heat of Polymerization:** Not pertinent

(Continued on pages 5 and 6)

NOTES

GAV GASOLINES: AVIATION
(< 4.86g lead/gal)

Common Synonyms	Watery liquid	Red, blue, green, brown or purple	Gasoline odor

Floats on water. Flammable, irritating vapor is produced.

Stop discharge if possible. Keep people away.
Shut off ignition sources and call fire department.
Stay upwind and use water spray to "knock down" vapor.
Isolate and remove discharged material.
Notify local health and pollution control agencies.

Fire

FLAMMABLE.
Flashback along vapor trail may occur.
Vapor may explode if ignited in an enclosed area.
Extinguish with dry chemical, foam or carbon dioxide.
Water may be ineffective on fire.
Cool exposed containers with water.

Exposure

CALL FOR MEDICAL AID.

VAPOR
Irritating to eyes, nose and throat.
If inhaled will cause dizziness, headache, difficult breathing or loss of consciousness.
Move to fresh air.
If breathing has stopped, give artificial respiration.
If breathing is difficult, give oxygen.

LIQUID
Irritating to skin and eyes.
If swallowed, will cause nausea or vomiting.
Remove contaminated clothing and shoes.
Flush affected areas with plenty of water.
IF IN EYES, hold eyelids open and flush with plenty of water.
IF SWALLOWED and victim is CONSCIOUS, have victim drink water or milk.
DO NOT INDUCE VOMITING.

Water Pollution

HARMFUL TO AQUATIC LIFE IN VERY LOW CONCENTRATIONS.
Fouling to shoreline.
May be dangerous if it enters water intakes.
Notify local health and wildlife officials.
Notify operators of nearby water intakes.

1. RESPONSE TO DISCHARGE

(See Response Methods Handbook, CG 448-4)

Issue warning: high flammability
Evacuate area
Disperse and flush

2. LABEL

3. CHEMICAL DESIGNATIONS

3.1 **Synonyms:** No common synonyms
3.2 **Coast Guard Compatibility Classification:** Miscellaneous hydrocarbon mixtures
3.3 **Chemical Formula:** Not pertinent
3.4 **IMCO/United Nations Numerical Designation:** 3.1/1203

4. OBSERVABLE CHARACTERISTICS

4.1 **Physical State (as shipped):** Liquid
4.2 **Color:** Red, blue, green, brown purple
4.3 **Odor:** Gasoline

5. HEALTH HAZARDS

5.1 **Personal Protective Equipment:** Protective goggles, gloves

5.2 **Symptoms Following Exposure:** INHALATION causes irritation of upper respiratory tract, central nervous system stimulation followed by depression of varying degrees ranging from dizziness, headache, and incoordination to anesthesia, coma, and respiratory arrest. Irregular heartbeat is dangerous complication. ASPIRATION causes severe lung irritation with coughing, gagging, dyspnea, substernal distress, and rapidly developing pulmonary edema, later, signs of bronchopneumonia and pneumonitis; acute onset of central nervous system excitement followed by depression. INGESTION causes irritation of mucous membranes of throat, esophagus, and stomach, stimulation followed by depression of central nervous system, irregular heartbeat

5.3 **Treatment for Exposure:** Seek medical attention. INHALATION: maintain respiration, give oxygen if needed. ASPIRATION: enforce bed rest; administer oxygen. INGESTION: do NOT induce vomiting; lavage carefully if appreciable quantity was ingested, guard against aspiration into lungs. EYES: wash with copious quantity of water. SKIN: wipe off and wash with soap and water

5.4 **Toxicity by Inhalation (Threshold Limit Value):** No single TLV applicable

5.5 **Short-Term Inhalation Limits:** 500 ppm for 30 min.

5.6 **Toxicity by Ingestion:** Grade 2, LD50 0.5 to 5 g/kg

5.7 **Late Toxicity:** None

6. FIRE HAZARDS

6.1 **Flash Point:** −50°F C.C.
6.2 **Flammable Limits in Air:** 1.2% - 7.1%
6.3 **Fire Extinguishing Agents:** Foam, carbon dioxide, dry chemical
6.4 **Fire Extinguishing Agents Not to be Used:** Water may be ineffective
6.5 **Special Hazards of Combustion Products:** None
6.6 **Behavior in Fire:** Vapor is heavier than air and may travel a considerable distance to a source of ignition and flash back
6.7 **Ignition Temperature:** 824°F
6.8 **Electrical Hazard:** Class I, group D
6.9 **Burning Rate:** 4 mm/min.

7. CHEMICAL REACTIVITY

7.1 **Reactivity with Water:** No reaction
7.2 **Reactivity with Common Materials:** No reaction
7.3 **Stability During Transport:** Stable
7.4 **Neutralizing Agents for Acids and Caustics:** Not pertinent
7.5 **Polymerization:** Not pertinent
7.6 **Inhibitor of Polymerization:** Not pertinent

8. WATER POLLUTION

8.1 **Aquatic Toxicity:** 90 ppm/24 hr/juvenile American shad/ TL_m/fresh water
91 ppm/24 hr/juvenile American shad/ TL_m/salt water
8.2 **Waterfowl Toxicity:** Data not available
8.3 **Biological Oxygen Demand (BOD):** 8%, 5 days
8.4 **Food Chain Concentration Potential:** None

9. SELECTED MANUFACTURERS

1. Exxon Co.
30 Rockefeller Plaza
New York, N. Y. 10020
2. Shell Oil Co.
1 Shell Plaza
Houston, Texas 77001
3. Sun Oil Co.
St. Davids, Pa. 19087

10. SHIPPING INFORMATION

10.1 **Grades or Purity:** Grades 80/87, 100/130, and 115/145; Specification MIL-G-5572e
10.2 **Storage Temperature:** Ambient
10.3 **Inert Atmosphere:** No requirement
10.4 **Venting:** Open (flame arrester) or pressure-vacuum

11. HAZARD ASSESSMENT CODE

(See Hazard Assessment Handbook, CG 446-3)

A-T-U-V-W

12. HAZARD CLASSIFICATIONS

12.1 **Code of Federal Regulations:** Flammable liquid

12.2 **NAS Hazard Rating for Bulk Water Transportation:**

Category	Rating
Fire	3
Health	
Vapor Irritant	1
Liquid or Solid Irritant	1
Poisons	2
Water Pollution	
Human Toxicity	1
Aquatic Toxicity	2
Aesthetic Effect	2
Reactivity	
Other Chemicals	0
Water	0
Self Reaction	0

12.3 **NFPA Hazard Classifications:**

Category	Classification
Health Hazard (Blue)	1
Flammability (Red)	3
Reactivity (Yellow)	0

13. PHYSICAL AND CHEMICAL PROPERTIES

13.1 **Physical State at 15°C and 1 atm:** Liquid
13.2 **Molecular Weight:** Not pertinent
13.3 **Boiling Point at 1 atm:** 160 - 340°F = 71 - 171°C = 344 - 444°K
13.4 **Freezing Point:** <-76°F = <-24.4°C = <297.6°K
13.5 **Critical Temperature:** Not pertinent
13.6 **Critical Pressure:** Not pertinent
13.7 **Specific Gravity:** 0.711 at 15°C (liquid)
13.8 **Liquid Surface Tension:** 19 - 23 dynes/cm = 0.019 - 0.023 N/m at 20°C
13.9 **Liquid-Water Interfacial Tension:** 49 - 51 dynes/cm = 0.049 - 0.051 N/m at 20°C
13.10 **Vapor (Gas) Specific Gravity:** 3.4
13.11 **Ratio of Specific Heats of Vapor (Gas):** (est.) 1.054
13.12 **Latent Heat of Vaporization:** 130 - 150 Btu/lb = 71 - 81 cal/g = 3.0 - 3.4 × 10^5 J/kg
13.13 **Heat of Combustion:** −18,720 Btu/lb = −10,400 cal/g = −435.4 × 10^5 J/kg
13.14 **Heat of Decomposition:** Not pertinent
13.15 **Heat of Solution:** Not pertinent
13.16 **Heat of Polymerization:** Not pertinent

(Continued on pages 5 and 61)

5. HEALTH HAZARDS (Cont'd.)

5.8 **Vapor (Gas) Irritant Characteristics:** Vapors cause a slight smarting of the eyes or respiratory system if present in high concentrations. The effect is temporary

5.9 **Liquid or Solid Irritant Characteristics:** Minimum hazard. If spilled on clothing and allowed to remain, may cause smarting and reddening of the skin

5.10 **Odor Threshold:** 0.25 ppm

HCL — HYDROCHLORIC ACID

Common Synonyms			
Muriatic Acid	Watery liquid	Colorless	Sharp, irritating odor

Sinks and mixes with water. Irritating vapor is produced.

AVOID CONTACT WITH LIQUID AND VAPOR. Keep people away.
Wear chemical protective suit with self-contained breathing apparatus.
Stop discharge if possible.
Stay upwind and use water spray to "knock down" vapor.
Isolate and remove discharged material.
Notify local health and pollution control agencies.

Fire

Not flammable.
Flammable gas may be produced on contact with metals.
Wear chemical protective suit with self-contained breathing apparatus.

Exposure

CALL FOR MEDICAL AID.

VAPOR
Irritating to eyes, nose and throat.
If inhaled, will cause coughing or difficult breathing.
Move to fresh air.
If breathing has stopped, give artificial respiration.
If breathing is difficult, give oxygen.

LIQUID
Will burn skin and eyes.
Harmful if swallowed.
Remove contaminated clothing and shoes.
Flush affected areas with plenty of water.
IF IN EYES, hold eyelids open and flush with plenty of water.
IF SWALLOWED and victim is CONSCIOUS, have victim drink water or milk.
DO NOT INDUCE VOMITING.

Water Pollution

Dangerous to aquatic life in high concentrations.
May be dangerous if it enters water intakes.
Notify local health and wildlife officials.
Notify operators of nearby water intakes.

1. RESPONSE TO DISCHARGE

(See Response Methods Handbook CG 446-4)

Issue warning: corrosive
Restrict access
Disperse and flush

2. LABEL

3. CHEMICAL DESIGNATIONS

3.1 **Synonyms:** Muriatic acid
3.2 **Coast Guard Compatibility Classification:** Non-oxidizing mineral acid
3.3 **Chemical Formula:** $HCl \cdot H_2O$
3.4 **IMCO/United Nations Numerical Designation:** 8.0/1789

4. OBSERVABLE CHARACTERISTICS

4.1 **Physical State (as shipped):** Liquid
4.2 **Color:** Colorless to light yellow
4.3 **Odor:** Pungent; sharp, pungent, irritating

5. HEALTH HAZARDS

5.1 **Personal Protective Equipment:** Self-contained breathing equipment, air-line mask, or industrial canister-type gas mask, rubber or rubber-coated gloves, apron, coat, overalls, shoes.

5.2 **Symptoms Following Exposure:** Inhalation of fumes results in coughing and choking sensation, and irritation of nose and lungs. Liquid causes burns.

5.3 **Treatment for Exposure:** INHALATION: remove person to fresh air; keep him warm and quiet and get medical attention immediately, start artificial respiration if breathing stops. INGESTION: have person drink water or milk; do NOT induce vomiting. EYES: immediately flush with plenty of water for at least 15 min. and get medical attention; continue flushing for another 15 min. if physician does not arrive promptly. SKIN: immediately flush skin while removing contaminated clothing; get medical attention promptly, use soap and wash area for at least 15 min.

5.4 **Toxicity by Inhalation (Threshold Limit Value):** 5 ppm

5.5 **Short-Term Inhalation Limits:** 5 ppm for 5 min.

5.6 **Toxicity by Ingestion:** Data not available

5.7 **Late Toxicity:** None

5.8 **Vapor (Gas) Irritant Characteristics:** Vapor is moderately irritating such that personnel will not usually tolerate moderate or high vapor concentrations.

5.9 **Liquid or Solid Irritant Characteristics:** Fairly severe skin irritant, may cause pain and second-degree burns after a few minutes' contact.

5.10 **Odor Threshold:** 1-5 ppm

6. FIRE HAZARDS

6.1 **Flash Point:** Not flammable
6.2 **Flammable Limits in Air:** Not flammable
6.3 **Fire Extinguishing Agents:** Not pertinent
6.4 **Fire Extinguishing Agents Not to be Used:** Not pertinent
6.5 **Special Hazards of Combustion Products:** Toxic and irritating vapors are generated when heated
6.6 **Behavior in Fire:** Not pertinent
6.7 **Ignition Temperature:** Not flammable
6.8 **Electrical Hazard:** Not pertinent
6.9 **Burning Rate:** Not flammable

7. CHEMICAL REACTIVITY

7.1 **Reactivity with Water:** No reaction
7.2 **Reactivity with Common Materials:** Corrosive to most metals with evolution of hydrogen gas, which may form explosive mixtures with air.
7.3 **Stability During Transport:** Stable
7.4 **Neutralizing Agents for Acids and Caustics:** Flush with water; apply powdered limestone, slaked lime, soda ash, or sodium bicarbonate.
7.5 **Polymerization:** Not pertinent
7.6 **Inhibitor of Polymerization:** Not pertinent

8. WATER POLLUTION

8.1 **Aquatic Toxicity:** 282 ppm/96 hr/mosquito fish/TL_m/fresh water
100-330 ppm/48 hr/shrimp/LC_{50}/salt water
8.2 **Waterfowl Toxicity:** Data not available
8.3 **Biological Oxygen Demand (BOD):** None
8.4 **Food Chain Concentration Potential:** None

9. SELECTED MANUFACTURERS

1. Diamond Shamrock Corp.
Electro Chemicals Division
300 Union Commerce Bldg.
Cleveland, Ohio 44115
2. Stauffer Chemical Co.
Industrial Chemicals Division
299 Park Ave.
New York, N. Y. 10017
3. Vulcan Materials Co.
Chemicals Division
Wichita, Kan. 67201

10. SHIPPING INFORMATION

10.1 **Grades or Purity:** Food processing or technical: 18° Be—27.9%, 20 Be—31.5%, 22° Be—35.2%; Reagent, ACS, and USP: 23° Be - 37.1%
10.2 **Storage Temperature:** Ambient
10.3 **Inert Atmosphere:** No requirement
10.4 **Venting:** Open

11. HAZARD ASSESSMENT CODE

(See Hazard Assessment Handbook CG 446-3)

A-P

12. HAZARD CLASSIFICATIONS

12.1 **Code of Federal Regulations:** Corrosive material

12.2 **NAS Hazard Rating for Bulk Water Transportation:**

Category	Rating
Fire	0
Health	
Vapor Irritant	3
Liquid or Solid Irritant	3
Poisons	2
Water Pollution	
Human Toxicity	2
Aquatic Toxicity	2
Aesthetic Effect	2
Reactivity	
Other Chemicals	3
Water	0
Self Reaction	0

12.3 **NFPA Hazard Classifications:**

Category	Classification
Health Hazard (Blue)	3
Flammability (Red)	0
Reactivity (Yellow)	0

13. PHYSICAL AND CHEMICAL PROPERTIES*

13.1 **Physical State at 15°C and 1 atm:** Liquid
13.2 **Molecular Weight:** Not pertinent
13.3 **Boiling Point at 1 atm:** 123°F = 50.5°C = 323.8°K
13.4 **Freezing Point:** Not pertinent
13.5 **Critical Temperature:** Not pertinent
13.6 **Critical Pressure:** Not pertinent
13.7 **Specific Gravity:** 1.19 at 20°C (liquid)
13.8 **Liquid Surface Tension:** Not pertinent
13.9 **Liquid-Water Interfacial Tension:** Not pertinent
13.10 **Vapor (Gas) Specific Gravity:** Not pertinent
13.11 **Ratio of Specific Heats of Vapor (Gas):** Not pertinent
13.12 **Latent Heat of Vaporization:** 178 Btu/lb = 98.6 cal/g = 4.13×10^5 J/kg
13.13 **Heat of Combustion:** Not pertinent
13.14 **Heat of Decomposition:** Not pertinent
13.15 **Heat of Solution:** -860 Btu/lb = -480 cal/g = -20×10^5 J/kg
13.16 **Heat of Polymerization:** Not pertinent

*Physical properties apply to 37% solution

(Continued on pages 5 and 6)

NOTES

HDZ

HYDRAZINE

Common Synonyms

Watery liquid | Colorless | Ammonia odor

Mixes with water. Poisonous, flammable vapor is produced. Freezing point is 35° F.

AVOID CONTACT WITH LIQUID AND VAPOR. Keep people away.
Wear chemical protective suit with self-contained breathing apparatus.
Stop discharge if possible. Call fire department.
Stay upwind and use water spray to "knock down" vapor.
Isolate and remove discharged material.
Notify local health and pollution control agencies.

Fire

FLAMMABLE
Flashback along vapor trail may occur.
Vapor may explode if ignited in an enclosed area.
Wear chemical protective suit with self-contained breathing apparatus.
Combat fires from safe distance or protected location.
Flood discharge area with water.
Extinguish with dry chemical, alcohol foam, or carbon dioxide.
Cool exposed containers with water.
Continue cooling after fire has been extinguished.

Exposure

CALL FOR MEDICAL AID.

VAPOR
POISONOUS IF INHALED OR IF SKIN IS EXPOSED.
Irritating to eyes.
Move to fresh air.
If breathing has stopped, give artificial respiration.
If breathing is difficult, give oxygen.

LIQUID
POISONOUS IF SWALLOWED OR IF SKIN IS EXPOSED.
Will burn eyes.
Remove contaminated clothing and shoes.
Flush affected areas with plenty of water.
IF IN EYES, hold eyelids open and flush with plenty of water.
IF SWALLOWED and victim is CONSCIOUS, have victim drink water or milk.
DO NOT INDUCE VOMITING.

Water Pollution

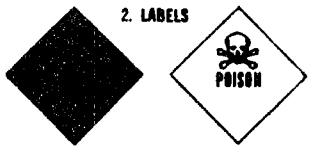
HARMFUL TO AQUATIC LIFE IN VERY LOW CONCENTRATIONS.
May be dangerous if it enters water intakes.
Notify local health and wildlife officials.
Notify operators of nearby water intakes.

1. RESPONSE TO DISCHARGE

(See Response Methods Handbook, CG 446-4)

Issue warning: high flammability, corrosive
Restrict access
Chemical and physical treatment

2. LABELS



3. CHEMICAL DESIGNATIONS

3.1 **Synonyms:** No common synonyms
3.2 **Coast Guard Compatibility Classification:** Not applicable
3.3 **Chemical Formula:** N_2H_4
3.4 **IMCO/United Nations Numerical Designation:** 8.0/2030

4. OBSERVABLE CHARACTERISTICS

4.1 **Physical State (as shipped):** Liquid
4.2 **Color:** Colorless
4.3 **Odor:** Ammonia-like

5. HEALTH HAZARDS

5.1 **Personal Protective Equipment:** Ammonia-type gas mask, self-contained breathing apparatus, plastic-coated or rubber gloves, clothes, and apron, safety shower must be available.

5.2 **Symptoms Following Exposure:** Vapors cause itching, swelling, and blistering of eyelids, skin, nose and throat, symptoms may be delayed for several hours. Temporary blindness may occur. Liquid causes a caustic-like burn if not washed off at once. Ingestion or absorption through skin causes nausea, dizziness, headache. Severe exposure may cause death

5.3 **Treatment for Exposure:** Call a doctor at once. INHALATION: remove to fresh air, observe for development of delayed symptoms. Keep quiet. INGESTION: do NOT induce vomiting, give egg whites or other emollient. SKIN OR EYES: wash with large amounts of water for at least 15 min.

5.4 **Toxicity by Inhalation (Threshold Limit Value):** 1 ppm

5.5 **Short-Term Inhalation Limits:** 1 ppm for 30 min.

5.6 **Toxicity by Ingestion:** Grade 3, LD_{50} to 500 mg/kg (rat)

5.7 **Late Toxicity:** Causes lung cancer in mice.

5.8 **Vapor (Gas) Irritant Characteristics:** Vapor is moderately irritating such that personnel will not usually tolerate moderate or high vapor concentrations.

5.9 **Liquid or Solid Irritant Characteristics:** Severe skin irritant. Causes second- and third-degree burns on short contact, very injurious to the eyes

5.10 **Odor Threshold:** 3 - 4 ppm

6. FIRE HAZARDS

6.1 **Flash Point:** 100°F O.C.
6.2 **Flammable Limits in Air:** 4.7% - 100%
6.3 **Fire Extinguishing Agents:** Water, alcohol foam, carbon dioxide, or dry chemical
6.4 **Fire Extinguishing Agents Not to be Used:** Not pertinent
6.5 **Special Hazards of Combustion Products:** Toxic vapor is generated when heated
6.6 **Behavior in Fire:** May explode if confined
6.7 **Ignition Temperature:** May ignite spontaneously 518°F (glass)
6.8 **Electrical Hazard:** Not pertinent
6.9 **Burning Rate:** 1 mm/min (est.)

7. CHEMICAL REACTIVITY

7.1 **Reactivity with Water:** No reaction
7.2 **Reactivity with Common Materials:** Can catch fire when in contact with porous materials such as wood, asbestos cloth, earth and rusty metals.
7.3 **Stability During Transport:** Stable at ordinary temperatures. When heated, can decompose to nitrogen and ammonia gases, but decomposition is not hazardous unless material is confined
7.4 **Neutralizing Agents for Acids and Caustics:** Flush with water. Neutralize the resulting solution with calcium hypochlorite (HTH) (7 lbs per lb of hydrazine)
7.5 **Polymerization:** Not pertinent
7.6 **Inhibitor of Polymerization:** Not pertinent

8. WATER POLLUTION

8.1 **Aquatic Toxicity:** 146 ppm/0.5 hr/rainbow trout/died/fresh water
8.2 **Waterfowl Toxicity:** Data not available
8.3 **Biological Oxygen Demand (BOD):** 100%
8.4 **Food Chain Concentration Potential:** None

9. SELECTED MANUFACTURERS

1 Fairmount Chemical Co., Inc.
117 Blanchard St.
Newark, N. J. 07105

2 Olin Corp.
Chemicals Division
120 Long Ridge Rd.
Stamford, Conn. 06904

3 Uniroyal, Inc.
Uniroyal Chemical Division
Spencer St.
Naugatuck, Conn. 06770

10. SHIPPING INFORMATION

10.1 **Grades or Purity:** Anhydrous; 35 - 64% water solutions
10.2 **Storage Temperature:** Ambient
10.3 **Inert Atmosphere:** Padded
10.4 **Venting:** Pressure-vacuum

11. HAZARD ASSESSMENT CODE

(See Hazard Assessment Handbook, CG 446-3)

A-P-Q

12. HAZARD CLASSIFICATIONS

12.1 **Code of Federal Regulations:** Flammable Liquid

12.2 **NAS Hazard Rating for Bulk Water Transportation:**

Category	Rating
Fire	4
Health	
Vapor Irritant	3
Liquid or Solid Irritant	4
Poisons	4
Water Pollution	
Human Toxicity	4
Aquatic Toxicity	3
Aesthetic Effect	2
Reactivity	
Other Chemicals	4
Water	0
Self-Reaction	4

12.3 **NFPA Hazard Classifications:**

Category	Classification
Health Hazard (Blue)	3
Flammability (Red)	3
Reactivity (Yellow)	2

13. PHYSICAL AND CHEMICAL PROPERTIES

13.1 **Physical State at 15°C and 1 atm:** Liquid
13.2 **Molecular Weight:** 32.05
13.3 **Boiling Point at 1 atm:** 236.3°F = 113.5°C = 386.7°K
13.4 **Freezing Point:** 34.7°F = 1.5°C = 274.7°K
13.5 **Critical Temperature:** 716°F = 380°C = 653°K
13.6 **Critical Pressure:** 2130 psia = 145 atm = 14.7 MN/m²
13.7 **Specific Gravity:** 1.008 at 20°C (liquid)
13.8 **Liquid Surface Tension:** Not pertinent
13.9 **Liquid-Water Interfacial Tension:** Not pertinent
13.10 **Vapor (Gas) Specific Gravity:** Not pertinent
13.11 **Ratio of Specific Heats of Vapor (Gas):** 1.191
13.12 **Latent Heat of Vaporization:** 538 Btu/lb = 299 cal/g = 12.5 × 10⁵ J/kg
13.13 **Heat of Combustion:** −8348 Btu/lb = −4636 cal/g = −194.1 × 10⁵ J/kg
13.14 **Heat of Decomposition:** Not pertinent
13.15 **Heat of Solution:** −218 Btu/lb = −121 cal/g = −5.07 × 10⁵ J/kg
13.16 **Heat of Polymerization:** Not pertinent

(Continued on pages 5 and 6)

NOTES

REVISED 1978

JPF

JET FUELS: JP-4

Common Synonyms	Watery liquid	Colorless	Fuel oil odor
	Floats on water.		

Stop discharge if possible. Keep people away.
Shut off ignition sources and call fire department.
Avoid contact with liquid.
Isolate and remove discharged material.
Notify local health and pollution control agencies.

Fire

FLAMMABLE.
Extinguish with dry chemical, foam, or carbon dioxide.
Water may be ineffective on fire.
Cool exposed containers with water.

Exposure

CALL FOR MEDICAL AID.

LIQUID
Irritating to skin and eyes.
Harmful if swallowed.

Remove contaminated clothing and shoes.
Flush affected areas with plenty of water.
IF IN EYES, hold eyelids open and flush with plenty of water.
IF SWALLOWED and victim is CONSCIOUS, have victim drink water or milk.
DO NOT INDUCE VOMITING.

Water Pollution

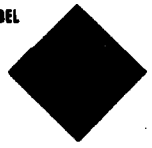
Dangerous to aquatic life in high concentrations.
Fouling to shoreline.
May be dangerous if it enters water intakes.
Notify local health and wildlife officials.
Notify operators of nearby water intakes.

1. RESPONSE TO DISCHARGE

(See Response Methods Handbook, CG 448-4)

Issue warning: high flammability
Mechanical containment
Should be removed
Chemical and physical treatment

2. LABEL



3. CHEMICAL DESIGNATIONS

3.1 **Synonyms:** No common synonyms

3.2 **Coast Guard Compatibility Classification:** Miscellaneous hydrocarbon mixtures

3.3 **Chemical Formula:** C_nH_{2n+2}

3.4 **IMCO/United Nations Numerical Designation:** 3.2/1863

4. OBSERVABLE CHARACTERISTICS

4.1 **Physical State (as shipped):** Liquid

4.2 **Color:** Colorless to light brown

4.3 **Odor:** Like fuel oil

5. HEALTH HAZARDS

5.1 **Personal Protective Equipment:** *Protective gloves, goggles or face shield*

5.2 **Symptoms Following Exposure:** Vapor causes slight irritation of eyes and nose. Liquid irritates stomach, if taken into lungs, causes coughing, distress, and rapidly developing pulmonary edema.

5.3 **Treatment for Exposure:** ASPIRATION: enforce bed rest; administer oxygen; call a doctor. INGESTION: do NOT induce vomiting; call a doctor. EYES: wash with plenty of water. SKIN: wipe off and wash with soap and water.

5.4 ***Toxicity by Inhalation (Threshold Limit Value):*** *200 ppm*

5.5 **Short-Term Inhalation Limits:** 2500 mg/m^3 for 60 min.

5.6 **Toxicity by Ingestion:** Grade 2; LD_{50} 0.5 to 5 g/kg

5.7 **Late Toxicity:** Data not available

5.8 **Vapor (Gas) Irritant Characteristics:** Vapors cause a slight smarting of the eyes or respiratory system if present in high concentrations. The effect is temporary.

5.9 **Liquid or Solid Irritant Characteristics:** Minimum hazard. If spilled on clothing and allowed to remain, may cause smarting and reddening of the skin.

5.10 **Odor Threshold:** 1 ppm

6. FIRE HAZARDS

6.1 **Flash Point:** −10°F to +30°F (C.C.)

6.2 **Flammable Limits in Air:** 1.3% - 8.0%

6.3 **Fire Extinguishing Agents:** Foam, dry chemical, or carbon dioxide

6.4 **Fire Extinguishing Agents Not to be Used:** Not pertinent

6.5 **Special Hazards of Combustion Products:** Not pertinent

6.6 **Behavior in Fire:** Not pertinent

6.7 **Ignition Temperature:** 464°F

6.8 **Electrical Hazard:** Not pertinent

6.9 **Burning Rate:** 4 mm/min

7. CHEMICAL REACTIVITY

7.1 **Reactivity with Water:** *No reaction*

7.2 **Reactivity with Common Materials:** No reaction

7.3 **Stability During Transport:** Stable

7.4 **Neutralizing Agents for Acids and Caustics:** Not pertinent

7.5 **Polymerization:** Not pertinent

7.6 **Inhibitor of Polymerization:** Not pertinent

8. WATER POLLUTION

8.1 **Aquatic Toxicity:** 500 ppm/*/salmon fingerling/lethal/fresh water
*Time period not specified

8.2 **Waterfowl Toxicity:** Data not available

8.3 **Biological Oxygen Demand (BOD):** 53%, 5 days

8.4 ***Food Chain Concentration Potential:*** None

9. SELECTED MANUFACTURERS

1. Exxon Co.
30 Rockefeller Plaza
New York, N. Y. 10020

2. Shell Oil Co.
1 Shell Plaza
Houston, Tex. 77001

3. Sun Oil Co.
240 Radnor Rd.
St. Davids, Pa. 19087

10. SHIPPING INFORMATION

10.1 **Grades or Purity:** 100%

10.2 **Storage Temperature:** Ambient

10.3 **Inert Atmosphere:** No requirement

10.4 **Venting:** *Open (flame arrester for pressure-vacuum)*

11. HAZARD ASSESSMENT CODE

(See Hazard Assessment Handbook, CG 448-3)

A-T-U

12. HAZARD CLASSIFICATIONS

12.1 **Code of Federal Regulations:** Flammable liquid

12.2 **NAS Hazard Rating for Bulk Water Transportation:**

Category	Rating
Fire	3
Health	
Vapor Irritant	1
Liquid or Solid Irritant	1
Poisons	1
Water Pollution	
Human Toxicity	1
Aquatic Toxicity	1
Aesthetic Effect	3
Reactivity	
Other Chemicals	0
Water	0
Self-Reaction	0

12.3 **NFPA Hazard Classifications:**

Category	Classification
Health Hazard (Blue)	0
Flammability (Red)	2
Reactivity (Yellow)	0

13. PHYSICAL AND CHEMICAL PROPERTIES

13.1 **Physical State at 15°C and 1 atm:** Liquid

13.2 **Molecular Weight:** Not pertinent

13.3 **Boiling Point at 1 atm:** 349 - 549°F = 176 - 287°C = 449 - 560°K

13.4 **Freezing Point:** < −54°F = < −48°C = < 225°K

13.5 **Critical Temperature:** Not pertinent

13.6 **Critical Pressure:** Not pertinent

13.7 **Specific Gravity:** 0.81 at 20°C (liquid)

13.8 **Liquid Surface Tension:** (est.) 25 dynes/cm = 0.025 N/m at 20°C

13.9 **Liquid-Water Interfacial Tension:** (est.) 50 dynes/cm = 0.05 N/m at 20°C

13.10 **Vapor (Gas) Specific Gravity:** Not pertinent

13.11 **Ratio of Specific Heats of Vapor (Gas):** (est.) 1.030

13.12 **Latent Heat of Vaporization:** 140 Btu/lb = 78 cal/g = 3.3 × 10^5 J/kg

13.13 **Heat of Combustion:** −18,540 Btu/lb = −10,300 cal/g = −431.24 × 10^5 J/kg

13.14 **Heat of Decomposition:** Not pertinent

13.15 **Heat of Solution:** Not pertinent

13.16 **Heat of Polymerization:** Not pertinent

(Continued on pages 5 and 6)

NOTES

KRS KEROSENE

Common Synonyms			
Illuminating oil Kerosine Range oil Fuel oil No. 1 Jet Fuel JP-1	Watery liquid Floats on water.	Colorless	Fuel oil odor

Stop discharge if possible.
Call fire department.
Avoid contact with liquid.
Isolate and remove discharged material.
Notify local health and pollution control agencies

Fire

Combustible.
Extinguish with dry chemical, foam, or carbon dioxide.
Water may be ineffective on fire.
Cool exposed containers with water

Exposure

CALL FOR MEDICAL AID.
LIQUID
Irritating to skin and eyes.
Harmful if swallowed
Remove contaminated clothing and shoes.
Flush affected areas with plenty of water
IF IN EYES, hold eyelids open and flush with plenty of water.
IF SWALLOWED and victim is CONSCIOUS, have victim drink water or milk.
DO NOT INDUCE VOMITING.

Water Pollution

Dangerous to aquatic life in high concentrations.
Fouling to shoreline.
May be dangerous if it enters water intakes.
Notify local health and wildlife officials.
Notify operators of nearby water intakes.

1. RESPONSE TO DISCHARGE

(See Response Methods Handbook CG 446-4)

Mechanical containment
Should be removed
Chemical and physical treatment

2. LABELS

No hazard label required by Code of Federal Regulations

3. CHEMICAL DESIGNATIONS

3.1 **Synonyms:** No. 1 Fuel oil, Kerosine, Illuminating oil, Range oil, JP-1

3.2 ***Coast Guard Compatibility Classification:*** Miscellaneous hydrocarbon mixtures

3.3 **Chemical Formula:** C_nH_{2n+2}

3.4 **IMCO/United Nations Numerical Designation:** 3.3/1223

4. OBSERVABLE CHARACTERISTICS

4.1 **Physical State (as shipped):** Liquid

4.2 **Color:** Colorless to light brown

4.3 **Odor:** Characteristic, like fuel oil

5. HEALTH HAZARDS

5.1 **Personal Protective Equipment:** Protective gloves, goggles or face shield

5.2 **Symptoms Following Exposure:** Vapor causes slight irritation of eyes and nose. Liquid irritates stomach, if taken into lungs, causes coughing, distress, and rapidly developing pulmonary edema.

5.3 **Treatment for Exposure:** ASPIRATION: enforce bed rest, administer oxygen, call a doctor. INGESTION: do NOT induce vomiting, call a doctor. EYES: wash with plenty of water. SKIN: wipe off and wash with soap and water.

5.4 **Toxicity by Inhalation (Threshold Limit Value):** 200 ppm

5.5 **Short-Term Inhalation Limits:** 2500 mg/m^3 for 60 min.

5.6 **Toxicity by Ingestion:** Grade 1; LD_{50} 5 to 15 g/kg

5.7 **Late Toxicity:** Data not available

5.8 **Vapor (Gas) Irritant Characteristics:** Vapors cause a slight smarting of the eyes or respiratory system if present in high concentrations. The effect is temporary.

5.9 **Liquid or Solid Irritant Characteristics:** Minimum hazard. If spilled on clothing and allowed to remain, may cause smarting and reddening of the skin.

5.10 ***Odor Threshold:*** 1 ppm

6. FIRE HAZARDS

6.1 **Flash Point:** 100°F (min.) (C.C.)

6.2 ***Flammable Limits in Air:*** 0.7% - 5%

6.3 **Fire Extinguishing Agents:** Foam, dry chemical, or carbon dioxide

6.4 **Fire Extinguishing Agents Not to be Used:** Water may be ineffective

6.5 **Special Hazards of Combustion Products:** Not pertinent

6.6 ***Behavior in Fire:*** Not pertinent

6.7 **Ignition Temperature:** 444°F

6.8 **Electrical Hazard:** Not pertinent

6.9 **Burning Rate:** 4 mm/min

7. CHEMICAL REACTIVITY

7.1 **Reactivity with Water:** No reaction

7.2 **Reactivity with Common Materials:** No reaction

7.3 **Stability During Transport:** Stable

7.4 **Neutralizing Agents for Acids and Caustics:** Not pertinent

7.5 ***Polymerization:*** Not pertinent

7.6 **Inhibitor of Polymerization:** Not pertinent

8. WATER POLLUTION

8.1 **Aquatic Toxicity:** 2990 *ppm*/24 hr/bluegill/TL_m/fresh water

8.2 **Waterfowl Toxicity:** Data not available

8.3 **Biological Oxygen Demand (BOD):** 53%, 5 days

8.4 **Food Chain Concentration Potential:** None

9. SELECTED MANUFACTURERS

1 Atlantic Richfield Co.
717 Fifth Ave
New York, N. Y. 10022

2 Shell Oil Co.
1 Shell Plaza
Houston, Tex. 77001

3 Sun Oil Co.
240 Radnor Rd.
St. Davids, Pa. 19087

10. SHIPPING INFORMATION

10.1 ***Grades or Purity:*** Light hydrocarbon distillate; 100%

10.2 **Storage Temperature:** Ambient

10.3 **Inert Atmosphere:** No requirement

10.4 **Venting:** Open (flame arrester)

11. HAZARD ASSESSMENT CODE

(See Hazard Assessment Handbook CG 448-3)

A-1-G

12. HAZARD CLASSIFICATIONS

12.1 **Code of Federal Regulations:** Combustible Liquid

12.2 **NAS Hazard Rating for Bulk Water Transportation:**

Category	Rating
Fire	2
Health	
Vapor Irritant	1
Liquid or Solid Irritant	1
Poisons	1
Water Pollution	
Human Toxicity	1
Aquatic Toxicity	1
Aesthetic Effect	3
Reactivity	
Other Chemicals	0
Water	0
Self Reaction	0

12.3 **NFPA Hazard Classifications:**

Category	Classification
Health Hazard (Blue)	0
Flammability (Red)	2
Reactivity (Yellow)	0

13. PHYSICAL AND CHEMICAL PROPERTIES

13.1 **Physical State at 15°C and 1 atm:** Liquid

13.2 ***Molecular Weight:*** Not pertinent

13.3 **Boiling Point at 1 atm:** 392-500°F = 200-260°C = 473-533°K

13.4 **Freezing Point:** −50°F = −45.6°C = 227.6°K

13.5 **Critical Temperature:** Not pertinent

13.6 **Critical Pressure:** Not pertinent

13.7 **Specific Gravity:** 0.80 at 15°C (liquid)

13.8 **Liquid Surface Tension:** 23-32 dynes/cm = 0.023-0.032 N/m at 20°C

13.9 **Liquid-Water Interfacial Tension:** 47-49 dynes/cm = 0.047-0.049 N/m at 20°C

13.10 **Vapor (Gas) Specific Gravity:** Not pertinent

13.11 **Ratio of Specific Heats of Vapor (Gas):** Not pertinent

13.12 **Latent Heat of Vaporization:** 110 Btu/lb = 60 cal/g = 2.5×10^5 J/kg

13.13 **Heat of Combustion:** −18,540 Btu/lb = −10,300 cal/g = -431.24×10^5 J/kg

13.14 **Heat of Decomposition:** Not pertinent

13.15 **Heat of Solution:** Not pertinent

13.16 **Heat of Polymerization:** Not pertinent

(Continued on pages 5 and 6

NOTES

REVISED 1978

LPG — LIQUEFIED PETROLEUM GAS

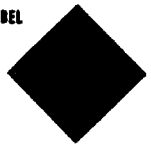
Common Synonyms Propane-butane-(propylene) Profax LPG	Liquefied compressed gas. Colorless. Weak odor; may have skunk odor added Floats and boils on water. Flammable vapor cloud is produced.
	Stop discharge if possible. Keep people away. Shut off ignition sources and call fire department. Stay upwind and use water spray to "knock down" vapor. Evacuate area in case of large discharge. Avoid contact with liquid. Notify local health and pollution control agencies.
Fire	FLAMMABLE. Flashback along vapor trail may occur. Containers may explode in fire. May explode if ignited in an enclosed area. Stop discharge if possible. Cool exposed containers and protect men effecting shutoff with water. Let fire burn.
Exposure	VAPOR Not irritating to eyes, nose and throat. If inhaled, will cause dizziness, difficult breathing, or loss of consciousness. CALL FOR MEDICAL AID. LIQUID Will cause frostbite. Move to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. Flush affected areas with plenty of water DO NOT RUB AFFECTED AREAS.
Water Pollution	Not harmful to aquatic life.

1. RESPONSE TO DISCHARGE

(See Response Methods Handbook, CG 446-4)

Issue warning: high flammability
Restrict access
Evacuate area

2. LABEL



3. CHEMICAL DESIGNATIONS

3.1 **Synonyms:** Bottled gas, Propane-butane-(propylene) Profax, LPG

3.2 **Coast Guard Compatibility Classification:** Paraffin or olefin

3.3 **Chemical Formula:** C_3H_8, C_4H_{10}, C_3H_6 (mixture)

3.4 **IMCO/United Nations Numerical Designation:** 2.0/1075

4. OBSERVABLE CHARACTERISTICS

4.1 **Physical State (as shipped):** Liquefied compressed gas

4.2 **Color:** Colorless

4.3 **Odor:** Mild, but commercial LPG has a skunk-like odorant added as a warning

5. HEALTH HAZARDS

5.1 **Personal Protective Equipment:** Self-contained breathing apparatus for high concentrations of gas

5.2 **Symptoms Following Exposure:** Concentrations in air greater than 10% cause dizziness in a few minutes. 1% concentrations give the same symptom in 10 min. High concentrations cause asphyxiation

5.3 **Treatment for Exposure:** Remove victim to open air. If he is overcome by gas, apply artificial resuscitation. Guard against self-injury if confused

5.4 **Toxicity by Inhalation (Threshold Limit Value):** 1000 ppm

5.5 **Short-Term Inhalation Limits:** Data not available

5.6 **Toxicity by Ingestion:** Not pertinent

5.7 **Late Toxicity:** None

5.8 **Vapor (Gas) Irritant Characteristics:** Vapors are nonirritating to the eyes and throat

5.9 **Liquid or Solid Irritant Characteristics:** No appreciable hazard. Practically harmless to the skin because it is very volatile and evaporates quickly. May cause frostbite

5.10 **Odor Threshold:** 5000-20,000 ppm

6. FIRE HAZARDS

6.1 **Flash Point:** Propane −156°F C.C., butane −76°F C.C.

6.2 **Flammable Limits in Air:** Propane 2.2% - 9.5%, butane 1.8% - 8.4%

6.3 **Fire Extinguishing Agents:** Allow to burn while cooling adjacent equipment with water spray. Extinguish small fires with dry chemicals. Shut off leak if possible

6.4 **Fire Extinguishing Agents Not to be Used:** Water (let fire burn)

6.5 **Special Hazards of Combustion Products:** Not pertinent

6.6 **Behavior in Fire:** Containers may explode in fire. Vapor heavier than air and may travel a long distance to a source of ignition and flash back

(Continued on page 4)

7. CHEMICAL REACTIVITY

7.1 **Reactivity with Water:** No reaction

7.2 **Reactivity with Common Materials:** No reaction

7.3 **Stability During Transport:** Stable

7.4 **Neutralizing Agents for Acids and Caustics:** Not pertinent

7.5 **Polymerization:** Not pertinent

7.6 **Inhibitor of Polymerization:** Not pertinent

8. WATER POLLUTION

8.1 **Aquatic Toxicity:** None

8.2 **Waterfowl Toxicity:** None

8.3 **Biological Oxygen Demand (BOD):** None

8.4 **Food Chain Concentration Potential:** None

9. SELECTED MANUFACTURERS

1. Exxon Co.
   Houston, Tex. 77001
2. Phillips Petroleum Co.
   Bartlesville, Okla. 74004
3. Sun Oil Co.
   St. Davids, Pa. 19087

10. SHIPPING INFORMATION

10.1 **Grades or Purity:** Various grades, mostly propane. In some areas propylene may be included. The proportion may be varied with the season.

10.2 **Storage Temperature:** Ambient

10.3 **Inert Atmosphere:** No requirement

10.4 **Venting:** Safety relief

11. HAZARD ASSESSMENT CODE

(See Hazard Assessment Handbook, CG 446-3)

A-B-C-D-E-F-G

12. HAZARD CLASSIFICATIONS

12.1 **Code of Federal Regulations:** Flammable compressed gas

12.2 **NAS Hazard Rating for Bulk Water Transportation:**

Category	Rating
Fire	4
Health	
Vapor Irritant	0
Liquid or Solid Irritant	0
Poisons	0
Water Pollution	
Human Toxicity	0
Aquatic Toxicity	0
Aesthetic Effect	0
Reactivity	
Other Chemicals	0
Water	0
Self-Reaction	0

12.3 **NFPA Hazard Classifications:**

Category	Classification
Health Hazard (Blue)	1
Flammability (Red)	4
Reactivity (Yellow)	0

13. PHYSICAL AND CHEMICAL PROPERTIES*

13.1 **Physical State at 15°C and 1 atm:** Gas

13.2 **Molecular Weight:** >44

13.3 **Boiling Point at 1 atm:** > −40°F = > −40°C = > 233°K

13.4 **Freezing Point:** Not pertinent

13.5 **Critical Temperature:** −142.01°F = −96.67°C = 176.53°K

13.6 **Critical Pressure:** 616.5 psia = 41.94 atm = 4.249 MN/m²

13.7 **Specific Gravity:** 0.51 - 0.58 at −50°C (liquid)

13.8 **Liquid Surface Tension:** 16 dynes/cm = 0.016 N/m at −47°C

13.9 **Liquid-Water Interfacial Tension:** (est.) 50 dynes/cm = 0.05 N/m at −38°C

13.10 **Vapor (Gas) Specific Gravity:** 1.5

13.11 **Ratio of Specific Heats of Vapor (Gas):** 1.130

13.12 **Latent Heat of Vaporization:** 183.2 Btu/lb = 101.8 cal/g = 4.262×10^5 J/kg

13.13 **Heat of Combustion:** −19,782 Btu/lb = −10,990 cal/g = -460.13×10^5 J/kg

13.14 **Heat of Decomposition:** Not pertinent

13.15 **Heat of Solution:** Not pertinent

13.16 **Heat of Polymerization:** Not pertinent

*Physical properties apply to propane, no "standard" LPG exists.

(Continued on pages 5 and 6)

6. FIRE HAZARDS (Cont'd.)

6.7 **Ignition Temperature:** Propane 871°F, butane 761°F

6.8 **Electrical Hazard:** Class I, Group D

6.9 **Burning Rate:** 8.2 mm/min

MLT

MALATHION

Common Synonyms
Cythion Insecticide

Liquid | Yellow to dark brown | Skunk-like odor

Sinks in water. Freezing point is 37° F.

AVOID CONTACT WITH LIQUID. Keep people away.
Wear chemical protective suit with self-contained breathing apparatus.
Stop discharge if possible.
Call fire department.
Isolate and remove discharged material.
Notify local health and pollution control agencies.

Fire

Combustible.
POISONOUS GASES ARE PRODUCED IN FIRE AND WHEN HEATED.
Containers may explode in fire.
Wear chemical protective suit with self-contained breathing apparatus.
Extinguish with dry chemical, carbon dioxide, water, or foam.
Cool exposed containers with water.

Exposure

CALL FOR MEDICAL AID.

LIQUID
POISONOUS IF SWALLOWED OR IF SKIN IS EXPOSED.
Irritating to eyes.
Remove contaminated clothing and shoes.
Flush affected areas with plenty of water.
IF IN EYES, hold eyelids open and flush with plenty of water.
IF SWALLOWED and victim is CONSCIOUS, have victim drink water or milk and have victim induce vomiting.
IF SWALLOWED and victim is UNCONSCIOUS OR HAVING CONVULSIONS, do nothing except keep victim warm.

Water Pollution

HARMFUL TO AQUATIC LIFE IN VERY LOW CONCENTRATIONS
May be dangerous if it enters water intakes.
Notify local health and wildlife officials.
Notify operators of nearby water intakes

1. RESPONSE TO DISCHARGE

(See Response Methods Handbook, CG 448-4)

Issue warning: poison, water contaminant
Restrict access
Should be removed
Chemical and physical treatment

2. LABEL

3. CHEMICAL DESIGNATIONS

3.1 **Synonyms:** CYTHION Insecticide
S-[1,2-Bis (ethoxycarbonyl) ethyl] 0,0-dimethyl phosphorodithioate

3.2 **Coast Guard Compatibility Classification:** Not applicable

3.3 **Chemical Formula:** $C_{10}H_{19}O_6PS_2$

3.4 **IMCO/United Nations Numerical Designation:** 6.1/1893

4. OBSERVABLE CHARACTERISTICS

4.1 **Physical State (as shipped):** Liquid

4.2 **Color:** Yellow to dark brown.

4.3 **Odor:** Characteristic skunk-like mercaptan

5. HEALTH HAZARDS

5.1 **Personal Protective Equipment:** Wear *self-contained breathing apparatus (or respirator for* organophosphate pesticides) and rubber clothing while fighting fires of malathion with chlorine bleach solution. All clothing contaminated by fumes and vapors must be decontaminated

5.2 **Symptoms Following Exposure:** Exposure to fumes from a fire or to liquid causes headache, blurred vision, constricted pupils of the eyes, weakness, nausea, cramps, diarrhea, and tightness in the chest. Muscles twitch and convulsions may follow. The symptoms may develop over a period of 8 hours

5.3 **Treatment for Exposure:** *Speed is essential.* INHALATION, in the nonbreathing victim *immediately* institute artificial respiration, using the mouth-to-mouth, the mouth-to-nose, or the mouth-to-oropharyngeal method. *Call physician!* INGESTION: administer milk, water or salt-water and induce vomiting repeatedly. SKIN OR EYE CONTACT: flood and wash exposed skin areas *thoroughly* with water. Remove contaminated clothing under a shower. Administer atropine, 2 mg (1/30 gr) intramuscularly or intravenously as soon as any local or systemic signs or symptoms of an intoxication are noted; repeat the administration of atropine every 3-8 min, until signs of atropinization (mydriasis, dry mouth, rapid pulse, hot and dry skin) occur; initiate treatment in children with 1 mg of atropine. Watch respiration, *and remove bronchial secretions if they appear to be obstructing the airway, intubate if* necessary. Give 2-PAM (Pralidoxime; *Protopam*), 2.5 gm in 100 ml of sterile water or in 5% dextrose and water, intravenously, slowly, in 15-30 min.; if sufficient fluid is not available, give 1 gm of 2-PAM in 3 ml of distilled water by deep intramuscular injection; repeat this every half hour if respiration weakens or if muscle fasciculation or convulsions recur.

6. FIRE HAZARDS

6.1 **Flash Point:** >325°F

6.2 **Flammable Limits in Air:** Data not available

6.3 **Fire Extinguishing Agents:** Dry chemical, carbon dioxide, water spray, foam

6.4 **Fire Extinguishing Agents Not to be Used:** Not pertinent

6.5 **Special Hazards of Combustion Products:** Vapors and fumes from fires are hazardous. They include sulfur dioxide and phosphoric acid.

6.6 **Behavior in Fire:** Gives off hazardous fumes. *Area surrounding fire should* be diked to prevent water runoff.

6.7 **Ignition Temperature:** *Data not available*

6.8 **Electrical Hazard:** Not pertinent

6.9 **Burning Rate:** Data not available

7. CHEMICAL REACTIVITY

7.1 **Reactivity with Water:** None

7.2 **Reactivity with Common Materials:** No hazardous reaction

7.3 **Stability During Transport:** Not pertinent

7.4 **Neutralizing Agents for Acids and Caustics:** Liquid bleach solution for decontamination.

7.5 **Polymerization:** Not pertinent

7.6 **Inhibitor of Polymerization:** Not pertinent

8. WATER POLLUTION

8.1 **Aquatic Toxicity:** 0.09 ppm/96 hr/bluegill/TL_m/fresh water
0.033-0.083 ppm/96 hr/marine crustaceae/ LC_m

8.2 **Waterfowl Toxicity:** LD_{50}=1485 mg/kg

8.3 **Biological Oxygen Demand (BOD):** Data not available

8.4 **Food Chain Concentration Potential:** None

9. SELECTED MANUFACTURERS

American Cyanamid Co.
Agricultural Division
P. O. Box 400
Princeton, N. J. 08540

10. SHIPPING INFORMATION

10.1 **Grades or Purity:** CYTHION Insecticide; Malathion ULV Concentrate Insecticide. Many powders, dusts, and spray solutions are sold under a variety of trade names.

10.2 **Storage Temperature:** Below 120°F. Decomposition (non-hazardous) occurs at higher temperatures.

10.3 **Inert Atmosphere:** Data not available

10.4 **Venting:** Data not available

11. HAZARD ASSESSMENT CODE

(See Hazard Assessment Handbook, CG 448-3)

A-X-Y

12. HAZARD CLASSIFICATIONS

12.1 **Code of Federal Regulations:** Poisonous liquid or solid, Class B

12.2 **NAS Hazard Rating for Bulk Water Transportation:** Not listed

12.3 **NFPA Hazard Classifications:** Not listed

13. PHYSICAL AND CHEMICAL PROPERTIES

13.1 **Physical State at 15°C and 1 atm:** Liquid

13.2 **Molecular Weight:** 330.36

13.3 **Boiling Point at 1 atm:** Very high

13.4 **Freezing Point:** 37°F = 2.9°C = 276°K

13.5 **Critical Temperature:** Not pertinent

13.6 **Critical Pressure:** Not pertinent

13.7 **Specific Gravity:** 1.234 at 25°C (liquid)

13.8 **Liquid Surface Tension:** 37.1 dynes/cm = 0.0371 N/m at 24°C

13.9 **Liquid-Water Interfacial Tension:** 19 dynes/cm = 0.019 N/m at 24°C

13.10 **Vapor (Gas) Specific Gravity:** Not pertinent

13.11 **Ratio of Specific Heats of Vapor (Gas):** Not pertinent

13.12 **Latent Heat of Vaporization:** Not pertinent

13.13 **Heat of Combustion:** Data not available

13.14 **Heat of Decomposition:** Not pertinent

13.15 **Heat of Solution:** Not pertinent

13.16 **Heat of Polymerization:** Not pertinent

(Continued on pages 5 and 6)

5. HEALTH HAZARDS (Cont'd.)

5.4 **Toxicity by Inhalation (Threshold Limit Value):** 10 mg/m³

5.5 **Short-Term Inhalation Limits:** Data not available

5.6 **Toxicity by Ingestion:** Grade 2; LD_{50} 0.5 to 5 g/kg (rat)

5.7 **Late Toxicity:** Data not available

5.8 **Vapor (Gas) Irritant Characteristics:** None likely

5.9 **Liquid or Solid Irritant Characteristics:** Minimum hazard. If spilled on clothing and allowed to remain, may cause smarting and reddening of the skin.

5.10 **Odor Threshold:** Data not available

REVISED 1978

MCR

MERCURY

Common Synonyms			
Quicksilver	Liquid	Silver	Odorless
	Sinks in water.		

AVOID CONTACT WITH LIQUID. Keep people away.
Stop discharge if possible.
Isolate and remove discharged material.
Notify local health and pollution control agencies.

Fire

Not flammable.

Exposure

CALL FOR MEDICAL AID.
LIQUID
Effects of exposure may be delayed.

Water Pollution

HARMFUL TO AQUATIC LIFE IN VERY LOW CONCENTRATIONS.
May be dangerous if it enters water intakes.

Notify local health and wildlife officials.
Notify operators of nearby water intakes.

1. RESPONSE TO DISCHARGE

(See Response Methods Handbook, CG 446-4)

Should be removed
Chemical and physical treatment

2. LABELS

No hazard label required by
Code of Federal Regulations

3. CHEMICAL DESIGNATIONS

3.1 **Synonyms:** Quicksilver
3.2 **Coast Guard Compatibility Classification:** Not applicable
3.3 **Chemical Formula:** Hg
3.4 **IMCO/United Nations Numerical Designation:** Not listed

4. OBSERVABLE CHARACTERISTICS

4.1 **Physical State (as shipped):** Liquid
4.2 **Color:** Silvery
4.3 **Odor:** None

5. HEALTH HAZARDS

5.1 **Personal Protective Equipment:** Avoid contact of liquid with skin. For vapor use chemical cartridge (Hopcalite) respirator.
5.2 **Symptoms Following Exposure:** No immediate symptoms. As poisoning becomes established, slight muscular tremor, loss of appetite, nausea, and diarrhea are observed. Psychic, kidney, and cardiovascular disturbances may occur
5.3 **Treatment for Exposure:** Consult a doctor.
5.4 **Toxicity by Inhalation (Threshold Limit Value):** 0.05 mg/m³
5.5 ***Short-Term Inhalation Limits:*** *Data not available*
5.6 **Toxicity by Ingestion:** No immediate toxicity
5.7 **Late Toxicity:** Development of mercury poisoning
5.8 **Vapor (Gas) Irritant Characteristics:** None
5.9 **Liquid or Solid Irritant Characteristics:** None
5.10 **Odor Threshold:** Not pertinent

6. FIRE HAZARDS

6.1 **Flash Point:** Not flammable
6.2 **Flammable Limits in Air:** Not flammable
6.3 **Fire Extinguishing Agents:** Not pertinent
6.4 **Fire Extinguishing Agents Not to be Used:** Not pertinent
6.5 **Special Hazards of Combustion Products:** Not pertinent
6.6 **Behavior in Fire:** Not pertinent
6.7 **Ignition Temperature:** Not flammable
6.8 **Electrical Hazard:** Not pertinent
6.9 **Burning Rate:** Not flammable

7. CHEMICAL REACTIVITY

7.1 **Reactivity with Water:** No reaction
7.2 **Reactivity with Common Materials:** No reaction
7.3 **Stability During Transport:** Stable
7.4 **Neutralizing Agents for Acids and Caustics:** Not pertinent
7.5 **Polymerization:** Not pertinent
7.6 **Inhibitor of Polymerization:** Not pertinent

8. WATER POLLUTION

8.1 **Aquatic Toxicity:** 0.5--1 ppm/48 hr/caragius ardium/TL_m/fresh water
0.29 ppm/48 hr/marine fish/TL_m/salt water
8.2 **Waterfowl Toxicity:** Data not available
8.3 **Biological Oxygen Demand (BOD):** None
8.4 **Food Chain Concentration Potential:** Mercury concentrates in liver and kidneys of ducks and geese to levels above FDA limit of 0.5 ppm. Muscle tissue usually well below the limit.

9. SELECTED MANUFACTURERS

1. Belmont Smelting and Refining Works, Inc.
330 Belmont Ave.
Brooklyn, N. Y. 11207
2. Engelhard Minerals and Chemical Corp.
Philipp Bros. Division
299 Park Ave.
New York, N. Y. 10017
3. NL Industries
Goldsmith Division
900 W. 18th St.
Chicago, Ill 60608

10. SHIPPING INFORMATION

10.1 **Grades or Purity:** Pure
10.2 **Storage Temperature:** Ambient
10.3 **Inert Atmosphere:** No requirement
10.4 **Venting:** Open

11. HAZARD ASSESSMENT CODE

(See Hazard Assessment Handbook, CG 446-3)

A-X

12. HAZARD CLASSIFICATIONS

12.1 **Code of Federal Regulations:** ORM--B
12.2 **NAS Hazard Rating for Bulk Water Transportation:** Not listed
12.3 **NFPA Hazard Classifications:** Not listed

13. PHYSICAL AND CHEMICAL PROPERTIES

13.1 **Physical State at 15°C and 1 atm:** Liquid
13.2 **Molecular Weight:** 200.59
13.3 **Boiling Point at 1 atm:** 675°F = 357°C = 630°K
13.4 **Freezing Point:** −38.0°F = −38.9°C = 234.3°K
13.5 **Critical Temperature:** 2664°F = 1462°C = 1735°K
13.6 **Critical Pressure:** 23,300 psia = 1587 atm = 160.8 MN/m²
13.7 **Specific Gravity:** 13.55 at 20°C (liquid)
13.8 **Liquid Surface Tension:** 470 dynes/cm = 0.470 N/m at 20°C
13.9 **Liquid-Water Interfacial Tension:** 375 dynes/cm = 0.375 N/m at 20°C
13.10 **Vapor (Gas) Specific Gravity:** Not pertinent
13.11 **Ratio of Specific Heats of Vapor (Gas):** Not pertinent
13.12 **Latent Heat of Vaporization:** Not pertinent
13.13 **Heat of Combustion:** Not pertinent
13.14 **Heat of Decomposition:** Not pertinent
13.15 **Heat of Solution:** Not pertinent
13.16 **Heat of Polymerization:** Not pertinent

(Continued on pages 5 and 6)

NOTES

MEK — METHYL ETHYL KETONE

Common Synonyms
MEK
2-Butanone
Ethyl methyl ketone

Liquid | Colorless | Sweet odor

Floats and mixes with water. Flammable, irritating vapor is produced.

Stop discharge if possible. Keep people away.
Shut off ignition sources and call fire department.
Stay upwind and use water spray to "knock down" vapor.
Avoid contact with liquid and vapor.
Isolate and remove discharged material.
Notify local health and pollution control agencies.

Fire

FLAMMABLE.
Flashback along vapor trail may occur.
Vapor may explode if ignited in an enclosed area.
Extinguish with dry chemical, alcohol foam, or carbon dioxide.
Water may be ineffective on fire.
Cool exposed containers with water.

Exposure

CALL FOR MEDICAL AID.

VAPOR
Irritating to eyes, nose and throat.
If inhaled, will cause nausea, vomiting, headache, dizziness, difficult breathing, or loss of consciousness.
Move to fresh air.
If breathing has stopped, give artificial respiration.
If breathing is difficult, give oxygen.

LIQUID
Will burn eyes.
Harmful if swallowed.
Remove contaminated clothing and shoes.
Flush affected areas with plenty of water.
IF IN EYES, hold eyelids open and flush with plenty of water.
IF SWALLOWED and victim is CONSCIOUS, have victim drink water or milk.

Water Pollution

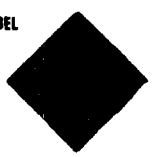
Dangerous to aquatic life in high concentrations.
May be dangerous if it enters water intakes.
Notify local health and wildlife officials.
Notify operators of nearby water intakes.

1. RESPONSE TO DISCHARGE

(See Response Methods Handbook, CG 448-4)

Issue warning - high flammability
Disperse and flush

2. LABEL



3. CHEMICAL DESIGNATIONS

3.1 **Synonyms:** 2-Butanone
Ethyl methyl ketone
MEK

3.2 **Coast Guard Compatibility Classification:** Ketone

3.3 **Chemical Formula:** $CH_3COCH_2CH_3$

3.4 **IMCO/United Nations Numerical Designation:** 3.2/1193

4. OBSERVABLE CHARACTERISTICS

4.1 **Physical State (as shipped):** Liquid

4.2 **Color:** Colorless

4.3 **Odor:** Like acetone; pleasant; pungent

5. HEALTH HAZARDS

5.1 **Personal Protective Equipment:** Organic canister or air pack; plastic gloves; goggles or face shield.

5.2 **Symptoms Following Exposure:** Liquid causes eye burn. Vapor irritates eyes, nose, and throat, can cause headache, dizziness, nausea, weakness, and loss of consciousness.

5.3 **Treatment for Exposure:** INHALATION: remove victim to fresh air; if breathing is irregular or has stopped, start resuscitation and administer oxygen. EYES: wash with plenty of water for at least 15 min. and call physician.

5.4 **Toxicity by Inhalation (Threshold Limit Value):** 200 ppm

5.5 **Short-Term Inhalation Limits:** 290 mg/m^3 for 60 min.

5.6 **Toxicity by Ingestion:** Grade 2; 0.5 to 5 g/kg (rat)

5.7 **Late Toxicity:** None

5.8 **Vapor (Gas) Irritant Characteristics:** Vapors cause a slight smarting of the eyes or respiratory system if present in high concentrations. The effect is temporary.

5.9 **Liquid or Solid Irritant Characteristics:** Minimum hazard. If spilled on clothing and allowed to remain, may cause smarting and reddening of the skin.

5.10 **Odor Threshold:** 10 ppm

6. FIRE HAZARDS

6.1 **Flash Point:** 20°F C.C.; 22°F O.C.

6.2 **Flammable Limits in Air:** 1.8% - 11.5%

6.3 **Fire Extinguishing Agents:** Alcohol foam, dry chemical, or carbon dioxide

6.4 **Fire Extinguishing Agents Not to be Used:** Water may be ineffective

6.5 **Special Hazards of Combustion Products:** Not pertinent

6.6 **Behavior in Fire:** Not pertinent

6.7 **Ignition Temperature:** 961°F

6.8 **Electrical Hazard:** Class I, Group D

6.9 **Burning Rate:** 4.1 mm/min.

7. CHEMICAL REACTIVITY

7.1 **Reactivity with Water:** No reaction

7.2 **Reactivity with Common Materials:** No reaction

7.3 **Stability During Transport:** Stable

7.4 **Neutralizing Agents for Acids and Caustics:** Not pertinent

7.5 **Polymerization:** Not pertinent

7.6 **Inhibitor of Polymerization:** Not pertinent

8. WATER POLLUTION

8.1 **Aquatic Toxicity:** 5640 mg/l /48 hr/bluegill/TL_m/fresh water

8.2 **Waterfowl Toxicity:** Data not available

8.3 **Biological Oxygen Demand (BOD):** 214%, 5 days

8.4 **Food Chain Concentration Potential:** None

9. SELECTED MANUFACTURERS

1. Celanese Corp.
Celanese Chemical Co. Division
245 Park Ave.
New York, N. Y. 10017
2. Exxon Chemical Co.
Houston, Tex. 77001
3. Shell Chemical Co.
Industrial Chemicals Division
Houston, Tex. 77001

10. SHIPPING INFORMATION

10.1 **Grades or Purity:** 99.5+%

10.2 **Storage Temperature:** Ambient

10.3 **Inert Atmosphere:** No requirement

10.4 **Venting:** Open (flame arrester) or pressure-vacuum

11. HAZARD ASSESSMENT CODE

(See Hazard Assessment Handbook, CG 448-3)

A-P-Q-R-S

12. HAZARD CLASSIFICATIONS

12.1 **Code of Federal Regulations:** Flammable liquid

12.2 **NAS Hazard Rating for Bulk Water Transportation:**

Category	Rating
Fire	3
Health	
Vapor Irritant	1
Liquid or Solid Irritant	1
Poisons	2
Water Pollution	
Human Toxicity	2
Aquatic Toxicity	1
Aesthetic Effect	1
Reactivity	
Other Chemicals	2
Water	0
Self-Reaction	0

12.3 **NFPA Hazard Classifications:**

Category	Classification
Health Hazard (Blue)	1
Flammability (Red)	3
Reactivity (Yellow)	0

13. PHYSICAL AND CHEMICAL PROPERTIES

13.1 **Physical State at 15°C and 1 atm:** Liquid

13.2 **Molecular Weight:** 72.11

13.3 **Boiling Point at 1 atm:** 175.3°F = 79.6°C = 352.8°K

13.4 **Freezing Point:** −123.3°F = −86.3°C = 186.9°K

13.5 **Critical Temperature:** 504.5°F = 262.5°C = 535.7°K

13.6 **Critical Pressure:** 603 psia = 41.0 atm = 4.15 MN/m^2

13.7 **Specific Gravity:** 0.806 at 20°C (liquid)

13.8 **Liquid Surface Tension:** Not pertinent

13.9 **Liquid-Water Interfacial Tension:** Not pertinent

13.10 **Vapor (Gas) Specific Gravity:** 2.5

13.11 **Ratio of Specific Heats of Vapor (Gas):** 1.075

13.12 **Latent Heat of Vaporization:** 191 Btu/lb = 106 cal/g = 4.44×10^5 J/kg

13.13 **Heat of Combustion:** −13,480 Btu/lb = −7491 cal/g = -313.6×10^5 J/kg

13.14 **Heat of Decomposition:** Not pertinent

13.15 **Heat of Solution:** (est.) −9 Btu/lb = −5 cal/g = -0.2×10^5 J/kg

13.16 **Heat of Polymerization:** Not pertinent

(Continued on pages 5 and 6)

NOTES

REVISED 1978

MNS

MINERAL SPIRITS

Common Synonyms
Petroleum spirits
Naphtha

Watery liquid | Colorless | Gasoline-like odor

Floats on water.

Stop discharge if possible.
Call fire department.
Avoid contact with liquid.
Isolate and remove discharged material.
Notify local health and pollution control agencies.

Fire

Combustible.
Extinguish with water, dry chemical, foam, or carbon dioxide.
Cool exposed containers with water.

Exposure

CALL FOR MEDICAL AID.

LIQUID
Irritating to skin and eyes.
Harmful if swallowed.
Remove contaminated clothing and shoes.
Flush affected areas with plenty of water.
IF IN EYES, hold eyelids open and flush with plenty of water.
IF SWALLOWED and victim is CONSCIOUS, have victim drink water or milk.
DO NOT INDUCE VOMITING.

Water Pollution

Effect of low concentrations on aquatic life is unknown.
Fouling to shoreline.
May be dangerous if it enters water intakes.
Notify local health and wildlife officials.
Notify operators of nearby water intakes.

1. RESPONSE TO DISCHARGE

(See Response Methods Handbook, CG 448-4)

Mechanical containment
Should be removed
Chemical and physical treatment

2. LABELS

No hazard label required by Code of Federal Regulations

3. CHEMICAL DESIGNATIONS

3.1 **Synonyms:** Naphtha
Petroleum spirits

3.2 **Coast Guard Compatibility Classification:** Miscellaneous hydrocarbon mixtures

3.3 **Chemical Formula:** Not applicable

3.4 **IMCO/United Nations Numerical Designation:** 3.3/1300

4. OBSERVABLE CHARACTERISTICS

4.1 **Physical State (as shipped):** Liquid

4.2 **Color:** Colorless

4.3 **Odor:** Like gasoline

5. HEALTH HAZARDS

5.1 **Personal Protective Equipment:** Plastic gloves; goggles or face shield (as for gasoline).

5.2 **Symptoms Following Exposure:** INHALATION: mild irritation of respiratory tract. ASPIRATION: severe lung irritation and rapidly developing pulmonary edema; central nervous system excitement followed by depression. INGESTION: irritation of stomach.

5.3 **Treatment for Exposure:** INHALATION: remove victim to fresh air. ASPIRATION: enforce bed rest; give oxygen; call a doctor. INGESTION: do NOT induce vomiting, guard against aspiration into lungs. EYES: wash with copious amounts of water. SKIN: wipe off and wash with soap and water.

5.4 **Toxicity by Inhalation (Threshold Limit Value):** 200 ppm

5.5 **Short-Term Inhalation Limits:** 4000 - 7000 ppm for 60 min.

5.6 **Toxicity by Ingestion:** Grade 2; LD_{50} 0.5 to 5 g/kg

5.7 **Late Toxicity:** Data not available

5.8 **Vapor (Gas) Irritant Characteristics:** Vapors are nonirritating to the eyes and throat.

5.9 **Liquid or Solid Irritant Characteristics:** Minimum hazard. If spilled on clothing and allowed to remain, may cause smarting and reddening of the skin.

5.10 **Odor Threshold:** Data not available

6. FIRE HAZARDS

6.1 **Flash Point:** 105-140°F C.C., depending on grade

6.2 **Flammable Limits in Air:** 0.8%--5.0%

6.3 **Fire Extinguishing Agents:** Foam, carbon dioxide, dry chemical

6.4 **Fire Extinguishing Agents Not to be Used:** Do not use straight hose water stream.

6.5 **Special Hazards of Combustion Products:** Not pertinent

6.6 **Behavior in Fire:** Not pertinent

6.7 **Ignition Temperature:** 540°F

6.8 **Electrical Hazard:** Not pertinent

6.9 **Burning Rate:** 4 mm/min.

7. CHEMICAL REACTIVITY

7.1 **Reactivity with Water:** No reaction

7.2 **Reactivity with Common Materials:** No reaction

7.3 **Stability During Transport:** Stable

7.4 **Neutralizing Agents for Acids and Caustics:** Not pertinent

7.5 **Polymerization:** Not pertinent

7.6 **Inhibitor of Polymerization:** Not pertinent

8. WATER POLLUTION

8.1 **Aquatic Toxicity:** Data not available

8.2 **Waterfowl Toxicity:** Data not available

8.3 **Biological Oxygen Demand (BOD):** 8%, 5 days

8.4 **Food Chain Concentration Potential:** None

9. SELECTED MANUFACTURERS

1. Atlantic Richfield Co.
717 Fifth Ave.
New York, N. Y. 10022
2. Phillips Petroleum
Bartlesville, Okla. 74004
3. Shell Oil Co.
1 Shell Plaza
Houston, Tex. 77001

10. SHIPPING INFORMATION

10.1 **Grades or Purity:** Various grades available. 70-100% of the materials are derived from petroleum, and 0-30% are aromatic hydrocarbons like benzene and toluene. Flash points vary with the exact composition but are usually above 100°F.

10.2 **Storage Temperature:** Ambient

10.3 **Inert Atmosphere:** No requirement

10.4 **Venting:** Open (flame arrester)

11. HAZARD ASSESSMENT CODE

(See Hazard Assessment Handbook, CG 448-3)

A-T-U

12. HAZARD CLASSIFICATIONS

12.1 **Code of Federal Regulations:** Combustible liquid

12.2 **NAS Hazard Rating for Bulk Water Transportation:** Not listed

12.3 **NFPA Hazard Classifications:**

Category	Classification
Health Hazard (Blue)	0
Flammability (Red)	2
Reactivity (Yellow)	0

13. PHYSICAL AND CHEMICAL PROPERTIES

13.1 **Physical State at 15°C and 1 atm:** Liquid

13.2 **Molecular Weight:** Not pertinent

13.3 **Boiling Point at 1 atm:** 310--395°F = 154--202°C = 428--475°K

13.4 **Freezing Point:** Not pertinent

13.5 **Critical Temperature:** Not pertinent

13.6 **Critical Pressure:** Not pertinent

13.7 **Specific Gravity:** 0.78 at 20°C (liquid)

13.8 **Liquid Surface Tension:** Data not available

13.9 **Liquid-Water Interfacial Tension:** Data not available

13.10 **Vapor (Gas) Specific Gravity:** Not pertinent

13.11 **Ratio of Specific Heats of Vapor (Gas):** (est.) 1.030

13.12 **Latent Heat of Vaporization:** Data not available

13.13 **Heat of Combustion:** Data not available

13.14 **Heat of Decomposition:** Not pertinent

13.15 **Heat of Solution:** Not pertinent

13.16 **Heat of Polymerization:** Not pertinent

(Continued on pages 5 and 6)

NOTES

NSS

NAPHTHA: STODDARD SOLVENT

Common Synonyms
Petroleum solvent
Drycleaner naphtha
Spotting naphtha

Watery liquid | Colorless | Gasoline-like odor

Floats on water.

Stop discharge if possible. Keep people away
Call fire department.
Avoid contact with liquid.
Isolate and remove discharged material.
Notify local health and pollution control agencies.

Fire

Combustible.
Extinguish with foam, dry chemical or carbon dioxide
Cool exposed containers with water.

Exposure

CALL FOR MEDICAL AID.

LIQUID
Irritating to skin and eyes.
Harmful if swallowed.
Remove contaminated clothing and shoes
Flush affected areas with plenty of water.
IF IN EYES, hold eyelids open and flush with plenty of water.
IF SWALLOWED and victim is CONSCIOUS, have victim drink water or milk.
DO NOT INDUCE VOMITING.

Water Pollution

Effect of low concentrations on aquatic life is unknown.
Fouling to shoreline.
May be dangerous if it enters water intakes
Notify local health and wildlife officials.
Notify operators of nearby water intakes.

1. RESPONSE TO DISCHARGE

(See Response Methods Handbook, CG 448-4)

Mechanical containment
Should be removed
Chemical and physical treatment

2. LABELS

No hazard label is required by Code of Federal Regulations

3. CHEMICAL DESIGNATIONS

3.1 **Synonyms:** Drycleaners' naphtha
Petroleum solvent
Spotting naphtha

3.2 **Coast Guard Compatibility Classification:** Miscellaneous hydrocarbon mixtures

3.3 **Chemical Formula:** Not applicable

3.4 **IMCO/United Nations Numerical Designation:** 3.3/1268

4. OBSERVABLE CHARACTERISTICS

4.1 **Physical State (as shipped):** Liquid

4.2 **Color:** Colorless

4.3 **Odor:** Like gasoline

5. HEALTH HAZARDS

5.1 **Personal Protective Equipment:** Goggles or face-shield (as for gasoline)

5.2 **Symptoms Following Exposure:** High concentration of vapors may cause intoxication. If liquid is swallowed, it may get into lungs by aspiration; not very irritating to skin or eyes.

5.3 **Treatment for Exposure:** INHALATION remove patient from exposure, treat symptoms. INGESTION do NOT induce vomiting! Call a doctor. EYES flush with water for 15 min. SKIN wipe off and wash with soap and water.

5.4 **Toxicity by Inhalation (Threshold Limit Value):** 200 ppm

5.5 **Short-Term Inhalation Limits:** 500 ppm for 30 min.

5.6 **Toxicity by Ingestion:** Grade 2; LD_{50} 0.5 to 5 g/kg

5.7 **Late Toxicity:** None

5.8 **Vapor (Gas) Irritant Characteristics:** Vapors are nonirritating to the eyes and throat.

5.9 **Liquid or Solid Irritant Characteristics:** Minimum hazard. If spilled on clothing and allowed to remain, may cause smarting and reddening of the skin.

5.10 **Odor Threshold:** Data not available

6. FIRE HAZARDS

6.1 **Flash Point:** 110°F C.C.

6.2 **Flammable Limits in Air:** 0.8% - 5.0%

6.3 **Fire Extinguishing Agents:** Foam, dry chemical, or carbon dioxide

6.4 **Fire Extinguishing Agents Not to be Used:** Not pertinent

6.5 **Special Hazards of Combustion Products:** Not pertinent

6.6 **Behavior in Fire:** Not pertinent

6.7 **Ignition Temperature:** 540°F (est.)

6.8 **Electrical Hazard:** Class I, Group D

6.9 **Burning Rate:** 4 mm/min

7. CHEMICAL REACTIVITY

7.1 **Reactivity with Water:** No reaction

7.2 **Reactivity with Common Materials:** No reaction

7.3 **Stability During Transport:** Stable

7.4 **Neutralizing Agents for Acids and Caustics:** Not pertinent

7.5 **Polymerization:** Not pertinent

7.6 **Inhibitor of Polymerization:** Not pertinent

8. WATER POLLUTION

8.1 **Aquatic Toxicity:** Data not available

8.2 **Waterfowl Toxicity:** Data not available

8.3 **Biological Oxygen Demand (BOD):** Data not available

8.4 **Food Chain Concentration Potential:** None

9. SELECTED MANUFACTURERS

1 Pennsylvania Refining Co
Butler, Pa. 16001

2 Sun Oil Co
St. Davids, Pa. 19087

3 Union Oil Co.
Amsco Division
3100 S. Meacham Rd.
Palatine, Ill. 60067

10. SHIPPING INFORMATION

10.1 **Grades or Purity:** Data not available

10.2 **Storage Temperature:** Ambient

10.3 **Inert Atmosphere:** No requirement

10.4 **Venting:** Open (flame arrester)

11. HAZARD ASSESSMENT CODE

(See Hazard Assessment Handbook, CG 448-3)

A·T·U

12. HAZARD CLASSIFICATIONS

12.1 **Code of Federal Regulations:** Combustible Liquid

12.2 **NAS Hazard Rating for Bulk Water Transportation:** Not listed

12.3 **NFPA Hazard Classifications:**

Category	Classification
Health Hazard (Blue)	0
Flammability (Red)	2
Reactivity (Yellow)	0

13. PHYSICAL AND CHEMICAL PROPERTIES

13.1 **Physical State at 15°C and 1 atm:** Liquid

13.2 **Molecular Weight:** Not pertinent

13.3 **Boiling Point at 1 atm:** 320-390°F = 160-199°C = 433-472°K

13.4 **Freezing Point:** Not pertinent

13.5 **Critical Temperature:** Not pertinent

13.6 **Critical Pressure:** Not pertinent

13.7 **Specific Gravity:** 0.78 at 20°C (liquid)

13.8 **Liquid Surface Tension:** 19-23 dynes/cm = 0.019-0.023 N/m at 20°C

13.9 **Liquid-Water Interfacial Tension:** 39-51 dynes/cm = 0.039-0.051 N/m at 20°C

13.10 **Vapor (Gas) Specific Gravity:** Data not available

13.11 **Ratio of Specific Heats of Vapor (Gas):** (est.) 1.030

13.12 **Latent Heat of Vaporization:** 130-150 Btu/lb = 71-81 cal/g = 3.0-3.4 × 10^5 J/kg

13.13 **Heat of Combustion:** (est.) −18,200 Btu/lb = −10,100 cal/g = −424 × 10^5 J/kg

13.14 **Heat of Decomposition:** Not pertinent

13.15 **Heat of Solution:** Not pertinent

13.16 **Heat of Polymerization:** Not pertinent

(Continued on pages 5 and 6)

NOTES

REVISED 1978

NAC

NITRIC ACID

Common Synonyms	Watery liquid	Colorless to light brown	Choking odor
	Sinks and mixes with water. Harmful vapor is produced.		

AVOID CONTACT WITH LIQUID AND VAPOR. Keep people away.
Wear chemical protective suit with self-contained breathing apparatus.
Stop discharge if possible.
Isolate and remove discharged material.
Notify local health and pollution control agencies.

Fire

Not flammable.
May cause fire on contact with combustibles.
Flammable gas may be formed on contact with metals.
Poisonous gases are produced when heated.
Wear chemical protective suit with self-contained breathing apparatus.
Cool exposed containers with water.

Exposure

CALL FOR MEDICAL AID.

VAPOR
Will burn eyes, nose and throat.
If inhaled, will cause difficult breathing or loss of consciousness.
Move to fresh air.
If breathing has stopped, give artificial respiration.
If breathing is difficult, give oxygen.

LIQUID
Will burn skin and eyes.
Harmful if swallowed.
Remove contaminated clothing and shoes.
Flush affected areas with plenty of water.
IF IN EYES, hold eyelids open and flush with plenty of water.
IF SWALLOWED and victim is CONSCIOUS, have victim drink water or milk.
DO NOT INDUCE VOMITING.

Water Pollution

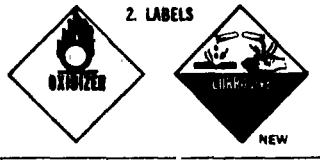
HARMFUL TO AQUATIC LIFE IN VERY LOW CONCENTRATIONS.
May be dangerous if it enters water intakes.
Notify local health and wildlife officials.
Notify operators of nearby water intakes.

1. RESPONSE TO DISCHARGE

(See Response Methods Handbook, CG 448-4)

Issue warning corrosive
Restrict access
Evacuate area
Disperse and flush

2. LABELS



3. CHEMICAL DESIGNATIONS

3.1 **Synonyms:** No common synonyms

3.2 **Coast Guard Compatibility Classification:** Nitric acid

3.3 **Chemical Formula:** HNO_3-H_2O

3.4 **IMCO/United Nations Numerical Designation:** 8.0/2031

4. OBSERVABLE CHARACTERISTICS

4.1 **Physical State (as shipped):** Liquid

4.2 **Color:** Colorless

4.3 **Odor:** Acrid, sweet to acrid

5. HEALTH HAZARDS

5.1 **Personal Protective Equipment:** Air mask; rubber acid suit, hood, boots and gloves; chemical goggles, safety shower and eye bath.

5.2 **Symptoms Following Exposure:** Vapors irritate eyes and respiratory tract, lung injury may not become apparent for several hours following exposure. Liquid may cause severe burns to eyes and skin.

5.3 **Treatment for Exposure:** INHALATION, remove to fresh air, administer artificial respiration if required. INGESTION, drink large volumes of water, do NOT induce vomiting. SKIN OR EYES, flush with water for at least 15 min.

5.4 **Toxicity by Inhalation (Threshold Limit Value):** 2 ppm

5.5 **Short-Term Inhalation Limits:** 15 ppm for 5 min.

5.6 **Toxicity by Ingestion:** Grade 3, LD_{50} 50 to 500 mg/kg

5.7 **Late Toxicity:** None

5.8 **Vapor (Gas) Irritant Characteristics:** 58-68%: Vapor is moderately irritating such that personnel will not usually tolerate moderate or high vapor concentrations. 95%: Vapors cause severe irritation of eye and throat and can cause eye and lung injury. They cannot be tolerated even at low concentrations.

5.9 **Liquid or Solid Irritant Characteristics:** Severe skin irritant. Causes second- and third-degree burns on short contact and is very injurious to the eyes.

5.10 **Odor Threshold:** Data not available

6. FIRE HAZARDS

6.1 **Flash Point:** Not flammable

6.2 **Flammable Limits in Air:** Not flammable

6.3 **Fire Extinguishing Agents:** Use water on adjacent fires

6.4 **Fire Extinguishing Agents Not to be Used:** Not pertinent

6.5 **Special Hazards of Combustion Products:** May give off poisonous oxides of nitrogen and acid fumes when heated in fires.

6.6 **Behavior in Fire:** Decomposes and gives off poisonous oxides of nitrogen

6.7 **Ignition Temperature:** Not flammable

6.8 **Electrical Hazard:** Not pertinent

6.9 **Burning Rate:** Not flammable

7. CHEMICAL REACTIVITY

7.1 **Reactivity with Water:** May heat up on mixing, but explosion or formation of steam unlikely.

7.2 **Reactivity with Common Materials:** Very corrosive to wood, paper, cloth and most metals. Toxic red oxides of nitrogen are formed.

7.3 **Stability During Transport:** When heated may give off toxic red oxides of nitrogen

7.4 **Neutralizing Agents for Acids and Caustics:** Flush with water.

7.5 **Polymerization:** Not pertinent

7.6 **Inhibitor of Polymerization:** Not pertinent

8. WATER POLLUTION

8.1 **Aquatic Toxicity:** 72 ppm/96 hr/mosquito fish/TL_m/fresh water
330-1000 ppm/48 hr/cockle/LC_{50}/salt water

8.2 **Waterfowl Toxicity:** Data not available

8.3 **Biological Oxygen Demand (BOD):** None

8.4 **Food Chain Concentration Potential:** None

9. SELECTED MANUFACTURERS

1. Allied Chemical Corp
Agricultural Division
Morristown, N. J. 07960

2. E. I. duPont de Nemours & Co., Inc.
Explosives Dept.
Wilmington, Del. 19898

3. Hercules, Inc.
Explosives & Chemical Propulsion Dept.
Bessemer, Ala. 35020

10. SHIPPING INFORMATION

10.1 **Grades or Purity:** Various grades: 52-98%

10.2 **Storage Temperature:** Ambient

10.3 **Inert Atmosphere:** No requirement

10.4 **Venting:** Open or pressure-vacuum

11. HAZARD ASSESSMENT CODE

(See Hazard Assessment Handbook, CG 446-3)

A-P

12. HAZARD CLASSIFICATIONS

12.1 **Code of Federal Regulations:** Oxidizer

12.2 **NAS Hazard Rating for Bulk Water Transportation:**

Category	Rating
Fire	0
Health	
Vapor Irritant	3
Liquid or Solid Irritant	4
Poisons	3
Water Pollution	
Human Toxicity	3
Aquatic Toxicity	3
Aesthetic Effect	2
Reactivity	
Other Chemicals	4
Water	0
Self-Reaction	0

12.3 **NFPA Hazard Classifications:**

Category	Classification
Health Hazard (Blue)	2
Flammability (Red)	0
Reactivity (Yellow)	0
	OXY

13. PHYSICAL AND CHEMICAL PROPERTIES

13.1 **Physical State at 15°C and 1 atm:** Liquid

13.2 **Molecular Weight:** Not pertinent

13.3 **Boiling Point at 1 atm:** 192.0°F = 88.9°C = 362.1°K

13.4 **Freezing Point:** −50°F = −45.6°C = 227.6°K

13.5 **Critical Temperature:** Not pertinent

13.6 **Critical Pressure:** Not pertinent

13.7 **Specific Gravity:** 1.49 at 20°C (liquid)

13.8 **Liquid Surface Tension:** Not pertinent

13.9 **Liquid-Water Interfacial Tension:** Not pertinent

13.10 **Vapor (Gas) Specific Gravity:** Not pertinent

13.11 **Ratio of Specific Heats of Vapor (Gas):** (est.) 1.248

13.12 **Latent Heat of Vaporization:** 214 Btu/lb = 119 cal/g = 4.98×10^5 J/kg

13.13 **Heat of Combustion:** Not pertinent

13.14 **Heat of Decomposition:** Not pertinent

13.15 **Heat of Solution:** -205 Btu/lb = -114 cal/g = -4.76×10^5 J/kg

13.16 **Heat of Polymerization:** Not pertinent

(Continued on pages 5 and 6)

NOTES

ODS — OILS: DIESEL

Common Synonyms			
Fuel oil 1-D *Fuel oil 2-D*	*Oily liquid* Floats on water.	*Yellow-brown*	*Lube or fuel oil odor*

Stop discharge if possible.
Call fire department.
Avoid contact with liquid.
Isolate and remove discharged material.
Notify local health and pollution control agencies.

Fire

Combustible.

Extinguish with dry chemical, foam, or carbon dioxide.
Water may be ineffective on fire.
Cool exposed containers with water

Exposure

CALL FOR MEDICAL AID.

LIQUID
Irritating to skin and eyes.
Harmful if swallowed.

Remove contaminated clothing and shoes.
Flush affected areas with plenty of water.
IF IN EYES, hold eyelids open and flush with plenty of water.
IF SWALLOWED and victim is CONSCIOUS, have victim drink water or milk.
DO NOT INDUCE VOMITING.

Water Pollution

Dangerous to aquatic life in high concentrations.
Fouling to shoreline.
May be dangerous if it enters water intakes.

Notify local health and wildlife officials.
Notify operators of nearby water intakes

1. RESPONSE TO DISCHARGE

(See Response Methods Handbook, CG 448-6)

Mechanical containment
Should be removed
Chemical and physical treatment

2. LABELS

No hazard label required by Code of Federal Regulations

3. CHEMICAL DESIGNATIONS

3.1 **Synonyms:** Fuel Oil 1-D
Fuel Oil 2-D

3.2 **Coast Guard Compatibility Classification:** Miscellaneous hydrocarbon mixtures

3.3 **Chemical Formula:** Not applicable

3.4 **IMCO/United Nations Numerical Designation:** *3.1/1270*

4. OBSERVABLE CHARACTERISTICS

4.1 **Physical State (as shipped):** Liquid

4.2 **Color:** Light brown

4.3 **Odor:** Like fuel oil

5. HEALTH HAZARDS

5.1 **Personal Protective Equipment:** Goggles or face shield

5.2 **Symptoms Following Exposure:** If liquid is ingested, an increased frequency of bowel movements will occur

5.3 **Treatment for Exposure:** INGESTION: do NOT induce vomiting. SKIN: wipe off, wash with soap and water. EYES: wash with copious amounts of water for at least 15 min

5.4 **Toxicity by Inhalation (Threshold Limit Value):** No single TLV applicable

5.5 **Short-Term Inhalation Limits:** Data not available

5.6 **Toxicity by Ingestion:** Grade 1, LD_{50} 5 to 15 g/kg

5.7 **Late Toxicity:** Data not available

5.8 **Vapor (Gas) Irritant Characteristics:** Vapors cause a slight smarting of the eyes or respiratory system if present in high concentrations. The effect is temporary

5.9 **Liquid or Solid Irritant Characteristics:** Minimum hazard. If spilled on clothing and allowed to remain, may cause smarting and reddening of the skin

5.10 **Odor Threshold:** Data not available

6. FIRE HAZARDS

6.1 **Flash Point:** (1-D) 100°F C.C.,
(2-D) 125°F C.C.

6.2 **Flammable Limits in Air:** 1.3 - 6.0 vol %

6.3 **Fire Extinguishing Agents:** Dry chemical, foam, or carbon dioxide

6.4 **Fire Extinguishing Agents Not to be Used:** Water may be ineffective

6.5 **Special Hazards of Combustion Products:** Not pertinent

6.6 **Behavior in Fire:** Not pertinent

6.7 **Ignition Temperature:** (1-D) 350-625°F
(2-D) 490-545°F

6.8 **Electrical Hazard:** Not pertinent

6.9 **Burning Rate:** 4 mm/min

7. CHEMICAL REACTIVITY

7.1 **Reactivity with Water:** No reaction

7.2 **Reactivity with Common Materials:** No reaction

7.3 **Stability During Transport:** Stable

7.4 **Neutralizing Agents for Acids and Caustics:** Not pertinent

7.5 **Polymerization:** Not pertinent

7.6 **Inhibitor of Polymerization:** Not pertinent

8. WATER POLLUTION

8.1 **Aquatic Toxicity:** 204 mg/l /24 hr/juvenile American shad/ TL_m/salt water

8.2 **Waterfowl Toxicity:** >20 ml/kg /LD_{50}/mallards

8.3 **Biological Oxygen Demand (BOD):** Data not available

8.4 **Food Chain Concentration Potential:** None

9. SELECTED MANUFACTURERS

1. Exxon Co.
Houston, Tex. 77001
2. Shell Oil Co.
1 Shell Plaza
Houston, Tex. 77001
3. Sun Oil Co.
St. Davids, Pa. 19087

10. SHIPPING INFORMATION

10.1 **Grades or Purity:** Diesel Fuel 1-D (ASTM); Diesel Fuel 2-D (ASTM)

10.2 **Storage Temperature:** Ambient

10.3 **Inert Atmosphere:** No requirement

10.4 **Venting:** Open (flame arrester)

11. HAZARD ASSESSMENT CODE

(See Hazard Assessment Handbook, CG 448-3)

A-T-U

12. HAZARD CLASSIFICATIONS

12.1 **Code of Federal Regulations:** Combustible liquid

12.2 **NAS Hazard Rating for Bulk Water Transportation:** Not listed

12.3 **NFPA Hazard Classifications:**

Category	Classification
Health Hazard (Blue)	0
Flammability (Red)	2
Reactivity (Yellow)	0

13. PHYSICAL AND CHEMICAL PROPERTIES

13.1 **Physical State at 15°C and 1 atm:** Liquid

13.2 **Molecular Weight:** Not pertinent

13.3 **Boiling Point at 1 atm:** 550 - 640°F = 288 - 338°C = 561 - 612°K

13.4 **Freezing Point:** 0 to −30°F = −18 to −34°C = 255 to 239°K

13.5 **Critical Temperature:** Not pertinent

13.6 **Critical Pressure:** Not pertinent

13.7 **Specific Gravity:** 0.841 at 16°C (liquid)

13.8 **Liquid Surface Tension:** (est.) 25 dynes/cm = 0.025 N/m at 20°C

13.9 **Liquid-Water Interfacial Tension:** (est.) 50 dynes/cm = 0.05 N/m at 20°C

13.10 **Vapor (Gas) Specific Gravity:** Not pertinent

13.11 **Ratio of Specific Heats of Vapor (Gas):** Not pertinent

13.12 **Latent Heat of Vaporization:** Not pertinent

13.13 **Heat of Combustion:** -18,400 Btu/lb = -10,200 cal/g = 429 × 10^3 J/kg

13.14 **Heat of Decomposition:** Not pertinent

13.15 **Heat of Solution:** Not pertinent

13.16 **Heat of Polymerization:** Not pertinent

(Continued on pages 5 and 6)

NOTES

REVISED 1978

OTW — OILS, FUEL: 2

Common Synonyms			
Home-heating oil	Oily liquid	Yellow-brown	Lube or fuel oil odor
	Floats on water.		

Stop discharge if possible.
Call fire department.
Avoid contact with liquid.
Isolate and remove discharged material.
Notify local health and pollution control agencies.

Fire

Combustible.
Extinguish with dry chemical, foam or carbon dioxide.
Water may be ineffective on fire.
Cool exposed containers with water.

Exposure

CALL FOR MEDICAL AID.

LIQUID
Irritating to skin and eyes.
If swallowed, will cause nausea, vomiting.
Remove contaminated clothing and shoes.
Flush affected areas with plenty of water.
IF IN EYES, hold eyelids open and flush with plenty of water.
IF SWALLOWED and victim is CONSCIOUS, have victim drink water or milk.
DO NOT INDUCE VOMITING.

Water Pollution

Dangerous to aquatic life in high concentrations.
Pooling to shoreline.
May be dangerous if it enters water intakes.
Notify local health and wildlife officials.
Notify operators of nearby water intakes.

1. RESPONSE TO DISCHARGE

(See Response Methods Handbook, CG 448-4)

Mechanical containment
Should be removed
Chemical and physical treatment

2. LABELS

No hazard label required by Code of Federal Regulations

3. CHEMICAL DESIGNATIONS

3.1 **Synonyms:** Home heating oil
3.2 **Coast Guard Compatibility Classification:** Miscellaneous hydrocarbon mixtures
3.3 **Chemical Formula:** Not applicable
3.4 **IMCO/United Nations Numerical Designation:** 3.3/1223

4. OBSERVABLE CHARACTERISTICS

4.1 **Physical State (as shipped):** Liquid
4.2 **Color:** Light brown
4.3 **Odor:** Like kerosine; characteristic

5. HEALTH HAZARDS

5.1 **Personal Protective Equipment:** Protective gloves; goggles or face shield
5.2 **Symptoms Following Exposure:** INHALATION causes headache and slight giddiness. INGESTION causes nausea, vomiting, and cramping, depression of central nervous system ranging from mild headache to anesthesia, coma, and death; pulmonary irritation secondary to exhalation of solvent; signs of kidney and liver damage may be delayed. ASPIRATION causes severe lung irritation with coughing, gagging, dyspnea, substernal distress, and rapidly developing pulmonary edema; later, signs of bronchopneumonia and pneumonitis, acute onset of central nervous system excitement followed by depression
5.3 **Treatment for Exposure:** INGESTION: do NOT induce vomiting. ASPIRATION: enforce bed rest, administer oxygen; seek medical attention. EYES: wash with copious quantity of water. SKIN: remove solvent by wiping and wash with soap and water
5.4 **Toxicity by Inhalation (Threshold Limit Value):** No single value applicable
5.5 **Short-Term Inhalation Limits:** Data not available
5.6 **Toxicity by Ingestion:** Grade 1; LD_{50} 5-15 g/kg
5.7 **Late Toxicity:** Data not available
5.8 **Vapor (Gas) Irritant Characteristics:** Slight smarting of eyes or respiratory system if present in high concentrations. The effect is temporary.
5.9 **Liquid or Solid Irritant Characteristics:** Minimum hazard. If spilled on clothing and allowed to remain, may cause smarting and reddening of skin
5.10 **Odor Threshold:** Data not available

6. FIRE HAZARDS

6.1 **Flash Point:** 136°F C.C.
6.2 **Flammable Limits in Air:** Data not available
6.3 **Fire Extinguishing Agents:** Dry chemical, foam, or carbon dioxide
6.4 **Fire Extinguishing Agents Not to be Used:** Water may be ineffective
6.5 **Special Hazards of Combustion Products:** Not pertinent
6.6 **Behavior in Fire:** Not pertinent
6.7 **Ignition Temperature:** 494°F
6.8 **Electrical Hazard:** Not pertinent
6.9 **Burning Rate:** 4 mm/min

7. CHEMICAL REACTIVITY

7.1 **Reactivity with Water:** No reaction
7.2 **Reactivity with Common Materials:** No reaction
7.3 **Stability During Transport:** Stable
7.4 **Neutralizing Agents for Acids and Caustics:** Not pertinent
7.5 **Polymerization:** Not pertinent
7.6 **Inhibitor of Polymerization:** Not pertinent

8. WATER POLLUTION

8.1 **Aquatic Toxicity:**
200 ppm/24 hr/juvenile American shad/TL_m/fresh water
20 ppm/96 hr/rainbow trout eggs/TL_m/salt water
8.2 **Waterfowl Toxicity:** Data not available
8.3 **Biological Oxygen Demand (BOD):** Data not available
8.4 **Food Chain Concentration Potential:** None

9. SELECTED MANUFACTURERS

1 Atlantic Richfield Co
717 Fifth Ave.
New York, N. Y. 10022

2 Shell Oil Co
1 Shell Plaza
Houston, Tex. 77001

3 Sun Oil Co.
St. Davids, Pa. 19087

10. SHIPPING INFORMATION

10.1 **Grades or Purity:** Commercial
10.2 **Storage Temperature:** Ambient
10.3 **Inert Atmosphere:** No requirement
10.4 **Venting:** Open (flame arrester)

11. HAZARD ASSESSMENT CODE

(See Hazard Assessment Handbook, CG 448-3)

A-T-U

12. HAZARD CLASSIFICATIONS

12.1 **Code of Federal Regulations:** Combustible Liquid
12.2 **NAS Hazard Rating for Bulk Water Transportation:** Not listed
12.3 **NFPA Hazard Classifications:**

Category	Classification
Health Hazard (Blue)	0
Flammability (Red)	2
Reactivity (Yellow)	0

13. PHYSICAL AND CHEMICAL PROPERTIES

13.1 **Physical State at 15°C and 1 atm:** Liquid
13.2 **Molecular Weight:** Not pertinent
13.3 **Boiling Point at 1 atm:** 540-640°F = 282-338°C = 555-611°K
13.4 **Freezing Point:** −20°F = −29°C = 244°K
13.5 **Critical Temperature:** Not pertinent
13.6 **Critical Pressure:** Not pertinent
13.7 **Specific Gravity:** 0.879 at 20°C (liquid)
13.8 **Liquid Surface Tension:** (est.) 25 dynes/cm = 0.025 N/m at 20°C
13.9 **Liquid-Water Interfacial Tension:** (est.) 50 dynes/cm = 0.05 N/m at 20°C
13.10 **Vapor (Gas) Specific Gravity:** Not pertinent
13.11 **Ratio of Specific Heats of Vapor (Gas):** Not pertinent
13.12 **Latent Heat of Vaporization:** Not pertinent
13.13 **Heat of Combustion:** −19,440 Btu/lb = −10,800 cal/g = −452.17 × 10³ J/kg
13.14 **Heat of Decomposition:** Not pertinent
13.15 **Heat of Solution:** Not pertinent
13.16 **Heat of Polymerization:** Not pertinent

(Continued on pages 5 and 6)

NOTES

OMT — OILS, MISCELLANEOUS: MOTOR

Common Synonyms
Crankcase oil
Lubricating oil

Oily liquid | Yellow-brown | Lube oil odor

Floats on water.

Stop discharge if possible.
Call fire department.
Avoid contact with liquid.
Isolate and remove discharged material.
Notify local health and pollution control agencies.

Fire

Combustible.
Extinguish with dry chemical, foam or carbon dioxide.
Water may be ineffective on fire.
Cool exposed containers with water.

Exposure

CALL FOR MEDICAL AID.

LIQUID
Irritating to skin and eyes.
Harmful if swallowed.
Remove contaminated clothing and shoes
Flush affected areas with plenty of water
IF IN EYES, hold eyelids open and flush with plenty of water.
IF SWALLOWED and victim is CONSCIOUS, have victim drink water or milk.
DO NOT INDUCE VOMITING.

Water Pollution

Effect of low concentrations on aquatic life is unknown.
Fouling to shoreline.
May be dangerous if it enters water intakes.
Notify local health and wildlife officials.
Notify operators of nearby water intakes.

1. RESPONSE TO DISCHARGE

(See Response Methods Handbook, CG 446-4)

Mechanical containment
Should be removed
Chemical and physical treatment

2. LABELS

No hazard label required by Code of Federal Regulations

3. CHEMICAL DESIGNATIONS

3.1 **Synonyms:** Crankcase oil
Lubricating oil
Transmission oil

3.2 **Coast Guard Compatibility Classification:** Miscellaneous hydrocarbon mixtures

3.3 **Chemical Formula:** Not applicable

3.4 **IMCO/United Nations Numerical Designation:** 3 3/1270

4. OBSERVABLE CHARACTERISTICS

4.1 **Physical State (as shipped):** Liquid

4.2 **Color:** Yellow fluorescent

4.3 **Odor:** Characteristic

5. HEALTH HAZARDS

5.1 **Personal Protective Equipment:** Protective gloves, goggles or face shield

5.2 **Symptoms Following Exposure:** INGESTION: minimal gastrointestinal irritation, increased frequency of bowel passage may occur. ASPIRATION: pulmonary irritation is normally minimal but may become more severe several hours after exposure

5.3 **Treatment for Exposure:** INGESTION: do NOT lavage or induce vomiting. ASPIRATION: treatment probably not required; delayed development of pulmonary irritation can be detected by serial chest x-rays. EYES: wash with copious amounts of water. SKIN: wipe off oil and wash with soap and water.

5.4 **Toxicity by Inhalation (Threshold Limit Value):** Data not available

5.5 **Short-Term Inhalation Limits:** Data not available

5.6 **Toxicity by Ingestion:** Grade 1; LD_{50} 5 to 15 g/kg

5.7 **Late Toxicity:** Data not available

5.8 **Vapor (Gas) Irritant Characteristics:** Vapors cause a slight smarting of the eyes or respiratory system if present in high concentrations. The effect is temporary

5.9 **Liquid or Solid Irritant Characteristics:** Minimum hazard. If spilled on clothing and allowed *to remain, may cause smarting and reddening of the skin*

5.10 **Odor Threshold:** Data not available

6. FIRE HAZARDS

6.1 **Flash Point:** 275-600°F C.C.

6.2 **Flammable Limits in Air:** Data not available

6.3 **Fire Extinguishing Agents:** Dry chemical, foam, or carbon dioxide

6.4 **Fire Extinguishing Agents Not to be Used:** Water may be ineffective

6.5 **Special Hazards of Combustion Products:** Not pertinent

6.6 **Behavior in Fire:** Not pertinent

6.7 **Ignition Temperature:** 325-625°F

6.8 **Electrical Hazard:** Not pertinent

6.9 **Burning Rate:** 4 mm/min.

7. CHEMICAL REACTIVITY

7.1 **Reactivity with Water:** No reaction

7.2 **Reactivity with Common Materials:** No reaction

7.3 **Stability During Transport:** Stable

7.4 **Neutralizing Agents for Acids and Caustics:** Not pertinent

7.5 **Polymerization:** Not pertinent

7.6 **Inhibitor of Polymerization:** Not pertinent

8. WATER POLLUTION

8.1 **Aquatic Toxicity:** Data not available

8.2 **Waterfowl Toxicity:** Data not available

8.3 **Biological Oxygen Demand (BOD):** Data not available

8.4 **Food Chain Concentration Potential:** None

9. SELECTED MANUFACTURERS

1. Shell Oil Co.
One Shell Plaza
Houston, Tex. 77001
2. Standard Oil Co. (Indiana)
910 S. Michigan Ave.
Chicago, Ill. 60605
3. Sun Oil Co.
St. Davids, Pa. 19087

10. SHIPPING INFORMATION

10.1 **Grades or Purity:** Various viscosities

10.2 **Storage Temperature:** Ambient

10.3 **Inert Atmosphere:** No requirement

10.4 **Venting:** Open (flame arrester)

11. HAZARD ASSESSMENT CODE

(See Hazard Assessment Handbook, CG 446-3)

A-T-U

12. HAZARD CLASSIFICATIONS

12.1 **Code of Federal Regulations:** Not listed

12.2 **NAS Hazard Rating for Bulk Water Transportation:** Not listed

12.3 **NFPA Hazard Classifications:** Not listed

13. PHYSICAL AND CHEMICAL PROPERTIES

13.1 **Physical State at 15°C and 1 atm:** Liquid

13.2 **Molecular Weight:** Not pertinent

13.3 **Boiling Point at 1 atm:** Very high

13.4 **Freezing Point:** −29.9°F = −34.4°C = 238.8°K

13.5 **Critical Temperature:** Not pertinent

13.6 **Critical Pressure:** Not pertinent

13.7 **Specific Gravity:** 0.84-0.96 at 15°C (liquid)

13.8 **Liquid Surface Tension:** 36-37.5 dynes/cm = 0.036-0.0375 N/m at 20°C

13.9 **Liquid-Water Interfacial Tension:** 33-54 dynes/cm = 0.033-0.054 N/m at 20°C

13.10 **Vapor (Gas) Specific Gravity:** Not pertinent

13.11 **Ratio of Specific Heats of Vapor (Gas):** Not pertinent

13.12 **Latent Heat of Vaporization:** Not pertinent

13.13 **Heat of Combustion:** −18,486 Btu/lb = −10,270 cal/g = −429.98 × 10³ J/kg

13.14 **Heat of Decomposition:** Not pertinent

13.15 **Heat of Solution:** Not pertinent

13.16 **Heat of Polymerization:** Not pertinent

(Continued on pages 5 and 6)

NOTES

OTF — OILS, MISCELLANEOUS: TRANSFORMER

Common Synonyms			
Insulating oil Electrical insulating oil Petroleum insulating oil	Oily liquid	Colorless to light brown	Motor oil-like odor
	Floats on water.		

Stop discharge if possible.
Call fire department.
Avoid contact with liquid.
Isolate and remove discharged material.
Notify local health and pollution control agencies.

Fire

Combustible.
Extinguish with foam, dry chemical, carbon dioxide.
Water may be ineffective on fire.

Exposure

CALL FOR MEDICAL AID.
LIQUID
Irritating to skin and eyes.
Harmful if swallowed.
Remove contaminated clothing.
Flush affected areas with plenty of water.
IF IN EYES, hold eyelids open and flush with plenty of water.
IF SWALLOWED and victim is CONSCIOUS, have victim drink water or milk.
DO NOT INDUCE VOMITING.

Water Pollution

Effect of low concentrations on aquatic life is unknown.
Fouling to shoreline.
May be dangerous if it enters water intakes.
Notify local health and wildlife officials.
Notify operators of nearby water intakes.

1. RESPONSE TO DISCHARGE

(See Response Methods Handbook, CG 446-4)

Mechanical containment
Should be removed
Chemical and physical treatment

2. LABELS

No hazard label required by Code of Federal Regulations

3. CHEMICAL DESIGNATIONS

3.1 **Synonyms:** Electrical insulating oil
Insulating oil
Petroleum insulating oil

3.2 **Coast Guard Compatibility Classification:** Miscellaneous hydrocarbon mixtures

3.3 **Chemical Formula:** Not applicable

3.4 **IMCO/United Nations Numerical Designation:** 3.3/1270

4. OBSERVABLE CHARACTERISTICS

4.1 **Physical State (as shipped):** Liquid

4.2 **Color:** Colorless to light brown

4.3 **Odor:** Like motor oil

5. HEALTH HAZARDS

5.1 **Personal Protective Equipment:** Protective gloves, goggles or face shield

5.2 **Symptoms Following Exposure:** Ingestion of liquid may irritate stomach and cause increased frequency of bowel movements. If taken into lungs, delayed pulmonary irritation may occur.

5.3 **Treatment for Exposure:** INGESTION: do NOT induce vomiting. ASPIRATION: check for delayed irritation by serial X-rays. EYES: wash with copious amounts of water. SKIN: wipe off and wash with soap and water.

5.4 **Toxicity by Inhalation (Threshold Limit Value):** Data not available

5.5 **Short-Term Inhalation Limits:** Data not available

5.6 **Toxicity by Ingestion:** Grade 1, LD_{50} 5 to 15 g/kg

5.7 **Late Toxicity:** Data not available

5.8 **Vapor (Gas) Irritant Characteristics:** Vapors cause a slight smarting of the eyes or respiratory system if present in high concentrations. The effect is temporary.

5.9 **Liquid or Solid Irritant Characteristics:** Minimum hazard. If spilled on clothing and allowed to remain, may cause smarting and reddening of the skin.

5.10 **Odor Threshold:** Data not available

6. FIRE HAZARDS

6.1 **Flash Point:** 295°F O.C.

6.2 **Flammable Limits in Air:** Data not available

6.3 **Fire Extinguishing Agents:** Foam, dry chemical, or carbon dioxide

6.4 **Fire Extinguishing Agents Not to be Used:** Water may be ineffective

6.5 **Special Hazards of Combustion Products:** Not pertinent

6.6 **Behavior in Fire:** Not pertinent

6.7 **Ignition Temperature:** Data not available

6.8 **Electrical Hazard:** Not pertinent

6.9 **Burning Rate:** Data not available

7. CHEMICAL REACTIVITY

7.1 **Reactivity with Water:** No reaction

7.2 **Reactivity with Common Materials:** No reaction

7.3 **Stability During Transport:** Stable

7.4 **Neutralizing Agents for Acids and Caustics:** Not pertinent

7.5 **Polymerization:** Not pertinent

7.6 **Inhibitor of Polymerization:** Not pertinent

8. WATER POLLUTION

8.1 **Aquatic Toxicity:** Data not available

8.2 **Waterfowl Toxicity:** Data not available

8.3 **Biological Oxygen Demand (BOD):** Data not available

8.4 **Food Chain Concentration Potential:** None

9. SELECTED MANUFACTURERS

1. Shell Oil Co.
One Shell Plaza
Houston, Tex. 77001
2. Standard Oil Co. (Indiana)
910 S. Michigan Ave.
Chicago, Ill. 60605
3. Sun Oil Co.
St. Davids, Pa. 19087

10. SHIPPING INFORMATION

10.1 **Grades or Purity:** Data not available

10.2 **Storage Temperature:** Ambient

10.3 **Inert Atmosphere:** No requirement

10.4 **Venting:** Open (flame arrester)

11. HAZARD ASSESSMENT CODE

(See Hazard Assessment Handbook, CG 446-3)

A-T-U

12. HAZARD CLASSIFICATIONS

12.1 **Code of Federal Regulations:** Not listed

12.2 **NAS Hazard Rating for Bulk Water Transportation:** Not listed

12.3 **NFPA Hazard Classifications:**

Category	Classification
Health Hazard (Blue)	0
Flammability (Red)	1
Reactivity (Yellow)	0

13. PHYSICAL AND CHEMICAL PROPERTIES

13.1 **Physical State at 15°C and 1 atm:** Liquid

13.2 **Molecular Weight:** Not pertinent

13.3 **Boiling Point at 1 atm:** Very high

13.4 **Freezing Point:** −75°F = −59°C = 214°K

13.5 **Critical Temperature:** Not pertinent

13.6 **Critical Pressure:** Not pertinent

13.7 **Specific Gravity:** 0.891 at 15°C (liquid)

13.8 **Liquid Surface Tension:** Data not available

13.9 **Liquid-Water Interfacial Tension:** 49 dynes/cm = 0.049 N/m at 25°C

13.10 **Vapor (Gas) Specific Gravity:** Not pertinent

13.11 **Ratio of Specific Heats of Vapor (Gas):** Not pertinent

13.12 **Latent Heat of Vaporization:** Not pertinent

13.13 **Heat of Combustion:** Data not available

13.14 **Heat of Decomposition:** Not pertinent

13.15 **Heat of Solution:** Not pertinent

13.16 **Heat of Polymerization:** Not pertinent

(Continued on pages 5 and 6)

NOTES

OXY — OXYGEN, LIQUEFIED

Common Synonyms			
Liquid oxygen LOX	Liquefied gas	Light blue	Odorless
	Sinks and boils in water.		

Avoid contact with liquid. Keep people away.
Wear rubber overclothing (including gloves).
Stop discharge if possible.

Fire

Not flammable.
Containers may explode in fire.
Cool exposed containers with water.

Exposure

Call for medical aid.
VAPOR
If inhaled will cause dizziness, or difficult breathing.

LIQUID
Will cause frostbite.

Flush affected areas with plenty of water.
DO NOT RUB AFFECTED AREAS.

Water Pollution

Not harmful to aquatic life.

1. RESPONSE TO DISCHARGE

(See Response Methods Handbook, CG 448-4)

Restrict access.

2. LABEL

3. CHEMICAL DESIGNATIONS

3.1 **Synonyms:** Liquid oxygen; LOX
3.2 **Coast Guard Compatibility Classification:** Not applicable
3.3 **Chemical Formula:** O_2
3.4 **IMCO/United Nations Numerical Designation:** 2/1073

4. OBSERVABLE CHARACTERISTICS

4.1 **Physical State (as shipped):** Liquefied gas
4.2 **Color:** Light blue
4.3 **Odor:** None

5. HEALTH HAZARDS

5.1 **Personal Protective Equipment:** Safety goggles or face shield; insulated gloves, long sleeves, trousers worn outside boots or over high-top shoes to shed spilled liquid
5.2 **Symptoms Following Exposure:** Inhalation of 100% oxygen can cause nausea, dizziness, irritation of lungs, pulmonary edema, pneumonia, and collapse. Liquid may cause frostbite of eyes and skin
5.3 **Treatment for Exposure:** INHALATION: in all but the most severe cases (pneumonia), recovery is rapid after reduction of oxygen pressure; supportive treatment should include immediate sedation, anticonvulsive therapy if needed, and rest. EYES: treat frostbite burns. SKIN: treat frostbite; soak in lukewarm water.
5.4 **Toxicity by Inhalation (Threshold Limit Value):** Not pertinent
5.5 **Short-Term Inhalation Limits:** Not pertinent
5.6 **Toxicity by Ingestion:** Not pertinent
5.7 **Late Toxicity:** Not pertinent
5.8 **Vapor (Gas) Irritant Characteristics:** Data not available
5.9 **Liquid or Solid Irritant Characteristics:** Data not available
5.10 **Odor Threshold:** Not pertinent

6. FIRE HAZARDS

6.1 **Flash Point:** Not flammable but supports combustion
6.2 **Flammable Limits in Air:** Not flammable
6.3 **Fire Extinguishing Agents:** Not pertinent
6.4 **Fire Extinguishing Agents Not to be Used:** Not pertinent
6.5 **Special Hazards of Combustion Products:** Not pertinent
6.6 **Behavior in Fire:** Increases intensity of any fire. Mixtures of liquid oxygen and any fuel are highly explosive
6.7 **Ignition Temperature:** Not pertinent
6.8 **Electrical Hazard:** Not pertinent
6.9 **Burning Rate:** Not pertinent

7. CHEMICAL REACTIVITY

7.1 **Reactivity with Water:** Heat of water will vigorously vaporize liquid oxygen.
7.2 **Reactivity with Common Materials:** Avoid organic and combustible materials, such as oil, grease, coal dust, etc. If ignited, such mixtures can explode. The low temperature may cause brittleness in some materials.
7.3 **Stability During Transport:** Stable
7.4 **Neutralizing Agents for Acids and Caustics:** Not pertinent
7.5 **Polymerization:** Not pertinent
7.6 **Inhibitor of Polymerization:** Not pertinent

8. WATER POLLUTION

8.1 **Aquatic Toxicity:** None
8.2 **Waterfowl Toxicity:** None
8.3 **Biological Oxygen Demand (BOD):** None
8.4 **Food Chain Concentration Potential:** None

9. SELECTED MANUFACTURERS

1. Union Carbide Corporation
   Linde Division
   Morristown, N. J. 08057
2. Airco, Inc.
   Industrial Gases Division
   575 Mountain Avenue
   Murray Hill, N. J. 07974
3. Liquid Air, Inc.
   1 Embarcadero Center
   San Francisco, Calif. 94111

10. SHIPPING INFORMATION

10.1 **Grades or Purity:** 99.5+%
10.2 **Storage Temperature:** −183°C
10.3 **Inert Atmosphere:** No requirement
10.4 **Venting:** Safety relief

11. HAZARD ASSESSMENT CODE

(See Hazard Assessment Handbook, CG 448-3)

A-1

12. HAZARD CLASSIFICATIONS

12.1 **Code of Federal Regulations:** Nonflammable compressed gas
12.2 **NAS Hazard Rating for Bulk Water Transportation:** Not listed
12.3 **NFPA Hazard Classifications:**

Category	Classification
Health Hazard (Blue)	3
Flammability (Red)	0
Reactivity (Yellow)	0
	oxy

13. PHYSICAL AND CHEMICAL PROPERTIES

13.1 **Physical State at 15°C and 1 atm:** Gas
13.2 **Molecular Weight:** 32.0
13.3 **Boiling Point at 1 atm:** −297.3°F = −182.9°C = 90.3°K
13.4 **Freezing Point:** −361°F = −218°C = 55°K
13.5 **Critical Temperature:** −180°F = −118°C = 155°K
13.6 **Critical Pressure:** 738 psia = 50.1 atm = 5.09 MN/m²
13.7 **Specific Gravity:** 1.14 at −183°C (liquid)
13.8 **Liquid Surface Tension:** 13.47 dynes/cm = 0.01347 N/m at −183°C
13.9 **Liquid-Water Interfacial Tension:** Not pertinent
13.10 **Vapor (Gas) Specific Gravity:** 1.1
13.11 **Ratio of Specific Heats of Vapor (Gas):** 1.3962
13.12 **Latent Heat of Vaporization:** 91.6 Btu/lb = 50.9 cal/g = 2.13 × 10⁵ J/kg
13.13 **Heat of Combustion:** Not pertinent
13.14 **Heat of Decomposition:** Not pertinent
13.15 **Heat of Solution:** Not pertinent
13.16 **Heat of Polymerization:** Not pertinent

(Continued on pages 5 and 6)

NOTES

PCB — POLYCHLORINATED BIPHENYL

Common Synonyms PCB Chlorinated biphenyl Arochlor	Oily liquid to solid powder — Light yellow liquid, or white powder — Weak odor Sinks in water.

Stop discharge if possible. Keep people away.
Avoid contact with liquid and solid.
Call fire department.
Isolate and remove discharged material.
Notify local health and pollution control agencies.

Fire

Combustible.
Extinguish with water, foam, dry chemical, or carbon dioxide.

Exposure

CALL FOR MEDICAL AID.

LIQUID OR SOLID
Irritating to skin and eyes.
Flush affected areas with plenty of water.
IF IN EYES, hold eyelids open and flush with plenty of water.

Water Pollution

HARMFUL TO AQUATIC LIFE IN VERY LOW CONCENTRATIONS.
May be dangerous if it enters water intakes.
Notify local health and wildlife officials.
Notify operators of nearby water intakes.

1. RESPONSE TO DISCHARGE

(See Response Methods Handbook, CG 446-4)

Issue warning — water contaminant
Should be removed
Chemical and physical treatment

2. LABELS

No hazard label required by Code of Federal Regulations

3. CHEMICAL DESIGNATIONS

3.1 **Synonyms:** Arochlor, Chlorinated biphenyl; Halogenated waxes, PCB, *Polychloropolyphenyls*

3.2 **Coast Guard Compatibility Classification:** Not applicable

3.3 **Chemical Formula:** $(C_{12}H_{10-x}Cl_x)$

3.4 **IMCO/United Nations Numerical Designation:** Not listed

4. OBSERVABLE CHARACTERISTICS

4.1 **Physical State (as shipped):** Liquid or solid

4.2 **Color:** Pale yellow (liquid), colorless (solid)

4.3 **Odor:** Practically odorless

5. HEALTH HAZARDS

5.1 **Personal Protective Equipment:** Gloves and protective garments

5.2 **Symptoms Following Exposure:** Acne from skin contact

5.3 **Treatment for Exposure:** SKIN: wash with soap and water

5.4 **Toxicity by Inhalation (Threshold Limit Value):** 0.5 to 1.0 mg/m³

5.5 **Short-Term Inhalation Limits:** Data not available

5.6 **Toxicity by Ingestion:** Grade 2; oral rat LD_{50} = 3980 mg/kg

5.7 **Late Toxicity:** Causes chromosomal abnormalities in rats, birth defects in birds

5.8 **Vapor (Gas) Irritant Characteristics:** Vapors cause severe irritation of eyes and throat and cause eye and lung injury. They cannot be tolerated even at low concentrations.

5.9 **Liquid or Solid Irritant Characteristics:** Contact with skin may cause irritation

5.10 **Odor Threshold:** Data not available

6. FIRE HAZARDS

6.1 **Flash Point:** >286°F

6.2 **Flammable Limits in Air:** Data not available

6.3 **Fire Extinguishing Agents:** Water, foam, dry chemical, or carbon dioxide

6.4 **Fire Extinguishing Agents Not to be Used:** Not pertinent

6.5 **Special Hazards of Combustion Products:** Irritating gases are generated in fires.

6.6 **Behavior in Fire:** Not pertinent

6.7 **Ignition Temperature:** Data not available

6.8 **Electrical Hazard:** Not pertinent

6.9 **Burning Rate:** Data not available

7. CHEMICAL REACTIVITY

7.1 **Reactivity with Water:** No reaction

7.2 **Reactivity with Common Materials:** No reaction

7.3 **Stability During Transport:** Stable

7.4 **Neutralizing Agents for Acids and Caustics:** Not pertinent

7.5 **Polymerization:** Not pertinent

7.6 **Inhibitor of Polymerization:** Not pertinent

8. WATER POLLUTION

8.1 **Aquatic Toxicity:**
0.278 ppm/96 hr/bluegill/TL_m/fresh water
0.005 ppm/336-1080 hr/pinfish/TL_m/salt water

8.2 **Waterfowl Toxicity:** LD_{50} 2000 ppm (mallard duck)

8.3 **Biological Oxygen Demand (BOD):** Very low

8.4 **Food Chain Concentration Potential:** High

9. SELECTED MANUFACTURERS

Monsanto Industrial Chemicals Co
800 North Lindbergh Blvd.
St. Louis, Mo. 63166

10. SHIPPING INFORMATION

10.1 **Grades or Purity:** 11 grades (some liquid, some solids) which differ primarily in their chlorine content (20-68% by weight)

10.2 **Storage Temperature:** Ambient

10.3 **Inert Atmosphere:** No requirement

10.4 **Venting:** Open

11. HAZARD ASSESSMENT CODE

(See Hazard Assessment Handbook, CG 448-3)

II

12. HAZARD CLASSIFICATIONS

12.1 **Code of Federal Regulations:** Not listed

12.2 **NAS Hazard Rating for Bulk Water Transportation:** Not listed

12.3 **NFPA Hazard Classifications:** Not listed

13. PHYSICAL AND CHEMICAL PROPERTIES

13.1 **Physical State at 15°C and 1 atm:** Solid or liquid

13.2 **Molecular Weight:** Not pertinent

13.3 **Boiling Point at 1 atm:** Very high

13.4 **Freezing Point:** Not pertinent

13.5 **Critical Temperature:** Not pertinent

13.6 **Critical Pressure:** Not pertinent

13.7 **Specific Gravity:** 1.3-1.8 at 20°C (liquid)

13.8 **Liquid Surface Tension:** Not pertinent

13.9 **Liquid-Water Interfacial Tension:** Not pertinent

13.10 **Vapor (Gas) Specific Gravity:** Not pertinent

13.11 **Ratio of Specific Heats of Vapor (Gas):** Not pertinent

13.12 **Latent Heat of Vaporization:** Not pertinent

13.13 **Heat of Combustion:** Not pertinent

13.14 **Heat of Decomposition:** Not pertinent

13.15 **Heat of Solution:** Not pertinent

13.16 **Heat of Polymerization:** Not pertinent

(Continued on pages 5 and 6)

NOTES

REVISED 1978

PTI

POTASSIUM IODIDE

Common Synonyms

Solid crystals | White | Odorless

Sinks and mixes with water.

Stop discharge if possible. Keep people away.
Isolate and remove discharged material.
Notify local health and pollution control agencies.

Fire

Not flammable.

Exposure

CALL FOR MEDICAL AID

SOLID
Harmful if swallowed.

Flush affected areas with plenty of water.
IF SWALLOWED and victim is CONSCIOUS, have victim drink water or milk.

Water Pollution

Effect of low concentrations on aquatic life is unknown.
May be dangerous if it enters water intakes.

Notify local health and wildlife officials.
Notify operators of nearby water intakes.

1. RESPONSE TO DISCHARGE

(See Response Methods Handbook, CG 446-4)

Issue warning - water contaminant
Disperse and flush

2. LABELS

No hazard label required by Code of Federal Regulations

3. CHEMICAL DESIGNATIONS

3.1 **Synonyms:** No common synonyms
3.2 **Coast Guard Compatibility Classification:** Not applicable
3.3 **Chemical Formula:** KI
3.4 **IMCO/United Nations Numerical Designation:** Not listed

4. OBSERVABLE CHARACTERISTICS

4.1 **Physical State (as shipped):** Solid
4.2 **Color:** White
4.3 **Odor:** Odorless

5. HEALTH HAZARDS

5.1 **Personal Protective Equipment:** Goggles or face shield
5.2 **Symptoms Following Exposure:** May irritate eyes or open cuts
5.3 **Treatment for Exposure:** Flush all affected areas with water
5.4 **Toxicity by Inhalation (Threshold Limit Value):** Not pertinent
5.5 **Short-Term Inhalation Limits:** Not pertinent
5.6 **Toxicity by Ingestion:** Grade 2, 0.5 to 5 g/kg (human)
5.7 **Late Toxicity:** Data not available
5.8 **Vapor (Gas) Irritant Characteristics:** Non-volatile
5.9 **Liquid or Solid Irritant Characteristics:** None
5.10 **Odor Threshold:** Not pertinent

6. FIRE HAZARDS

6.1 **Flash Point:** Not flammable
6.2 **Flammable Limits in Air:** Not flammable
6.3 **Fire Extinguishing Agents:** Not pertinent
6.4 **Fire Extinguishing Agents Not to be Used:** Not pertinent
6.5 **Special Hazards of Combustion Products:** Not pertinent
6.6 **Behavior in Fire:** Not pertinent
6.7 **Ignition Temperature:** Not flammable
6.8 **Electrical Hazard:** Not pertinent
6.9 **Burning Rate:** Not flammable

7. CHEMICAL REACTIVITY

7.1 **Reactivity with Water:** No reaction
7.2 **Reactivity with Common Materials:** Corrosive in all concentrations to most metals, except stainless steel, titanium, and tantalum.
7.3 **Stability During Transport:** Stable
7.4 **Neutralizing Agents for Acids and Caustics:** Not pertinent
7.5 **Polymerization:** Not pertinent
7.6 **Inhibitor of Polymerization:** Not pertinent

8. WATER POLLUTION

8.1 **Aquatic Toxicity:** 7.5 ppm/*/daphnia/toxic/fresh water
*Time period not specified
8.2 **Waterfowl Toxicity:** Data not available
8.3 **Biological Oxygen Demand (BOD):** None
8.4 **Food Chain Concentration Potential:** None

9. SELECTED MANUFACTURERS

1 *Allied Chemical Corp.*
Specialty Chemicals Division
Marcus Hook, Pa 19061

2 Kewanee Oil Co
Harshaw Chemical Co Division
1945 E. 97 St.
Cleveland, Ohio 44106

3 Mallinckrodt Chemical Works
Industrial Chemicals Division
2nd and Mallinckrodt Sts
St Louis, Mo. 63160

10. SHIPPING INFORMATION

10.1 **Grades or Purity:** USP, ACS, CP (all 99+%)
10.2 **Storage Temperature:** Ambient
10.3 **Inert Atmosphere:** No requirement
10.4 **Venting:** Open

11. HAZARD ASSESSMENT CODE

(See Hazard Assessment Handbook, CG 446-3)

SS

12. HAZARD CLASSIFICATIONS

12.1 **Code of Federal Regulations:** Not listed
12.2 **NAS Hazard Rating for Bulk Water Transportation:** Not listed
12.3 **NFPA Hazard Classifications:** Not listed

13. PHYSICAL AND CHEMICAL PROPERTIES

13.1 **Physical State at 15°C and 1 atm:** Solid
13.2 **Molecular Weight:** 166.01
13.3 **Boiling Point at 1 atm:** Very high
13.4 **Freezing Point:** 1258°F = 681°C = 954°K
13.5 **Critical Temperature:** Not pertinent
13.6 **Critical Pressure:** Not pertinent
13.7 **Specific Gravity:** 3.13 at 15°C (solid)
13.8 **Liquid Surface Tension:** Not pertinent
13.9 **Liquid-Water Interfacial Tension:** Not pertinent
13.10 **Vapor (Gas) Specific Gravity:** Not pertinent
13.11 **Ratio of Specific Heats of Vapor (Gas):** Not pertinent
13.12 **Latent Heat of Vaporization:** Not pertinent
13.13 **Heat of Combustion:** Not pertinent
13.14 **Heat of Decomposition:** Not pertinent
13.15 **Heat of Solution:** Not pertinent
13.16 **Heat of Polymerization:** Not pertinent

(Continued on pages 3 and 4)

NOTES

PRP

PROPANE

Common Synonyms

Liquefied compressed gas Colorless Odorless—may have skunk odor added

Liquid floats and boils on water. Flammable visible vapor cloud is produced.

Stop discharge if possible. Keep people away.
Shut off ignition sources and call fire department.
Stay upwind and use water spray to "knock down" vapor.
Notify local health and pollution control agencies.

Fire

FLAMMABLE.
Containers may explode in fire.
Flashback along vapor trail may occur.
Vapor may explode if ignited in an enclosed area.
Stop flow of gas if possible.
Cool exposed containers and protect men effecting shut-off with water.
Let fire burn.

Exposure

CALL FOR MEDICAL AID.

VAPOR
Not irritating to eyes, nose or throat.
If inhaled, will cause dizziness, difficult breathing, or loss of consciousness.
Move to fresh air.
If breathing has stopped, give artificial respiration.
If breathing is difficult, give oxygen.

LIQUID
May cause frostbite.
Flush affected areas with plenty of water.
DO NOT RUB AFFECTED AREAS.

Water Pollution

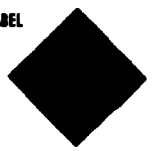
Not harmful to aquatic life.

1. RESPONSE TO DISCHARGE

(See Response Methods Handbook CG 446-4)

Issue warning: high flammability
Restrict access
Evacuate area

2. LABEL



3. CHEMICAL DESIGNATIONS

3.1 **Synonyms:** Dimethylmethane
3.2 **Coast Guard Compatibility Classification:** Paraffin
3.3 **Chemical Formula:** $CH_3CH_2CH_3$
3.4 **IMCO/United Nations Numerical Designation:** 2.0/1978

4. OBSERVABLE CHARACTERISTICS

4.1 **Physical State (as shipped):** Liquefied compressed gas
4.2 **Color:** Colorless
4.3 **Odor:** Faint gassy

5. HEALTH HAZARDS

5.1 **Personal Protective Equipment:** Self-contained breathing apparatus for high concentrations of gas
5.2 **Symptoms Following Exposure:** Vaporizing liquid may cause frostbite. Concentrations in air greater than 10% cause dizziness in a few minutes. 1% concentrations give the same effect in 10 min. High concentrations cause asphyxiation.
5.3 **Treatment for Exposure:** Remove to open air. If victim is overcome by gas, apply artificial respiration. Guard against self-injury if confused.
5.4 **Toxicity by Inhalation (Threshold Limit Value):** 1000 ppm
5.5 **Short-Term Inhalation Limits:** Data not available
5.6 **Toxicity by Ingestion:** Not pertinent
5.7 **Late Toxicity:** None
5.8 **Vapor (Gas) Irritant Characteristics:** Vapors are nonirritating to the eyes and throat.
5.9 **Liquid or Solid Irritant Characteristics:** No appreciable hazard. Practically harmless to the skin because it evaporates quickly.
5.10 **Odor Threshold:** 5,000 - 20,000 ppm

6. FIRE HAZARDS

6.1 **Flash Point:** −156°F C.C.
6.2 **Flammable Limits in Air:** 2.1% - 9.5%
6.3 **Fire Extinguishing Agents:** Stop flow of gas. For small fires use dry chemicals. Cool adjacent areas with water spray.
6.4 **Fire Extinguishing Agents Not to be Used:** Water
6.5 **Special Hazards of Combustion Products:** Not pertinent
6.6 **Behavior in Fire:** Containers may explode. Vapor is heavier than air and may travel a long distance to a source of ignition and flash back.
6.7 **Ignition Temperature:** 842°F
6.8 **Electrical Hazard:** Class I, Group D
6.9 **Burning Rate:** 8.2 mm/min

7. CHEMICAL REACTIVITY

7.1 **Reactivity with Water:** No reaction
7.2 **Reactivity with Common Materials:** No reaction
7.3 **Stability During Transport:** Stable
7.4 **Neutralizing Agents for Acids and Caustics:** Not pertinent
7.5 **Polymerization:** Not pertinent
7.6 **Inhibitor of Polymerization:** Not pertinent

8. WATER POLLUTION

8.1 **Aquatic Toxicity:** None
8.2 **Waterfowl Toxicity:** None
8.3 **Biological Oxygen Demand (BOD):** None
8.4 **Food Chain Concentration Potential:** None

9. SELECTED MANUFACTURERS

1 Atlantic Richfield
ARCO Chemical Co. Division
260 S. Broad St.
Philadelphia, Pa. 19101

2 Mobil Chemical Co.
North American Division
Beaumont, Texas 77704

3 Union Carbide Corp.
Linde Division
270 Park Ave.
New York, N. Y. 10017

10. SHIPPING INFORMATION

10.1 **Grades of Purity:**

	wt%
Research, Instrument, Pure	99.35+
Technical	97.50

10.2 **Storage Temperature:** Ambient
10.3 **Inert Atmosphere:** No requirement
10.4 **Venting:** Safety relief

11. HAZARD ASSESSMENT CODE

(See Hazard Assessment Handbook CG 446-3)

A-B-C-D-E-F-G

12. HAZARD CLASSIFICATIONS

12.1 **Code of Federal Regulations:** Flammable compressed gas

12.2 **NAS Hazard Rating for Bulk Water Transportation:**

Category	Rating
Fire	4
Health	
Vapor Irritant	0
Liquid or Solid Irritant	0
Poisons	0
Water Pollution	
Human Toxicity	0
Aquatic Toxicity	0
Aesthetic Effect	0
Reactivity	
Other Chemicals	0
Water	0
Self-Reaction	0

12.3 **NFPA Hazard Classifications:**

Category	Classification
Health Hazard (Blue)	1
Flammability (Red)	4
Reactivity (Yellow)	0

13. PHYSICAL AND CHEMICAL PROPERTIES

13.1 **Physical State at 15°C and 1 atm:** Gas
13.2 **Molecular Weight:** 44.09
13.3 **Boiling Point at 1 atm:** −43.8°F = −42.1°C = 231.1°K
13.4 **Freezing Point:** −305.9°F = −187.7°C = 85.5°K
13.5 **Critical Temperature:** −142.01°F = −96.67°F = 176.53°K
13.6 **Critical Pressure:** 616.5 psia = 41.94 atm = 4.249 MN/m²
13.7 **Specific Gravity:** 0.590 at −50°C (liquid)
13.8 **Liquid Surface Tension:** 16 dynes/cm = 0.016 N/m at −47°C
13.9 **Liquid-Water Interfacial Tension:** (est.) 50 dynes/cm = 0.05 N/m at −50°C
13.10 **Vapor (Gas) Specific Gravity:** 1.5
13.11 **Ratio of Specific Heats of Vapor (Gas):** 1.130
13.12 **Latent Heat of Vaporization:** 183.2 Btu/lb = 101.8 cal/g = 4.262×10^5 J/kg
13.13 **Heat of Combustion:** −19,782 Btu/lb = −10,990 cal/g = -460.13×10^5 J/kg
13.14 **Heat of Decomposition:** Not pertinent
13.15 **Heat of Solution:** Not pertinent
13.16 **Heat of Polymerization:** Not pertinent

(Continued on pages 5 and 6)

NOTES

SCN	SODIUM CYANIDE

Common Synonyms	Solid granules, flakes or lumps — White — Almond odor Sinks and mixes with water.

AVOID CONTACT WITH SOLID, DUST, AND SOLUTION. Keep people away
Wear chemical protective suit with self-contained breathing apparatus.
Isolate and remove discharged material.
Notify local health and pollution control agencies.

Fire

Not flammable.
Wear chemical protective suit with self-contained breathing apparatus.

Exposure

CALL FOR MEDICAL AID.

DUST
POISONOUS IF INHALED OR IF SKIN IS EXPOSED.
Move to fresh air.
If breathing has stopped, give artificial respiration
If breathing is difficult, give oxygen.

SOLID
POISONOUS IF SWALLOWED OR IF SKIN IS EXPOSED.
Will burn eyes.
Remove contaminated clothing and shoes.
Flush affected areas with plenty of water.
IF IN EYES, hold eyelids open and flush with plenty of water.
IF SWALLOWED and victim is CONSCIOUS, have victim drink water or milk, and have victim induce vomiting.
IF SWALLOWED and victim is UNCONSCIOUS OR HAVING CONVULSIONS, do nothing except keep victim warm

Water Pollution

HARMFUL TO AQUATIC LIFE IN VERY LOW CONCENTRATIONS.
May be dangerous if it enters water intakes.
Notify local health and wildlife officials.
Notify operators of nearby water intakes

1. RESPONSE TO DISCHARGE

(See Response Methods Handbook CG 446-4)

Issue warning — poison
Restrict access
Evacuate area
Chemical and physical treatment

2. LABEL

3. CHEMICAL DESIGNATIONS

3.1 **Synonyms:** Hydrocyanic acid, sodium salt
3.2 **Coast Guard Compatibility Classification:** Not applicable
3.3 **Chemical Formula:** NaCN
3.4 **IMCO/United Nations Numerical Designation:** 6.1/1689

4. OBSERVABLE CHARACTERISTICS

4.1 **Physical State (as shipped):** Solid
4.2 **Color:** White
4.3 **Odor:** Odorless when dry. When moist it has a slight odor of hydrocyanic acid

5. HEALTH HAZARDS

5.1 **Personal Protective Equipment:** Protective gloves when handling solid sodium cyanide; rubber gloves when handling cyanide solutions (wash hands and rubber gloves thoroughly with running water after handling cyanides); U.S. Bureau of Mines approved dust respirator; approved chemical safety goggles

5.2 **Symptoms Following Exposure:** As little as 180 milligrams is a rapidly fatal poison if ingested. Non-lethal doses may cause toxic symptoms. Strong water solutions, or the solid itself, can be absorbed by the skin and cause deep ulcers which heal slowly.

5.3 ***Treatment for Exposure:*** *INGESTION: start treatment immediately; call a physician; carry* victim to fresh air; have him lie down; keep him quiet and warm until physician arrives.

- If victim is conscious and breathing: induce vomiting by giving emetic of warm salt water (1 tablespoon salt/cup water), repeat until vomit fluid is clear, then have victim drink one pint of 1% solution of sodium thiosulfate, to be repeated in 15 min.
- If victim has stopped breathing, give artificial respiration until breathing starts.
- If victim is unconscious but breathing, give oxygen from an inhalator.

For all of above conditions, have victim breathe amyl nitrite. Break nitrite pearl in a cloth and hold lightly under victim's nose for 15 sec., repeating 3 times at about 15-sec. intervals. If necessary repeat this procedure every 3 min. with fresh pearls until 3 or 4 have been given. (Pearls must not be over 2 years old. Avoid breathing amyl nitrite while administering it to victim.)

5.4 **Toxicity by Inhalation (Threshold Limit Value):** Not pertinent
5.5 **Short-Term Inhalation Limits:** Not pertinent
5.6 **Toxicity by Ingestion:** Grade 4, below 50 mg/kg

6. FIRE HAZARDS

6.1 **Flash Point:** Not flammable
6.2 **Flammable Limits in Air:** Not flammable
6.3 **Fire Extinguishing Agents:** Not pertinent
6.4 **Fire Extinguishing Agents Not to be Used:** Not pertinent
6.5 ***Special Hazards of Combustion Products:*** Not pertinent
6.6 **Behavior in Fire:** Not pertinent
6.7 **Ignition Temperature:** Not flammable
6.8 **Electrical Hazard:** Not pertinent
6.9 **Burning Rate:** Not flammable

7. CHEMICAL REACTIVITY

7.1 **Reactivity with Water:** When sodium cyanide dissolves in water, a mild reaction occurs and some poisonous hydrogen cyanide gas is released. This gas is not hazardous except in an enclosed space. If the water is acidic, however, toxic amounts of the gas will form at once.
7.2 **Reactivity with Common Materials:** No reaction
7.3 **Stability During Transport:** Stable
7.4 **Neutralizing Agents for Acids and Caustics:** Not pertinent
7.5 **Polymerization:** Not pertinent
7.6 **Inhibitor of Polymerization:** Not pertinent

8. WATER POLLUTION

8.1 **Aquatic Toxicity:**
0.15 ppm/96 hr/bluegill/TL_m/fresh water
0.25 ppm/48 hr/prawn/LC_{50}/salt water
8.2 **Waterfowl Toxicity:** Data not available
8.3 **Biological Oxygen Demand (BOD):** (theor.) 6%, 7 days
8.4 **Food Chain Concentration Potential:** None

9. SELECTED MANUFACTURERS

1. E. I. duPont de Nemours & Co., Inc.
Electrochemicals Dept.
Wilmington, Del. 19898
2. Mallinckrodt Chemical Works
Industrial Chemicals Division
2nd and Mallinckrodt Sts.
St. Louis, Mo. 63160

10. SHIPPING INFORMATION

10.1 **Grades or Purity:** 99+%
10.2 **Storage Temperature:** Ambient
10.3 **Inert Atmosphere:** No requirement
10.4 **Venting:** Sealed containers must be stored in well-ventilated area.

11. HAZARD ASSESSMENT CODE

(See Hazard Assessment Handbook CG 446-3)

SS

12. HAZARD CLASSIFICATIONS

12.1 **Code of Federal Regulations:** Poisonous liquid or solid, Class B
12.2 **NAS Hazard Rating for Bulk Water Transportation:** Not listed
12.3 **NFPA Hazard Classifications:**

Category	Classification
Health Hazard (Blue)	3
Flammability (Red)	0
Reactivity (Yellow)	0

13. PHYSICAL AND CHEMICAL PROPERTIES

13.1 **Physical State at 15°C and 1 atm:** Solid
13.2 **Molecular Weight:** 49.01
13.3 **Boiling Point at 1 atm:** Very high
13.4 **Freezing Point:** 1047°F = 564°C = 837°K
13.5 **Critical Temperature:** Not pertinent
13.6 **Critical Pressure:** Not pertinent
13.7 **Specific Gravity:** 1.60 at 25°C (solid)
13.8 **Liquid Surface Tension:** Not pertinent
13.9 **Liquid-Water Interfacial Tension:** Not pertinent
13.10 **Vapor (Gas) Specific Gravity:** Not pertinent
13.11 **Ratio of Specific Heats of Vapor (Gas):** Not pertinent
13.12 **Latent Heat of Vaporization:** Not pertinent
13.13 **Heat of Combustion:** Not pertinent
13.14 **Heat of Decomposition:** Not pertinent
13.15 **Heat of Solution:** Not pertinent
13.16 **Heat of Polymerization:** Not pertinent

(Continued on pages 5 and 6)

5. HEALTH HAZARDS (Cont'd.)

5.7 **Late Toxicity:** None
5.8 **Vapor (Gas) Irritant Characteristics:** Non-volatile, but moisture in air can liberate some lethal hydrogen cyanide gas
5.9 **Liquid or Solid Irritant Characteristics:** Fairly severe skin irritant, may cause pain and second-degree burns after a few minutes' contact
5.10 **Odor Threshold:** Not pertinent

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SFA — SULFURIC ACID

Common Synonyms
Oil of vitriol
Battery acid
Fertilizer acid

Oily liquid | Colorless | Odorless

Sinks and mixes violently with water. Irritating mist is produced.

AVOID CONTACT WITH LIQUID. Keep people away.
Wear goggles, self-contained breathing apparatus, and rubber overclothing.
Stop discharge if possible.
Isolate and remove discharged material.
Notify local health and pollution control agencies.

Fire

Not flammable.
May cause fire on contact with combustibles.
Flammable gas may be produced on contact with metals.
POISONOUS GAS MAY BE PRODUCED IN FIRE.
Wear goggles, self-contained breathing apparatus, and rubber overclothing.
DO NOT USE WATER ON ADJACENT FIRES.
Extinguish with dry chemical or carbon dioxide.

Exposure

CALL FOR MEDICAL AID.

MIST
Irritating to eyes, nose and throat.
If inhaled, will cause coughing, difficult breathing, or loss of consciousness.
Move to fresh air.
IF IN EYES, hold eyelids open and flush with plenty of water.
If breathing has stopped, give artificial respiration.
If breathing is difficult, give oxygen.

LIQUID
Will burn skin and eyes.
Harmful if swallowed.
Remove contaminated clothing and shoes.
Flush affected areas with plenty of water.
IF IN EYES, hold eyelids open and flush with plenty of water.
IF SWALLOWED and victim is CONSCIOUS, have victim drink water or milk.
DO NOT INDUCE VOMITING.

Water Pollution

HARMFUL TO AQUATIC LIFE IN VERY LOW CONCENTRATIONS
May be dangerous if it enters water intakes.
Notify local health and wildlife officials.
Notify operators of nearby water intakes.

1. RESPONSE TO DISCHARGE

(See Response Methods Handbook, CG 446-4)

Issue warning: corrosive
Restrict access
Disperse and flush with care

2. LABEL

3. CHEMICAL DESIGNATIONS

3.1 **Synonyms:** Battery acid, Chamber acid, Fertilizer acid, Oil of vitriol
3.2 **Coast Guard Compatibility Classification:** Sulfuric acid
3.3 **Chemical Formula:** H_2SO_4
3.4 **IMCO/United Nations Numerical Designation:** 8 0/1830

4. OBSERVABLE CHARACTERISTICS

4.1 **Physical State (as shipped):** Liquid
4.2 **Color:** Colorless (pure) to dark brown
4.3 **Odor:** Odorless unless hot, then choking

5. HEALTH HAZARDS

5.1 **Personal Protective Equipment:** Safety shower, eyewash fountain, safety goggles; face shield, approved respirator (self-contained or air-line), rubber safety shoes, rubber apron
5.2 **Symptoms Following Exposure:** Inhalation of vapor from hot, concentrated acid may injure lungs. Swallowing may cause severe injury or death. Contact with skin or eyes causes severe burns.
5.3 **Treatment for Exposure:** Call a doctor. INHALATION: observe victim for delayed pulmonary reaction. INGESTION: have victim drink water if possible; do NOT induce vomiting. EYES AND SKIN: wash with large amounts of water for at least 15 min.; do not use oils or ointments in eyes; treat skin burns.
5.4 **Toxicity by Inhalation (Threshold Limit Value):** 1 mg/m³
5.5 **Short-Term Inhalation Limits:** 10 mg/m³ for 5 min.; 5 mg/m³ for 10 min.; 2 mg/m³ for 30 min.; 1 mg/m³ for 60 min.
5.6 **Toxicity by Ingestion:** No effects except those secondary to tissue damage.
5.7 **Late Toxicity:** None
5.8 **Vapor (Gas) Irritant Characteristics:** Vapors from hot acid (77-98%) cause moderate irritation of eyes and respiratory system. Effect is temporary.
5.9 **Liquid or Solid Irritant Characteristics:** 77-98% acid causes severe second- and third-degree burns of skin on short contact and is very injurious to the eyes.
5.10 **Odor Threshold:** Greater than 1 mg/m³

6. FIRE HAZARDS

6.1 **Flash Point:** Not flammable
6.2 **Flammable Limits in Air:** Not flammable
6.3 **Fire Extinguishing Agents:** Not pertinent
6.4 **Fire Extinguishing Agents Not to be Used:** Water used on adjacent fires should be carefully handled.
6.5 **Special Hazards of Combustion Products:** Not pertinent
6.6 **Behavior in Fire:** Not flammable
6.7 **Ignition Temperature:** Not flammable
6.8 **Electrical Hazard:** None
6.9 **Burning Rate:** Not flammable

7. CHEMICAL REACTIVITY

7.1 **Reactivity with Water:** Reacts violently with evolution of heat. Spattering occurs when water is added to the compound.
7.2 **Reactivity with Common Materials:** Extremely hazardous in contact with many materials, particularly metals and combustibles. Dilute acid reacts with most metals, releasing hydrogen which can form explosive mixtures with air in confined spaces.
7.3 **Stability During Transport:** Stable
7.4 **Neutralizing Agents for Acids and Caustics:** Dilute with water, then neutralize with lime, limestone, or soda ash.
7.5 **Polymerization:** Not pertinent
7.6 **Inhibitor of Polymerization:** Not pertinent

8. WATER POLLUTION

8.1 **Aquatic Toxicity:** 24.5 ppm/24 hr/bluegill/lethal/fresh water; 42.5 ppm/48 hr/prawn/LC_m/salt water
8.2 **Waterfowl Toxicity:** Data not available
8.3 **Biological Oxygen Demand (BOD):** None
8.4 **Food Chain Concentration Potential:** None

9. SELECTED MANUFACTURERS

1 Allied Chemical Corp.
Industrial Chemicals Division
P. O. Box 1139R
Morristown, N. J. 07960

2 Cities Service Co., Inc.
North American Chemicals and Metals Group
60 Wall St.
New York, N. Y. 10005

3 E. I. duPont de Nemours & Co., Inc.
Explosives Dept.
Wilmington, Del. 19898

10. SHIPPING INFORMATION

10.1 **Grades or Purity:** CP, USP; Technical, at 33% to 98% (50° Be to 66° Be).
10.2 **Storage Temperature:** Ambient
10.3 **Inert Atmosphere:** No requirement
10.4 **Venting:** Open

11. HAZARD ASSESSMENT CODE

(See Hazard Assessment Handbook, CG 446-3)

A-P-O

12. HAZARD CLASSIFICATIONS

12.1 **Code of Federal Regulations:** Corrosive Material
12.2 **NAS Hazard Rating for Bulk Water Transportation:**

Category	Rating
Fire	0
Health	
Vapor Irritant	2
Liquid or Solid Irritant	4
Poisons	2
Water Pollution	
Human Toxicity	2
Aquatic Toxicity	3
Aesthetic Effect	2
Reactivity	
Other Chemicals	4
Water	3
Self-Reaction	0

12.3 **NFPA Hazard Classifications:**

Category	Classification
Health Hazard (Blue)	3
Flammability (Red)	0
Reactivity (Yellow)	2
	W

13. PHYSICAL AND CHEMICAL PROPERTIES

13.1 **Physical State at 15°C and 1 atm:** Liquid
13.2 **Molecular Weight:** 98.08
13.3 **Boiling Point at 1 atm:** 644°F = 340°C = 613°K
13.4 **Freezing Point:** Not pertinent
13.5 **Critical Temperature:** Not pertinent
13.6 **Critical Pressure:** Not pertinent
13.7 **Specific Gravity:** 1.84 at 20°C (liquid)
13.8 **Liquid Surface Tension:** Not pertinent
13.9 **Liquid-Water Interfacial Tension:** Not pertinent
13.10 **Vapor (Gas) Specific Gravity:** Not pertinent
13.11 **Ratio of Specific Heats of Vapor (Gas):** Not pertinent
13.12 **Latent Heat of Vaporization:** Not pertinent
13.13 **Heat of Combustion:** Not pertinent
13.14 **Heat of Decomposition:** Not pertinent
13.15 **Heat of Solution:** −418.0 Btu/lb = −232.2 cal/g = −9.715 × 10⁵ J/kg
13.16 **Heat of Polymerization:** Not pertinent

*Physical properties apply to concentrated (98%) acid unless otherwise stated. More dilute acid is more water-like.

(Continued on pages 5 and 6)

NOTES

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THR — THIRAM

Common Synonyms

Bis (dimethylthiocarbamoyl) disulfide
Bis (dimethylthiocarbamyl) disulfide
Tetramethyl thiuram disulfide

Solid — White to light yellow

Sinks in water.

AVOID CONTACT WITH SOLID AND DUST. KEEP PEOPLE AWAY.
Wear goggles and dust respirator.
Call fire department.
Stay upwind. Use water spray to "knock down" dust.
Isolate and remove discharged material.
Notify local health and pollution control agencies.

Fire

Combustible.
POISONOUS GASES ARE PRODUCED IN FIRE.
Wear goggles and self-contained breathing apparatus.
Flood discharge area with water.

Exposure

CALL FOR MEDICAL AID.

DUST
POISONOUS IF INHALED.
Irritating to eyes, nose and throat.
Move victim to fresh air.
If in eyes, hold eyelids open and flush with plenty of water.
If breathing has stopped, give artificial respiration.
If breathing is difficult, give oxygen.

SOLID
POISONOUS IF SWALLOWED.
Irritating to skin and eyes.
Remove contaminated clothing and shoes.
Flush affected areas with plenty of water.
IF IN EYES, hold eyelids open and flush with plenty of water.
IF SWALLOWED and victim is CONSCIOUS, have victim drink water or milk and have victim induce vomiting.
IF SWALLOWED and victim is UNCONSCIOUS OR HAVING CONVULSIONS, do nothing except keep victim warm.

Water Pollution

HARMFUL TO AQUATIC LIFE IN VERY LOW CONCENTRATIONS.
May be dangerous if it enters water intakes.
Notify local health and wildlife officials.
Notify operators of nearby water intakes.

1. RESPONSE TO DISCHARGE

(See Response Methods Handbook, CG 446-4)

Issue warning—water contaminant
Restrict access
Should be removed
Chemical and physical treatment

2. LABELS

No hazard label required by Code of Federal Regulations

3. CHEMICAL DESIGNATIONS

3.1 **Synonyms:** Arasan; Bis(dimethylthiocarbamoyl) disulfide; Bis(dimethylthiocarbamyl) disulfide; Methyl thiram; Methyl tuads; Tetramethylthiuram disulfide; Thiuram

3.2 **Coast Guard Compatibility Classification:** Not applicable

3.3 **Chemical Formula:** $(CH_3)_2NC(S)SSC(S)N(CH_3)_2$ or $C_6H_{12}N_2S_4$

(Continued on page 4)

4. OBSERVABLE CHARACTERISTICS

4.1 **Physical State (as shipped):** Solid

4.2 **Color:** White to slightly yellow

4.3 **Odor:** *Data not available*

5. HEALTH HAZARDS

5.1 **Personal Protective Equipment:** Rubber gloves; goggles; dust mask

5.2 **Symptoms Following Exposure:** Inhalation of dust may cause respiratory irritation. Liquid irritates eyes and skin and may cause allergic eczema in sensitive individuals. Ingestion causes nausea, vomiting, and diarrhea, all of which may be persistent; paralysis may develop.

5.3 **Treatment for Exposure:** INHALATION: remove victim from exposure; if breathing has stopped or is difficult, give artificial respiration and call physician. EYES or SKIN: wash with water; if irritation persists, consult a physician. INGESTION: call physician, induce vomiting and follow with gastric lavage; treatment thereafter is symptomatic and supportive; avoid fats, oils, and lipid solvents, which enhance absorption; rigorously prohibit ethyl alcohol in all forms for at least 10 days; inform doctor if patient has used alcohol within 48 hrs.

5.4 **Toxicity by Inhalation (Threshold Limit Value):** 5 mg/m³

5.5 **Short-Term Inhalation Limits:** Data not available

5.6 **Toxicity by Ingestion:** Grade 2, oral LD_{50} = 560 mg/kg (rat); 375-865 mg/kg (mammal)

5.7 **Late Toxicity:** Causes birth defects in mice and hamsters

5.8 **Vapor (Gas) Irritant Characteristics:** Data not available

5.9 **Liquid or Solid Irritant Characteristics:** Data not available

5.10 **Odor Threshold:** Data not available

6. FIRE HAZARDS

6.1 **Flash Point:** Not pertinent (solid)

6.2 **Flammable Limits in Air:** Not pertinent

6.3 **Fire Extinguishing Agents:** Water, dry chemical, carbon dioxide

6.4 **Fire Extinguishing Agents Not to be Used:** Not pertinent

6.5 **Special Hazards of Combustion Products:** Toxic and irritating oxides of sulfur are formed. Carbon disulfide may be formed from unburned material.

6.6 **Behavior in Fire:** *Not pertinent*

6.7 **Ignition Temperature:** Data not available

6.8 **Electrical Hazard:** Not pertinent

6.9 **Burning Rate:** Not pertinent

7. CHEMICAL REACTIVITY

7.1 **Reactivity with Water:** No reaction

7.2 **Reactivity with Common Materials:** No reaction

7.3 **Stability During Transport:** Stable

7.4 **Neutralizing Agents for Acids and Caustics:** Not pertinent

7.5 **Polymerization:** Not pertinent

7.6 **Inhibitor of Polymerization:** Not pertinent

8. WATER POLLUTION

8.1 **Aquatic Toxicity:** 0.76 ppm/96 hr/catfish/TL_m/fresh water

8.2 **Waterfowl Toxicity:** LD_{50} = 2800 mg/kg

8.3 **Biological Oxygen Demand (BOD):** Data not available

8.4 **Food Chain Concentration Potential:** None

9. SELECTED MANUFACTURERS

1. Pennwalt Corporation
   Chemicals Division
   Three Parkway
   Philadelphia, Pa. 19102
2. E. I. duPont de Nemours & Co
   Wilmington, Del 19898
3. R. T. Vanderbilt Co., Inc.
   230 Park Avenue
   New York, N. Y. 10017

10. SHIPPING INFORMATION

10.1 **Grades of Purity:** 98% plus 2% oil

10.2 **Storage Temperature:** Ambient

10.3 **Inert Atmosphere:** No requirement

10.4 **Venting:** Pressure-vacuum

11. HAZARD ASSESSMENT CODE

(See Hazard Assessment Handbook, CG 446-3)

II

12. HAZARD CLASSIFICATIONS

12.1 **Code of Federal Regulations:** ORM A

12.2 **NAS Hazard Rating for Bulk Water Transportation:** Not listed

12.3 **NFPA Hazard Classifications:** Not listed

13. PHYSICAL AND CHEMICAL PROPERTIES

13.1 **Physical State at 15°C and 1 atm:** Solid

13.2 **Molecular Weight:** 240.4

13.3 **Boiling Point at 1 atm:** Not pertinent (decomposes)

13.4 **Freezing Point:** 288—313°F = 142—156°C = 415—429°K

13.5 **Critical Temperature:** Not pertinent

13.6 **Critical Pressure:** Not pertinent

13.7 **Specific Gravity:** 1.43 at 20°C (solid)

13.8 **Liquid Surface Tension:** Not pertinent

13.9 **Liquid-Water Interfacial Tension:** Not pertinent

13.10 **Vapor (Gas) Specific Gravity:** Not pertinent

13.11 **Ratio of Specific Heats of Vapor (Gas):** Not pertinent

13.12 **Latent Heat of Vaporization:** Not pertinent

13.13 **Heat of Combustion:** Data not available

13.14 **Heat of Decomposition:** Not pertinent

13.15 **Heat of Solution:** Not pertinent

13.16 **Heat of Polymerization:** Not pertinent

(Continued on pages 5 and 6)

3. CHEMICAL DESIGNATIONS (Cont'd.)

3.4 **IMCO/United Nations Numerical Designation:** 6.1/1609

TOL — TOLUENE

Common Synonyms
Toluol
Methylbenzene
Methylbenzol

Watery liquid | Colorless | Pleasant odor

Floats on water. Flammable, irritating vapor is produced.

Stop discharge if possible. Keep people away.
Shut off ignition sources and call fire department.
Stay upwind and use water spray to "knock down" vapor.
Avoid contact with liquid and vapor.
Isolate and remove discharged material.
Notify local health and pollution control agencies.

Fire

FLAMMABLE.
Flashback along vapor trail may occur.
Vapor may explode if ignited in an enclosed area.
Wear goggles and self-contained breathing apparatus.
Extinguish with dry chemical, foam, or carbon dioxide.
Water may be ineffective on fire.
Cool exposed containers with water.

Exposure

CALL FOR MEDICAL AID.

VAPOR
Irritating to eyes, nose and throat.
If inhaled, will cause nausea, vomiting, headache, dizziness, difficult breathing, or loss of consciousness.
Move to fresh air.
If breathing has stopped, give artificial respiration.
If breathing difficult, give oxygen.

LIQUID
Irritating to skin and eyes.
If swallowed, will cause nausea, vomiting or loss of consciousness.
Remove contaminated clothing and shoes.
Flush affected areas with plenty of water.
IF IN EYES, hold eyelids open and flush with plenty of water.
IF SWALLOWED and victim is CONSCIOUS, have victim drink water or milk.
DO NOT INDUCE VOMITING.

Water Pollution

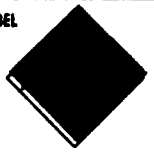
Dangerous to aquatic life in high concentrations.
Fouling to shoreline.
May be dangerous if it enters water intakes.
Notify local health and wildlife officials.
Notify operators of nearby water intakes.

1. RESPONSE TO DISCHARGE

(See Response Methods Handbook, CG 446-4)

Issue warning: high flammability
Evacuate area

2. LABEL



3. CHEMICAL DESIGNATIONS

3.1 **Synonyms:** Methylbenzene, Methylbenzol, Toluol
3.2 **Coast Guard Compatibility Classification:** Aromatic hydrocarbon
3.3 **Chemical Formula:** $C_6H_5CH_3$
3.4 **IMCO/United Nations Numerical Designation:** 3.2/1294

4. OBSERVABLE CHARACTERISTICS

4.1 **Physical State (as shipped):** Liquid
4.2 **Color:** Colorless
4.3 **Odor:** Pungent; aromatic, benzene-like, distinct, pleasant

5. HEALTH HAZARDS

5.1 **Personal Protective Equipment:** Air-supplied mask; goggles or face shield; plastic gloves
5.2 **Symptoms Following Exposure:** Vapors irritate eyes and upper respiratory tract; cause dizziness, headache, anesthesia, respiratory arrest. Liquid irritates eyes and causes drying of skin. If aspirated, causes coughing, gagging, distress, and rapidly developing pulmonary edema. If ingested causes vomiting, griping, diarrhea, depressed respiration.
5.3 **Treatment for Exposure:** INHALATION: remove to fresh air, give artificial respiration and oxygen if needed; call a doctor. INGESTION: do NOT induce vomiting, call a doctor. EYES: flush with water for at least 15 min. SKIN: wipe off, wash with soap and water.
5.4 **Toxicity by Inhalation (Threshold Limit Value):** 100 ppm
5.5 **Short-Term Inhalation Limits:** 600 ppm for 30 min
5.6 **Toxicity by Ingestion:** Grade 2, LD_{50} 0.5 to 5 g/kg
5.7 **Late Toxicity:** Kidney and liver damage may follow ingestion.
5.8 **Vapor (Gas) Irritant Characteristics:** Vapors cause a slight smarting of the eyes or respiratory system if present in high concentrations. The effect is temporary.
5.9 **Liquid or Solid Irritant Characteristics:** Minimum hazard. If spilled on clothing and allowed to remain, may cause smarting and reddening of the skin.
5.10 **Odor Threshold:** 0.17 ppm

6. FIRE HAZARDS

6.1 **Flash Point:** 40°F C.C., 55°F O.C.
6.2 **Flammable Limits in Air:** 1.27% - 7%
6.3 **Fire Extinguishing Agents:** Carbon dioxide or dry chemical for small fires, ordinary foam for large fires.
6.4 **Fire Extinguishing Agents Not to be Used:** Water may be ineffective.
6.5 **Special Hazards of Combustion Products:** Not pertinent.
6.6 **Behavior in Fire:** Vapor is heavier than air and may travel a considerable distance to a source of ignition and flash back.
6.7 **Ignition Temperature:** 997°F
6.8 **Electrical Hazard:** Class I, Group D
6.9 **Burning Rate:** 5.7 mm/min

7. CHEMICAL REACTIVITY

7.1 **Reactivity with Water:** No reaction
7.2 **Reactivity with Common Materials:** No reaction
7.3 **Stability During Transport:** Stable
7.4 **Neutralizing Agents for Acids and Caustics:** Not pertinent
7.5 **Polymerization:** Not pertinent
7.6 **Inhibitor of Polymerization:** Not pertinent

8. WATER POLLUTION

8.1 **Aquatic Toxicity:** 1180 mg/l /96 hr/sunfish/TL_m/fresh water
8.2 **Waterfowl Toxicity:** Data not available
8.3 **Biological Oxygen Demand (BOD):** 0%, 5 days; 38% (theor.), 8 days
8.4 **Food Chain Concentration Potential:** None

9. SELECTED MANUFACTURERS

1. Exxon Chemical Co.
   Houston, Tex. 77001
2. Shell Chemical Co.
   Petrochemicals Division
   Houston, Tex. 77001
3. Sun Oil Co.
   St. Davids, Pa. 19087

10. SHIPPING INFORMATION

10.1 **Grades or Purity:** Research, reagent, nitration: all 99.8+%; industrial contains 94+%, with 5% xylene and small amounts of benzene and nonaromatic hydrocarbons; 90/120, less pure than industrial.
10.2 **Storage Temperature:** Ambient
10.3 **Inert Atmosphere:** No requirement
10.4 **Venting:** Open (flame arrester) or pressure-vacuum

11. HAZARD ASSESSMENT CODE

(See Hazard Assessment Handbook, CG 446-3)

A-T-U

12. HAZARD CLASSIFICATIONS

12.1 **Code of Federal Regulations:** Flammable liquid
12.2 **NAS Hazard Rating for Bulk Water Transportation:**

Category	Rating
Fire	3
Health	
Vapor Irritant	1
Liquid or Solid Irritant	1
Poisons	2
Water Pollution	
Human Toxicity	1
Aquatic Toxicity	3
Aesthetic Effect	2
Reactivity	
Other Chemicals	1
Water	0
Self-Reaction	0

12.3 **NFPA Hazard Classifications:**

Category	Classification
Health Hazard (Blue)	2
Flammability (Red)	3
Reactivity (Yellow)	0

13. PHYSICAL AND CHEMICAL PROPERTIES

13.1 **Physical State at 15°C and 1 atm:** Liquid
13.2 **Molecular Weight:** 92.14
13.3 **Boiling Point at 1 atm:** 231.1°F = 110.6°C = 383.8°K
13.4 **Freezing Point:** −139°F = −95.0°C = 178.2°K
13.5 **Critical Temperature:** 605.4°F = 318.6°C = 591.8°K
13.6 **Critical Pressure:** 596.1 psia = 40.55 atm = 4.108 MN/m²
13.7 **Specific Gravity:** 0.867 at 20°C (liquid)
13.8 **Liquid Surface Tension:** 29.0 dynes/cm = 0.0290 N/m at 20°C
13.9 **Liquid-Water Interfacial Tension:** 36.1 dynes/cm = 0.0361 N/m at 25°C
13.10 **Vapor (Gas) Specific Gravity:** Not pertinent
13.11 **Ratio of Specific Heats of Vapor (Gas):** 1.089
13.12 **Latent Heat of Vaporization:** 155 Btu/lb = 86.1 cal/g = 3.61 × 10⁵ J/kg
13.13 **Heat of Combustion:** −17,430 Btu/lb = −9686 cal/g = −405.5 × 10³ J/kg
13.14 **Heat of Decomposition:** Not pertinent
13.15 **Heat of Solution:** Not pertinent
13.16 **Heat of Polymerization:** Not pertinent

(Continued on pages 5 and 6)

NOTES

REVISED 1978

TCE TRICHLOROETHANE

Common Synonyms			
1,1,1 Trichloroethane Methylchloroform	Watery liquid	Colorless	Sweet odor
	Sinks in water. Irritating vapor is produced.		

Stop discharge if possible. Keep people away.
Avoid contact with liquid and vapor.
Call fire department.
Isolate and remove discharged material.
Notify local health and pollution control agencies.

Fire

Combustible.
POISONOUS GASES ARE PRODUCED IN FIRE
Wear goggles and self-contained breathing apparatus
Extinguish with dry chemical, carbon dioxide, or foam

Exposure

CALL FOR MEDICAL AID

VAPOR
Irritating to eyes, nose and throat.
If inhaled, will cause dizziness or difficult breathing.
Move to fresh air.
If breathing has stopped, give artificial respiration.
If breathing is difficult, give oxygen

LIQUID
Irritating to skin and eyes.
If swallowed, may produce nausea.
Remove contaminated clothing and shoes.
Flush affected areas with plenty of water
IF IN EYES, hold eyelids open and flush with plenty of water.
IF SWALLOWED and victim is CONSCIOUS, have victim drink water or milk and have victim induce vomiting.
IF SWALLOWED and victim is UNCONSCIOUS OR HAVING CONVULSIONS, do nothing except keep victim warm.

Water Pollution

Effect of low concentrations on aquatic life is unknown
May be dangerous if it enters water intakes.
Notify local health and wildlife officials.
Notify operators of nearby water intakes

1. RESPONSE TO DISCHARGE

(See Response Methods Handbook, CG 446-4)

Should be removed
Chemical and physical treatment

2. LABELS

No hazard label required by Code of Federal Regulations

3. CHEMICAL DESIGNATIONS

3.1 **Synonyms:** Acrothene
Chlorothene
Methyl chloroform
1,1,1-Trichloroethane

3.2 **Coast Guard Compatibility Classification:** Halogenated hydrocarbon

3.3 **Chemical Formula:** CH_3CCl_3

3.4 ***IMCO/United Nations* Numerical Designation:** Not listed

4. OBSERVABLE CHARACTERISTICS

4.1 **Physical State (as shipped):** Liquid

4.2 **Color:** Colorless

4.3 **Odor:** Chloroform-like, sweetish

5. HEALTH HAZARDS

5.1 **Personal Protective Equipment:** Organic vapor-acid gas canister, self-contained breathing apparatus for emergencies, neoprene or polyvinyl-alcohol-type gloves, chemical safety goggles and face shield, neoprene safety shoes (or leather safety shoes plus neoprene footwear), neoprene or polyvinyl alcohol suit or apron for splash protection

5.2 **Symptoms Following Exposure:** INHALATION: symptoms range from loss of equilibrium and incoordination to loss of consciousness, high concentration can be fatal due to simple asphyxiation combined with loss of consciousness. INGESTION: produces effects similar to inhalation and may cause some feeling of nausea. EYES: slightly irritating and lachrymatory. SKIN: defatting action may cause dermatitis

5.3 **Treatment for Exposure:** Get medical attention for all eye exposures and any other serious overexposures. Do NOT administer adrenalin or epinephrine, otherwise, treatment is symptomatic. INHALATION: remove victim to fresh air; if necessary, apply artificial respiration and/or administer oxygen. INGESTION: have victim drink water and induce vomiting. EYES: flush thoroughly with water. SKIN: remove contaminated clothing and wash exposed area thoroughly with soap and warm water.

5.4 **Toxicity by Inhalation (Threshold Limit Value):** 350 ppm

5.5 **Short-Term Inhalation Limits:** 1000 ppm for 60 min. in man

5.6 **Toxicity by Ingestion:** Grade 1, LD_{50} 5 to 15 g/kg (rat, mouse, rabbit, guinea pig)

5.7 **Late Toxicity:** Data not available

5.8 **Vapor (Gas) Irritant Characteristics:** Vapors cause a slight smarting of the eyes or respiratory system if present in high concentrations. The effect is temporary

(Continued on page 4)

6. FIRE HAZARDS

6.1 **Flash Point:** Data not available

6.2 **Flammable Limits in Air:** 7% - 16%

6.3 **Fire Extinguishing Agents:** Dry chemical, foam, or carbon dioxide

6.4 **Fire Extinguishing Agents Not to be Used:** Not pertinent

6.5 **Special Hazards of Combustion Products:** Toxic and irritating gases are generated in fires.

6.6 **Behavior in Fire:** Not pertinent

6.7 **Ignition Temperature:** 932°F

6.8 **Electrical Hazard:** Not pertinent

6.9 **Burning Rate:** (est.) 2.9 mm/min.

7. CHEMICAL REACTIVITY

7.1 **Reactivity with Water:** Reacts slowly, releasing corrosive hydrochloric acid

7.2 **Reactivity with Common Materials:** *Corrodes aluminum, but reaction is* not hazardous.

7.3 **Stability During Transport:** Stable

7.4 **Neutralizing Agents for Acids and Caustics:** Not pertinent

7.5 **Polymerization:** Not pertinent

7.6 **Inhibitor of Polymerization:** Not pertinent

8. WATER POLLUTION

8.1 **Aquatic Toxicity:**
75 - 150 ppm/*/pinfish/TL_m/salt water
*Time period not specified.

8.2 **Waterfowl Toxicity:** Data not available

8.3 **Biological Oxygen Demand (BOD):** Data not available

8.4 **Food Chain Concentration Potential:** None

9. SELECTED MANUFACTURERS

1. Dow Chemical Co.
Midland, Mich. 48640
2. PPG Industries, Inc.
Industrial Chemicals Division
1 Gateway Center
Pittsburgh, Pa. 15222
3. Vulcan Materials Co.
Chemicals Division
Wichita, Kan. 67201

10. SHIPPING INFORMATION

10.1 **Grades or Purity:** Uninhibited, inhibited; industrial inhibited, white room, cold cleaning

10.2 **Storage Temperature:** Ambient

10.3 **Inert Atmosphere:** No requirement

10.4 **Venting:** Pressure-vacuum

11. HAZARD ASSESSMENT CODE

(See Hazard Assessment Handbook, CG 446-3)

A-X-Y

12. HAZARD CLASSIFICATIONS

12.1 **Code of Federal Regulations:** Not listed

12.2 **NAS Hazard Rating for Bulk Water Transportation:**

Category	Rating
Fire	1
Health	
Vapor Irritant	1
Liquid or Solid Irritant	1
Poisons	2
Water Pollution	
Human Toxicity	1
Aquatic Toxicity	3
Aesthetic Effect	2
Reactivity	
Other Chemicals	1
Water	0
Self Reaction	0

12.3 **NFPA Hazard Classifications:** Not listed

13. PHYSICAL AND CHEMICAL PROPERTIES

13.1 **Physical State at 15°C and 1 atm:** Liquid

13.2 **Molecular Weight:** 133.41

13.3 **Boiling Point at 1 atm:** 165°F = 74°C = 347°K

13.4 **Freezing Point:** $< -38°F = < -39°C = < 234°K$

13.5 **Critical Temperature:** Not pertinent

13.6 **Critical Pressure:** Not pertinent

13.7 **Specific Gravity:** 1.31 at 20°C (liquid)

13.8 **Liquid Surface Tension:** 25.4 dynes/cm = 0.0254 N/m at 20°C

13.9 **Liquid-Water Interfacial Tension:** (est.) 45 dynes/cm = 0.045 N/m at 20°C

13.10 **Vapor (Gas) Specific Gravity:** 4.6

13.11 **Ratio of Specific Heats of Vapor (Gas):** 1.104

13.12 **Latent Heat of Vaporization:** 100 Btu/lb = 58 cal/g = 2.4×10^2 J/kg

13.13 **Heat of Combustion:** (est.) 4700 Btu/lb = 2600 cal/g = 110×10^3 J/kg

13.14 ***Heat of* Decomposition:** Not pertinent

13.15 **Heat of Solution:** Not pertinent

13.16 **Heat of Polymerization:** Not pertinent

(Continued on pages 5 and 6)

5. HEALTH HAZARDS (Cont'd.)

5.9 **Liquid or Solid Irritant Characteristics:** Minimum hazard. If spilled on clothing and allowed to remain, may cause smarting and reddening of the skin

5.10 **Odor Threshold:** 100 ppm

TCL

TRICHLOROETHYLENE

Common Synonyms
Trichloroethene
Triclene

Watery liquid | Colorless | Sweet odor

Sinks in water. Irritating vapor is produced.

Stop discharge if possible. Keep people away.
Avoid contact with liquid and vapor.
Call fire department.
Isolate and remove discharged material.
Notify local health and pollution control agencies.

Fire

Combustible.
POISONOUS GASES ARE PRODUCED IN FIRE.
Wear goggles and self-contained breathing apparatus
Extinguish with dry chemical, carbon dioxide, or foam.

Exposure

CALL FOR MEDICAL AID.

VAPOR
Irritating to eyes, nose and throat.
If inhaled, will cause nausea, vomiting, difficult breathing, or loss of consciousness.
Move to fresh air.
If breathing has stopped, give artificial respiration.
If breathing is difficult, give oxygen.

LIQUID
Irritating to skin and eyes.
If swallowed, will cause nausea, vomiting, difficult breathing, or loss of consciousness.
Remove contaminated clothing and shoes.
Flush affected areas with plenty of water.
IF IN EYES, hold eyelids open and flush with plenty of water.
IF SWALLOWED and victim is CONSCIOUS, have victim drink water or milk and have victim induce vomiting.
IF SWALLOWED and victim is UNCONSCIOUS OR HAVING CONVULSIONS, do nothing except keep victim warm.

Water Pollution

Effect of low concentrations on aquatic life is unknown.
May be dangerous if it enters water intakes.
Notify local health and wildlife officials.
Notify operators of nearby water intakes.

1. RESPONSE TO DISCHARGE

(See Response Methods Handbook, CG 446-4)

Should be removed
Chemical and physical treatment

2. LABELS

No hazard label required by Code of Federal Regulations

3. CHEMICAL DESIGNATIONS

3.1 **Synonyms:** Algylen, Chlorylen; Gemalgene; Threthylene, Trethylene, Tri, Trichloran, Trichloroethene; Tri-Clene, Trielene, Trilene, Triline; Trimar

3.2 **Coast Guard Compatibility Classification:** Halogenated hydrocarbon

3.3 **Chemical Formula:** $CHCl{=}CCl_2$

3.4 **IMCO/United Nations Numerical Designation:** 9.0/1710

4. OBSERVABLE CHARACTERISTICS

4.1 **Physical State (as shipped):** Liquid

4.2 **Color:** Colorless

4.3 **Odor:** Chloroform-like, ethereal

5. HEALTH HAZARDS

5.1 **Personal Protective Equipment:** Organic vapor-acid gas canister, self-contained breathing apparatus for emergencies, neoprene or vinyl gloves, chemical safety goggles, face-shield, neoprene safety shoes, neoprene suit or apron for splash protection

5.2 **Symptoms Following Exposure:** INHALATION: symptoms range from irritation of the nose and throat to nausea, an attitude of irresponsibility, blurred vision, and finally disturbance of central nervous system resulting in cardiac failure. Chronic exposure may cause organic injury. INGESTION: symptoms similar to inhalation. SKIN: defatting action can cause dermatitis. EYES: slightly irritating sensation and lachrymation.

5.3 **Treatment for Exposure:** Do NOT administer adrenalin or epinephrine; get medical attention for all cases of overexposure. INHALATION: remove victim to fresh air, if necessary, apply artificial respiration and/or administer oxygen. INGESTION: have victim drink water and induce vomiting; repeat three times, then give 1 tablespoon epsom salts in water. EYES: flush thoroughly with water. SKIN: wash thoroughly with soap and warm water.

5.4 **Toxicity by Inhalation (Threshold Limit Value):** 100 ppm

5.5 **Short-Term Inhalation Limits:** 200 ppm for 30 min

5.6 **Toxicity by Ingestion:** Grade 3, LD_{50} 50 to 500 mg/kg

5.7 **Late Toxicity:** Data not available

5.8 **Vapor (Gas) Irritant Characteristics:** Vapors cause a slight smarting of the eyes or respiratory system if present in high concentrations. The effect is temporary.

5.9 **Liquid or Solid Irritant Characteristics:** Minimum hazard. If spilled on clothing and allowed to remain, may cause smarting and reddening of the skin.

5.10 **Odor Threshold:** 50 ppm

6. FIRE HAZARDS

6.1 **Flash Point:** 90°F C.C., practically nonflammable

6.2 **Flammable Limits in Air:** 8.0% - 10.5%

6.3 **Fire Extinguishing Agents:** Water fog

6.4 **Fire Extinguishing Agents Not to be Used:** Not pertinent

6.5 **Special Hazards of Combustion Products:** Toxic and irritating gases are produced in fire situations

6.6 **Behavior in Fire:** Not pertinent

6.7 **Ignition Temperature:** 770 °F

6.8 **Electrical Hazard:** Not pertinent

6.9 **Burning Rate:** Not pertinent

7. CHEMICAL REACTIVITY

7.1 **Reactivity with Water:** No reaction

7.2 **Reactivity with Common Materials:** No reaction

7.3 **Stability During Transport:** Stable

7.4 **Neutralizing Agents for Acids and Caustics:** Not pertinent

7.5 **Polymerization:** Not pertinent

7.6 **Inhibitor of Polymerization:** Not pertinent

8. WATER POLLUTION

8.1 **Aquatic Toxicity:** 660 mg/l /40 hr/daphnia/kill/fresh water

8.2 **Waterfowl Toxicity:** Data not available

8.3 **Biological Oxygen Demand (BOD):** Data not available

8.4 **Food Chain Concentration Potential:** None

9. SELECTED MANUFACTURERS

1 Dow Chemical Co.
Midland, Mich 48640

2 E. I. duPont de Nemours & Co., Inc.
Electrochemicals Dept.
Wilmington, Del 19898

3 PPG Industries Inc
Industrial Chemical Division
Lake Charles, La. 70601

10. SHIPPING INFORMATION

10.1 **Grades or Purity:** Technical, dry cleaning; degreasing; extraction

10.2 **Storage Temperature:** Ambient

10.3 **Inert Atmosphere:** No requirement

10.4 **Venting:** Pressure-vacuum

11. HAZARD ASSESSMENT CODE

(See Hazard Assessment Handbook, CG 446-3)

A-X-Y

12. HAZARD CLASSIFICATIONS

12.1 **Code of Federal Regulations:** ORM -A

12.2 **NAS Hazard Rating for Bulk Water Transportation:**

Category	Rating
Fire	1
Health	
Vapor Irritant	1
Liquid or Solid Irritant	1
Poisons	2
Water Pollution	
Human Toxicity	1
Aquatic Toxicity	2
Aesthetic Effect	2
Reactivity	
Other Chemicals	1
Water	0
Self-Reaction	1

12.3 **NFPA Hazard Classifications:** Not listed

13. PHYSICAL AND CHEMICAL PROPERTIES

13.1 **Physical State at 15°C and 1 atm:** Liquid

13.2 **Molecular Weight:** 131.39

13.3 **Boiling Point at 1 atm:** 189°F = 87°C = 360°K

13.4 **Freezing Point:** −123.5°F = −86.4°C = 186.8°K

13.5 **Critical Temperature:** Not pertinent

13.6 **Critical Pressure:** Not pertinent

13.7 **Specific Gravity:** 1.46 at 20°C (liquid)

13.8 **Liquid Surface Tension:** 29.3 dynes/cm = 0.0293 N/m at 20°C

13.9 **Liquid-Water Interfacial Tension:** 34.5 dynes/cm = 0.0345 N/m at 24°C

13.10 **Vapor (Gas) Specific Gravity:** 4.5

13.11 **Ratio of Specific Heats of Vapor (Gas):** 1.116

13.12 **Latent Heat of Vaporization:** 103 Btu/lb = 57.2 cal/g = 2.40 × 10^5 J/kg

13.13 **Heat of Combustion:** Not pertinent

13.14 **Heat of Decomposition:** Not pertinent

13.15 **Heat of Solution:** Not pertinent

13.16 **Heat of Polymerization:** Not pertinent

(Continued on pages 5 and 6)

NOTES

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ANNEX IV

LISTING OF CONTAINMENT FACILITIES LOCATED AT SCOTT AFB

Location	Type of Facilities	Effluent Connection	Grid Coordinates
Bldg 45	Oil Separator	Storm Sewer	
Bldg 53	Grease Trap	Sanitary Sewer	
Bldg 433	Oil Separator	Sanitary Sewer	
Bldg 545	Oil Separator	Storm Sewer	
Bldg 546	Oil Separator	Storm Sewer	
Bldg 548	Oil Separator		
Bldg 1907	Grease Trap/ Oil Separator	Sanitary Sewer	
Bldg 1989	Oil Separator	Sanitary Sewer	
Ash Creek	Radial Gate	Ash Creek	
South Ditch	Radial Gate	Silver Creek	
Tributary Creek	Radial Gate	Silver Creek	

ANNEX V

SPILL RESPONSE EQUIPMENT INVENTORY

Equipment or Material	Size	Quantity	Location	Custody	Condition
Dozer	D-6	1	CE Compound	Equipment Shop	
Backhoe		3	CE Compound	Equipment Shop	
Grade-All	-	1	CE Compound	Equipment Shop	
Front End Loader	1½ cy	1	CE Compound	Equipment Shop	
Grader	-	2	CE Compound	Equipment Shop	
Dump Trucks	5 ton	10	CE Compound	Equipment Shop	
Misc Hand Tools	-	-	Bldg 537/ Bldg 517	Grounds Shop	
Sandbags	25 lbs	20	Bldg 515	Grounds Shop	
Sand	200 tons		CE Compound	Grounds Shop	
Bowsers	300 gals	1	Aqua Yard	Liquid Fuses	
Water Tank Truck	1800 gals	1	CE Compound	Pavements	
Portable Fuel Pumps	180 gal/min 340 gal/min	3	Bldg 537	Liquid Fuels	

Equipment or Material	Size	Quantity	Location	Custody	Condition
Absorbant Booms	10'x8" Length/dia	16	Bldg 537	Liquid Fuels	
Absorbant Rolls	3/8"x18'x 100'	8	Bldg 537	Liquid Fuels	
Absorbant Material	10 lb	15	GOCESS	Material Control	
Construction Barriers				Pavements	
Absorbant Pads	18"x18"x¼"	600	Bldg 537	Liquid Fuels	
Protective Clothings Suits Boots Gloves	Awaiting Guidance from HQMAC				
Self-Contained Breathing Apparatus	-	23	Bldg 4601	Fire Department	
Fire Trucks					
P-2	AFFF H20	2	Bldg 460	Fire Department	
P-19	AFFF Halon	2	Bldg 460	Fire Department	
P-13	Halon Dry Chem	2	Bldg 460	Fire Department	
P-8	AFFF H20	1	Bldg 460	Fire Department	
P-12	AFFF H20	1	Bldg 460	Fire Department	
P-10	Rescue	1	Bldg 460	Fire Department	

ANNEX VI

SUMMARY OF SCOTT AFB SPILL RESPONSE TEAM (SRT)
ORGANIZATIONS AND CURRENT TELEPHONE CONTACT NUMBERS

In the event of a significant oil or hazardous substance spill requiring the activation of the SRT, the following personnel or organizations will be contacted as authorized by the Commander 375 ABG, Base Fire Chief, Base Civil Engineer or Environmental Coordinator. The listing in this Annex required routine updating to insure all telephone number remain current. Radio notification may also be utilized in addition to telephone contacts.

	SRT Organizations and Personnel	On-Duty Extension
1.	Commander 375 Air Base Group (Primary OSC)	63283
2.	Base Civil Engineer (1st Alternate OSC) CE Service Desk	62701
3.	Base Fire Department, 24 hrs	On-base: 117 From Off-base: 744-1117
4.	Environmental Coordinator	62092
5.	Bioenvironmental Engineer	67307
6.	Disaster Preparedness Office	64831
7.	Security Police	64883
8.	Liquid Fuels Maintenance Technician	64115
9.	Staff Judge Advocate/Legal Officer	62358
10.	Public Affairs Office	64206
11.	Safety Office	66311

	SRT Organizations and Personnel	On-Duty Extension
12.	Base Medical Center (Emergency)	On-base: 67595 Off-base: 746-7595
13.	Transportation Squadron	63201
14.	Photographic Laboratory	65667

ANNEX VII

SUMMARY LISTING OF OFF-BASE SPILL NOTIFICATION PROCEDURES AND RESPONSE ORGANIZATIONS

OFF-BASE REPORTABLE SPILL NOTIFICATION REQUIREMENTS

1. HQ MAC SCOTT AFB IL/DEEV — Duty Hours Autovon 65264
   Environmental Coordinator — Non-Duty Hours Autovon 63325

HQ MAC/DEEV should be contacted even if base personnel are uncertain of spill classifications. The purpose of the telecon is to verify spill classification when uncertainly exists and to gather available information on reportable spills to assist the initial command telecon report to USAF/LEEV. As much of the following information as can be reasonably determined should be initially reported:

a. Name of installation;

b. Location of incident and local geography;

c. OSC name and telephone number;

d. Date and time of spill;

e. Type and estimated quantity of spill substance;

f. Magnitude and severity of threat to public health, welfare and natural resources;

g. Weather conditions at the spill site;

h. Cause of incident;

i. Anticipated containment and clean-up action and effectiveness;

j. Need for assistance by Nation, Regional or State response teams;

k. Any other pertinent information.

2. "REPORTABLE SPILL" NOTIFICATION REQUIREMENTS

If spill is deemed a "Reportable Spill" by the OSC the following additional organizations and agencies will be notified promptly following telecon notifications of MAC/DEEV. The notification should include as much of the information outlined in Item 1 as possible.

Federal, State and Local Agencies:

National Response Center	(800) 424-8802
US EPA Region V Response Center	(312) 353-2318
Illinois Emergency Services & Disaster Agency	(800) 782-7860
Illinois EPA Emergency Response Unit	(217) 782-3637
St Clair Emergency Services & Disaster Agency	(618) 277-3012

Addition Air Force Organizations:

If spill is deemed a "Reportable Spill" by the OSC a confirming message containing the available information outlined below must be released and transmitted to the following organizations:

HQ MAC SCOTT AFB IL/DEEV/SGPAE

HQ USAF WASH DC/LEEV/SGES

HQ AFESC TYNDALL AFB FL/DEVP/PA/DEMM

HQ AFMSC BROOKS AFB TX/SGP

USAF OEHL BROOKS AFB TX/ECW

HQ USAF WASH DC/LEYF (When POL is involved)

HQ USAF WASH DC/RDCM (When industrial facilities are involved)

Contents of Confirming Message:

a. Name and address of installation and/or owner;

b. Name and telephone number of OSC;

c. Incident report (initial, second, third, final);

d. Date and time of incident;

e. Time of official spill notification to the National Response Center and other regional and state officials;

f. Location of incident and the nature of the terrain at the location, to include surface and subsurface drainage characteristics and relationships to water bodies (estimate extent of area affected such as miles of stream or acres of lake);

g. Weather conditions and how they affected response action;

h. Cause of incident;

i. Type and estimated amount (barrels, gallons, pounds) of pollutant and the official size classification (minor, medium, major);

j. Actual damage and/or potential threat to human life, to property (private, state, or Federal). and to plant or animal life;

k. Corrective action taken to eliminate pollution source;

l. Corrective action taken to remove pollutant;

m. Assistance required;

n. Estimated completion date of remedial actions and anticipated effectiveness;

o. Estimated quantity and disposition of spill material and contaminated soil;

p. Confirmation that emergency response equipment is back in operation before resuming operating activities;

q. Description of any problems encountered during implementation of the SPR plan and and explanation of how the Spill Prevention and Response Plan was, or will be, modified to prevent the recurrence of the spill event;

r. Anticipated or actual reaction by the news media and public to the incident (Specify potential for liability in the internal Air Force reports only);

s. A copy of this SPR Plan if requested.

The information will be transmitted in message format identified in AFR 19-8 within 4 hours of telecon notification to MAC/DEEV. If telecon notification is made after 1500 hours local, the message will be transmitted no later than 1000 hours the following day.

ANNEX VIII

MAPS INDEX

Map No.	Location	Title
Map 1	Inside back cover	Disaster Preparedness Grid Map
Map 2	Inside back cover	Drainage System
Map 3	Inside back cover	Sanitary Sewer System
Map 4	Inside back cover	Fuel Truck Routes (County)
Map 5	Inside back cover	Fuel Truck Routes (Base)

ANNEX IX

PLAN REVIEW AND UPDATE REPORTS/ SPILL INCIDENT POLLUTION REPORTS

ANNEX X

DISTRIBUTION LIST FOR SCOTT AFB OIL AND HAZARDOUS SUBSTANCE SPILL PREVENTION AND RESPONSE PLAN

ADDRESSEE	NO. OF COPIES
Illinois EPA 2200 Churchill Road Springfield, IL 62706	2
Illinois EPA 2009 Mall Street Collinsville, IL 62234	2
HQ MAC/DEEV	2
375 AAW/CC	2
375 AAW/SE/SEG	2
375 AAW/RM/LGC	2
375 AAW/DO/DOCP/DOX	3
375 AAW/LGS/LGSF	2
375 AAW/LGT/LGTM	2
375 AAW/MA/MAF/MAFF	3
375 AAW/PA	1
375 AAW/WE	1
375 ABG/CC	2
375 ABG/DE/DEM/MEMWW/DEMLF/DEF	5
375 ABG/DEEV	10
375 ABG/DW	1
375 ABG/JA	1
375 ABG/SP	1
	44

OPR: 375 ABG/DEEV

IL7570024177

Headquarters 375 Aeromedical Airlift Wing (MAC)
Scott Air Force Base, Illinios 62225-5000
January 86

375 ABG/DE
375 AAW OPLAN 198-85, Hazardous Waste Management Plan
See Distribution

1. The attached 375 AAW Hazardous Waste Management Plan 198-85, dated Jan 86, is effective upon receipt and supercedes the 375 ABG Hazardous Waste Management Plan, 19-8, dated Oct 82.

2. This plan identifies the responsibilities of Wing and Base agencies in support of hazardous waste management operations. Annex A identifies the tasked organizations.

3. Addresses are requested to advise 375 ABG/DEEV of any factors which may prevent the execution of this plan as presented. Submit recommendations within 60 days of receipt of this document.

4. This document is unclassified and does not come within the scope of directives governing the protection of information affecting the national security.

FOR THE COMMANDER

FLOYD A. ASHDOWN
Colonel, USAF
Base Civil Engineer

1 ATCH
375 AAW OPLAN 198-85

DEPARTMENT OF THE AIR FORCE

HEADQUARTERS 375 AEROMEDICAL AIRLIFT WING (MAC)

SCOTT AIR FORCE BASE, ILLINIOS 62225-5000

375 Aeromedical Airlift Wing Operations Plan 198-85

HAZARDOUS WASTE MANAGEMENT PLAN

January 1986

OPR: 375 ABG/DE

Headquarters 375 Aeromedical Airlift Wing (MAC)
Scott Air Force Base, Illinios 62225-5000
January 1986

375 AAW OPLAN 198-85
SECURITY INSTRUCTIONS

1. The long title of this document is 375 Aeromedical Airlift Wing Operations Plan 198-85. The short title is 375 AAW OPLAN 198-85. The title assigned this plan is Hazardous Waste Management.

2. The 375 ABG Civil Engineering Environmental Section (DEEV) is the office of primary responsibility. Recommendations/revisions pertaining to this document should be submitted to that office for action.

3. This document is unclassified and does not come within the scope of directives governing the protection of information affecting the national security. Although it is unclassified, it is FOR OFFICIAL USE ONLY and will be handled as directed by AFR 12-30 and AFR 12-31. The reproduction of this document in its entirety is forbidden except by authority of the office of origin. Commanders of Task Organizations and Friendly Forces may extract and reproduce those portions of this document essential in the accomplishment of necessary planning and in preparation of supporting documents.

4. Changes will be published, in letter format, by the OPR (DEEV) and forwarded to all recipients of the original operations plan.

Headquarters 375 Aeromedical Airlift Wing (MAC)
Scott Air Force Base, Illinios 62225-5000
January 1986

RECORD OF CHANGES

CHANGE NUMBER	COPY NUMBER	DATE ENTERED	POSTED BY

RECORD OF ANNUAL REVIEW

REVIEWED BY	DATE REVIEWED	REMARKS

After posting, file change sheets immediately behind front cover of the basic plan with most recent change on top.

Headquarters 375 Aeromedical Airlift Wing (MAC)
Scott Air Force Base, Illinios 62225-5000
January 1986

375 AAW OPLAN 198-85
PLAN SUMMARY

1. PURPOSE. The purpose of the 375 AAW OPLAN 198-85 is to establish procedures, assign responsibilities, and provides guidance for environmentally acceptable storage, transportation, and disposal of hazardous wastes on Scott AFB.

2. CONDITIONS FOR IMPLEMENTATION. This plan and its existing procedures will be followed by any organization that generates hazardous waste.

3. OPERATIONS TO BE CONDUCTED. Any organization generating hazardous waste must follow those actions stated in this plan.

4. KEY ASSUMPTIONS:

a. Adequate personnel and material will be available to support this plan.
b. Implementation of this plan will be by any organization generating hazardous waste.

5. OPERATIONAL CONSTRAINTS. In the event of a major hazardous waste spill, the present storage area (Bldg 59, Aqua Yard) may not have adequate storage space once clean-up operations are completed. The storage capacity of the aqua yard is 1980 gallons (36 -55 gal drums)

6. COMMAND RELATIONSHIPS. The Base Environmental Engineering Section (DEEV) is responsible for overall management of the hazardous waste management program. They are assisted by the Water and Waste Section (DEMWW) and the Defense Reutilization and Marketing Office (DRMO).

7. LOGISTIC APPRAISAL. This plan is logistical feasible.

8. PERSONNEL APPRAISAL. Adequate trained personnel are available.

9. CONSOLIDATE LISTING AND IMPACT ASSESSMENT OF SHORTFALLS AND LIMITING FACTORS. Removal of hazardous waste from Scott AFB is limited by the following:

a. Type of hazardous waste to be removed.
b. Timely and adequate test results of potential hazardous waste.
c. Coordination with general contractor to pick-up and remove hazardous waste in a timely matter.

Headquarters 375 Aeromedical Airlift Wing (MAC)
Scott Air Force Base, Illinios 62225-5000
January 1986

375 AAW OPLAN 198-85 - Hazardous Waste Management

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Headquarters 375 Aeromedical Airlift Wing (MAC)
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January 1986

375 AAW OPLAN 198-85 (OPR: 375 ABG/DE)
BASIC PLAN

REFERENCES: OPLAN 355-85, Base Disaster Preparedness Operations Plan
OPLAN 932-85, Base Recovery Plan
OPLAN 192-85, Spill Prevention Control and Countermeasures (SPCC) Plan

1. Resource Conservation and Recovery Act (RCRA) of 1976 - This is the legislation which is the basic rules generating document for the Management of Hazardous Waste.

2.40 Code of Federal Regulations (CFR) 260, 261, 262, 263, 264, and 265 - These are rules issued by the Environmental Protection Agency (EPA) to define the standards for Hazardous Waste Management.

3.49 CFR 171, 172, 173, 178 and 179 - These are rules issued by the Department of Transportation (DOT) which defines the standards for packaging and transporting of hazardous materials and waste.

4.Air Force Implementing Instructions 1 thru 4 issued by Headquarters Air Force Engineering and Services Center.

5.Defense Logistics Agency (DLA) guidance issued as a series of messages.

6.Illinois Environmental Protection Act, Public Act 76-2429, 1 July 1970.

NOTE: The above references,1-6, were used for the preparation of this plan. These references may be obtained for use, by any hazardous waste manager, from 375 ABG/JA.

TASKED ORGANIZATIONS. Annex A.

1. SITUATION.

a. General. It is the policy of Scott AFB to store, transport, and dispose of hazardous wastes in accordance with environmentally acceptable standards, rules, and regulations. Among the requirements of this policy are the following: (1) Minimize hazardous waste generation at the source by improving operations and maintenance procedures; (2) segregate storage of hazardous waste (separate 55 gallon drums) to minimize disposal problems; (3) prevent accidental spillage of hazardous wastes into floor drains or onto the ground; (4) follow the guidelines established by this plan in the storing, transporting, and disposing of hazardous wastes.

b. Enemy Forces. See referenced OPLANS.

c. Friendly Forces. See referenced OPLANS.

d. Definitions:

(1). Hazardous Waste. A hazardous waste is a hazardous material that no longer has a legitimate use on the installation or has become a waste product. The Resource Conservation and Recovery Act of 1976 provides the basic definition of a hazardous waste. This is further defined by 40 CFR Part 261 to include wastes specifically listed by the EPA and wastes that exhibited certain characteristics of ignitability, corrosivity, reactivity, or EP toxicity.

(2). Generator or Generating Activity. Any activity such as 375 AAW/MA, 375 ABG/DE, 375 AAW/LGS which utilizes hazardous materials and accumulates excesses due to overage, other product contamination, or by not being consumed in a finished product.

(3). Accumulation Point. That area in or near the work place where hazardous wastes are accumulated prior to transfer to the interim storage location.

(4). Hazardous Waste Manager. A single point of contact for each generating activity who is responsible for records keeping, organizational management, unit training, and liaison with other elements or organizations.

(5). Records Keeping. The process of implementing maintaining written data to track the storage and disposition of hazardous wastes.

(6). Disposal Agency. The Defense Reutilization and Marketing Office (DRMO) Scott is the agency responsible for the final disposal of hazardous wastes.

(7). Disposal and Turn In Document (DTID). (DD Form 1348-1). This is the document required to transfer accountability and/or physical custody of hazardous wastes to the disposal agency.

(8). Labeling. The process of container identification. The hazardous waste generating activity is responsible for properly labeling and identifying containers.

(9). Manifest. The document required to transport hazardous waste to and from the installation. (excludes on-base transportation)

(10). Recoverable Waste. Any waste which can be reclaimed under a plan or program such as the Scott Air Force Base Waste Petroleum Product Recovery Plan. Hazardous Waste managers must ensure that recoverable wastes are segregated and not contaminated with hazardous wastes.

(11). Exclusions. The following wastes are excluded management under this plan:

(a). Garbage

(b). Radioactive wastes

(c). Asbestos

(d). Recoverable petroleum products

(e). Munitions and explosives

(f). Domestic sewage

(g). Mining wastes

(h). Fly ash

(i). Drilling wastes

(j). Irrigation wastewater

2. MISSION. To insure all generators and/or generating activities at Scott AFB store, transport, and dispose of hazardous wastes in accordance with environmentally acceptable standards, rules, and regulations.

3. EXECUTION:

a. Hazardous Waste Criteria.

(1). For a waste to be called hazardous, it has to either be specifically listed by the EPA or it has to exhibit one or more of the following characteristics: ignitability, corrosivity, reactivity, or EP toxicity. If for some reason, a generating activity has doubts about a specific waste material as to whether or not that material is hazardous, call the Base Environmental Coordinator, extension 62092/64165. Precise chemical breakdown or label data must be available to determine whether or not the material is a hazardous waste. Additionally, the use of the material i.e. cleaning agent such as methyl ethyl ketone (MEK) used to clean fabric or rubber aircraft parts must be made known.

(2). Once the generator/generating activity has an identified hazardous waste, the packaging, storing, and disposing of that waste must be accomplished according to the guidance contained in this plan.

4. LOGISTICS AND ADMINISTRATION:

a. Logistics. All hazardous waste generators and generating activities will store hazardous waste in 55-gal drums until they are ready to be transported to the aqua yard. Once the 55-gal drums have been received at the aqua yard, personnel from the Base Civil Engineering Water and Waste Section, will transfer the 55-gal drum, if necessary, into a 85-gal recovery drum. These 85-gal drums will be stored until arrangements have been made, through the Defense Reutilization and Marketing Office (DRMO), for final removal from Scott AFB.

b. Records Keeping Procedures.

(1). Chronological Log. This is a manual log of all hazardous waste transactions using the DD Form 1348-1 (Turn-In-and-Disposal Document) as the initiating document. The log will be kept at each hazardous waste storage site (Bldg 540 and Aqua Yard) and will consist of the following information:

(a) Date waste initially received.

(b) Date waste dispatched from storage facility.

(c) Copy of DD Form 1348-1.

The information will be kept in a weatherproof container or inside the building for a period of three years or until the waste is removed from the storage site, whichever comes last.

(2). File of Completed DD Forms 1348-1. A file of completed DD Form 1348-1's, indicating final disposal of the hazardous waste, will be kept by the Defense Reutilization and Marketing Office (DRMO). If other manifest forms are used by disposal contractors, copies of these forms shall be maintained by DRMO for a three year period.

(3). Site Document File. This file will contain an accumulation of documents that are required to determine the status of the hazardous waste facility. The file of information, maintained by the Engineering and Environmental Planning Branch, Base Civil Engineering, will include:

(a) Operating permit.

(b) Procedures for closure and post-closure monitoring.

(c) Sampling results on hazardous wastes stored in the facilities.

(d) Annual reports and copies of inspection results.

5. COMMAND AND CONTROL. Overall management of the hazardous waste program for Scott AFB is the responsibility of the 375 ABG Civil Engineering Environmental Engineering Section (DEEV). It is their responsibility to monitor the program, provide updated EPA regulations, distribute and review this plan, and provide technical assistance to other organizations when requested.

OFFICIAL:

PELINI
Colonel
COMMANDER

FLOYD A. ASHDOWN, Colonel, USAF
Base Civil Engineer

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January 1986

ANNEX A 375 AAW OPLAN 198-85(OPR: 375 ABG/DE)
TASKED ORGANIZATIONS

375 AAW/CAMS
375 AAW/LGS
375 AAW/LGT
375 ABG/DEEV
375 ABG/DEMRG
375 ABG/DEMPA
375 ABG/DEMET
375 ABG/DEMHZ
375 ABG/DEMWW
375 ABG/DA
375 ABG/SS
USAF Scott Med Ctr/SGPB
Defense Reutilization and Marketing Office (DRMO)
Gates Learjet Aircraft Services Corporation
Beech Aerospace Services Incorporated
102 Army Air Reserve

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January 1986

ANNEX B TO 375 AAW OPLAN 198-85 (OPR: 375 ABG/DE)
ACCUMULATION POINT MANAGEMENT

1. General. The accumulation point is that area in or near the work place where hazardous wastes are accumulated prior to transfer to the interim storage location on the base. Storage in the accumulation point is temporary. Waste containers must be delivered to the interim storage facility no later than three days after the container is filled. This activity does not require a permit under RCRA, but it is subject to certain procedural requirements. Appendix 2 to this annex shows the location of all hazardous waste accumulation points.

2. Organizational Hazardous Waste Manager. Generating activities must identify in writing, a hazardous waste manager and alternate responsible for each accumulation point. A copy of this letter must be sent to the Base Environmental Coordinator, 375 ABG/DEEV. The hazardous waste manager/alternate has the following duties and responsibilities:

a. Assurance that wastes are placed in proper containers and date accumulation begins is posted on the container.

b. Assurance that hazard warnings are posted and containers are kept closed.

c. Assurance that wastes are kept segregated and that hazardous wastes are not comingled with non hazardous wastes i.e. trichloroethylene is not mixed in the same drum as PD 680.

d. Inspection of containers on a weekly basis and remedial action initiated for leaks, spills, or improper storage.

e. Documentation of weekly inspections on the Hazardous Waste Management Inspection Log shown in Annex E.

f. Notification of proper installation authority in event of spills. Refer to Scott AFB OPLAN 191-85 to implement spills control plan.

g. Assurance that the hazardous wastes generated at that facility are transferred to the Aqua Yard Storage Facility within three calendar days of the date maximum quantity is reached. The maximum quantity of acutely hazardous wastes is one quart and of other hazardous wastes is 55 gallons.

3. Transferring of Hazardous Waste. The hazardous waste manager shall notify the Water and Waste Shop (64226) or Base Environmental Coordinator (extension 62092) when a hazardous waste must be transferred to one of the two hazardous waste interim storage locations. It is the responsibility of the generator/generating activity to insure that hazardous wastes are properly transferred.

4. Records Keeping. Inspection records must be kept by the generating activity for a period of at least three years. These records will be kept by the hazardous waste manager. The records must include as a minimum: (See Annex E)

a. Date of inspection.

b. Number of containers and listing of each waste stored.

c. Date waste accumulation began for each container.

d. Contents of each container identified in accordance with the hazardous waste nomenclature and EPA hazardous waste number.

e. Condition of container i.e. good condition, rusting, leaking.

f. Any special handling instructions.

Appendices:
1. Hazardous Materials Map
2. Hazardous Waste Generators and Accumulation Points

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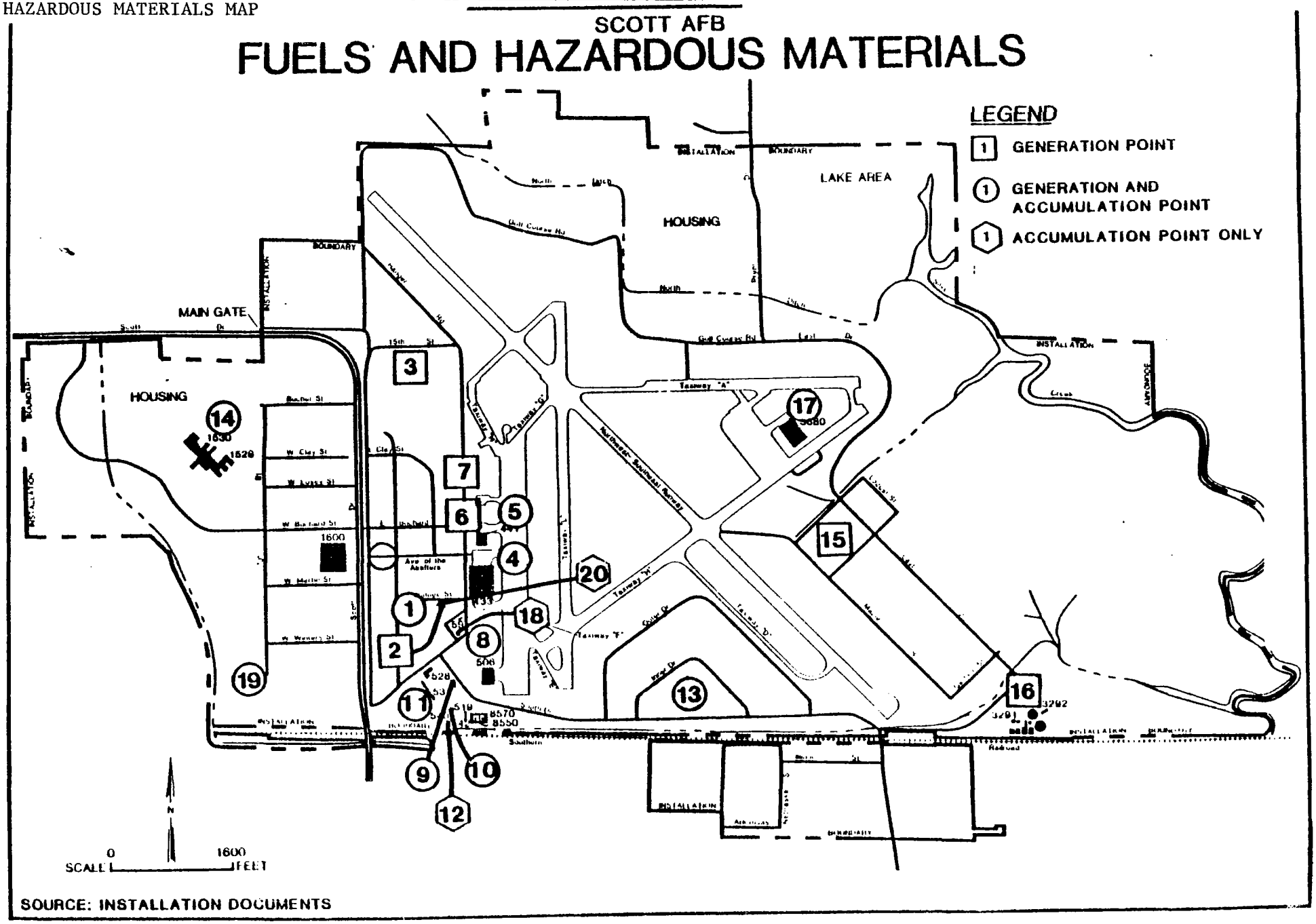
Base Civil Engineer

APPENDIX 1 TO ANNEX B TO 375 AAW OPLAN 198-85 (OPR: 375 ABG/DE)

HAZARDOUS MATERIALS MAP



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January 1986

APPENDIX 2 TO ANNEX D TO 375 AAW OPLAN 198-85 (OPR: 375 ABG/DE)
LISTING AND LOCATION CODES FOR HAZARDOUS WASTE GENERATORS AND ACCUMULATION POINTS

LOCATION CODE	SITE	SHOP	GENERATOR	ACCUMULATION POINT
1/2.	Bldg 548	375 TRANSS Vehicle Maintenance Shop	Yes	Yes
3.	Bldg 382	375 SUPS Fuels Lab	Yes	No
4.	Bldg 433	Hanger No. 1	Yes	Yes
5.	Bldg 441	375 CAMS	Yes	Yes
6.	Bldg 443	375 CAMS	Yes	No
7.	Bldg 456	375 CAMS-AGE	Yes	No
8.	Bldg 506	Hanger No. 3	Yes	Yes
9.	Bldg 514	375 CES - Ext Elec., Entomology	Yes	Yes
10.	Bldg 515	375 CES - Grounds	Yes	Yes
11.	Bldg 532	375 CES - Paint	Yes	Yes
12.	Bldg 540	PCB Transformer Storage	No	Yes
13.	Bldg 700	375 ABG Printing	Yes	Yes
14.	Bldg 1530	USAF Medical Center	Yes	Yes
15.	Bldg 3184	375 TRANSS Refueling Maintenance	Yes	No
16.	Bldg 3290	375 CES Sewage Treatment Plant	No	No
17.	Bldg 3680	102 Army Air Reserve	Yes	Yes

LOCATION CODE	SITE	SHOP	GENERATOR	ACCUMULATION POINT
18.	Aqua Yard	Waste Storage Tanks	No	Yes
18.	Bldg 59	Waste Storage Area	No	Yes
19.	Bldg 1989	Auto Hobby Shop	Yes	Yes
20.	Bldg 45	Waste Fuel Oil	No	Yes

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Scott Air Force Base, Illinios 62225-5000
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ANNEX C TO 375 AAW OPLAN 198-85 (OPR: 375 ABG/DE)
STORAGE FACILITIES MANAGEMENT

1. General. Annex B identified the procedures and requirements to follow to accumulate hazardous wastes at the work place. The Environmental Protection Agency has published regulations which establish requirements to follow for facilities which store hazardous wastes in excess of 90 days or which receive waste from off site facilities. Scott AFB operates two facilities as interim storage facilities for hazardous waste. These facilities, operated under EPA ID No. IL 7570024177, are Building 540 and the Aqua Yard. These are interim storage facilities and are being utilized until the DRMO constructs permanent hazardous waste storage facilities. Appendix 1 to Annex B is a location map showing the location of these facilities on the base.

2. Physical Facility Requirements. Both facilities meet the interim storage requirements of 40 CFR, Part 265, Subpart B, General Facility Standards. These facilities are adequately secured, signed, and marked.

3. Waste Storage Procedures. Generators/generating activities shall comply with the following procedures prior to transferring hazardous wastes to the interim storage facilities:

a. All requirements of Annex B, Accumulation Point Management will be met prior to the transferring of hazardous waste.

b. Complete the Disposal and Turn In Document (DTID), DD Form 1348-1, in accordance with Annex F. This document also serves as the manifest for the hazardous waste and must accompany the waste material to the storage site and on all future transactions.

c. Forward the Disposal and Turn-In Document (DTID) DD Form 1348-1 to the servicing Defense Reutilization and Marketing Office for continued action.

d. Contact the Base Environmental Coordinator (extension 62092) prior to transferring the hazardous waste.

e. Make all necessary arrangements to transport the waste to the hazardous waste storage site.

4. Inspection Procedures. Both hazardous waste storage sites will be inspected on an annual basis. This inspection will be accomplished on the form shown on Annex E by the Base Environmental Coordinator and records will be kept of the inspection (records must be kept for a minimum of three years). The inspection will provide the following information:

a. Date of inspection.

b. Number of containers and listing of each waste stored.

c. Contents of each container identified in accordance with the hazardous waste nomenclature and EPA hazardous waste number.

d. Condition of each container.

5. Training Procedures. Training for those personnel required to enter or work in the two hazardous waste disposal sites will be conducted on an annual basis. The training will consist of the following:

a. Facility operations.

b. Emergency response.

c. Use of emergency equipment.

Records of the training will be kept by the employees supervisor. Individual employee records (AF Form 971 for civilians, and AF Form 1098 for military) shall be annotated to reflect completion of training.

6. Fire Protection Procedures.

a. General. Extreme caution and care must be exercised at both interim hazardous waste storage sites to insure adequate fire protection. Adequate aisle space will be maintained to insure access for emergency personnel and equipment. Containers for ignitable or reactive waste must not be comingled, signs must be posted prohibiting smoking or open flame, and adequate fire extinguishers must be available to assist in fire fighting.

b. Fire protection personnel shall inspect the hazardous waste sites on an annual basis to insure appropriate fire protection actions are being taken and to recommend improvements in storage or operational procedures that will improve fire protection.

c. Any individual that notices a fire in either of the hazardous waste interim storage sites shall notify the base Fire Department extension 117 immediately. The fire department shall follow Standard Operating Procedures for fighting and containing a fire in a hazardous waste storage

site. To assist the fire department in fighting fires at these locations, an up to date list of the hazardous waste stored in the storage sites will be furnished to the fire department on a quarterly basis.

7. Emergency Assistance Procedures. Emergency assistance procedures have been well documented in two existing contingency plans. These plans are:

a. Scott AFB OPLAN 355-85, Base Disaster Preparedness Operations Plan, is the overall guideline that directs the activities to manage a disaster on the base. This plan is implemented by the commander whenever a potential disaster may threaten the primary mission, injure lives, property, or facilities, or cause a natural or manmade threat to Scott AFB. In the event of a threat from a hazardous waste mishap, the plan will be implemented.

b. Scott AFB OPLAN 191-85, Spill Prevention Control and Countermeasures Plan (SPCC), addresses the necessary actions, both normal operating and emergency, to take in the event of a spill or mishap with a hazardous waste.

NOTE: Both of these plans address the full range of emergency response assistance available from non-Air Force agencies, available equipment, and will be implemented in the event emergency actions are necessary.

8. Contingency Plan Procedures. Scott AFB OPLAN's 355-85 and 191-85 both adequately address contingency actions that have to be taken in the event of a spill or accident. The plans also address the on-scene coordinators role in directing implementation of the plan. Either one or both of these plans will be implemented in the event of a spill or accident involving hazardous waste.

9. Closure Plan.

a. General. This plan identifies all steps that will be necessary to partially close the facility at any point during the intended operating life and to completely close the facility at the end of its intended operating life. Scott AFB will maintain an on-site copy of the approved closure plan and all revisions to the plan until certification of closure completeness has been submitted and accepted by the State of Illinois. The plan is designed to minimize or eliminate releases of hazardous wastes and hazardous waste constituents to the air, groundwater, surface water, and surrounding land.

b. Partial Closure and Final Closure Activities. It may be necessary or desirable to close all or part of the hazardous waste management facilities on Scott AFB. Areas that may close are as follows:

1. Bldg 540 PCB storage area.

2. 8' x 32' drum storage area.

Partial closure of either facility is not anticipated.

c. Closure Cost Estimate. For the purpose of this plan, it is assumed that 20 - 25 KVA (20 gals) PCB transformers are stored in Bldg 540 and the number of drums in storage at the Aqua Yard is the design maximum of 36 - 55 gallon drums. Closure costs are subsequently estimated at $40,000.

d. Schedule for Closure. Closure of this installation will require an Act of Congress and cannot be predicted by anyone on Scott AFB with any degree of accuracy. We will estimate closure to be in 2090 A.D. for the purpose of this plan. The schedule for closure of container storage facilities will be applicable regardless of what year the Base closes. Scott AFB will notify the Secretary of the State of Illinios EPA (hence the Secretary) at least 180 days prior to the date closure activities are anticipated to begin. This date shall be within 30 days after Scott AFB accepts the final volume of waste. Closure activities will be completed within 180 days from receipt of the final volume of waste. It is anticipated that 90 days will be required for closure of both the Aqua Yard drum storage area and Bldg 540 PCB storage area. This time estimate includes contract procurement for closure activities.

e. Inventory Disposal, Removal, or Decontamination of Equipment. It is assumed that the maximum waste inventory (36 drums and 20 PCB transformers) will be in storage. A private contractor will remove the containers for off-site storage or disposal. All work will be supervised and performed by either outside vendor or base personnel. Personnel will be equipped with acid/solvent resistant coveralls, hard hats, neoprene coated gloves, and boots resistant to solvents and acids. Air sampling of the facility will be performed by Bio-Environmental Engineering to determine if full face respirators are required. The floors and walls of the container storage areas will be cleaned with water and the wash water collected into 55-gallon drums. Grab samples from each drum collected will be analyzed. If the water meets current standards and permission to discharge is granted by Illinois State authorities, the water will be discharged into the sanitary sewer for treatment and disposal at our Base Waste Water Treatment Plant. If the water is contaminated, the waste water will be shipped offsite for treatment and disposal. A second washing of the building will follow. This rinse/sample analysis process will be repeated until all traces of contaminants removed from the wash water collected from the wash process are below detection limits.

f. Certification of Closure. When closure is completed, Scott AFB will provide to the Secretary certification by both the installation commander and an independent registered professional engineer that the facility has been closed in accordance with the specifications in the approved closure plan.

APPENDIX:

1. Soil Removal Procedures

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January 1986

APPENDIX 1 TO ANNEX C TO 375 AAW OPLAN 198-85(OPR: 375 ABG/DE)
SOIL REMOVAL PROCEDURE

Soil will be removed by manual labor using shovels and picks if less than 5 cubic yards of soil is to be moved. The soil will be stored in polyethylene lined roller beds until further testing can be conducted to determine the extent of the contamination. The liner and covering will prevent rainwater from percolating through the soil during storage.

For soil removal of greater than 5 cubic yards, a backhoe, front-end loader will be used to move the soil into a polyethylene lined dump truck. The truck will be equipped with a covering tarp. Manifests and placards will be as per EPA and DOT state and federal regulations. The soil will then be transported to an approved hazardous waste landfill or to an approved treatment facility.

If preliminary tests show that the soil is combustible, all equipment used will be non-sparking. Shovels and picks will be made of brass should combustion be suspected.

All equipment used for removal of contaminated soil will be cleaned with sprayed water and the water collected and checked for the suspected contamination. If the water is not found to be contaminated, the equipment will be declared clean and usable for other work. If the water is contaminated, subsequent washing and analysis will be conducted in order to ensure cleanliness of the equipment prior to any future use.

Headquarters 375 Aeromedical Airlift Wing (MAC)
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ANNEX D TO 375 AAW OPLAN 198-85 (OPR: 375 ABG/DE)
HAZARDOUS WASTE PACKAGING GUIDANCE

1. Purpose. This guidance is to provide assistance to generating activities in complying with hazardous waste packaging requirements prescribed under 40 CFR, Part 262, Subpart C of EPA's implementing regulations. Proper packaging is required for accumulation, storage, and transportation of any hazardous waste. This implementing guidance covers only common packaging requirements.

2. Packaging Reference Material.

a. 40 CFR, Part 262, Subpart C. This subpart gives general pre-transportation requirements covering packaging, labeling, marking, placarding, and temporary storage containers.

b. 49 CFR, Parts 171, 172, 173, 178, 179. EPA has indicated that hazardous waste will be packaged in accordance with Department of Transportation (DOT) regulations. On 22 May 1980, the DOT promulgated rules to insure proper transportation of hazardous waste.

(1) 49 CFR, Part 172.101 is a DOT Hazardous Materials Table which references applicable packaging requirements for specific hazardous materials.

(2) 49 CFR, Part 173 provides the actual packaging requirements identifying the types of containers acceptable.

(3) 49 CFR, Part 178 describes the required specifications for each type of container.

3. Marking and Labeling Guidance. No person may offer or accept a hazardous waste for transport in the United States unless that material is properly classed, described, packaged, marked, labeled, and in good condition for shipment in accordance with DOT Transportation of Hazardous Materials regulations. It is the duty of the generator of a hazardous waste to insure that it is placed in a proper container, marked, and labeled. This requirement applies as soon as one starts accumulating hazardous waste.

a. Marking and Labeling. Marking and labeling is required by DOT regulations in addition to the hazardous waste marking and labeling required by EPA. Labeling should be accomplished in accordance with the appropriate 40 CFR regulations. Marking shall be as follows:

(1) Noun name of hazardous waste and the DOT identification number.

(2) Name and address of generating activity.

(3) The EPA Permit Number for Scott AFB: IL 7570024177

(4) Date of initial containerization.

(5) Weight in kilograms.

(6) Statement to the effect that waste is hazardous.

Appendix 2 to this annex shows typical examples of labels and hazardous waste markings that are available and used.

b. Containers. Each container used for shipping wastes must meet DOT specifications. Specifications are listed in CFR Part 178. If an existing container was previously authorized for use, it may continue to be used under most conditions. Also, a container that is damaged or leaking hazardous wastes may be placed in a metal, removable-head salvage drum that has equal or greater structural integrity than the original container. Containers that hazardous materials were shipped in should be retained because they will generally meet the packaging requirements for that material when it becomes a hazardous waste. Appendix 1 to this annex shows a typical steel drum used for shipping hazardous wastes. The regulations governing the reuse of containers are given in 49 CFR, Part 173.28. Special attention should be given to paragraph (p) of this reference as it authorizes use of single-trip containers (STC) and nonreusable containers (NRC) for hazardous waste under specified conditions.

4. Generating activities should contact the Base Environmental Coordinator, 62029, for information and guidance on proper packaging of hazardous wastes.

APPENDICES:
1. Typical Hazardous Waste Drum
2. Typical Labels and Hazardous Waste Markings

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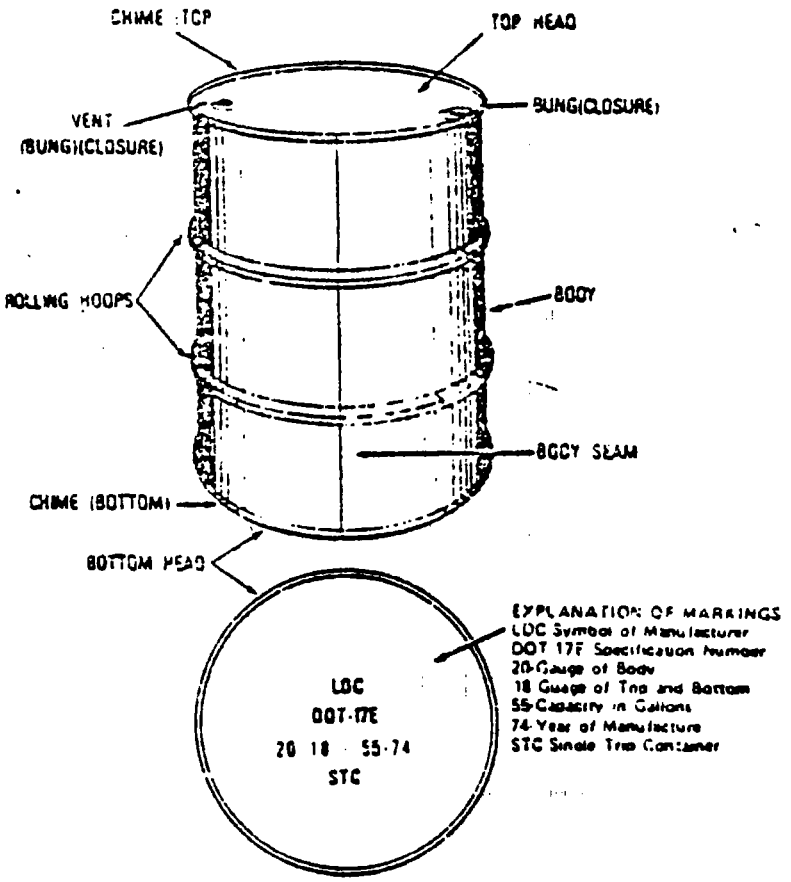
Base Civil Engineer

APPENDIX 1 TO ANNEX D TO 375 AAW OPLAN 198-85 (OPR: 375 ABG/DE)

TYPICAL HAZARDOUS WASTE DRUM

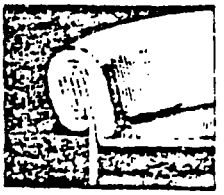
TYPICAL LIGHT GAUGE CLOSED HEAD DRUM

SPECIFICATION 17E. STEEL DRUM. SINGLE TRIP CONTAINER (STC) REMOVABLE HEAD CONTAINERS NOT AUTHORIZED

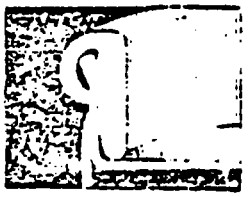


TYPICAL CHIME CONSTRUCTION-STEEL DRUMS

DOUBLE SEAMED CHIME SECTION

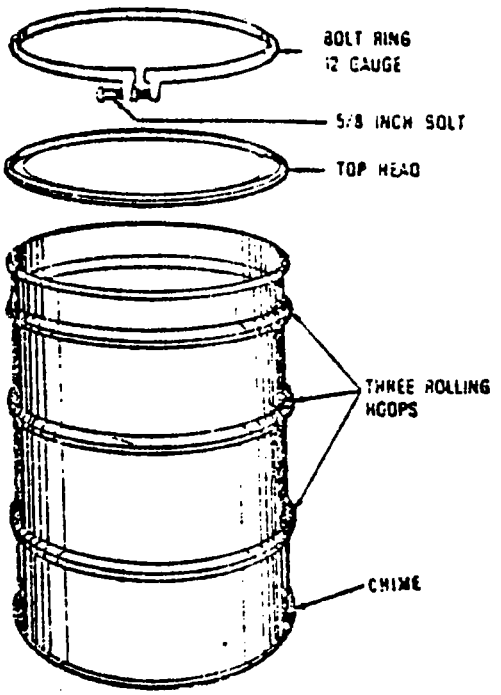


DOUBLE SEAMED CHIME SECTION WITH REINFORCING RING

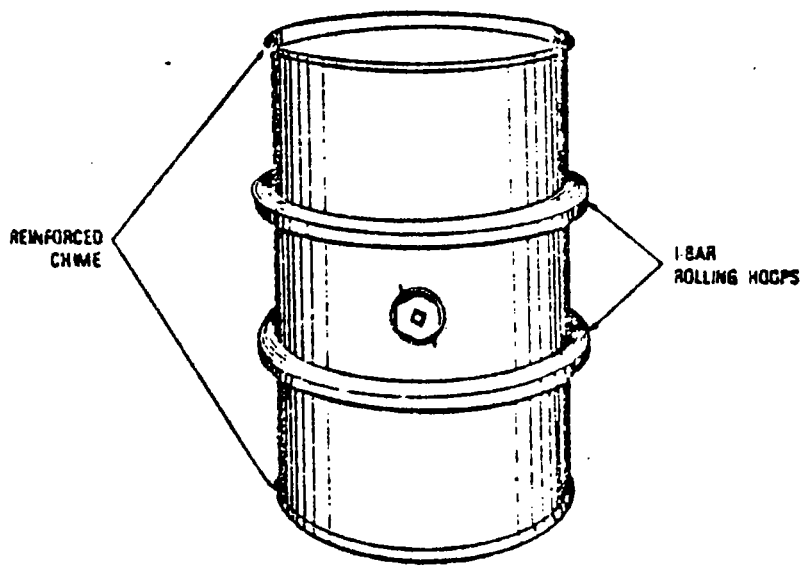


WELDED CHIME SECTION WITH REINFORCING RING

TYPICAL DOT OPEN HEAD DRUMS
DOT-17C OR DOT 17H



55 GALLON



DOT-5A DRUMS

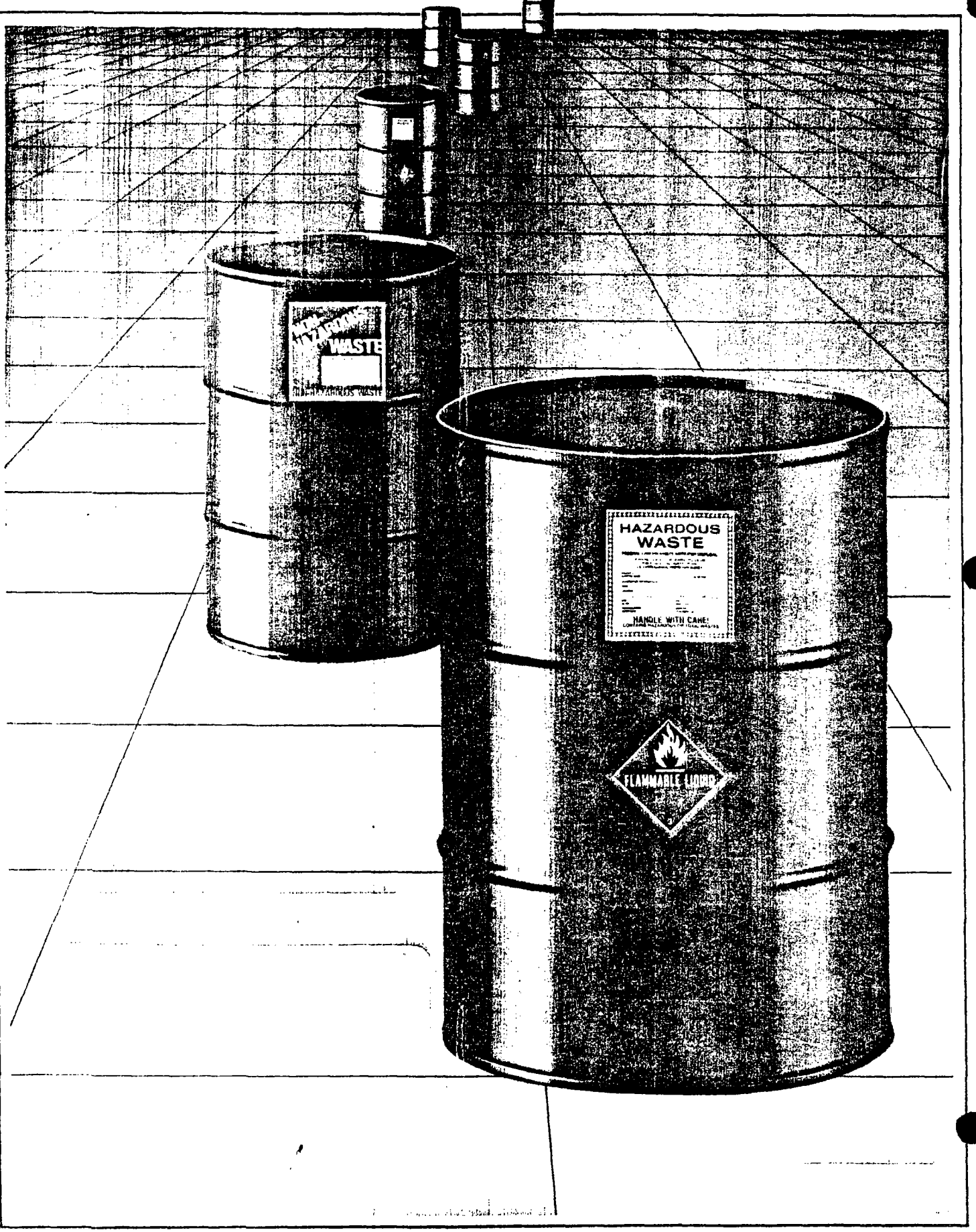
TYPICAL HEAVY GAUGE OPEN HEAD DRUM

55 GALLON CONTAINER STOCK NUMBERS

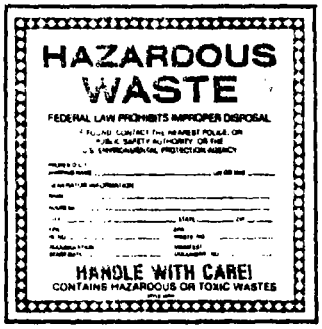
DOT Container Specification	National Stock Number	Equivalent Federal or Military Specification
5	8110-00-597-2353	PPP-B-704, Type I, Class 8 & 12
5A		PPP-P-700, Type I
		PPP-D-729, Type I
5B		PPP-D-705, Type I, Class 8 & 12
5C		PPP-D-700, Type II
5M		NONE
6B		PPP-D-736
6C		NONE
6D		NONE
12A		NONE
12B		PPP-B-636, Type CF or SF
15D		PPP-B-621, Styles 1,2,2½,3,6,7
16A		PPP-B-585
16B		PPP-B-585
17B		NONE
17C	8110-00-418-1634	PPP-P-704, Type I, Class 4 & 11
		PPP-P-704, Type I, Class 3 & 9
17E	8110-00-292-9783	PPP-D-729, PPP-D-705, Type I & II
		PPP-D-729, Type IV
17H	8110-00-823-8121	PPP-D-705, Type V
		PPP-D-704, Type II
19A		PPP-B-601
35		PPP-D-705
37A		PPP-P-704, Type II, Class 1,3,5
37B		NONE
37D	8110-00-740-7022	NONE
37M		NONE
37P	8110-00-042-9834	PPP-C-1337
42B		NONE
43A	8110-00-113-8059	NONE

APPENDIX 2 TO ANNEX D TO 375 AAW OPLAN 198-85 (OPR: 375 ABG/DE)

TYPICAL LABELS AND HAZARDOUS WASTE MARKINGS



E.P.A. and D.O.T. HAZARDOUS WASTE REGULATIONS

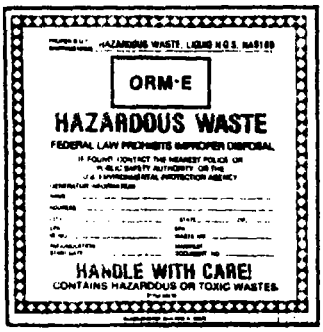


WM6 6"x 6"
WM6P - Personalized

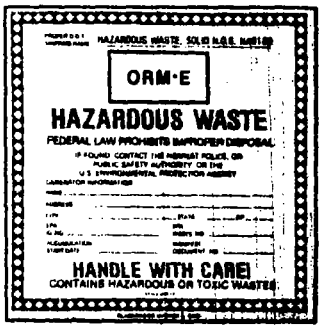
HAZARDOUS WASTE LABEL

D.O.T. HAZARDOUS MATERIAL 4"x 4" LABEL

◀ Use for major classifications, i.e., Flammable, Corrosive, etc. Also requires D.O.T. label.

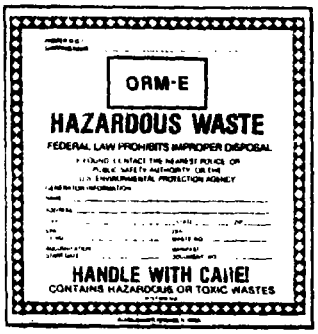


WM10 (Waste Liquid NOS) 6"x 6"
WM10P - Personalized



WM12 (Waste Solid NOS) 6"x 6"
WM12P - Personalized

The above labels are pre-printed with the proper shipping name Hazardous Waste (Liquid or Solid) N.O.S. NA 9189.
WM10B is for wastes classed as ORM-E, with the proper shipping name left blank.



WM10B (Blank Shipping Name) 6"x 6"
WM10BP - Personalized

IMPORTANT

These exterior grade vinyl labels assure strict compliance with all existing Hazardous Waste marking regulations. EPA and D.O.T require that such markings..."must be durable..." (49CFR 172.304) interpreted as being durable and permanent when exposed to weather extremes during extended on-site storage, transporting, and disposal. Paper labels are NOT recommended.

HAZARDOUS WASTE COMPLIANCE LABELS

In the May 19, 1980 Federal Register, the U.S. Environmental Protection Agency published Regulations specifying in part the responsibilities of a Hazardous Waste generator (shipper) in handling, shipping and transporting such waste products to a domestic or foreign disposal site. This was followed on May 22, 1980 by the Hazardous Waste Regulations issued by the U.S. Department of Transportation. Together, they represent the full scope of shipper and transporter responsibilities.

Style WM6 label should be used for all Waste which meets the criteria of D.O.T.'s major classifications such as Flammable Liquid, Corrosive, Poison, etc. Examples would be WASTE ACETONE, WASTE SOLVENT N.O.S. In these latter instances, the proper D.O.T. 4"x 4" label must also be displayed (See Pages 4 and 5). If weight reaches placardable quantities, placarding regulations would also apply (See Page 14). WM10 and WM12 have pre-printed the new proper shipping names Hazardous Waste Liquid or Solid N.O.S., ORM-E respectively. WM10B is for other wastes classified as ORM-E. Proper shipping name area has been left blank. These are to be used only for wastes classified by EPA as hazardous, and which do not meet the criteria of a Flammable Liquid, Solid, Corrosive, Poison, etc. WM6, 10, 10B and 12 are silk screened on exterior grade vinyl to guarantee extended exposure to the elements and/or underground. Paper labels are NOT recommended. Each of the above labels may be pre-printed to eliminate writing by hand. Such labels are followed by the suffix "P".

PRICES shown are per each label

STYLE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
WM6 WM10 WM10B WM12	18¢	15¢	12¢	11¢	10¢	9½¢
WM6P WM10P WM10BP WM12P	X	X	45¢	32¢	20¢	14¢

Special Catalog on the Handling of PCBs as a Waste Material is Available

NEW!

6"x 6"
GWM

NON-HAZARDOUS WASTE LABELS ...Quickly separates Hazardous Wastes from Non-Hazardous Wastes!

- Helps avoid costly mistakes
- Trains employees to know types of waste
- Organizes waste for efficient handling
- Helps transporters handle mixed loads
- Shipped in rolls of 500, UV processed and coated labels

PRICES shown are per 1000(M) labels except 500 lot price

STYLE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
GWM	21.00	33.00	31.00	30.00	29.00	28.00

Headquarters 375 Aeromedical Airlift Wing (MAC)
Scott Air Force Base, Illinios 62225-5000
January 1986

ANNEX E TO 375 AAW OPLAN 198-85 (OPR: 375 ABG/DE)
HAZARDOUS WASTE MANAGEMENT INSPECTION LOG

Container No.	Start Date	Accumulation Location	Inspector	Condition of Container	Date	Time	Special Handling Instructions

NOTE: DPDS Form 1713, dated Feb 84, may also be used as an inspection log

Headquarters 375 Aeromedical Airlift Wing (MAC)
Scott Air Force Base, Illinios 62225-5000
January 1986

ANNEX F TO 375 AAW OPLAN 198-85 (OPR: 375 ABG/DE)
PROCEDURES FOR DISPOSAL OF HAZARDOUS WASTE

Standard procedures for preparation of a DTID are provided in paragraph 5-5 of DOD 4160.17M. The DTID shall be completed as follows for turn-in of hazardous waste:

Blocks 1-3. Document Identifier - Always enter A5J.

Blocks 4-7. RI From - Leave blank.

Blocks 8-22. Stock or Part Number - Enter the National Stock Number (NSN), Local Stock Number (LSN), Federal Stock Class (FSC), or Part Number.

Blocks 23-24. Unit of Issue - Enter the unit of issue of the item being transferred such as DR for drum, QT for quart, GL for gallon, and EA for each.

Blocks 25-29. Enter the quantity being transferred. Use five digits.

Blocks 30-43. Document Number - Enter the document number which will consist of the letter F for the activity code, organization/shop code of the generating activity, the current Julian date, and a serial number beginning with 0001 each day. The organization/shop code is the same code used when ordering material from supply.

Block 44. Suffix Code - Leave blank.

Blocks 45-50. DRMO SRAN - Leave blank.

Blocks 51-61. Blank - Leave blank.

Blocks 62-64. Effective Transfer Date - Enter the last three positions of the current Julian date.

Block 65. Demilitarization Code - Entry is always A.

Block 66. Reclamation Code - Entry is always N.

Blocks 67-70. Blank - Leave blank.

Block 71. Condition Code - Enter the letter for unserviceable NSN or part numbered items and the letter A for serviceable NSN or part number items.

Block 72-73. Blank - Leave blank.

Blocks 74-80. Unit Price - Enter the unit price of the material. If the material is scrap, estimate the price.

Block A. Enter the organization title and address of the generating activity, including the Base EPA ID Number IL7570024177.

Block B. Enter DRMO, Scott Air Force Base.

Block C. Enter HW for hazardous waste and HM otherwise. Special considerations for containers:

a. Enter "NON-HZ/TRIPLE RINSE" for containers that previously contained hazardous or acutely hazardous materials and have been tripled rinsed.

b. Enter HM for containers that previously contained hazardous material.

c. Enter HW for containers that previously contained acutely hazardous material identified in 40 CFR Part 261.33e.

Block D. Leave blank.

Block E. Enter the extended value of the transfer. This total price is determined by multiplying the quantity (Blocks 25-29) times the unit price (Blocks 74-80).

Blocks F-P. Leave blank.

Block Q. Enter quantity.

Blocks S-T. Leave blank.

Block U. Enter "Hazardous Material" or "Hazardous Waste" and the Environmental Protection Agency (EPA) Hazardous Waste Number.

Block V. Enter the name of the accumulation point manager or satellite accumulation point manager.

Block W. Leave blank unless turning in an empty container in which case blocks W and X must identify:

a. If Block C contained the letters "HM," then Block W must contain the word "empty". If Block C contained the letters "HW," the Block W must contain the words "residue only."

b. Description of the container; e.g., 55-gallon metal drum.

c. NSN/LSN/FSC and generic name of previous contents.

Block X. Enter the National Stock Number (NSN) proper name.

Block Y. Enter the duty phone of the accumulation point manager or satellite accumulation point manager.

Block AA. Enter the type and estimated amount of contaminants. Use the line directly below this block if additional space is required.

Blocks DD,EE,FF,GG. Enter the following container certification statement:

> "This is to certify that the above-named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of DOT and EPA."

PELINI
COLONEL
COMMANDER

Floyd A. Ashdown

FLOYD A. ASHDOWN, Col, USAF
Base Civil Engineer

Headquarters 375 Aeromedical Airlift Wing (MAC)
Scott Air Force Base, Illinios 62225-5000
January 1986

ANNEX Z TO 375 AAW OPLAN 198-85 (OPR: 375 ABG/DE)
DISTRIBUTION

DISTRIBUTION	Copies
USEPA, Region V 230 S. Dearborn Street Chicago, IL 60604	2
IL EPA 2200 Churchill Rd. Springfield, IL 62706	2
Defense Reutilization and Marketing Region DRMR-COH P.O. Box 3990, Columbus, Ohio 43216-5000	1
HQ MAC/DEEE, Scott AFB, IL 62225-5000	3
375 AAW/375 ABG Scott AFB, IL 62225-5000	
375 AAW/DOX	1
375 AAW/CAMS	1
375 AAW/DOC	1
375 AAW/PA	1
375 AAW/LGS	1
375 AAW/LGSF	1
375 AAW/SEG	1
375 ABG/CC	1
375 ABG/DA	1
375 ABG/DE	2
375 ABG/DEM	10
375 ABG/DEMR	1
375 ABG/DEMRC (Service Call Desk)	1
375 ABG/DEE	20
375 ABG/DEEV	5
375 ABG/DEF	2
375 ABG/DW	1
375 ABG/SPO	1
375 ABG/SV	1
375 ABG/JA	1
USAF Med Ctr Scott/SGPM, Scott AFB, IL 62225-5000	2
Defense Reutilization and Marketing Office, Scott AFB,IL	1
Gates Learjet Aircraft Services Corporation, Scott AFB, IL	1
Beech Aerospace Services Incorporated, Scott AFB, IL	1
102 Army Air Reserve, Scott AFB, IL	1

PELINI
COLONEL
COMMANDER

FLOYD A. ASHDOWN, Col, USAF
Base Civil Engineer

RESPONSE 12/20/85 ~~EIE~~ PECL

DEFENSE LOGISTICS AGENCY
DEFENSE REUTILIZATION AND MARKETING SERVICE
DEFENSE REUTILIZATION AND MARKETING REGION COLUMBUS
926 TAYLOR STATION ROAD
BLACKLICK, OHIO 43004-9615

16 JAN 1986

IN REPLY REFER TO DRMR-COH

SUBJECT: 1630105014/St. Clair County Belleville/Scott AFB: Defense Reutilization and Marketing Service

Mr. Mark A. Haney, Manager
Facilities Compliance Unit
Compliance Monitoring Section
Illinois Environmental Protection Agency
Division of Land Pollution Control
2200 Churchill Road
Springfield, IL 62706

RECEIVED
JAN 21 1986
IEPA-DLPC

Dear Mr. Haney:

Reference: Compliance Inquiry letter, 7 Nov 85, to Defense Reutilization and Marketing Service, Scott AFB, IL 62225.

On Wed, 20 Nov 85, Mr. Thomas Migdalski, DRMR-COH, discussed reference with Mr. Thomas Powell who gave us a tentative extension of 60 days to respond. This was confirmed in our letter to you dated 9 Dec 85. Reference is noted and we generally agree that the items listed would be violations for a hazardous waste storage facility. However, the Defense Reutilization and Marketing Office does not have a storage facility at Scott AFB and we have no intention of building one. Our DRMO is scheduled to be moved to Granite City, IL within the next year and plans have begun to construct a storage facility at that location.

The 15 drums in question (sand contaminated with lead) were transferred from an off-site generator to the Defense Reutilization and Marketing Office (DRMO) as a hazardous material (sand with .05% lead). The items are a hazardous waste by definition meeting the characteristic of EP toxicity; however, the Department of Defense (DoD) had the intent of beneficially reusing or recycling them. Therefore, it is DoD opinion that these items came under Section 721.106 of Illinois Solid Waste Regulations - Special Requirements for Hazardous Waste Which is Used, Reused, Recycled or Reclaimed. Had these items been sold, as part of the condition of sale, the purchaser would have had to fill out a "Statement of Intent". This describes the proposed use the purchaser has for the item. When all attempts at reutilization and sale failed, these items were placed on a "delivery order", 23 May 85, for disposal under our hazardous waste disposal contract used for DRMO Scott. The property was removed 13 Jun 85 under Michigan manifest #MI0627926 by Aqua-Tech Corp. and arrived at the Treatment, Storage, and Disposal Facility (TSDF) 14 Jun 85. Please note, while the property was stored at the DRMO no spillage of the material occurred.

SUBJECT: 1630105014/St. Clair County Belleville/Scott AFB: Defense Reutilization and Marketing Service

Mr. Powell expressed concern that the Scott AFB EPA ID number was used to transport the property to the TSDF. This was done because the DRMO is a "tenant activity" at the military installation and it is DoD policy to have one EPA ID number at each installation.

The DRMO at Scott AFB will not be receiving any hazardous waste from off-site. We feel this was an isolated occurrence and steps have been taken to insure that the situation does not recur.

If you have any questions, please contact Mr. Thomas Migdalski, DRMR-COH, (AV)850-2171.

Darrell M. Chancellor /or

DARRELL M. CHANCELLOR
MAJ, USA
Chief, Operations Division

cc:
DRMS-HT (ATTN: M. Dombkowski)
DRMS-G (ATTN: S. Philo)
DRMO Scott (ATTN: C.B. Webb)

Mr. Bur Filson
Illinois EPA
Division of Land Pollution Control
2200 Churchill Rd.
Springfield, IL 62706

Mr. Thomas Powell
Illinois EPA
Division of Land Pollution Control
2009 Mall St.
Collinsville, IL 62234

RECEIVED
JAN 2 1 1986
IEPA-DLPC

RESPONSE TO 1/29/86 DEC

DEFENSE LOGISTICS AGENCY
DEFENSE REUTILIZATION AND MARKETING SERVICE
DEFENSE REUTILIZATION AND MARKETING REGION COLUMBUS
926 TAYLOR STATION ROAD
BLACKLICK, OHIO 43004-9615

25 FEB 1986

IN REPLY REFER TO DRMR-COH

SUBJECT: 1630105014/St. Clair County, Belleville/Scott AFB: Defense Reutilization and Marketing Service

Mr. Michael F. Nechvatal, Manager
Compliance Monitoring Section
Illinois Environmental Protection Agency
Division of Land Pollution Control
2200 Churchill Road
Springfield, IL 62706

FEB 28 1986
IEPA

Dear Mr. Nechvatal,

Reference: Pre-Enforcement Conference Letter, 20 Dec 85, to Defense Reutilization and Marketing Service, Scott AFB, IL 62225

On Wed, 29 Jan 86, C.B. Webb, Defense Reutilization and Marketing Office (DRMO) at Scott Air Force Base and Thomas Migdalski from the Region Office in Columbus, OH met with Kenneth Mensing and Tom Powell at the Collinsville Region Office regarding subject. This was a follow-up to a 16 Jan letter sent to Mr. Mark Haney, Manager, Facilities Compliance Unit.

During the meeting, Mr. Mensing requested clarification in writing regarding the Defense Reutilization and Marketing Service (DRMS) policy on acceptance of hazardous waste from off-site generators at the DRMO. He and Mr. Powell were shown a copy of the hazardous waste disposal contract for DRMO Scott which lists nine separate pick-up points. Additional points can be added as the need arises, i.e., a new hazardous waste generator point, provided the generator has an EPA ID number. The contract has multiple pick-up points because it is DRMS policy to receive hazardous waste in-place at off-site generation points and have it disposed of from that site. Under the terms and conditions of the contract, all transportation must be in accordance with 49 CFR 100-199. The specific incident that was the cause of this meeting - 15 drums of sand contaminated with lead transported to the DRMO as unmanifested hazardous material - was an isolated occurrence and steps have been taken to insure that the situation does not recur.

The "modified" closure plan requested by Mr. Mensing for the area that contained the 15 drums is being coordinated with our Headquarters in Battle Creek, MI, and should be submitted within 30 days.

SUBJECT: 1630105014/St. Clair County, Belleville/Scott AFB: Defense Reutilization and Marketing Service

If you have any questions, please contact Mr. Thomas Migdalski, DRMR-COH, (COM)614-238-2171.

Darrell M Chancellor

DARRELL M. CHANCELLOR
MAJ, USA
Chief, Operations Division

cc:
DRMS-HT (ATTN: M. Dombkowski)
DRMS-G (ATTN: S. Philo)
DRMO Scott (ATTN: C.B. Webb)

Mr. Bur Filson
Illinois EPA
Division of Land Pollution Control
2200 Churchill Rd.
Springfield, IL 62706

Mr. Thomas Powell
Illinois EPA
Division of Land Pollution Control
2009 Mall St.
Collinsville, IL 62234

RECEIVED
FEB 28 1986
IEPA-DLPC

Illinois Environmental Protection Agency · 2200 Churchill Road, Springfield, IL 62706

217/782-6761

Refer to: 1630105014 -- St. Clair County
Belleville/Scott AFB: Defense Reutilization and Marketing Service
Non-Notifier

PRE-ENFORCEMENT CONFERENCE LETTER

Certified # P594558592

December 20, 1985

Defense Reutilization and Marketing Office-Scott AFB
Attention: Mr. Webb
Building 4141
Scott Air Force Base, Illinois 62225

Dear Mr. Webb:

The Agency has previously informed Defense Reutilization and Marketing Service of apparent violations of the Illinois Environmental Protection Act and/or rules and regulations adopted thereunder. These apparent violations are set forth in Attachment A of this letter.

As a result of these apparent violations, it is our intent to refer this matter to the Agency's legal staff for the preparation of a formal enforcement case. The Agency's legal staff will, in turn, refer this matter to the Office of Attorney General or to the United States Environmental Protection Agency for the filing of a formal complaint.

Prior to taking such action, however, you are requested to attend a Pre-Enforcement Conference to be held at the Illinois Environmental Protection Agency, Regional Office, 2009 Mall Street, Collinsville, Illinois, 62234. The purpose of this Conference will be:

1. To discuss the validity of the apparent violations noted by Agency staff, and

2. To arrive at a program to eliminate existing and/or future violations.

You should, therefore, bring such personnel and records to the conference as will enable a complete discussion of the above items. We have scheduled the Conference for January 14, 1986, at 10:00 AM. If this arrangement is inconvenient, please contact Bur Filson at 217/782-6761 to arrange for an alternative date and time.

In addition, please be advised that this letter constitutes the notice required by Section 31(d) of the Illinois Environmental Protection Act prior to the filing of a formal complaint. The cited Section of the Illinois Environmental Protection Act requires the Agency to inform you of the charges which are to be alleged and offer you the opportunity to meet with appropriate officials within thirty days of this notice date in an effort to resolve such conflict which could lead to the filing of formal action.

Sincerely,

Michael F. Nechvatal, Manager
Compliance Monitoring Section
Division of Land Pollution Control

MFN:BF:sd/3105e/32-33

Attachment

cc: Division File
Southern Region
Gary King
Bruce Carlson
Bur Filson

Attachment A

Pursuant to 35 Ill. Adm. Code 703.150(a), the owner or operator of an existing HWM facility must submit Part A of the permit application to the Agency no later than the following times, whichever comes first:

1. Six months after the date of publication of regulations which first require the owner or operator to comply with standards in 35 Ill. Adm. Code 725.

2. Thirty days after the date the owner or operator first becomes subject to the standards in 35 Ill. Adm. Code 725.

You are in apparent violation of 35 Ill. Adm. Code 703.150(a) for the following reasons: Failure to submit "Part A" of the RCRA permit application addressing hazardous waste management activities at the facility.

Pursuant to 35 Ill. Adm. Code 725.111, every facility owner or operator must apply to USEPA for a USEPA identification number in accordance with the USEPA notification procedures (45 FR 12746). You are in apparent violation of this Section in that you have not applied for a USEPA identification number for your facility.

Pursuant to 35 Ill. Adm. Code 725.113(a), the owner or operator is required to conduct a detailed chemical and physical analysis of a representative sample of hazardous waste prior to storage. You are in apparent violation of 35 Ill. Adm. Code 725.113(a) for the following reasons: Failure to obtain a detailed chemical and physical analysis of a representative sample of the waste. When the requirements of this section are implemented, they must meet the requirements of 725.113(b) and (c). For your information these requirements have been listed.

Pursuant to 35 Ill. Adm. Code 725.113(b), the owner or operator must have on file at the facility a detailed written waste analysis plan describing the procedures to be used to compile data required under Section 725.113(a).

Pursuant to 35 Ill. Adm. Code 725.113(c), the owner or operator of an off-site facility is required to specify in the waste analysis plan required in 725.113(b) the procedures which will be used to inspect and, if necessary, analyze each movement of hazardous waste received at the facility to insure that it matches the identity of the waste designated on the accompanying manifest.

Pursuant to 35 Ill. Adm. Code 725.114(c), the owner or operator must post a sign with the legend "Danger-Unauthorized Personnel Keep Out" at each entrance to the active portion of the facility and at other locations which can be seen from any approach to this active portion. At the time of the inspection, which is in apparent violation of this Section.

Pursuant to 35 Ill. Adm. Code 725.115(a), the owner or operator must inspect his facility for malfunctions and deterioration, operator errors and discharges that may be causing or may lead to a release to the environment or a threat to human health. You are in apparent violation of 35 Ill. Adm. Code 725.115(a) in that the required inspections are not being made. When the requirements of this section are implemented, they must meet the requirements of Section 725.115(b), (c) and (d). For your information these requirements have been listed.

Pursuant to 35 Ill. Adm. Code 725.115(b), the owner or operator must develop and follow a written schedule for inspection of all equipment and devices that are important to preventing, detecting or responding to environmental or human health hazards. This schedule must be kept at the faciltiy and must identify the types of problems which are to be looked for during the inspection. The schedule should allow for daily inspection of areas subject to spills, when those areas are in use.

Pursuant to 35 Ill. Adm. Code 725.115(c), the owner or operator must remedy any deterioration or malfunction of equipment or structures revealed by an inspection. If a hazard is imminent or has already occurred, he must take immediate remedial action.

Pursuant to 35 Ill. Adm. Code 725.115(d), the owner or operator must record inspections, and the specific data required by this Section in an inspection log or summary. These records must be kept for at least three years.

Pursuant to 35 Ill. Adm. Code 725.116(a), facility personnel must complete a program of classroom instruction or on-the-job training directed by a person trained in hazardous waste management procedures. The training must be designed to ensure that facility personnel are able to respond to emergencies. You are in apparent violation of 35 Ill. Adm. Code 725.116(a) for the following reason: Failure to develop and maintain a RCRA training program that would fulfill the requirements of Section 725.116. The training program must be implemented and maintained to meet the requirements of 725.116(b), (c), (d) and (e). For your information, these requirements have been listed.

Pursuant to 35 Ill. Adm. Code 725.116(b), facility personnel must successfully complete the program required in paragraph (a) of this Section upon the effective date of these regulations or six months after the date of their employment or assignment to a facility or to a new position at a facility, whichever is later. Employees hired after the effective date of these regulations must not work in unsupervised positions until they have completed the training requirements of paragraph (a) of this Section.

Pursuant to 35 Ill. Adm. Code 725.116(c), facility personnel must take part in an annual review of the initial training required in paragraph (a) of this Section.

Pursuant to 35 Ill. Adm. Code 725.116(d), the owner or operator must maintain the following documents and records at the facility:

1. The job title for each position at the facility related to hazardous waste management and the name of the employee filling each job;

2. A written job description for each position listed under paragraph (d)(1) of this Section. This description may be consistent in its degree of specificity with descriptions for other similar positions in the same company location or bargaining unit, but must include the requisite skill, education or other qualifications and duties of facility personnel assigned to each position;

3. A written description of the type and amount of both introductory and continuing training that will be given to each person filling a position listed under paragraph (d)(1) of this Section;

4. Records that document that the training or job experience required under paragraphs (a), (b) and (c) of this Section has been given to and completed by facility personnel.

Pursuant to 35 Ill. Adm. Code 725.116(e), training records on current personnel must be kept until closure of the facility. Training records on former employees must be kept for at least three years from the date the employee last worked at the facility.

Pursuant to 35 Ill. Adm. Code 725.151(a), each owner or operator must have a contingency plan. The contingency plan must be designed to minimize hazards to human health or the environment from fires, explosions or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil or surface water. You are in apparent violation of 35 Ill. Adm. Code 725.151(a) for the following reason: Failure to develop and maintain a RCRA contingency plan. When a contingency plan is established, it must meet the requirements of 725.152 - 725.155. For your information these Sections have been listed.

Pursuant to 35 Ill. Adm. Code 725.152(a), the contingency plan must describe the actions facility personnel must take to comply with Sections 725.151 and 725.156 in response to fires, explosions or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil or surface water at the facility.

Pursuant to 35 Ill. Adm. Code 725.152(b), if the owner or operator has already prepared a Spill Prevention, Control and Countermeasures (SPCC) Plan in accordance with 40 CFR Part 112 or 1510 or some other emergency or contingency plan, he need only amend that plan to incorporate hazardous waste management provisions that are sufficient to comply with the requirements of this Section.

Pursuant to 35 Ill. Adm. Code 725.152(c), the contingency plan must describe arrangements agreed to by local police departments, fire departments, hospitals, contractors and state and local emergency response teams to coordinate emergency services, pursuant to Section 725.137.

Pursuant to 35 Ill. Adm. Code 725.152(d), the contingency plan must list names, addresses and phone numbers (office and home) of all persons qualified to act as emergency coordinator (see 725.155) and must be kept up to date.

Pursuant to 35 Ill. Adm. Code 725.152(e), the contingency plan must include an up-to-date list of all emergency equipment at the facility. The plan must include the location and a physical description of each item and a brief outline of its capabilities.

Pursuant to 35 Ill. Adm. Code 725.152(f), the contingency plan must include an evacuation plan for facility personnel, if necessary.

Pursuant to 35 Ill. Adm. Code 725.153, a copy of the contingency plan and all revisions to the plan must be:

a) Maintained at the facility;

b) Submitted to all local police departments, fire departments, hospitals and state and local emergency reponse teams.

Pursuant to 35 Ill. Adm. Code 725.154, the contingency plan must be reviewed and immediately amended, if necessary, whenever:

a. Applicable regulations are revised;

b. The plan fails in an emergency;

c. The facility changes - in its design, construction, operation, maintenance or other circumstances - in a way that materially increases the potential for fires, explosions or releases of hazardous waste or hazardous waste constituents or changes the response necessary in an emergency.

d. The list of emergency coordinators changes;

e. The list of emergency equipment changes.

Pursuant to 35 Ill. Adm. Code 725.155, at all times there must be at least one emergency coordinator either on the facility premises or on call.

Pursuant to 35 Ill. Adm. Code 725.171(a), if a facility receives hazardous waste accompanied by a manifest, the owner or operator must sign and date each manifest to certify that the hazardous waste covered by the manifest was received and note any discrepancies on the manifest. He must immediately give the transporter a copy of the signed manifest and within 30 days of delivery send a copy of the manifest to the generator and to the Agency. A copy of each manifest must then be retained at the facility for at least three years. You are in apparent violation of 35 Ill. Adm. Code 725.171(a) for the following reason: Failure to utilize a uniform hazardous waste manifest for incoming shipments of hazardous waste.

Pursuant to 35 Ill. Adm. Code 725.173, the owner or operator must keep a written operating record at the facility. The operating record must include the following:

a. A description and the quantity of each hazardous waste received and the method(s) and date(s) of its treatment, storage or disposal at the facility as required by Appendix I of 35 Ill. Adm. Code 725.173;

b. The location and quantity of each hazardous waste within the facility including cross-references to specific manifest documents numbers;

c. Records and results of waste analyses and trial tests;

d. Summary reports and details of all incidents that require implementation of the contingency plan;

e. Records and results of inspections;

f. Monitoring, testing and other analytical data;

g. All closure cost estimates and, for disposal facilities, all post-closure cost estimates.

You are in apparent violation of 35 Ill. Adm. Code 725.173 in that the operating record did not include items a. through g. above.

Pursuant to 35 Ill. Adm. Code 725.175, the owner or operator must prepare and submit a single copy of an annual report to the Director by March 1 of each year. The annual report must cover facility activities during the previous calendar year and must include the following information:

a. The EPA identification number, name and address of the facility.

b. The calendar year covered by the report;

c. For off-site facilities, the EPA identification number of each hazardous waste generator from which the facility received a hazardous waste during the year; for imported shipments, the report must give the name and address of the foreign generator;

d. A description and the quantity of each hazardous waste the facility received during the year. For off-site facilities this information must be listed by EPA identification number of each generator;

e. The method of treatment, storage or disposal for each hazardous waste;

f. Monitoring data under Section 725.194(a)(2)(B) and (C) and (b)(2) where required;

g. The most recent closure cost estimate under Section 725.242 and for disposal facilities the most recent post-closure cost estimate under Section 725.244;

h. The certification signed by the owner or operator of the facility or his authorized representative.

You are in apparent violation of 35 Ill. Adm. Code 725.175 in that your annual report did not include items a through h above.

Pursuant to 35 Ill. Adm. Code 725.212(a), by May 19, 1981, the owner or operator must have a written closure plan. A copy of the closure plan and all revisions must be kept at the facility until closure is completed and certified. The closure plan must include at least:

1. A description of how and when the facility will be partially closed, if applicable, and finally closed. The plan must identify how the requirements of Sections 725.211, 725.213, 725.214 and 725.215 and applicable requirements of 725.297, 725.328, 725.380, 725.410, 725.451, 725.481 and 725.504 will be met;

2. An estimate of the maximum inventory of wastes in storage and in treatment at any time during the life of the facility;

3. A description of the steps needed to decontaminate facility equipment and surrounding soil if necessary;

4. An estimate of the expected year of closure and a schedule for final closure;

5. A provision for closure certification by an independent registered professional engineer.

You are in apparent violation of 35 Ill. Adm. Code 725.212(a) for the following reason: Failure to develop a RCRA closure plan.

Pursuant to 35 Ill. Adm. Code 725.274, the owner or operator must inspect areas where containers are stored at least weekly, looking for leaks and for deterioration caused by corrosion or other factors. You are in apparent violation of 35 Ill. Adm. Code 725.274 for the following reason: Failure to conduct required inspections.

TEP:jlr/0094L

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY MEMORANDUM

RECEIVED
DEC 19 1985
IEPA-DLPC

DATE: December 17, 1985

TO: Mike Nechvatal - Compliance

FROM: Tom Powell - DLPC - Collinsville

SUBJECT: LPC 1630105014 - St. Clair County - Belleville/Scott AFB: Defense Reutilization and Marketing Service
Non-Notifier

Concerning the attached letter from the Defense Logistics Agency, dated December 9, 1985, let it be known that this writer did not grant a 60 day extension to respond to the CIL as stated. Rather, Mr. Migdalski was told that a response must be received by Mr. Haney within 15 days, and in that response he should request additional time for a reply. Mr. Migdalski was told that 60 days is the maximum amount of time that could possibly be considered for an extension. Irregardless, an extension would have to be granted by Haney's group.

TEP:jlr

Attachment

cc: Mark Haney
cc: Bur Filson
cc: Bruce Carlson
cc: DLPC - Collinsville
cc: DLPC - Division File

DEFENSE LOGISTICS AGENCY
DEFENSE REUTILIZATION AND MARKETING SERVICE
DEFENSE REUTILIZATION AND MARKETING REGION - COLUMBUS
P O BOX 3990
COLUMBUS, OHIO 43216-5000

09 DEC 1985

IN REPLY REFER TO DRMR-COH

SUBJECT: 1630105014/St. Clair County Belleville/Scott AFB: Defense Reutilization and Marketing Service

Mr. Mark A. Haney, Manager
Facilities Compliance Unit
Compliance Monitoring Section
Illinois Environmental Protection Agency
Division of Land Pollution Control
2200 Churchill Road
Springfield, IL 62706

RECEIVED
DEC 12 1985
IEPA-DLPC

Dear Mr. Haney:

Reference: Compliance Inquiry Letter, 7 Nov 85, to Defense Reutilization and Marketing Service, Scott AFB, IL 62225.

On Wed, 20 Nov 85, Mr. Thomas Migdalski of this office discussed reference with Mr. Thomas Powell. A reply is currently being written and will be coordinated with our higher headquarters. During the discussion, Mr. Powell gave us a tentative extension of 60 days to respond to reference.

If you have any questions, please contact Mr. Thomas Migdalski, (614)238-2171.

Sincerely,

RECEIVED
DEC 19 1985
IEPA-DLPC

Darrell M. Chancellor
DARRELL M. CHANCELLOR
MAJ, USA
Chief, Operations Division

cc:
DRMO Scott (ATTN: Mr. C.B. Webb)
DRMS-G (ATTN: Ms. Sharon Philo)

RECEIVED
DEC 17 1985
ILL. E.P.A. - D.L.P.C.
STATE OF ILLINOIS

DEFENSE LOGISTICS AGENCY
DEFENSE REUTILIZATION AND MARKETING SERVICE
DEFENSE REUTILIZATION AND MARKETING REGION - COLUMBUS
P.O. BOX 8900
COLUMBUS, OHIO 43216 8000

09 DEC 1985

IN REPLY REFER TO DRMR-COH

SUBJECT: 1630105014/St. Clair County Belleville/Scott AFB: Defense Reutilization and Marketing Service

Mr. Mark A. Haney, Manager
Facilities Compliance Unit
Compliance Monitoring Section
Illinois Environmental Protection Agency
Division of Land Pollution Control
2200 Churchill Road
Springfield, IL 62706

Dear Mr. Haney:

Reference: Compliance Inquiry Letter, 7 Nov 85, to Defense Reutilization and Marketing Service, Scott AFB, IL 62225.

On Wed, 20 Nov 85, Mr. Thomas Migdalski of this office discussed reference with Mr. Thomas Powell. A reply is currently being written and will be coordinated with our higher headquarters. During the discussion, Mr. Powell gave us a tentative extension of 60 days to respond to reference.

If you have any questions, please contact Mr. Thomas Migdalski, (614)238-2171.

Sincerely,

Darrell M. Chancellor

DARRELL M. CHANCELLOR
MAJ, USA
Chief, Operations Division

cc:
DRMO Scott (ATTN: Mr. C.B. Webb)
DRMS-G (ATTN: Ms. Sharon Philo)

Illinois Environmental Protection Agency · 2200 Churchill Road, Springfield, IL 62706

217/782-6761

Refer to: 1630105014/St. Clair County
Belleville/Scott AFB: Defense Reutilization and Marketing Service-Non-Notifier

COMPLIANCE INQUIRY LETTER

Certified # P 594 558 569

November 7, 1985

Defense Reutilization & Mkg. Service
Attn: Mr. Webb
Building 4141
Scott Air Force Base, IL 62225

Defense Reutilization & Mkg. Service
DRMR-CRH
P.O. Box 3990
Columbus, PA 43216-5000

Mr. Gruner:

The purpose of this letter is to address the status of the above-referenced facility in relation to the requirements of 35 Ill. Adm. Code Part 725, Subparts B, C, D, E, G and I and to inquire as to your position with respect to the apparent violations identified in Attachment A and your plans to correct these apparent violations. The Agency's findings of apparent non-compliance in Attachment A are based on an inspection completed on May 8, 1985. For your convenience a copy of the inspection report is enclosed with this letter.

Please submit in writing, within fifteen (15) calendar days of the date of this letter, the reasons for the identified violations and a description of the steps which have been taken to correct the identified violations. The written response should be sent to the following:

Mark A. Haney, Manager
Facilities Compliance Unit
Compliance Monitoring Section
Illinois Environmental Protection Agency
Division of Land Pollution Control
2200 Churchill Road
Springfield, Illinois 62706

Further, take notice that non-compliance with the requirements of the Illinois Environmental Protection Act and rules and regulations adopted thereunder may be the subject of enforcement action pursuant to either the Illinois Environmental Protection Act, Ill. Rev. Stat., Ch. 111 1/2, Sec. 1001 et seq. or the federal Resource Conservation and Recovery Act (RCRA), 42 U.S.C. Sec. 6901 et seq.

If you have any questions regarding the above, please contact Tom Powell at 618/345-4606.

Sincerely,

Mark A. Haney, Manager
Facilities Compliance Unit
Compliance Monitoring Section
Division of Land Pollution Control

MAH:DF:st:2745e/8

cc: Division File
Southern Region
Bruce Carlson
Tom Powell
Bur Filson
Colonel Ashdown-Scott AFB

Attachment A

Pursuant to 35 Ill. Adm. Code 703.150(a) - Failure to submit "Part A" of the RCRA permit application addressing hazardous waste management activities at the facility.

Pursuant to 35 Ill. Adm. Code 725.111, every facility owner or operator must apply to USEPA for a USEPA identification number in accordance with the USEPA notification procedures (45 FR 12746). You are in apparent violation of this Section in that you have not applied for a USEPA identification number for your facility.

Pursuant to 35 Ill. Adm. Code 725.113(a), the owner or operator is required to conduct a detailed chemical and physical analysis of a representative sample of hazardous waste prior to storage. You are in apparent violation of 35 Ill. Adm. Code 725.113(a) for the following reason: Failure to obtain a detailed chemical and physical analysis of a representative sample of the waste.

Pursuant to 35 Ill. Adm. Code 725.113(b), the owner or operator must have on file at the facility a detailed written waste analysis plan describing the procedures to be used to compile data required under Section 725.113(a). You are in apparent violation of 35 Ill. Adm. Code 725.113(b) since no such plan was present at the site on the date of the inspection.

Pursuant to 35 Ill. Adm. Code 725.113(c), the owner or operator of an off-site facility is required to specify in the waste analysis plan required in 725.113(b) the procedures which will be used to inspect and, if necessary, analyze each movement of hazardous waste received at the facility to insure that it matches the identity of the waste designated on the accompanying manifest. You are in apparent violation of 35 Ill. Adm. Code 725.113(c) in that at the time of the inspection, the owner or operator had not specified procedures for inspection and analysis of hazardous waste in a waste analysis plan.

Pursuant to 35 Ill. Adm. Code 725.114(c), the owner or operator must post a sign with the legend "Danger-Unauthorized Personnel Keep Out" at each entrance to the active portion of the facility and at other locations which can be seen from any approach to this active portion. At the time of the inspection, no sign was noted, which is in apparent violation of the section.

Pursuant to 35 Ill. Adm. Code 725.115(a), the owner or operator must inspect his facility for malfunctions and deterioration, operator errors and discharges that may be causing or may lead to a release to the environment or a threat to human health. You are in apparent violation of 35 Ill. Adm. Code 725.115(a) in that the required inspections are not being made.

Pursuant to 35 Ill. Adm. Code 725.116(a), facility personnel must complete a program of classroom instruction or on-the-job training directed by a person trained in hazardous waste management procedures. The training must be designed to ensure that facility personnel are able to respond to emergencies. You are in apparent violation of 35 Ill. Adm. Code 725.116(a) for the following reasons: Failure to develop and maintain a RCRA training program that would fulfill the requirements of Section 725.116.

Pursuant to 35 Ill. Adm. Code 725.151(a), each owner or operator must have a contingency plan. The contingency plan must be designed to minimize hazards to human health or the environment from fires, explosions or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil or surface water. You are in apparent violation of 35 Ill. Adm. Code 725.151(a) for the following reasons: Failure to develop and maintain a RCRA contingency plan.

Pursuant to 35 Ill. Adm. Code 725.153, a copy of the contingency plan and all revisions to the plan must be:

a) Maintained at the facility;

b) Submitted to all local police departments, fire departments, hospitals and state and local emergency response teams.

You are in apparent violation of 35 Ill. Adm. Code 725.153 in that condition a and b above were not complied with.

Pursuant to 35 Ill. Adm. Code 725.171(a), if a facility receives hazardous waste accompanied by a manifest, the owner or operator must sign and date each manifest to certify that the hazardous waste covered by the manifest was received and note any discrepancies on the manifest. He must immediately give the transporter a copy of the signed manifest and within 30 days of delivery send a copy of the manifest to the generator and to the Agency. A copy of each manifest must then be retained at the facility for at least three years. You are in apparent violation of 35 Ill. Adm. code 725.171(a) for the following reason: Failure to utilize a uniform hazardous waste manifest for incoming shipments of hazardous waste.

Pursuant to 35 Ill. Adm. Code 725.173, the owner or operator must keep a written operating record at the facility. The operating record must include the following:

1. A description and the quantity of each hazardous waste received and the method(s) and date(s) of its treatment, storage or disposal at the facility as required by Appendix I of 35 Ill. Adm. Code 725.173;

2. The location and quantity of each hazardous waste within the facility including cross-references to specific manifest document numbers;

3. Records and results of waste analyses and trial tests;

4. Summary reports and details of all incidents that require implementation of the contingency plan;

5. Records and results of inspections;

6. Monitoring, testing and other analytical data;

7. All closure cost estimates and, for disposal facilities, all post-closure cost estimates.

You are in apparent violation of 35 Ill. Adm. Code 725.173 in that the operating record did not include numbers 1 through 7 above.

Pursuant to 35 Ill. Adm. Code 725.175, the owner or operator must prepare and submit a single copy of an annual report to the Director by March 1 of each year. The annual report must cover facility activities during the previous calendar year and must include the following information:

a) The EPA identification number, name and address of the facility;

b) The calendar year covered by the report;

c) For off-site facilities, the EPA identification number of each hazardous waste generator from which the facility received a hazardous waste during the year; for imported shipments, the report must give the name and address of the foreign generator;

d) A description and the quantity of each hazardous waste the facility received during the year. For off-site facilities this information must be listed by EPA identification number of each generator;

e) The method of treatment, storage or disposal for each hazardous waste;

f) Monitoring data under Section 725.194(a)(2)(B) and (C) and (b)(2) where required;

g) The most recent closure cost estimate under Section 725.242 and for disposal facilities the most recent post-closure cost estimate under Section 725.244;

h) The certification signed by the owner or operator of the facility or his authorized representative.

You are in apparent violation of 35 Ill. Adm. Code 725.175 in that your annual report did not include numbers a through h above.

Pursuant to 35 Ill. Adm. Code 725.212(a), by May 19, 1981, the owner or operator must have a written closure plan. A copy of the closure plan and all revisions must be kept at the facility until closure is completed and certified.. The closure plan must include at least:

1. A description of how and when the facility will be partially closed, if applicable, and finally closed. The plan must identify how the requirements of Sections 725.211, 725.213, 725.214 and 725.215 and applicable requirements of 725.297, 725.328, 725.380, 725.410, 725.451, 725.481 and 725.504 will be met;

2. An estimate of the maximum inventory of wastes in storage and in treatment at any time during the life of the facility;

3. A description of the steps needed to decontaminate facility equipment during closure;

4. An estimate of the expected year of closure and a schedule for final closure;

5. A provision for closure certification by an independent registered professional engineer.

You are in apparent violation of 35 Ill. Adm. Code 725.212(a) for the following reason: Failure to develop a RCRA closure plan.

Pursuant to 35 Ill. Adm. Code 725.274, the owner or operator must inspect areas where containers are stored at least weekly, looking for leaks and for deterioration caused by corrosion or other factors. You are in apparent violation of 35 Ill. Adm. Code 725.274 for the following reason: Failure to conduct required inspections.

TEP:jlr/0050A

RESPONSE TO 11/12/85 CIL Belleville/Scott AFB:DRM

DEFENSE LOGISTICS AGENCY
DEFENSE REUTILIZATION AND MARKETING OFFICE-SCOTT
BUILDING 4141
SCOTT AIR FORCE BASE, ILLINOIS 62225-5000

IN REPLY REFER TO DRMO-SCOTT (Cozzie B. Webb Jr./3105/vj) 14 Nov 1985

SUBJECT: Compliance Inquiry Letter, dtd 7 Nov 85

TO: Mr. Mark A. Haney
Facilities Compliance Unit
Compliance Monitoring Section

1. The sand mentioned in the remarks was in fact, delivered to the DRMO as hazardous material with possible reutilization, transfer, donation and sales potential. Sand is used in many types of filtering systems and as required, an effort was made to sell the sand as opposed to reclassifying it as hazardous waste and contracting for it's removal. As directed by the Department of Defense and encouraged by RCRA, all avenues for recycling of materials are utilized in effort to minimize and reduce waste stream actions.

2. As with all hazardous materials, when every effort has been expended for R/T/D and Sales. Our alternative is to reclassify hazardous material as hazardous waste.

3. The sand was in fact reclassified as hazardous waste, not as a result of the ISS Inspection, but by DOD policies and procedures. It was disposed of in full accordance with 40 CFR.

4. This report is being forwarded to both the Defense Reutilization and Marketing Service Legal Department and the Defense Reutilization and Marketing Region Environmental Branch for necessary action.

5. In an effort of cooperation this office will assist in any way possible should you need any further information.

COZZIE B. WEBB JR.
Property Disposal Officer

RECEIVED
NOV 18 1985
EPA-R5-IPC

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY MEMORANDUM

DATE: July 30, 1985

TO: Division File

FROM: Tom Powell TEP - DLPC - Collinsville

SUBJECT: LPC 1630105014 - St. Clair County - Belleville/Scott Air Force Base (DPDO)
RCRA Non-Notifier Defense Property Disposal Office

During a May 8, 1985 ISS inspection at Scott Air Force Base, a visit was made to the Defense Property Disposal Office (DPDO) which is located on the base. The DPDO, is a tenant of the base and is not directly related to the base operations, other than occupying base property. The DPDO, supervised by a Mr. Webb, has the responsibility of disposing of all defense property, including waste materials. The surplus defense property is transported from various Dept. of Defense (DOD) installations for storage at the Scott DPDO until it is sold as surplus. If the material is a predetermined hazardous waste, it is usually held at the generation point until disposal arrangements are made. DPDO defines waste material as that material that has no outlet, reutilization or reuse. If someone would pay for the material it is not considered a waste, unless the material is a predetermined waste pursuant to CFR 40.

During this visit it was discovered that 15, 55 gallon drums of ballistic sand, contaminated with lead bullets, were being stored at the DPDO yard. (not a RCRA facility) The sand reportedly came from a Navy Reserve Unit's rifle range located in St. Louis, Missouri. It is suspected, by this writer, that this sand is hazardous, due to previous experience with ballistic sand.

In speaking with Mr. Webb, he stated that the sand is considered a hazardous material, not a hazardous waste, because the DPDO has not had to pay for it's disposal, nor was it a predetermined hazardous waste. As such, the material was shipped to Scott pursuant to DOT CFR 49 regulations not EPA regulations. Consequently, no manifests were utilized in the shipment of this material to Scott. This writer stated that the material is a waste, and should have been sent accompanied by a manifest. Mr. Webb refuted this saying that DPDO has not yet classified the material as a waste. (Because it was not a predetermined waste or because DPDO had not yet had to pay for disposal.) Asked if there is a waste analysis for the material, Mr. Webb said no because it is not yet a waste. If the DPDO could receive any monetary compensation, they would allow the material to leave the site as surplus, to whomever bid on the material.

In a July 26, 1985 phone conversation with Mr. Webb, he stated that the ballistic sand was "reclassified" as a hazardous waste, after this writer's visit. He said that as soon as he made the determination that the sand was hazardous waste, (which he has the option to do) he transferred the drums to the "Aqua Yard" at the base. (The Aqua Yard is a listed storage site on Scott's Part A, however the design capacity of the Aqua Yard is presently 690 gallons.)

RECEIVED
JUL 31 1985
IEPA-DLPC

Mr. Webb stated that the material was shipped on 6/10/85 to a Michigan facility along with a Michigan manifest (#MI0627926). The material arrived on 6/13/85. Generally, if DOD installations have generated a predetermined hazardous waste, per CFR 40, the material will remain at that DOD facility until DPDO can make the proper arrangements with a contractor. However, this was not the case with this material. It appears that Subpart C: Characteristic Hazardous Waste could again be handled similarly in the future. Further, it is strongly suspected that the sand was shipped to Michigan using Scott's USEPA identification number when, in fact, they did not generate the material. Agency printouts list Scott's USEPA ID number for the DPDO facility.

Presently, there are discussions that the DPDO is going to move from Scott to the Granite City Army Depot. If this is the case, the DPDO will most likely become a T/S/D and will certainly need its own Part A, ID number, etc.

TEP:jlr

cc: Larry Eastep
cc: Rama Chaturvedi
cc: Bur Filson
cc: Bruce Carlson
cc: DLPC - Collinsville

RECEIVED
JUL 31 1985
IEPA-DLPC

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 375TH AIR BASE GROUP (MAC)
SCOTT AIR FORCE BASE, ILLINOIS 62225

11 MAR 1983

REPLY TO ATTN OF DEEV

SUBJECT Scott AFB Hazardous Waste Management Plan (Our Ltr, 23 Feb 83)

IL7570024177 PA, G TSD, [redacted]

TO See Distribution

Attached Appendix E, Hazardous Waste Accumulation Points, was inadvertently deleted from the subject plan in distribution. Please include this appendix in your copy(s) of the plan.

FLOYD M. DRUMMOND
Chief, Engrg & Envmtl Planning Br

1 Atch
Appendix E

Cy to: Illinois Environmental
Protection Agency
Mr Robert Kukendall, Manager
Division of Land Pollution Control
2200 Churchill Road
Springfield IL 62706

Illinois Environmental
Protection Agency
115A West Main Street
Collinsville IL 62234

WASTE MANAGEMENT
BRANCH
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3/23/83

35th United States AIR FORCE ANNIVERSARY
READY THEN READY NOW

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375 AAW/SEG	1
375 ABG/CC	1
375 ABG/DE	2
375 ABG/DEM	10
375 ABG/DEMR	1
375 ABG/DEMRC (Service Call Desk)	1
375 ABG/DEE	20
375 ABG/DEEV	2
375 ABG/DEF	2
375 ABG/DW	1
375 ABG/SPO	1
375 ABG/SV	1
375 ABG/JA	1
USAF Med Cen, Scott/SGPM	1

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 375TH AIR BASE GROUP (MAC)
SCOTT AIR FORCE BASE, ILLINOIS 62225

IL7570024177 G,TSO,PA

REPLY TO ATTN OF: DEEV (Mr. Everett, 2092)

23 FEB 1983

SUBJECT: Scott AFB Hazardous Waste Management Plan

TO: See Distribution

Attached for implementation is the Hazardous Waste Management Plan. This plan explains the procedures and policies to be followed in storing, treating, and handling of hazardous wastes. Should you have any questions concerning use of this plan, please contact Mr. Mark D. Everett, 618-256-2092.

FLOYD M. DRUMMOND
Chief, Engrg & Envmtl Planning Br

1 Atch
Hazardous Waste Mgmt Plan

Cy to: Illinois Environmental
Protection Agency
Mr. Robert Kuykendall
Manager
Division of Land Pollution Control
2200 Churchill Road
Springfield, IL 62706

Illinois Environmental
Protection Agency
115A West Main Street
Collinsville, IL 62234

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3/01/83

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FEB 25 1983
U.S. EPA, Region V
WASTE MANAGEMENT DIVISION
OFFICE OF THE DIRECTOR

RECEIVED
FEB 25 1983
WASTE MANAGEMENT BRANCH

FROM: Karl J. Klepitsch, Jr.
TO: C. Christenson
B. Miner

38th United States AIR FORCE ANNIVERSARY
READY THEN READY NOW

HQ 375 ABG (MAC)
Scott AFB IL 62225
October 1982

375 ABG OPLAN 19-8

SCOTT AIR FORCE BASE MANAGEMENT PLAN

HAZARDOUS WASTE MANAGEMENT PLAN

375 Civil Engineering Squadron
Scott Air Force Base, Illinois

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375 AAW/CAMS	1
375 AAW/DOC	1
375 AAW/PA	1
375 ABG/DA	1
375 AAW/LGS	1
375 AAW/LGSF	1
375 AAW/SEG	1
375 ABG/CC	1
375 ABG/DE	2
375 ABG/DEM	10
375 ABG/DEMR	1
375 ABG/DEMRC (Service Call Desk)	1
375 ABG/DEE	20
375 ABG/DEEV	2
375 ABG/DEF	2
375 ABG/DW	1
375 ABG/SPO	1
375 ABG/SV	1
375 ABG/JA	1
USAF Med Cen, Scott/SGPM	1

SCOTT AIR FORCE BASE MANAGEMENT PLAN

Hazardous Waste Management Plan

I. Introduction.

This plan establishes procedures, assigns responsibilities, and provides guidance for environmentally acceptable storage, transportation, and disposal of hazardous wastes on Scott AFB.

II. Policy.

It is the policy of Scott AFB to store, transport, and dispose of hazardous wastes in accordance with environmentally acceptable standards, rules, and regulations. Among the requirements of this policy are the following: (1) Minimize hazardous waste generation at the source by improving operations and maintenance procedures; (2) segregate storage of hazardous waste (separate 55 gallon drums) to minimize disposal problems; (3) prevent accidental spillage of hazardous wastes into floor drains or onto the ground; (4) follow the guidelines established by this plan in the storing, transporting, and disposing of hazardous wastes.

III. References.

1. Resource Conservation and Recovery Act (RCRA) of 1976 - This is the legislation which is the basic rules generating document for the Management of Hazardous Waste.

2. 40 Code of Federal Regulations (CFR) 260, 261, 262, 263, 264, and 265 - These are rules issued by the Environmental Protection Agency (EPA) to define the standards for Hazardous Waste Management.

3. 49 CFR 171, 172, 173, 178 and 179 - These are rules issued by the Department of Transportation (DOT) which defines the standards for packaging and transporting of hazardous materials and waste.

4. Air Force Implementing Instructions 1 thru 4 issued by Headquarters Air Force Engineering and Services Center.

5. Defense Logistics Agency (DLA) guidance issued as a series of messages.

6. Illinois Environmental Protection Act, Public Act 76-2429, 1 July 1970.

IV. Definitions.

1. Hazardous Waste. A hazardous waste is a hazardous material that no longer has a legitimate use on the installation or has become a waste product. The Resource Conservation and Recovery Act of 1976 provided the basic definition of a hazardous waste. This was further defined by 40 CFR Part 261 to include wastes specifically listed by the EPA and wastes that exhibited certain characteristics of ignitability, corrosivity, reactivity, or EP toxicity.

2. Generator or Generating Activity. Any activity such as 375 AAW/MA, 375 ABG/DE, 375 AAW/LGS which utilizes hazardous materials and accumulates excesses due to overage, other product contamination, or by not being consumed in a finished product.

3. Accumulation Point. That area in or near the work place where hazardous wastes are accumulated prior to transfer to the interim storage location.

4. Hazardous Waste Manager. A single point contact for each generating activity who is responsible for records keeping, organizational management, unit training, and liason with other elements or organizations.

5. Records Keeping. The process of implementing maintaining written data to track the storage and disposition of hazardous wastes.

6. Disposal Agency. The Defense Property Disposal Office (DPDO) Scott is the agency responsible for the final disposal of hazardous wastes.

7. Disposal and Turn In Document (DTID). (DD Form 1348-1). This is the document required to transfer accountability and/or physical custody of hazardous wastes to the disposal agency.

8. Labeling. The process of container identification. The hazardous waste generating activity is responsible for properly labeling and identifying containers.

9. Manifest. The document required to transport hazardous waste to and from the installation. (excludes on-base transportation)

10. Recoverable Waste. Any waste which can be reclaimed under a plan or program such as the Scott Air Force Base Waste Petroleum Product Recovery Plan. Hazardous Waste managers must ensure that recoverable wastes are segregated and not contaminated with hazardous wastes.

11. Exclusions. The following wastes are excluded management under this plan:

a. Garbage

b. Radioactive wastes

c. Asbestos

d. Recoverable petroleum products

e. Munitions and explosives

f. Domestic sewage

g. Mining wastes

h. Fly ash

i. Drilling wastes

j. Irrigation wastewater

V. Hazardous Waste Criteria.

1. For a waste to be called hazardous, it has to either be specifically listed by the EPA or it has to exhibit one or more of the following characteristics: ignitability, corrosivity, reactivity, or EP toxicicity. See Appendix A for a definition of each of these characteristics. If you have reason to believe your waste might be in Appendix A, call the Base Environmental Coordinator at Extension 4165. Most hazardous wastes found at Scott will be specifically listed by category. A list of those wastes currently found here is shown on Appendix B. As additional wastes are identified, the list will be expanded.

2. Non-listed Wastes. If for some reason, a generating activity has doubts about a specific waste material as to whether or not that material is hazardous, the activity should first consult the hazardous waste listing on Appendix B. If the waste is not listed and the generating activity still has doubts about the material, they should call the Base Environmental Coordinator, extension 2092/4165. Precise chemical breakdown or label data must be available to determine whether or not the material is a hazardous waste. Additionally, the use of the material i.e. cleaning agent such as methyl ethyl ketone (MEK) used to clean fabric or rubber aircraft parts must be made known.

3. Use of the Hazardous Waste List. To assist generating activities in identifying hazardous or potential hazardous wastes, the following examples are provided.

a. Case I. The 375 AAW/CAMS has been electroplating with a cadmium plating solution for about 4 years. The solution has become contaminated with sludge, grit, and an imbalance of electroplating metals. The shop foreman has requested disposal of the material. The hazardous waste manager for the 375 AAW/CAMS reviews the hazardous waste management plan and determines that the electroplating solution meets the criteria for EPA Hazardous Waste No. F007 (found on Appendix B), "spent plating bath solutions from electroplating operations." Accordingly, the waste is a hazardous waste and must be handled as such and disposed by Defense Property Disposal Office.

b. Case II. A worker at the Golf Course discovers a 55 gallon drum of a pesticide labeled Lindane stored in a shed. A sample of the waste is tested for EP toxicity according to the guidelines in Appendix A of this plan. It is determined by the tests that the waste contains 1.4 milligrams per liter of 1, 2, 3, 4, 5, 6 hexachlorocyclohexane gamma isomer. The waste is a hazardous waste (EPA Hazardous Waste Number D 013) and must be handled and disposed as such by the Defense Property Disposal Office.

4. Once a generator/generating activity has identified a hazardous waste the packaging, storing, and disposing of that waste must be accomplished according to the guidance contained in this plan.

VI. Hazardous Waste Packaging Guidance.

1. Purpose. This guidance is to provide assistance to generating activities in complying with hazardous waste packaging requirements prescribed under 40 CFR, Part 262, Subpart C of EPA's implementing regulations. Proper packaging is required for accumulation, storage, and transportation of any hazardous waste. This implementing guidance covers only common packaging requirements.

2. Packaging Reference Material.

a. 40 CFR, Part 262, Subpart C. This subpart gives general pre-transportation requirements covering packaging, labeling, marking, placarding, and temporary storage containers.

b. 49 CFR, Parts 171, 172, 173, 178, 179. EPA has indicated that hazardous waste will be packaged in accordance with Department of Transportation (DOT) regulations. On 22 May 1980, the DOT promulgated rules to insure proper transportation of hazardous waste.

(1) 49 CFR, Part 172.101 is a DOT Hazardous Materials Table which references applicable packaging requirements for specific hazardous materials.

(2) 49 CFR, Part 173 provides the actual packaging requirements identifying the types of containers acceptable.

(3) 49 CFR, Part 178 describes the required specifications for each type of container.

3. Marking and Labeling Guidance.

No person may offer or accept a hazardous waste for transport in the United States unless that material is properly classed, described, packaged, marked, labeled, and in good condition for shipment in accordance with DOT Transportation of Hazardous Materials regulations. It is the duty of the generator of a hazardous waste to insure that it is placed in a proper container, marked and labeled. This requirement applies as soon as one starts accumulating hazardous waste.

a. Marking and Labeling. Marking and labeling is required by DOT regulations in addition to the hazardous waste marking and labeling required by EPA. Labeling should be accomplished in accordance with the appropriate 40 CFR regulations. Marking shall be as follows:

(1) Noun name of hazardous waste and the DOT identification number.

(2) Name and address of generating activity.

(3) The EPA Permit Number for Scott AFB: IL 7570024177

(4) Date of initial containerization.

(5) Weight in kilograms.

(6) Statement to the effect that waste is hazardous.

Appendix C shows typical examples of labels and hazardous waste markings that are available and used.

b. Containers. Each container used for shipping wastes must meet DOT specifications. Specifications are listed in CFR Part 178. If an existing container was previously authorized for use, it may continue to be used under most conditions. Also, a container that is damaged or leaking hazardous wastes may be placed in a metal, removable-head salvage drum that has equal or greater structural integrity than the original container. Containers that hazardous materials were shipped in should be retained because they will generally meet the packaging requirements for that material when it becomes a hazardous waste. Appendix D shows a typical steel drum used for shipping hazardous wastes. The regulations governing the reuse of containers are given in 49 CFR, Part 173.28. Special attention should be given to paragraph (p) of this reference as it authorizes use of single-trip containers (STC) and nonreusable containers (NRC) for hazardous waste under specified conditions. For most hazardous wastes here at Scott, the following type hazardous waste shipping drum is adequate: Stock No. 8110-01-101-4056, recovery drums, 85 gal, 16 gauge steel, sprayed on epoxy phenolic lining which meets DOT standards. It is suggested that each generating activity obtain a small quantity of these drums.

4. Generating activities should contact the 375 Supply Squadron Extension 2291 for information and guidance on proper packaging of hazardous wastes.

VII. Accumulation Point Management.

1. General. The accumulation point is that area in or near the work place where hazardous wastes are accumulated prior to transfer to the interim storage location on the base. Storage in the accumulation point is temporary and must not exceed 90 days from the time waste begins to accumulate in containers. This activity does not require a permit under RCRA, but it is subject to certain procedural requirements. Appendix E shows the location of all hazardous waste accumulation points.

2. Generating activities must identify in writing, a hazardous waste manager responsible for each accumulation point. The hazardous waste manager has the following duties and responsibilities:

a. Assurance that wastes are placed in proper containers and date accumulation begins is posted on the container.

b. Assurance that hazard warnings are posted and containers are kept closed.

c. Assurance that wastes are kept segregated and that hazardous wastes are not comingled with non hazardous wastes i.e. trichloroethylene is not mixed in the same drum as PD 680.

d. Inspection of containers on a weekly basis and remedial action initiated for leaks, spills, or improper storage.

e. Documentation of inspections on the Hazardous Waste Management Inspection Log shown as Appendix F.

f. Notification of proper installation authority in event of spills. Refer to Scott AFB OPLAN 19-1 to implement spills control plan.

g. Assurance that the hazardous wastes generated by that activity are transferred to the interim storage locations (Bldg 540 or the aqua yard) prior to the 90 day expiration of accumulation point storage.

3. The hazardous waste manager shall notify the Base Environmental Coordinator (extension 2092) when a hazardous waste must be transferred to one of the two hazardous waste interim storage locations. It is the responsiblity of the generator/generating activity to insure that hazardous wastes are properly transferred.

4. Records Keeping. Inspection records must be kept by the generating activity for a period of at least three years. These records will be kept by the hazardous waste manager. The records must include as a minimum: (See Appendix F)

a. Date of inspection.

b. Number of containers and listing of each waste stored.

c. Date waste accumulation began for each container.

d. Contents of each container identified in accordance with the hazardous waste nomenclature and EPA hazardous waste number shown on Appendix B, i.e., F005 "the spent non-halogenated solvent methyl ethyl ketone."

e. Condition of container i.e. good condition, rusting, leaking.

f. Any special handling instructions.

VIII. Storage Facilities Management.

1. General. Paragraph VII identified the procedures and requirements to follow to accumulate hazardous wastes at the work place. The Environmental Protection Agency has published regulations which establish requirements to follow for facilities which store hazardous wastes in excess of 90 days or which receive waste from off site facilities. Scott AFB operates two facilities as interim storage facilities for hazardous waste. These facilities, operated under EPA ID No. IL 7570034177, are Buildings 59 and 540. These are interim storage facilities and are being utilized until the DPDO constructs permanent hazardous waste storage facilities. Appendix E is a location map showing the location of these facilities on the base.

2. Physical Facility Requirements. Both facilities meet the interim storage requirements of 40 CFR, Part 265, Subpart B, General Facility Standards. These facilities are adequately secured, signed, and marked.

3. Waste Storage Procedures. Generators/generating activities shall comply with the following procedures prior to transferring hazardous wastes to the interim storage facilities:

a. All requirements of paragraph VII, Accumulation Point Management will be met prior to transferring hazardous waste.

b. Complete the Disposal and Turn In Document (DTID), DD Form 1348-1, in accordance with the sample shown at Appendix G. This document also serves as the manifest for the hazardous waste and must accompany the waste material to the storage site and on all future transactions.

c. Forward the Disposal and Turn-In Document (DTID) DD Form 1348-1 to a servicing Defense Property Disposal Office for continued action.

d. Contact the Base Environmental Coordinator (extension 2092) prior to transferring the hazardous waste.

e. Make all necessary arrangements to transport the waste to the hazardous waste storage site.

4. Inspection Procedures. Both hazardous waste storage sites will be inspected on an annual basis. This inspection will be accomplished on the Form shown on Appendix F by the Base Environmental Coordinator and records will be kept of the inspection (records must be kept for a minimum of three years). The inspection will provide the following information:

a. Date of inspection.

b. Number of containers and listing of each waste stored.

c. Contents of each container identified in accordance with the hazardous waste nomenclature and EPA hazardous waste number shown on Appendix B.

d. Condition of container.

5. Training Procedures. Training for those personnel required to enter or work in the two hazardous waste disposal sites will be conducted on an annual basis. The training will consist of the following:

a. Facility operations.

b. Emergency response.

c. Use of emergency equipment.

Records of the training will be kept by the employees supervisor. Individual employee records (AF Form 971 for civilians, and AF Form 991 for military) shall be annotated to reflect completion of training.

6. Fire Protection Procedures.

a. General. Extreme caution and care must be exercised at both interim hazardous waste storage sites to insure adequate fire protection. Adequate aisle space will be maintained to insure access for emergency personnel and equipment. Containers for ignitable or reactive waste must not be comingled, signs must be posted prohibiting smoking or open flame, and adequate fire extinguishers must be available to assist in fire fighting.

b. Fire protection personnel shall inspect the hazardous waste sites on an annual basis to insure appropriate fire protection actions are being taken and to recommend improvements in storage or operational procedures that will improve fire protection.

c. Any individual that notices a fire in either of the hazardous waste interim storage sites shall notify the base Fire Department extension 117 immediately. The fire department shall follow Standard Operating Procedures for fighting and containing a fire in a hazardous waste storage site. To assist the fire department in fighting fires at these locations, an up to date list of the hazardous waste stored in the storage sites will be furnished to the fire department on a quarterly basis.

7. Emergency Assistance Procedures. Emergency assistance procedures have been well documented in two existing contingency plans. These plans are:

a. Scott AFB OPLAN 355-1, Base Disaster Prepardness Operations Plan is the overall guideline that directs the activities to manage a disaster on the base. This plan is implemented by the commander whenever a potential disaster may threaten the primary mission, injure lives,

property, or facilities, or cause a natural or manmade threat to Scott AFB. In the event of a threat from a hazardous waste mishap, the plan will be implemented.

b. Scott AFB OPLAN 19-1 Spill Prevention Control and Countermeasures Plan (SPCC) addresses the necessary actions, both normal operating and emergency, to take in the event of a spill or mishap with a hazardous waste.

Both of these plans address the full range of emergency response assistance available from non-Air Force agencies, available equipment, and will be implemented in the event emergency actions are necessary.

8. Contingency Plan Procedures. Scott AFB OPLAN's 355-1 and 19-1 both adequately address contingency actions that have to be taken in the event of a spill or accident. The plans also address the on-scene coordinators role in directing implementation of the plan. Either one or both of these plans will be implemented in the event of a spill or accident involving hazardous waste.

9. Closure Plan.

a. General. The final closure of the two storage facilities will involve packaging of the hazardous wastes still in storage in containers meeting DOT specifications or in recovery drums, and shipping the wastes to the nearest approved hazardous waste storage site not identified for closing. The location of this site will have to be determined at the time the present storage facilities are scheduled for closing.

b. Procedures. The Base Environmental Coordinator will notify all agencies on base that the hazardous waste storage facilities are scheduled for closure and no more hazardous wastes will be accepted. At this time, these agencies will be given instructions on where to ship additional accumulations of waste. Existing procedures for packaging and accumulation point management will ne followed as per the Hazardous Waste Management Plan. Appropriate shipping documents (DD Form 1348-1) will be completed for the wastes and the wastes will be shipped to the closest operating hazardous waste management storage facilities.

c. Building 540. All facilities (floor, walls, overhead crane) will be thoroughly cleaned three times with the rinsate being collected in DOT approved storage drums and shipped to the nearest hazardous waste storage site. All records will be reviewed for accuracy and completeness and then transferred to the Base Environmental Coordinator. The building will then be locked and signs will be posted indicating the facility has been closed.

d. Building 59 Aqua Yard. The procedure above will be followed.

e. Closure Schedule. It is estimated that 15 days, including time to ship wastes out of the storage sites, will be required to close the facility. The schedule is as follows:

CLOSURE PLAN SCHEDULE

	START	DAYS	END
Facilities Packaging	///	5	///
Cleaning	///	3	///
Drum Removal	///	5	///
Records Closure	//	1	//
Lock Up & Signing	//	1	//

10. Records Keeping Procedures.

a. Chronological Log. This is a manual log of all hazardous waste transactions using the DD Form 1348-1 (Turn-In-and-Disposal Document) as the initiating document. The log will be kept at each hazardous waste storage site (Bldgs 59 & 540) and will consist of the following information:

(1) Date waste initially received.

(2) Date waste dispatched from storage facility.

(3) Copy of DD Form 1348-1.

The information will be kept in a weatherproof container or inside the building for a period of three years or until the waste is removed from the storage site, whichever comes last.

b. File of Completed DD Forms 1348-1. A file of completed DD Form 1348-1's indicating that the hazardous waste has been final disposed, will be kept by the Defense Property Disposal Office (DPDO). If other manifest forms are used by disposal contractors, copies of these forms shall be maintained by DPDO for a three year period.

c. Site Document File. This file will contain an accumulation of documents that are required to determine the status of the hazardous waste facility. The file of information, maintained by the Engineering and Environmental Planning Branch, Base Civil Engineering, will include:

(1) Operating permit.

(2) Procedures for closure and post-closure monitoring.

(3) Sampling results on hazardous wastes stored in the facilities.

(4) Annual reports and copies of inspection results.

APPENDIX A

Characteristics of Hazardous Wastes

261.21 Characteristics of Ignitability.

a. A solid waste exhibits the characteristic of ignitability if a representative sample of the waste has any of the following properties:

(1) It is a liquid, other than a aqueous solution containing less than 24 percent alcohol by volume, and has a flash point less than 60 degrees C (140 degrees F), as determined by a Pensky-Martena Closed Cup Tester, using the test method specified in ASTM Standard D-93-79, or a Setaflash Closed Cup Tester, using the test method specified in ASTM standard D-3278-78, or as determined by an equivalent test method approved by the Administrator under the procedures set forth in 260.20 and 260.21.

(2) It is not a liquid and is capable, under standard temperature and pressure, of causing fire through friction, absorption of moisture or spontaneous chemical changes and, when ignited, burns so vigorously and persistently that it creates a hazard.

(3) It is an ignitable compressed gas as defined in 49 CFR 173.300 and as determined by the test methods described in that regulation or equivalent test methods approved by the Administrator under 260.20 and 260.21.

(4) It is an oxidizer as defined in 49 CFR 173.151.

b. A solid waste that exhibits the characteristic of ignitability, but is not listed as a hazardous waste in Subpart D, has the EPA Hazardous Waste Number of D0001.

Note:

Paragraph numbers i.e., 261.21 refer to the code of Federal Regulations (CFR).

261.22 Characteristic of Corrosivity.

a. A solid waste exhibits the characteristic of corrosivity if a representative sample of the waste has either of the following properties:

(1) It is aqueous and has a pH less than or equal to 2 or greater than or equal to 12.5, as determined by a pH meter using either the test method specified in the "Test Methods for the Evaluation of Solid Waste, Physical/ Chemical Methods" (also described in "Methods for Analysis of Water and Wastes" EPA 600/4-79-020, March 1979), or an equivalent test method approved by the Administrator under the procedures set forth in 260.20 and 260.21.

(2) It is a liquid and corrodes steel (SAE 1020) at a rate greater than 6.35 mm (0.250 inch) per year at a test temperature of 55 degrees C (130 degrees F) as determined by the test method specified in NACE (National Association of COrrosion Engineers) Standard TM-01-69 as standardized in "Test Methods for the Evaluation of Solid Waste, Physical/Chemical Methods", or an equivalent test method approved by the Administrator under the procedures set forth in 260.20 and 260.21.

b. A solid waste that exhibits the characteristic of corrosivity, but is not listed as a hazardous waste in Subpart D, has the EPA Hazardous Waste Number of D002.

261.23 Characteristic of Reactivity.

a. A solid waste exhibits the characteristic of reactivity if a representative sample of the waste has the following properties:

(1) It is normally unstable and readily undergoes violent change without detonating.

(2) It reacts violently with water.

(3) It forms potentially explosive mixtures with water.

(4) When mixed with water, it generates toxic gases, vapors or fumes in a quantity sufficient to present a danger to human health or the environment.

(5) It is a cyanide or sulfide bearing waste which, when exposed to pH conditions between 2 and 12.5, can generate toxic gases, vapors or fumes in a quantity sufficient to present a danger to human health or the environment.

(6) It is capable of detonation or explosive reaction if it is subjected to a strong initiating source or if heated under confinement.

(7) It is readily capable of detonation or explosive decomposition or reaction at standard temperature and pressure.

(8) It is a forbidden explosive as defined in 49 CFR 173.51 or a Class A explosive as defined in 49 CFR 173.53 or a Class B explosive as defined in 49 CFR 173.68.

b. A solid waste that exhibits the characteristics of reactivity, but is not listed as a hazardous waste in Subpart D, has the EPA Hazardous Waste Number of D003.

261.24 Characteristic of EP Toxicity.

a. A solid waste exhibits the characteristic of EP toxicity if, using the test methods described in Appendix II of Federal Register Vol 45, No 98, 19 May 80, or equivalent methods approved by the Administrator under the procedures set forth in 260.20 and 260.21, the extract from a representative sample of the waste contains any of the contaminants listed in Table I at a concentration equal to or greater than the respective value given in that table. Where the waste contains less than 0.5 percent filterable solids, the waste itself, after filtering, is considered to be the extract for the purposes of this section.

b. A solid waste that exhibits the characteristic of EP toxicity, but is not listed as a hazardous waste in Subpart D, has the EPA Hazardous Waste Number specified in Table I which corresponds to the toxic contaminant causing it to be hazardous.

TABLE I

Maximum Concentration of Contaminants for Characteristic of EP Toxicity

EPA Hazardous Waste Number	Contaminant	Maximum Concentration (milligrams per liter)
D004	Arsenic	5.0
D005	Barium	100.0
D006	Cadmium	1.0
D007	Chromium	5.0
D008	Lead	5.0
D009	Mercury	0.2
D010	Selenium	1.0
D011	Silver	5.0
D012	Endrin(1,2,3,4,10,10-hexachloro -1, 7-epoxy-1,4,4a,5,6,7,8,8a- octahydro-1,4-endo, endo-5,8- dimethano napthalene	0.02
D013	Lindane (1,2,3,4,5,6- hexachlorocyclohexane, gamma isomer	0.4
D014	Methoxychlor (1,1,1-Trichloro -2, 2-bis(p-methoxyphenyl) ethane)	10.0
D015	Toxaphene (Technical chlorinated camphene, 67-69 percent chlorine)	0.5
D016	2,4-D (2,4-Dichlorophenoxyacetic acid)	10.0
D017	2,4,5-TP Silvex (2,4,5-Trichloro- phenoxyproplonic acid).	1.0

APPENDIX B

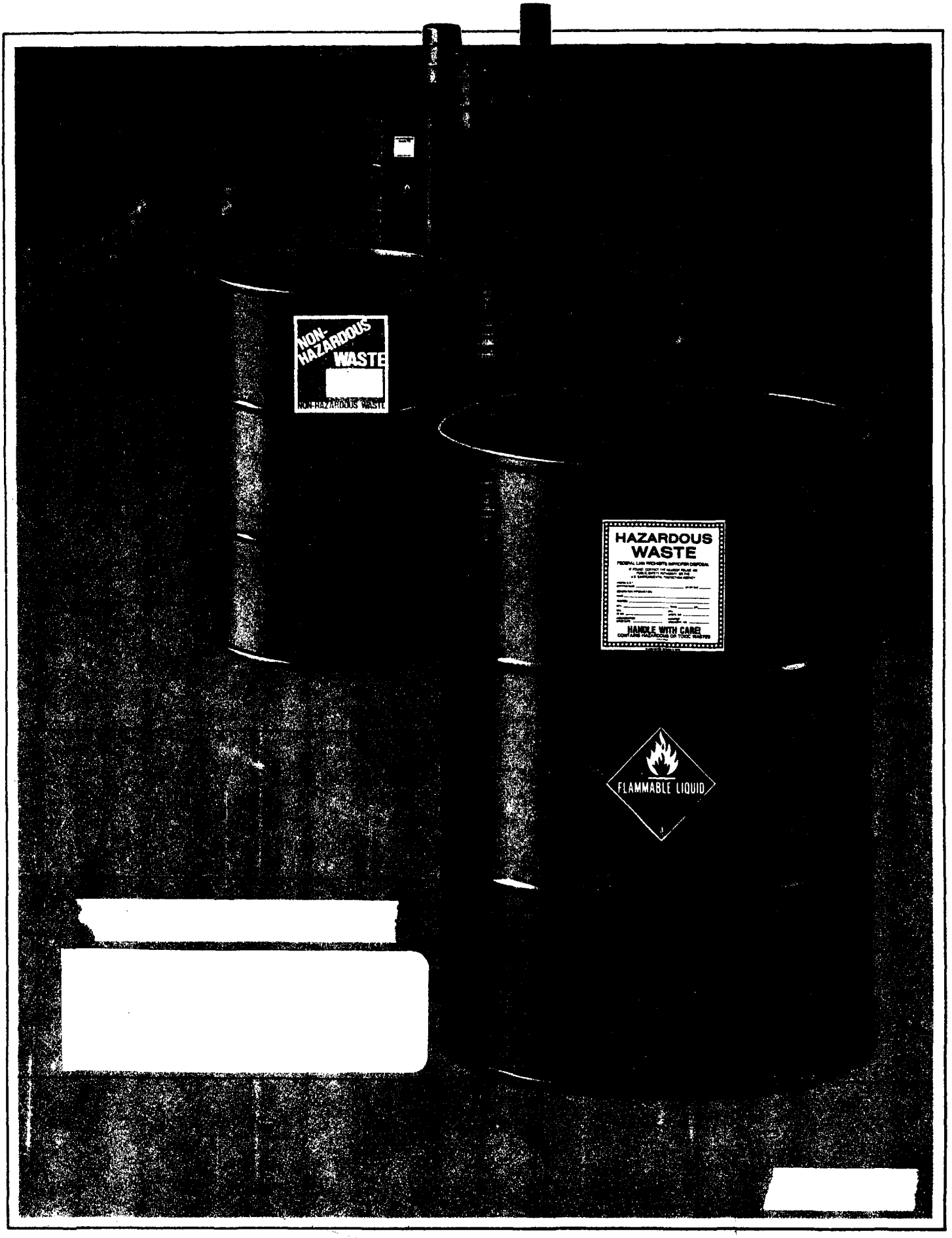
Hazardous Waste Specifically Listed at Scott AFB IL

Industry and EPA Hazardous Waste No.	Hazardous Waste	Hazard Code
Generic:		
F001	The spent halogenated solvents used in degreasing, tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, and the chlorinated fluorocarbons; and sludges from the recovery of these solvents in degreasing operations.	(T)
F003	The spent non-halogenated solvents, xylene, acetone, ethyl acetate, ethyl benzane, ethyl ether, n-butyl alcohol, cyclohexanone and the still bottoms from the recovery of these solvents.	(I)
F005	The spent non-halogenated solvents, methanol, toluene, methyl ethyl ketone, methyl isobutyl ketone, carbon disulfide, isobutanol, pyridine and the still bottoms from the recovery of these solvents.	(I,T)
F007	Spent plating bath solutions from electroplating operations.	(R,T)
F008	Plating bath sludges from the bottom of plating baths from electroplating operations.	(R,T)
F009	Spent cleaning and stripping bath solutions from electroplating operations	(R,T)
U159	Methyl ethyl ketone (MEK)	(I,T)
U188	Phenol	(T)
U220	Toluene	(I,T)
U238	Urethane	(T)

NOTE: Hazard Code refers to characteristic of waste and why it is hazardous, i.e., (T) for EP Toxicity, (I) for Ignitability or (R) for reactivity.

APPENDIX C

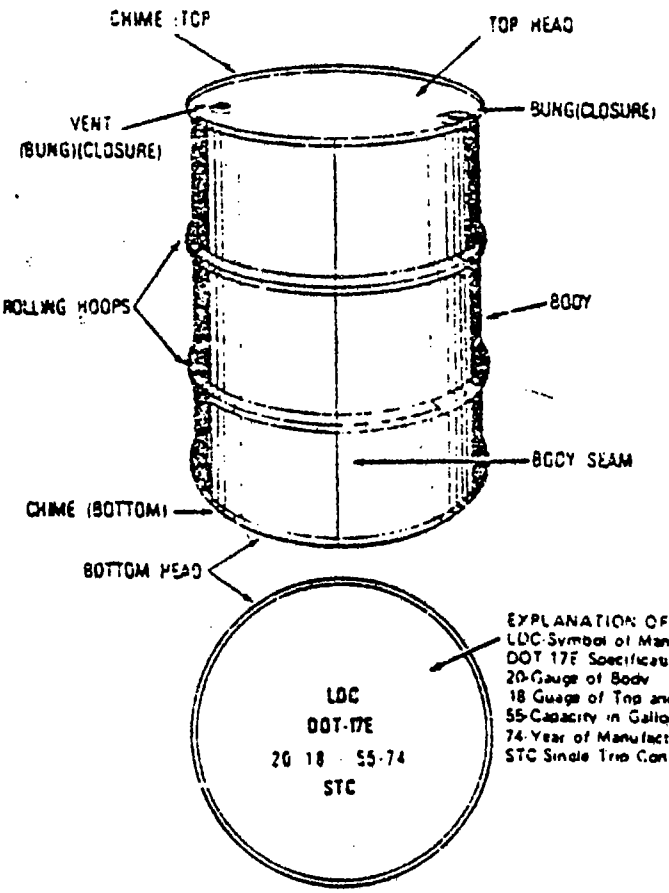
TYPICAL LABELS AND
HAZARDOUS WASTE MARKINGS



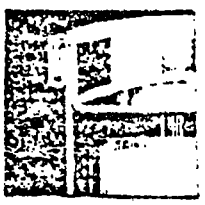
TYPICAL HAZARDOUS WASTE DRUM

TYPICAL LIGHT GAUGE CLOSED HEAD DRUM

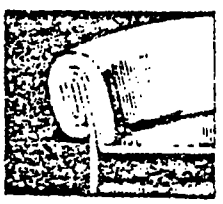
SPECIFICATION 17E. STEEL DRUM, SINGLE TRIP CONTAINER
(STC) REMOVABLE HEAD CONTAINERS NOT AUTHORIZED



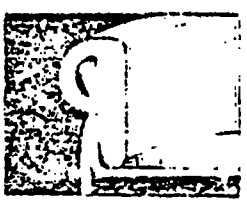
TYPICAL CHIME CONSTRUCTION-STEEL DRUMS



DOUBLE SEAMED
CHIME SECTION

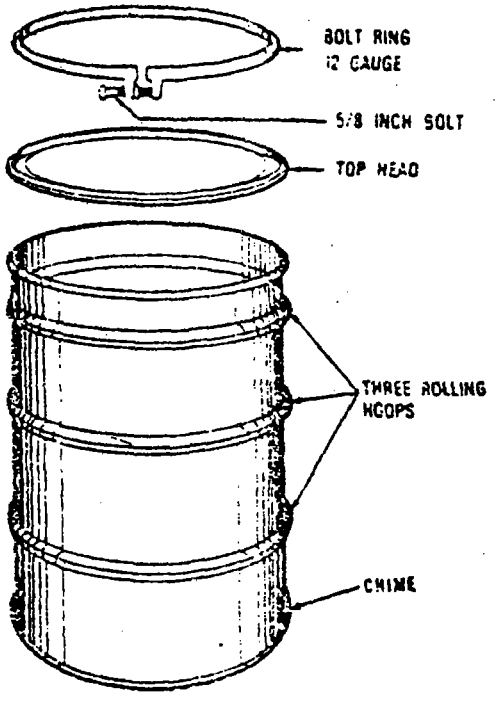


DOUBLE SEAMED
CHIME SECTION WITH
REINFORCING RING

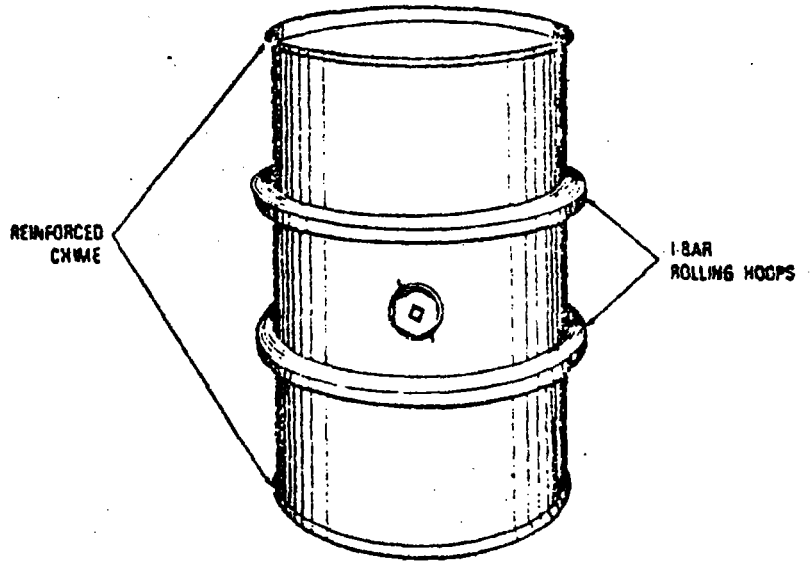


WELDED CHIME SECTION
WITH REINFORCING RING

TYPICAL DOT OPEN HEAD DRUMS
DOT-17C OR DOT 17H



55 GALLON



DOT-5A DRUMS

TYPICAL HEAVY GAUGE OPEN HEAD DRUM

APPENDIX F

HAZARDOUS WASTE MANAGEMENT

Inspection Log

Container No.	Accumulation Start Date	Location	Inspector	Condition of Container	Date	Time	Special Handling Instructions

5 JUN 1981

APPENDIX G

PROCEDURES FOR COMPLETING THE
DISPOSAL AND TURN-IN DOCUMENT

REPLY TO ATTN OF: DEEE (Mr. Caughman, 5895)

3 JUN 1981

SUBJECT: Sample of Disposal Turn In Document (DTID), DD Form 1348-1, for Hazardous Waste/Material

TO: ALL MAC BASES (EXCEPT Cy to AFs, 435 CSG, and 1605 ABW)(PLUS 1185 CEG/CC)

(Civil Engineering)

Attached for your information is a sample DTID prepared by HQ AFLC for turn in of both hazardous material and hazardous waste. This should be used as a guide when transferring accountability and/or physical custody of items to the servicing Defense Property Disposal Office.

FOR THE COMMANDER IN CHIEF

ANDREW A. ALLAN
Director, Engrg & Envmtl Plng
CS/Engineering & Services

1 Atch
DD Form 1348-1 (Sample)

OPR 375 ABG/DEE
INFO CY TO 375ABG/CC
AS OPR YOU ARE RESPONSIBLE FOR FURTHER DISTRIBUTION OF CONTENTS TO OTHER INTERESTED AGENCIES, OFFICES, SQUADRONS, AS YOU DEEM NECESSARY.

THIS ASSIGNMENT OF OPR WAS MADE BY 375 ABGp/DAA 4 Jun 81 by gt

DD FORM 1348-1 — 1 MAR 74 — DOD SINGLE LINE ITEM RELEASE/RECEIPT DOCUMENT

A5J 6810 002365665 DR 00010 FB3080 1124 0002 SY2547 AD H

Shipped from: FB 3089, Randolph AFB, TX, Telephone: 652-3240, EPAID: TX 6571524117

Ship to: DPDO, Kelly AFB, TX, Telephone: 925-7015, EPAID: TX 2571724333

HM — 11

Item originally requested: Hydrochloric Acid

Item nomenclature: Spent acid in 5 gal drum. Used to clean cooling systems. Contaminated with approx 20% dirt and mineral deposits

EXAMPLE FOR DTID TO TURN IN A HAZARDOUS MATERIAL

A5J 6810 001844800 DR 00005 FB3080 1124 0001 SY2547 AN H 217

Shipped from: FB 3089, Randolph AFB, TX, Telephone: 652-3240, EPAID: TX 6571524117

Ship to: DPDO, Kelly AFB, TX, Telephone: 925-7015, EPAID: TX 2571724333

HW — Total price: 1085

Freight classification nomenclature: UN1710

Item originally requested: Trichloroethylene

Item nomenclature: Spent Degreasing solvent in 55 gal drums. Used in cleaning bearings. Contaminated with approx 10% oil and dirt

EXAMPLE FOR DTID TO TURN IN A PREDETERMINED HAZARDOUS WASTE WHICH MUST BE TRANSPORTED OVER PUBLIC HIGHWAYS TO DPDO

Remarks: John Smith, EPAID: TX 6571524117

John Smith, 4 May 81

This is to certify that the above-named materials are properly classified, described, packaged marked and labeled and are in proper condition for transportation according to the applicable regulations of DOT and EPA.

DD FORM 1348-1 — 1 MAR 74

5-5 TRANSFERS TO DEFENSE PROPERTY DISPOSAL OFFICE (DPDO)

The DD Form 1348-1 will be used as the Disposal Turn-In Document (DTID) for all transfers to DPDO. The following entries are required for single line item turn-ins:

Item	Print Position Columns	Identification or Source of Data
Document Identifier Code	1-3	Perpetuate from source document. For locally determined excesses generated at base, post, camp or station, assign a DI Code as determined by the Service/Agency.

Item	Print Position Columns	Identification or Source of Data
Routing Identifier Code	4-6	The RI Code of the shipping activity or leave blank when shipping activity is not assigned an RI Code.
Media and Status Code	7	Leave blank.
Stock or Part Number	8-22	The stock or part number being turned in. For subsistence items enter the Type of Pack Code in cc 21.
Unit of Issue	23-24	The unit of issue of the stock or part number being turned in.
Quantity	25-29	The quantity being turned in to DPDO.
Document Number	30-43	Perpetuate from source document. For locally determined excesses generated at base, post, camp or station, assign a document number as determined by Service/Agency procedures.
Suffix Code	44	Leave blank.
Supplementary Address	45-50	Enter DoDAAC of predesignated consignee DPDO.
Signal Code	51	Leave blank.
Blank	52-53	Leave blank.
Distribution Code	54	Leave blank.
Retention Quantity	55-61	Enter the quantity to be retained in inventory or leave blank.
* Blank	62-63	Leave blank.
* Disposal Authority Code	64	Enter appropriate Disposal Authority Code from Appendix B26.

Item	Print Position Columns	Identification or Source of Data
Demilitarization Code	65	Code assigned as required by DoD 4160.21-M-1, Defense Demilitarization Manual. (Note: When demilitarization has been accomplished prior to transfer to a DPDO, the appropriate demilitarization certification as required by DoD 4160.21-M-1 must be reflected in Blocks W-Y.)
Reclamation Code	66	Enter code "Y" if reclamation was performed prior to release to DPDO. Enter code "R" if reclamation is to be performed after turn-in to DPDO. Enter code "N" if reclamation is not required.
Routing Identifier Code	67-69	Perpetuate from DRO.
Ownership Code	70	Enter applicable code or leave blank.
Supply Condition Code	71	Enter applicable code (MILSTRIP Appendix B18).
Management Code	72	Perpetuate from source document or leave blank.
Screening Code	73	Leave blank.
Unit Price	74-80	Enter the unit price for the NSN/part number shown in cc 8-22.

Block	Entries
A	The shipping point identified by name and/or DoDAAC. Add telephone # + EPA ID #
B	The consignee DPDO by DoDAAC, name and address. This will be the predesignated consignee DPDO and will be entered by the generating activity. Add telephone # + EPA ID #
C	"Mark For" information, if applicable. Enter HM for Hazardous Material HW for Predetermined Hazardous Waste

Block	Entries
D	The category identifying the property as requiring special handling by disposal. These groupings are not readily categorized by individual nomenclature and must be entered "in the clear" in this block. The listing below is an example of the various categories. See DoD 4160.21-M for a complete listing. 1. Contractor Inventory 2. Foreign Equity Property 3. Industrial Fund Property 4. Radioactive Materiel 5. Red Cross Property 6. Redistributable MAP Property 7. Shelf-life Property ~~8. Exchange/Sale Property~~ 9. Nonappropriated Fund Property
E	The extended value of the transaction.
F	The location from which materiel is to be selected, if required by the shipper.
G	Coded cargo data, if required by the shipper.
H	The number of units of issue in a package, if required by the shipper.
I	The unit weight applicable to the unit of issue, if required by the shipper.
J	The unit cube applicable to the unit of issue, if required by the shipper.
K	Uniform Freight Classification, if required by the shipper.
L	National Motor Freight Classification, if required by the shipper.
M	Freight Rate, if required by the shipper.

Block	Entries
N	For internal use.
O	Date of document preparation, if required by the shippe
P	For internal use.
Q	The quantity actually transferred to DPDO, if different cc 25-29.
R	For internal use.
S	The quantity actually receipted for by the DPDO.
T, ~~U~~. U —	Self-explanatory. Add 6 digit (2 Alpha, 4 numeric) ID # as shown in 49 CFR, Part 179. Numbe
V	Enter mode of shipment code (MILSTAMP Appendix B6), if required by shipper.
W-~~X~~ X	1. For non-NSN items enter as much descriptive informati as possible in blocks "W" through "Y", and/or attach addi- tional documentation with this data if needed. 2. For NSN items blocks "W" and "Y" will be used for int nal use and blocks "X" may contain the noun. 3. Specified additive data or certification required fro the generating source for specific types of property shou be entered in this space or attached.
1 thru 6	Shipper use.
7 thru 10	DPDO use.
~~AA~~ Y	Enter word "NAF" (for nonappropriated fund weapons).
~~BB-EE~~ Y	Enter appropriation citation to be credited with the proc from sale or transfer when reimbursement to a specific fu other than the DLA Deposit Fund Account is authorized. L blank if sale proceeds are to be deposited to the DLA Dep Fund Account.
~~FF-GG~~	~~DPDO use~~.
11 thr 15	For optional use by the DPDO.
HA-BB	Enter Transporters name and EPA I.D. #
CC	Have transporter (identified in HA-BB) sign + date for shipment receipt.
DD-GG	Enter "This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations 5-2 of DOT and EPA.

Note: Entries in blocks U, AA BB, CC, and DD-GG only required when moving pre-determined hazardous waste over public highways for physical turn-in to a servicing DPDO facility.

ILLINOIS EPA
Environmental Protection Agency
113 W. Main Street Collinsville, IL. 62234

RECEIVED
APR 7 1982
WASTE MANAGEMENT BRANCH
EPA, REGION V

618/345-4606

Refer to: LPC 163 010 15 - St. Clair County - Belleville/Scott Air Force Base
IL7570024177

April 5, 1982

Scott Air Force Base
375 ABG/DE
Scott Air Force Base, Illinois 62269

ATTN: Colonel Robert Arnau

Dear Sir:

On December 4, 1981, a representative of the Illinois Environmental Protection Agency (IEPA) conducted an inspection of Scott Air Force Base near Belleville, Illinois. This inspection was conducted by the Illinois Environmental Protection Agency under a Cooperative Arrangement with, and authorization of, the United States Environmental Protection Agency (USEPA). The purpose of the inspection was to determine your facility's compliance status with the Resource Conservation and Recovery Act (RCRA) of 1976, P. L. 94-580, as amended. During the inspection the following deficiencies were observed:

Pursuant to 40 CFR 265.16, the owner/operator is required to establish and maintain records relating to the training of personnel involved in hazardous waste management, including a description of the job title for each position at the site, a written job description, a description of training and records detailing the training given to each such individual. The owner/operator is in violation in that no training records were available.

The owner/operator must have a closure plan at the facility. The plan must include a description of how and when the facility will be partially closed, if applicable, and ultimately closed. The plan must address the steps needed to decontaminate facility equipment. Also required is an estimate of the maximum inventory of wastes in storage of treatment on site at any given time and a schedule for final closure including the anticipated date when wastes will no longer be required. The owner/operator must submit his closure plan to the Regional Administrator at least 180 days before the date he expects to begin closure. These requirements are pursuant to 40 CFR 265.112. Your facility is deficient in that no closure plan was available.

Facilities that store containers of hazardous waste must use nonleaking containers in good condition and containers that are compatible with the wastes in them. The containers must be stored closed and handled so as to not cause ruptures or leaks. Containers must be inspected at least weekly. Containers holding ignitable or reactive waste must be at least 50 feet from the facility property line. These requirements are pursuant to 40 CFR Part 265 Subpart I. Your facility is deficient in that some of the drums, used for storage, had small holes punched in their tops. If the drums are accidentally tipped over, waste could "escape" through this small hole.

You are hereby requested to submit to this office, within 15 days of receipt of this letter, a description of steps taken to correct the above deficiencies. Failure to correct these deficiencies may result in enforcement actions initiated by USEPA pursuant to 40 USC 6928. Please send your reply to the above address. Should you have any questions concerning this matter, please contact Tom Powell of my staff at the above number.

Sincerely,

Kenneth G. Mensing

Kenneth G. Mensing, Southern Region Manager
Land Field Operations Section
Division of Land Pollution Control

TEP:jlr

Enclosure: Inspection Report

cc: Division File
Southern Region
USEPA - Region V

5AHWM

JUN 2 6 1981

Mr. William C. Child, Manager
Field Operations Section, DL/NPC
Illinois Environmental Protection Agency
2200 Churchill Road
Springfield, Illinois 62706

Dear Bill:

Thank you for providing the lists of generator and TSD facilities scheduled for ISS inspections during May through September 1981.

We recently decided to schedule all the federally owned TSD facilities for ISS inspections as soon as is practical, so please add the attached list to your schedule for next quarter. If your staff will not be able to fit these in, let me know.

Also, add to your list SC Industries, 2350 North 17th Avenue, Franklin Park.

Please have your Regional Managers request any Part A applications they will need as far in advance as possible since we have a shortage of clerical staff.

Sincerely,

Robert L. Stone
State Implementation Officer

5AHWM

% 5AHMD:WMB:STU#1:R.STONE:C.MITCHELL:6/26/81

6/26/81

IL1571524157 (G,T,TSD)
Chanute Air Force Base
Illinois
Rantoul, IL 61866

IL2210020838 (G,TSDO
Fort Sheridan
Fort Sheridan - Afzo FE EE
IL, 60037

IL1890090003 (G,TSD)
ICGG Pipeline Gas
Demonstration Plant
Trico Rd. 1 MI S. Pyatt Rd.
Perry County, IL 62272

IL3170022930 (TSD)
Naval Air Station Glenview
Commanding Officer
Nas Glenview, IL 60026

IL3210020803 (G,T,TSD)
Savanna Army Depot
Seven Mile North of Savanna
Savanna, IL 61074

IL7570024177 (G,TSD)
Scott Ait Force Base
375 ABG/DEEV
Scott Air Force Base, IL 62225

IL2572825907 (G,TSD,T)
182 Tactical Air Support Group
2323 South Airport Road
Peoria, IL 61607