PUBLIC PARTICIPATION

9451064

PUBLIC NOTICE
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY (LDEQ)

EXPLO SYSTEMS, INC.
CAMP MINDEN THERMAL TREATMENT UNITS
FINAL MODIFIED HAZARDOUS WASTE OPERATING PERMIT

The LDEQ, Office of Environmental Services, has made the decision to issue the final modified hazardous waste operating permit for Explo Systems, Inc., located at 1600 Java Road, Minden, LA for the addition of two (2) thermal treatment units. **The facility is located at 1600 Java Road, Minden, Webster Parish.**

Under this final modified operating permit, Explo Systems, Inc. is be permitted to operate the following additional treatment units: two Super Critical Water Oxidation units (SCWO 3 and SCWO 10), which are thermal treatment units, one hazardous waste storage/treatment tank, one container storage area, and to modify an existing container storage area located in Igloo 2420.

The modification will allow Explo to treat military munitions and other reactive hazardous waste to remove the characteristic of reactivity from the waste and to recycle the scrap metal associated with the de-activiated reactive wastes. The addition of the SCWO units includes one 900-gallon feed tank (Tank TK-100A), one container storage area in Building 1619 that will store a maximum of 5,500 gallons of containerized reactive hazardous waste, and a modified container storage area in Igloo 2420 that will manage a maximum of 5,280 gallons of containerized hazardous waste.

The final permit and related documents are available for review and copying (all documents copied will be subject to a $0.25 charge per copied page) at the LDEQ, Public Records Center, Room 127, 602 North 5th Street, Baton Rouge, LA. Viewing hours are from 8:00 a.m. to 4:30 p.m., Monday through Friday (except holidays). **The available information can also be accessed electronically on the Electronic Document Management System (EDMS) on the DEQ public website at www.deq.louisiana.gov .**

An additional copy of this permit package may be reviewed at Webster Parish Library, Minden Main Branch, 521 East & West Street, Minden, LA.

In accordance with Louisiana Revised Statutes (La R.S.) 30:2024, the Permittee may file with the secretary a request for a hearing no later than thirty (30) days after the notice of the action is served. Under La. R.S. 30:2050.21, any person aggrieved by a final permit action may appeal to the Nineteenth Judicial District Court within 30 days after the notice of the action has been given.

Previous public notices have been published in the Minden Press-Herald and the Advocate on July 7, 2011 and April 23, 2012.

Inquiries or requests for additional information regarding this permit action, should be directed to Nora Lane, LDEQ, Waste Permits Division, P.O. Box 4313, Baton Rouge, LA 70821-4313, phone (225) 219-3422.

Persons wishing to be included on the LDEQ permit public notice mailing list or for other public participation related questions should contact the Public Participation Group in writing at LDEQ, P.O. Box 4313, Baton Rouge, LA 70821-4313, by email at DEQ.PUBLICNOTICES@LA.GOV or contact the LDEQ Customer Service Center at (225) 219-LDEQ (219-5337).

form_7125_r02
08/16/10

Information forwarded by email should follow the Statewide Email Policies. Attachments included with emails may be blocked due to restrictions on file size or type. For details check the following link, http://doa.louisiana.gov/ocs/email/policies.htm .

Permit public notices including electronic access to the issued permit and associated information can be viewed at the LDEQ permits public notice webpage at www.deq.louisiana.gov/apps/pubNotice/default.asp and general information related to the public participation in permitting activities can be viewed at www.deq.louisiana.gov/portal/tabid/2198/Default.aspx .

Alternatively, individuals may elect to receive the permit public notices via email by subscribing to the LDEQ permits public notice List Server at http://louisiana.gov/Services/Email_Notifications_DEQ_PN/ .

All correspondence should specify AI Number 161976, Permit Number LAR 000 072 223-OP-MO-1, and Activity Number PER20110004.

Scheduled Publication Date: Wednesday, June 27, 2012

BOBBY JINDAL
GOVERNOR

PEGGY M. HATCH
SECRETARY

State of Louisiana

DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL SERVICES

Mr. David Fincher
Explo Systems, Inc.
1600 Java Road
Minden, Louisiana 71055

RE: Final Modified Hazardous Waste Operating Permit
Explo Systems, Inc., 1600 Java Road, Minden, Webster Parish, Louisiana
LAR 000072223-OP-MO-1/AI 161976/ LAR 000 072 223/ PER20110004

Dear Mr. Fincher:

Enclosed is your copy of the Explo Systems, Inc, modified operating permit (Subpart X) for the Minden Facility, LAR 000072223-OP-MO-1, which incorporates language pertaining to treatment and storage operations at the Minden facility.

This permit action shall become final and not subject to further administrative review unless, no later than thirty (30) days after the notice of the action is served by certified mail, you file a written request for a hearing. Provisions of this permit may be appealed in writing pursuant to La. R.S. 30:2024 (A) within thirty (30) days after the notice of the action is served by certified mail. A request must be directed to the following:

Louisiana Department of Environmental Quality
Office of the Secretary
Attention: Hearings Clerk, Legal Division
Post Office Box 4302
Baton Rouge, Louisiana 70821-4302

A copy of this request should be sent to the Waste Permits Division.

Please be advised that pursuant to provisions of the Environmental Quality Act and the Administrative Procedure Act, the Department may initiate review of a permit during its term. However, before it takes any action to modify, suspend or revoke a permit, the Department shall, in accordance with applicable statutes and regulations, notify the permittee by mail of the facts or conduct that warrant the intended action and provide the permittee with the opportunity to demonstrate compliance with all lawful requirements for the retention of the effective permit.

Please reference Agency Interest No. 161976, Activity No. PER20110004, EPA ID No. LAR 000 072 223, and Permit No. LAR 000072223-OP-MO-1 on all correspondence pertaining to this matter. Any questions concerning this action should be directed to Ms. Nora Lane at (225) 219-3422.

Sincerely,

Scott Guilliams
Administrator
Waste Permits Division

nl

Enclosure

c: Kishor Fruitwala, USEPA

BOBBY JINDAL
GOVERNOR

PEGGY M. HATCH
SECRETARY

State of Louisiana

DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL SERVICES

06/22/2012

Phone: (214) 665-6750
Fax: (214) 665-6762

Mr. Kishor Fruitwala
EPA, Region VI
1445 Ross Avenue
Dallas, TX 752022733

RE: Final Modified Hazardous Waste Operating Permit
Explo Systems, Inc. / Camp Minden Thermal Treatment Units
AI #161976, PER20110004, Permit Number LAR000072223-OP-1
Minden, Webster Parish, Louisiana

Dear Mr. Fruitwala:

I have enclosed a copy of the Final Modified Hazardous Waste Operating Permit and Public Notice for the referenced facility for your use.

Please complete the attached 'Verification by Regional Office' and Fax to Calvin Fair, at (225) 325-8159.

We appreciate your assistance in our efforts to serve the public. If you have any questions, please call me at (225) 219-3283.

Sincerely,

Calvin E. Fair

Calvin Fair
Environmental Project Specialist, Public Participation Group

CF

Attachments/

BOBBY JINDAL
GOVERNOR

PEGGY M. HATCH
SECRETARY

State of Louisiana

DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL SERVICES

06/22/2012

Phone: (318) 676-7476
Fax: (318) 676-7573

Mr. Ben Juneau, Manager
LDEQ, Northwest Regional Office
1525 Fairfield, Room 520
Shreveport, LA 71101-4388

RE: Final Modified Hazardous Waste Operating Permit
Explo Systems, Inc. / Camp Minden Thermal Treatment Units
AI #161976, PER20110004, Permit Number LAR000072223-OP-1
Minden, Webster Parish, Louisiana

Dear Mr. Juneau:

I have enclosed a copy of the Final Modified Hazardous Waste Operating Permit and Public Notice for the referenced facility for your use.

Please complete the attached 'Verification by Regional Office' and Fax to Calvin Fair, at (225) 325-8159.

We appreciate your assistance in our efforts to serve the public. If you have any questions, please call me at (225) 219-3283.

Sincerely,

Calvin E. Fair

Calvin Fair
Environmental Project Specialist, Public Participation Group

CF

Attachments/

BOBBY JINDAL
GOVERNOR

PEGGY M. HATCH
SECRETARY

State of Louisiana

DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL SERVICES

06/22/2012

Phone: (318) 377-7564
Fax: (318) 371-2366

Mr. Charles Walker, President
Webster Parish Police Jury
410 Main Street
Minden, LA , LA 71055

RE: Final Modified Hazardous Waste Operating Permit
Explo Systems, Inc. / Camp Minden Thermal Treatment Units
AI #161976, PER20110004, Permit Number LAR000072223-OP-1
Minden, Webster Parish, Louisiana

Dear Mr. Walker:

I have enclosed a copy of the Final Modified Hazardous Waste Operating Permit and Public Notice for the referenced facility for your use.

Please complete the attached 'Verification by Regional Office' and Fax to Calvin Fair, at (225) 325-8159.

We appreciate your assistance in our efforts to serve the public. If you have any questions, please call me at (225) 219-3283.

Sincerely,

Calvin E. Fair

Calvin Fair
Environmental Project Specialist, Public Participation Group

CF

Attachments/

BOBBY JINDAL
GOVERNOR

PEGGY M. HATCH
SECRETARY

State of Louisiana

DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL SERVICES

6/22/2012

Phone: (318) 371-3080
Fax: (318) 371-3081

Ms. Sheila Phenix, Branch Manager
Webster Parish Library - Minden Main Branch
521 East & West Street
Minden, LA 71055

RE: Final Modified Hazardous Waste Operating Permit
Explo Systems, Inc. / Camp Minden Thermal Treatment Units
AI #161976, PER20110004, Permit Number LAR000072223-OP-1
Minden, Webster Parish, Louisiana

Dear Ms. Phenix:

The Louisiana Department of Environmental Quality (LDEQ) requests that the enclosed documents for the permitting action for referenced company/facility be made available for public review upon receipt in the **Webster Parish Library, Minden Main Branch.** It is imperative that these documents are available for review at all times; therefore, they cannot be checked out by anyone at any time.

These Hazardous Waste Permit documents should be retained for the life of the Permit.

Please complete the attached 'Verification by Library' and mail to Calvin Fair , LDEQ-OES, Permit Support Services Division, P.O. Box 4313, Baton Rouge, LA 70821-4313, or fax to (225) 325-8159.

We appreciate your assistance in our efforts to serve the public. If you have any questions, please call me at (225) 219-3283.

Sincerely,

Calvin E. Fair

Calvin Fair
Environmental Project Specialist, Public Participation Group

CF

Attachments/

Worksheet for Technical Review of Working Draft of Proposed Permit

Company Name:	**Explo Systems, Inc.**	**Agency Interest #: 161976** **LAR 000 0722 223-OP-MO-1**	**TEMPO Activity No: PER20110004**
Facility Name:	**Explo Systems, Inc.**	**Remarks Submitted by: Bill Greenwich on behalf of Explo Systems, Inc.**	
Permit Writer:	**Nora Lane**	**Permit Writer Email address: nora.lane@la.gov**	

Instructions

Permit Reference – Indicate specific portion(s) of the permit to which the remark relates (i.e. "Permit Condition II.E.21.a"). **Remarks** – Explain the basis for each remark. Provide regulatory citations where possible. If the remark is made due to an error or omission in the permit application this must be noted and the revised information ***must be submitted.*** Revised information may be submitted separately from this worksheet. Please be aware that revised information must be submitted in writing and certified by the Responsible Official, and if necessary, by a Professional Engineer licensed in Louisiana. *Please Note:* New or additional equipment, processes or operating conditions not addressed in the original permit application will be addressed on a case-by-case basis. The Department reserves the right to address such changes in a separate permit action.
DEQ Response – ***DO NOT COMPLETE THIS SECTION.*** This section will be completed by Waste Permits Division of DEQ, included in the proposed permit package and made available for public review during any required public comment period.

- Additional rows may be added as necessary.
- Completed Form shall be emailed to the Permit writer in MS Word compatible format within the deadline specified in the email notification.
- ***DO NOT USE THIS FORM TO SUBMIT COMMENTS DURING THE OFFICIAL PUBLIC COMMENT PERIOD.***

Permit Reference	Remarks	Waste Permits Division Response (for official use only)
V.F.2.a.	As written the permit implies that the reactive constituents listed in Sections V.F.2.a.i. through V.F.2.a.v. are the specific wastes that will be treated in the SCWO units. These are components of the waste that will be treated in the SCWO. There may be a variety of waste that will be treated the SCWO 3 and SCWO 10 with one or more of these components in the waste. We would request that the language be changed to read, **"Subject to the terms of this permit, the Permittee is only allowed to treat hazardous waste in the SCWO 3 and the SCWO 10 units which contain one, or a combination of the following components: (Upon approval by the LDEQ, additional waste components identified in the Part A application may be treated in SCWO 3 and SCWO 10 if demonstrated during the emission testing of the SCWO units)"**	**The LDEQ acknowledges the comment. The permit language was revised accordingly, to state:** **"Permittee may only treat hazardous waste in the SCWO 3 and the SCWO 10 units which contain one, or a combination, of the following components: ...** **Condition V.F.2.c was revised to read: "Additional waste components identified in the Part A application may be treated in SCWO 3 and SCWO 10 if a permit modification is requested and approved by the Administrative Authority, in accordance with LAC 33:V.321. Any permit modification requesting to treat additional waste components must include an emissions test plan."**

V.F.2.c.	Please change word from "burning" to **"treating"**. No burning occurs in the SCWO units.	**LDEQ acknowledges the comment. The permit text was revised accordingly.**
V.I.6.c. **V.I.6.d.** **V.I.7.c.iv.** **TABLE 6**	**These conditions and Table 6 refer to the tank inspection standards as API 510 and/or 633. Explo would prefer to utilize STI SP001 as the inspection standard. Explo also requests that it be allowed to revise the Inspection Plan under the Schedule of Compliance to reflect this inspection standard.**	**LDEQ acknowledges the comment. The tank inspection standard was revised. The Tank TK 100A inspection standard is now designated as STI SP001.** **Additionally, Condition II.E.24.b has been added to state:** **"Within thirty (30) days of the effective date of this Permit, the Permittee shall submit a revised Inspection plan, for review and approval, to the Administrative Authority. The revised Inspection Plan must include STI SP001 as the inspection standard. If warranted, the appropriate permit modification must also be requested. The existing Inspection Plan remains in effect until approval of the revised plan."**

PUBLIC NOTICE
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY (LDEQ)
EXPLO SYSTEMS, INC., CAMP MINDEN THERMAL TREATMENT UNITS
DRAFT HAZARDOUS WASTE CLASS 3 MODIFIED OPERATING PERMIT

The LDEQ, Office of Environmental Services, is accepting written comments on the draft hazardous waste modified operating permit for Explo Systems, Inc., Camp Minden, 1600 Java Road, Minden, Louisiana for the addition of two (2) thermal treatment units. **The facility is located at 1600 Java Road, Minden, Webster Parish.**

Explo Systems Inc. proposes to add 2 Super Critical Water Oxidation units (SCWO 3 and SCWO 10), which are thermal treatment units, to the current operating permit, one hazardous waste storage/treatment tank, one container storage area, and to modify an existing container storage area located in Igloo 2420.

The modification will allow Explo to treat military munitions and other reactive hazardous waste to remove the characteristic of reactivity from the waste and to recycle the scrap metal associated with the de-activiated reactive wastes. The addition of the SCWO units will necessitate the permitting of one 900-gallon feed tank (Tank TK-100A), one container storage area in Building 1619 that will store a maximum of 5,500 gallons of containerized reactive hazardous waste, and a modified container storage area in Igloo 2420 that will manage a maximum of 5,280 gallons of containerized hazardous waste .

Comments and requests for a public hearing or notification of the final decision can be submitted via personal delivery, U.S. mail, email, or fax. **Comments and requests for public hearings must be received by 4:30 CST, Monday, June 11, 2012.** Delivery may be made to the drop-box at 602 N. 5th St., Baton Rouge, LA 70802. U.S. Mail may be sent to LDEQ, Public Participation Group, P.O. Box 4313, Baton Rouge, LA 70821-4313. Emails may be submitted to DEQ.PUBLICNOTICES@LA.GOV and faxes sent to (225) 219-3309.

Please see additional instructions for comment submission, hand delivery and information regarding electronic submission at http://www.deq.louisiana.gov/portal/Default.aspx?tabid=2256 or call (225) 219-3276. Emails should follow the statewide email policies. For more information regarding statewide email policies, go to http://doa.louisiana.gov/ocs/email/policies.htm.

If LDEQ finds a significant degree of public interest, a public hearing will be held. LDEQ will send notification of the final permit decision to the applicant and to each person who has submitted written comments or a written request for notification of the final decision.

The permit application, all associated information and a copy of this draft permit decision are available for review at the LDEQ, Public Records Center, Room 127, 602 North 5th Street, Baton Rouge, LA. Viewing hours are from 8:00 a.m. to 4:30 p.m., Monday through Friday (except holidays). **The available information can also be accessed electronically on the Electronic Document Management System (EDMS) on the DEQ public website at www.deq.louisiana.gov.**

Additional copies may be reviewed at the Webster Parish Library Headquarters, 521 East and West Street, Minden, Louisiana 71055.

Previous notices have been published in the Minden Herald on July 7, 2011 to request public comments concerning the modification application. No public comments were received during the application's 60-day comment period.

quiries or requests for additional information regarding this permit action should be directed toNora Lane, LDEQ, Waste Permits Division, P.O. Box 4313, Baton Rouge, LA 70821-4313, phone (225) 219-3422.

Persons wishing to be included on the LDEQ permit public notice mailing list or for other public participation related questions should contact the Public Participation Group in writing at LDEQ, P.O. Box 4313, Baton Rouge, LA 70821-4313, by email at DEQ.PUBLICNOTICES@LA.GOV or contact the LDEQ Customer Service Center at (225) 219-LDEQ (219-5337).

Permit public notices including electronic access to the draft permit and associated information can be viewed on the LDEQ permits public webpage at www.deq.louisiana.gov/apps/pubNotice/default.asp and general information related to the public participation in permitting activities can be viewed at www.deq.louisiana.gov/portal/tabid/2198/Default.aspx.

Alternatively, individuals may elect to receive the permit public notices via email by subscribing to the LDEQ permits public notice List Server at http://louisiana.gov/Services/Email_Notifications_DEQ_PN/.

All correspondence should specify AI Number 161976, Permit Number LAR 000 072 223-OP-MO-1, and Activity Number PER20110004.

Scheduled Publication Date: April 23, 2012

SIGNATURE PAGE

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

HAZARDOUS WASTE OPERATING PERMIT

PERMITTEE: EXPLO SYSTEMS, INC.

PERMIT NUMBER: LAR 000 072 223-OP-MO-1
Agency Interest # 161976,
Permit Activity #PER20110004

FACILITY LOCATION: 1600 Java Road, Minden, Webster Parish, Louisiana

This permit is issued by the Louisiana Department of Environmental Quality (LDEQ) under the authority of the Louisiana Hazardous Waste Control Law La. R.S. 30:2171 et seq., and the regulations adopted there under and under the authority of the 1984 Hazardous and Solid Waste Amendments (HSWA) to the Resource Conservation and Recovery Act (RCRA) to EXPLO SYSTEMS, INC., Minden Facility (hereafter called the Permittee), to thermally treat, store, and incidentally process military munitions and other reactive hazardous waste on a commercial basis at the facility located at 1600 Java Road, Minden, Louisiana, Webster Parish, at latitude 32° 33' 04" N and longitude 93° 23' 50" W.

For the purposes of this permit, the "Administrative Authority" shall be the Secretary of the Louisiana Department of Environmental Quality or his/her designee.

The permittee must comply with all terms and conditions of this permit. This permit consists of the conditions contained herein and the applicable regulations contained in the Louisiana Administrative Code, Title 33, Part V, Subpart I (LAC 33:V.Subpart 1.) Applicable regulations are those which are in effect on the effective date of issuance of this permit.

This permit is based on the assumption that the information provided to LDEQ by the permittee is accurate. Further, this permit is based in part on the provisions of Sections 206, 212, and 224 of the HSWA of 1984, which modify Section 3004 and 3005 of RCRA. In particular, Section 206 requires corrective action for all releases of hazardous waste or constituents from any solid waste management unit at a treatment, storage or disposal facility seeking a permit, regardless of the time at which waste was placed in such unit.

Section 212 provides authority to review and modify the permit at any time. Any inaccuracies found in the submitted information may be grounds for the termination, modification, revocation, and reissuance of this permit (see LAC 33:V.323) and potential enforcement action. The permittee must inform the LDEQ of any deviation from or changes in the information in the application which would affect the permittee's ability to comply with the applicable regulations or permit conditions.

This permit shall be effective as of June 15, 2012, and shall remain in effect until **August 8, 2021**, unless revoked, reissued, modified or terminated in accordance with LAC 33:V.323 and 705 of the Louisiana Hazardous Waste Regulations. The Administrative Authority may issue any permit for a duration that is less than the maximum term of ten (10) years and the term shall not be extended beyond the maximum duration by modification in accordance with LAC 33:V.315.

Provisions of this permit may be appealed in writing pursuant to LA. R.S. 30:2024(A) within 30 days from receipt of the permit. Only those provisions specifically appealed will be suspended by a request for hearing, unless the Secretary elects to suspend other provisions as well. A request for hearing must be sent to the following:

Louisiana Department of Environmental Quality
Office of the Secretary
Attention: Hearings Clerk, Legal Services Division
Post Office Box 4302
Baton Rouge, Louisiana 70821-4302

S L Phillips

Sam Phillips, Assistant Secretary
Louisiana Department of Environmental Quality

June 15, 2012
Date

PART A
APPLICATION

EPA ID Number | L | A | R | 0 | 0 | 0 | 0 | 7 | 2 | 2 | 2 | 3 |

OMB#: 2050-0034; Expires 7/31/2012

United States Environmental Protection Agency

HARDOUS WASTE PERMIT INFORMATION FORM

1. Facility Permit Contact	**First Name:** Ferris	**MI:**	**Last Name:** Callihan
	Contact Title: Director Support Technology		
	Phone: 318-382-8700	**Ext.:**	**Email:**
2. Facility Permit Contact Mailing Address	**Street or P.O. Box:** Same as Site Mailing Address		
	City, Town, or Village:		
	State:		
	Country:	**Zip Code:**	
3. Operator Mailing Address and Telephone Number	**Street or P.O. Box:** 1600 Java Road		
	City, Town, or Village: Minden		
	State: Louisiana	**Phone:** 318-382-8700	
	Country: USA	**Zip Code:** 71055	
4. Facility Existence Date	**Facility Existence Date (mm/dd/yyyy):** 08/01/1998		

5. Other Environmental Permits

A. Facility Type (Enter code)	B. Permit Number	C. Description
P	3 0 8 0 0 0 4 6 0 0 1	Synthetic Minor Source Permit
R	L A R 0 0 0 0 7 2 2 2 3	Research, Development & Demonstration Permit
R	L A R 0 0 0 0 7 2 2 2 3	Commercial Hazardous Waste Permit (OP-1)

6. Nature of Business:

Demilitarization of military munitions and treatment of hazardous waste explosives

7. Process Codes and Design Capacities – Enter information in the Section on Form Page 3

A. PROCESS CODE – Enter the code from the list of process codes below that best describes each process to be used at the facility. If more lines are needed, attach a separate sheet of paper with the additional information. For "other" processes (i.e., D99, S99, T04 and X99), describe the process (including its design capacity) in the space provided in Item 8.

B. PROCESS DESIGN CAPACITY – For each code entered in Item 7.A; enter the capacity of the process.

1. AMOUNT – Enter the amount. In a case where design capacity is not applicable (such as in a closure/post-closure or enforcement action) enter the total amount of waste for that process.
2. UNIT OF MEASURE – For each amount entered in Item 7.B(1), enter the code in Item 7.B(2) from the list of unit of measure codes below that describes the unit of measure used. Select only from the units of measure in this list.

C. PROCESS TOTAL NUMBER OF UNITS – Enter the total number of units for each corresponding process code.

Process Code	Process	Appropriate Unit of Measure for Process Design Capacity
	Disposal	
D79	Underground Injection Well Disposal	Gallons; Liters; Gallons Per Day; or Liters Per Day
D80	Landfill	Acre-feet; Hectares-meter; Acres; Cubic Meters; Hectares; Cubic Yards
D81	Land Treatment	Acres or Hectares
D82	Ocean Disposal	Gallons Per Day or Liters Per Day
D83	Surface Impoundment Disposal	Gallons; Liters; Cubic Meters; or Cubic Yards
D99	Other Disposal	Any Unit of Measure Listed Below
	Storage	
S01	Container	Gallons; Liters; Cubic Meters; or Cubic Yards
S02	Tank Storage	Gallons; Liters; Cubic Meters; or Cubic Yards
S03	Waste Pile	Cubic Yards or Cubic Meters
S04	Surface Impoundment	Gallons; Liters; Cubic Meters; or Cubic Yards
S05	Drip Pad	Gallons; Liters; Cubic Meters; Hectares; or Cubic Yards
	Containment Building Storage	Cubic Yards or Cubic Meters
S99	Other Storage	Any Unit of Measure Listed Below
	Treatment	
T01	Tank Treatment	Gallons Per Day; Liters Per Day
T02	Surface Impoundment	Gallons Per Day; Liters Per Day
T03	Incinerator	Short Tons Per Hour; Metric Tons Per Hour; Gallons Per Hour; Liters Per Hour; BTUs Per Hour; Pounds Per Hour; Short Tons Per Day; Kilograms Per Hour; Gallons Per Day; Metric Tons Per Hour; or Million BTU Per Hour
T04	Other Treatment	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Short Tons Per Day; BTUs Per Hour; Gallons Per Day; Liters Per Hour; or Million BTU Per Hour
T80	Boiler	Gallons; Liters; Gallons Per Hour; Liters Per Hour; BTUs Per Hour; or Million BTU Per Hour

Process Code	Process	Appropriate Unit of Measure for Process Design Capacity (for T81 – T94)
	Treatment (Continued)	
T81	Cement Kiln	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; BTU Per Hour; Liters Per Hour; Kilograms Per Hour; or Million BTU Per Hour
T82	Lime Kiln	
T83	Aggregate Kiln	
T84	Phosphate Kiln	
T85	Coke Oven	
T86	Blast Furnace	
T87	Smelting, Melting, or Refining Furnace	
T88	Titanium Dioxide Chloride Oxidation Reactor	
T89	Methane Reforming Furnace	
T90	Pulping Liquor Recovery Furnace	
T91	Combustion Device Used in the Recovery of Sulfur Values from Spent Sulfuric Acid	
T92	Halogen Acid Furnaces	
T93	Other Industrial Furnaces Listed in 40 CFR 260.10	
T94	Containment Building Treatment	Cubic Yards; Cubic Meters; Short Tons Per Hour; Gallons Per Hour; Liters Per Hour; BTU Per Hour; Pounds Per Hour; Short Tons Per Day; Kilograms Per Hour; Metric Tons Per Day; Gallons Per Day; Liters Per Day; Metric Tons Per Hour; or Million BTU Per Hour
	Miscellaneous (Subpart X)	
X01	Open Burning/Open Detonation	Any Unit of Measure Listed Below
X02	Mechanical Processing	Short Tons Per Hour; Metric Tons Per Hour; Short Tons Per Day; Metric Tons Per Day; Pounds Per Hour; Kilograms Per Hour; Gallons Per Hour; Liters Per Hour; or Gallons Per Day
X03	Thermal Unit	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; BTU Per Hour; or Million BTU Per Hour
X04	Geologic Repository	Cubic Yards; Cubic Meters; Acre-feet; Hectare-meter; Gallons; or Liters
X99	Other Subpart X	Any Unit of Measure Listed Below

Unit of Measure	Unit of Measure Code
Gallons	G
Per Hour	E
Per Day	U
	L
Liters Per Hour	H
Liters Per Day	V

Unit of Measure	Unit of Measure Code
Short Tons Per Hour	D
Short Tons Per Day	N
Metric Tons Per Hour	W
Metric Tons Per Day	S
Pounds Per Hour	J
Kilograms Per Hour	X
Million BTU Per Hour	X

Unit of Measure	Unit of Measure Code
Cubic Yards	Y
Cubic Meters	C
Acres	B
Acre-feet	A
Hectares	Q
Hectare-meter	F
BTU Per Hour	I

EPA ID Number | L | A | R | 0 | 0 | 0 | 0 | 7 | 2 | 2 | 2 | 3 |

OMB#: 2050-0034; Expires 7/31/2012

ocess Codes and Design Capacities (Continued)

EXAMPLE FOR COMPLETING Item 7 (shown in line number X-1 below): A facility has a storage tank, which can hold 533.788 gallons.

Line Number		A. Process Code (From list above)			B. PROCESS DESIGN CAPACITY		C. Process Total Number of Units	For Official Use Only
					(1) Amount (Specify)	(2) Unit of Measure		
X	1	S	0	2	533.788	G	001	
	1	X	0	3	198.0	X	002	
	2	S	0	2	900.0	G	001	
	3	S	0	1	7920.0	G	001	
	4							
	5							
	6							
	7							
	8							
	9							
1	0							
1	1							
1	2							
1	3							

e: If you need to list more than 13 process codes, attach an additional sheet(s) with the information in the same format as above. Number the line sequentially, taking into account any lines that will be used for "other" process (i.e., D99, S99, T04, and X99) in Item 8.

8. Other Processes (Follow instructions from Item 7 for D99, S99, T04, and X99 process codes)

Line Number (Enter #s in sequence with Item 7)		A. Process Code (From list above)			B. PROCESS DESIGN CAPACITY		C. Process Total Number of Units	For Official Use Only
					(1) Amount (Specify)	(2) Unit of Measure		
X	2	T	0	4	100.00	U	001	
0	4	S	9	9	480000.0	P	004	
0	5	X	9	9	780.0	E	002	

9. Description of Hazardous Wastes - Enter Information in the Sections on Form Page 5

A. EPA HAZARDOUS WASTE NUMBER – Enter the four-digit number from 40 CFR, Part 261 Subpart D of each listed hazardous waste you will handle. For hazardous wastes which are not listed in 40 CFR, Part 261 Subpart D, enter the four-digit number(s) from 40 CFR Part 261, Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.

B. ESTIMATED ANNUAL QUANTITY – For each listed waste entered in Item 9.A, estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in Item 9.A, estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.

C. UNIT OF MEASURE – For each quantity entered in Item 9.B, enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	K
TONS	T	METRIC TONS	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure, taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:

For listed hazardous waste: For each listed hazardous waste entered in Item 9.A, select the code(s) from the list of process codes contained in Items 7.A and 8.A on page 3 to indicate all the processes that will be used to store, treat, and/or dispose of all listed hazardous wastes.

For non-listed waste: For each characteristic or toxic contaminant entered in Item 9.A, select the code(s) from the list of process codes contained in Items 7.A and 8.A on page 3 to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.

NOTE: THREE SPACES ARE PROVIDED FOR ENTERING PROCESS CODES. IF MORE ARE NEEDED:

1. **Enter the first two as described above.**
2. **Enter "000" in the extreme right box of Item 9.D(1).**
3. **Use additional sheet, enter line number from previous sheet, and enter additional code(s) in Item 9.E.**

2. PROCESS DESCRIPTION: If code is not listed for a process that will be used, describe the process in Item 9.D(2) or in Item 9.E(2).

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER – Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

1. **Select one of the EPA Hazardous Waste Numbers and enter it in Item 9.A. On the same line complete Items 9.B, 9.C, and 9.D by estimating the total annual quantity of the waste and describing all the processes to be used to store, treat, and/or dispose of the waste.**
2. **In Item 9.A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In Item 9.D.2 on that line enter "included with above" and make no other entries on that line.**
3. **Repeat step 2 for each EPA Hazardous Waste Number that can be used to describe the hazardous waste.**

EXAMPLE FOR COMPLETING Item 9 (shown in line numbers X-1, X-2, X-3, and X-4 below) – A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operations. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

Line Number		A. EPA Hazardous Waste No. (Enter code)				B. Estimated Annual Qty of Waste	C. Unit of Measure (Enter code)	D. PROCESSES									
								(1) PROCESS CODES (Enter Code)									(2) PROCESS DESCRIPTION (If code is not entered in 9.D(1))
X	1	K	0	5	4	900	P	T	0	3	D	8	0				
X	2	D	0	0	2	400	P	T	0	3	D	8	0				
	3	D	0	0	1	100	P	T	0	3	D	8	0				
X	4	D	0	0	2												Included With Above

9. Description of Hazardous Wastes *(Continued. Use additional sheet(s) as necessary; number pages as 5a, etc.)*

L.	umber	A. EPA Hazardous Waste No. (Enter code)				B. Estimated Annual Qty of Waste	C. Unit of Measure (Enter code)	D. PROCESSES (1) PROCESS CODES (Enter Code)									(2) PROCESS DESCRIPTION (If code is not entered in 9.D(1))
	1	D	0	0	1	<1	T	X	0	3	S	9	9				
	2	D	0	0	2	<1	T	X	0	3	S	9	9				
	3	D	0	0	3	1734	T	X	0	3	S	9	9	X	9	9	
	4	D	0	0	5	<1	T	X	0	3	S	9	9				
	5	D	0	0	6	<1	T	X	0	3	S	9	9				
	6	D	0	0	7	<1	T	X	0	3	S	9	9				
	7	D	0	0	8	<1	T	X	0	3	S	9	9				
	8	D	0	0	9	<1	T	X	0	3	S	9	9				
	9	D	0	1	0	<1	T	X	0	3	S	9	9				
1	0	D	0	1	1	<1	T	X	0	3	S	9	9				
1	1	D	0	1	8	<1	T	X	0	3	S	9	9				
1	2	D	0	2	3	<1	T	X	0	3	S	9	9				
1	3	D	0	2	4	<1	T	X	0	3	S	9	9				
1	4	D	0	2	5	<1	T	X	0	3	S	9	9				
1	5	D	0	2	6	<1	T	X	0	3	S	9	9				
	6	D	0	3	0	<1	T	X	0	3	S	9	9				
	7	D	0	3	5	<1	T	X	0	3	S	9	9				
1	8	D	0	3	6	<1	T	X	0	3	S	9	9				
1	9	D	0	4	0	<1	T	X	0	3	S	9	9				
2	0	D	0	0	1	13531	T	X	9	9	S	0	2	S	0	1	
2	1	D	0	0	2	*	T	X	9	9	S	0	2	S	0	1	
2	2	D	0	0	3	*	T	X	9	9	S	0	2	S	0	1	
2	3	D	0	0	4	*	T	X	9	9	S	0	2	S	0	1	
2	4	D	0	0	5	*	T	X	9	9	S	0	2	S	0	1	
2	5	D	0	0	6	*	T	X	9	9	S	0	2	S	0	1	
2	6	D	0	0	7	*	T	X	9	9	S	0	2	S	0	1	
2	7	D	0	0	8	*	T	X	9	9	S	0	2	S	0	1	
2	8	D	0	1	0	*	T	X	9	9	S	0	2	S	0	1	
2	9	D	0	1	1	*	T	X	9	9	S	0	2	S	0	1	
3	0	D	0	3	0	*	T	X	9	9	S	0	2	S	0	1	
3	1	F	0	0	1	*	T	X	9	9	S	0	2	S	0	1	
3	2	F	0	0	2	*	T	X	9	9	S	0	2	S	0	1	
3	3	F	0	0	3	*	T	X	9	9	S	0	2	S	0	1	
	4	F	0	0	4	*	T	X	9	9	S	0	2	S	0	1	
	5	F	0	0	5	*	T	X	9	9	S	0	2	S	0	1	
3	6	F	0	3	7	*	T	X	9	9	S	0	2	S	0	1	

EPA ID Number | L | A | R | 0 | 0 | 0 | 0 | 7 | 2 | 2 | 2 | 3 |

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Description of Hazardous Wastes *(Continued. Use additional sheet(s) as necessary; number pages as 5a, etc.)*

Line Number		A. EPA Hazardous Waste No. (Enter code)				B. Estimated Annual Qty of Waste	C. Unit of Measure (Enter code)	D. PROCESSES (1) PROCESS CODES (Enter Code)									(2) PROCESS DESCRIPTION (If code is not entered in 9.D.1)
3	7	F	0	3	8	*	T	X	9	9	S	0	2	S	0	1	
3	8	K	0	4	4	*	T	X	9	9	S	0	2	S	0	1	
3	9	K	0	4	5	*	T	X	9	9	S	0	2	S	0	1	
4	0	K	0	4	6	*	T	X	9	9	S	0	2	S	0	1	
4	1	K	0	4	7	*	T	X	9	9	S	0	2	S	0	1	
4	2	K	0	5	0	*	T	X	9	9	S	0	2	S	0	1	
4	3	K	0	5	1	*	T	X	9	9	S	0	2	S	0	1	
4	4	P	0	0	9	*	T	X	9	9	S	0	2	S	0	1	
4	5	P	0	4	8	*	T	X	9	9	S	0	2	S	0	1	
4	6	P	0	8	1	*	T	X	9	9	S	0	2	S	0	1	
4	7	P	1	0	5	*	T	X	9	9	S	0	2	S	0	1	
4	8	P	1	1	2	*	T	X	9	9	S	0	2	S	0	1	
4	9	U	0	6	9	*	T	X	9	9	S	0	2	S	0	1	
5	0	U	0	8	8	*	T	X	9	9	S	0	2	S	0	1	
5	1	U	0	9	6	*	T	X	9	9	S	0	2	S	0	1	
[illegible]	2	U	1	0	5	*	T	X	9	9	S	0	2	S	0	1	
[illegible]	3	U	1	1	5	*	T	X	9	9	S	0	2	S	0	1	
5	4	U	1	3	3	*	T	X	9	9	S	0	2	S	0	1	
5	5	U	1	6	0	*	T	X	9	9	S	0	2	S	0	1	
5	6	U	2	3	4	*	T	X	9	9	S	0	2	S	0	1	
5	7	D	0	1	8	*	T	X	9	9	S	0	2	S	0	1	
5	8	K	0	4	9	*	T	X	9	9	S	0	2	S	0	1	
5	9	K	0	5	2	*	T	X	9	9	S	0	2	S	0	1	
6	0	K	1	6	9	*	T	X	9	9	S	0	2	S	0	1	
6	1	K	1	7	0	*	T	X	9	9	S	0	2	S	0	1	
6	2	P	0	6	5	*	T	X	9	9	S	0	2	S	0	1	

10. Map

Attach to this application a topographical map, or other equivalent map, of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all spring, rivers, and other surface water bodies in this map area. See instructions for precise requirements.

11. Facility Drawing

All existing facilities must include a scale drawing of the facility (see instructions for more detail).

12. Photographs

All existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage, treatment, and disposal areas; and sites of future storage, treatment, or disposal areas (see instructions for more detail).

13. Comments

Item 7: Line 1: Process design capacity measured in terms of net explosive weight (new) TNT-equivalent kilograms (kg) per hour. Explo Systems, Inc. process design capacity is 60 kg NEW per hour for the SDC 1200 and 138 kg NEW per hour for the SDC 2000.

Item 8: Line 4: Measured in terms of pounds of NEW.

Item 8 Line 5: Process consists of treatment in two Super Critical Eater Oxidation Units, one unit capable of treating 10 gallons per minute, the other unit capable of treating 3 gallons per minute.

Item 9: Lines 20 through 56: The treatment units identified by process code X99 are capable of treating 27,061,632 pounds annually, based on a treatment rate of 13 gal/min * 60 min/hr * 16 hr/day * 5 day/week * 52 week/year* 8.34 lb/gal. 2000 lbs/ton. All waste codes listed in lines 20 through 56 combined provides the estimated annual quantity of waste.

Item 10: See Appendix B, Attachment 1 of Permit Application, and Appendix B, Attachment 10 of Class 3 Modification Request.

Item 11: See Appendix B, Attachments 2 and 3; Appendix F, Attachment 2; and Appendix I of Permit Application. Also see Attachments 2, 3, and 6 of Class 3 Modification Request NOD I Response.

Item 12: See Appendix H, Attachment 1 and Appendix I of Permit Application; and Appendix C of Class 3 Modification Request, and Attachments 2 and 5 of Class 3 Modification Request NOD I Response.

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Attachment 1: List of Facility Documents Incorporated in the Permit by Reference

BODY
OF
PERMIT

HAZARDOUS WASTE OPERATING PERMIT

EXPLO SYSTEMS, INC.
THERMAL TREATMENT
EPA ID# LAR 000 072 223
MINDEN, LOUISIANA
WEBSTER PARISH

Agency Interest #161976
PER20110004
Permit Number LAR 000072223-OP-1

For the
SDC 1200
SDC 2000
SCWO 3
SCWO 10
Tank TK-100A
Container Storage Area CSA-2
Igloos 2419, 2420, 2441, and 2470

I. PERMIT PREAMBLE

This permit is issued to Explo Systems, Inc., Minden, Webster Parish, Louisiana (hereinafter referred to as the "Permittee"), by the Louisiana Department of Environmental Quality (LDEQ) under authority of the Louisiana Hazardous Waste Control Law, La. R.S. 30:2171 et seq., and the regulations adopted there under, and by the United States Environmental Protection Agency (EPA) under the authority of the 1984 Hazardous and Solid Waste Amendments (HSWA) to the Resource Conservation and Recovery Act (RCRA).

For the purposes of this permit, "Administrative Authority" shall mean the Secretary of the LDEQ or his/her designee.

This permit is based on information submitted in the permit application, and all subsequent amendments, and on the Permittee's certification that such information is accurate and that all facilities will be constructed, operated and maintained as specified in the application.

This permit is conditioned upon full compliance with all applicable provisions of the Louisiana Hazardous Waste Control Law, La. R.S. 30:2171 et seq., and the regulations adopted there under.

All definitions contained in this permit shall have the meaning as defined in the Louisiana Administrative Code (LAC), Title 33, Part V, Subpart 1 unless otherwise stated herein.

All regulating citations are defined as being the regulation in effect on the date of issuance of this permit. New and/or amended regulations are not included as permit requirements until permit modification procedures, as specified in Condition II.C of this permit, are completed, except as provided by LAC 33:V.307.A.

GLOSSARY OF TERMS

For the purpose of this permit, terms used herein shall have the same meaning as those in LAC 33:V.Subpart 1 unless the contexts of use in this permit clearly indicates otherwise. Where terms are not otherwise defined, the meaning otherwise associated with such terms shall be as defined by a standard dictionary reference or the generally accepted scientific or industrial meaning of the term.

"Administrative Authority" means the secretary of the Louisiana Department of Environmental Quality (LDEQ) or his/her designee or the appropriate assistant secretary or his/her designee.

"Air Pollution Control System (APCS)" refers to the system utilized to reduce air pollution.

"Application" refers to the RCRA Part B Permit Application and subsequent amendments submitted by the Permittee for obtaining a permit.

"Area of Concern (AOC)" means any discernable unit or area, which in the opinion of the Administrative Authority, may have received solid or hazardous waste or waste containing hazardous constituents at any time.

"Area of Investigation (AOI)" is a zone contiguous to and including impacted media defined vertically and horizontally by the presence of one or more constituents of concern in concentrations exceeding the Louisiana Risk Evaluation Corrective Action Program (RECAP) limiting standard.

"Automatic Waste Feed Cut-Off (AWFCO)" refers to a system comprised of cutoff valves, actuator, sensor, data manager, and other necessary components and electrical circuitry designed, operated and maintained to stop the flow of hazardous waste to the thermal treatment unit automatically and immediately.

"CAS" means Corrective Action Strategy.

"CFR" means the Code of Federal Regulations.

"Constituents of Concern (COC)" means chemicals from hazardous waste and hazardous waste constituents that are potentially site related that pose a significant risk.

"Comprehensive Performance Test (CPT)" refers to tests to demonstrate compliance with the emission standards, establish limits for the operating parameters, and demonstrate compliance with the performance specifications for continuous monitoring systems.

"Conceptual Site Model (CSM)" refers to the Data Quality Objective (DQO) process within the HSWA Corrective Action Strategy (CAS) to provide site-wide historical investigations, corrective actions, and other data pertaining to remediation and/or management of SWMUs, AOCs or AOIs within or contiguous to a facility.

"Corrective Action" is an activity conducted to protect human health and the environment.

"CWA" means Clean Water Act, 33 U.S.C. § 1251 et seq.

"Department" means the Louisiana Department of Environmental Quality (LDEQ).

"EPA" means the United States Environmental Protection Agency.

"HSWA" means the 1984 Hazardous and Solid Waste Amendments to RCRA.

"Hazardous constituent" *means any constituent identified in* LAC 33:V.Chapter 31. Table 1, or any constituent identified in LAC 33:V.3325.Table 4.

"LDEQ" means the Louisiana Department of Environmental Quality.

"LELAP" means the Louisiana Environmental Laboratory Accreditation Program.

"Operating Record" means written or electronic records of all maintenance, monitoring, inspection, calibration, or performance testing or other data as may be required to demonstrate compliance with this Permit, document noncompliance with this Permit, or document actions taken to remedy noncompliance with this permit. A minimum list of documents that must be included in the operating record are identified at LAC 33:V.1529.b.

"Solid Waste Management Unit (SWMU)" means any discernable unit at which solid wastes have been placed at any time, irrespective of whether the unit was intended for the management of solid or hazardous waste. Such units include any area at a facility at which solid waste have been routinely and systematically released.

"Standard Operational Procedures (SOP)" refers to the document that provides guidance for the operation, waste handling and maintenance for all operations.

"Permittee" means Explo Systems, Inc., located at 1600 Java Road, Minden, Louisiana 71055.

"RCRA Permit" means the full permit, with the Resource Conservation and Recovery Act (RCRA) and 1984 Hazardous and Solid Waste Amendments (HSWA) to RCRA portions.

"Release" means any spilling, leaking, pouring, emitting, emptying, discharging, injecting, pumping, escaping, leaching, dumping or disposing or hazardous wastes (including hazardous constituents) into the environment (including the abandonment or discarding of barrels, containers, and other closed receptacles containing hazardous wastes or hazardous constituents).

"SARA" means Superfund Amendments and Reauthorization Action of 1985.

"SCWO" means Supercritical Water Oxidation

"Static Detonation Chamber (SDC)" refers to the static detonation chamber system used to safely thermally treat munitions.

"Stabilization" is an action taken for the purpose of controlling or abating threats to human health or the environment from releases or preventing or minimizing the further spread of contaminants while long-term remedies are pursued.

"TCLP" means Toxicity Characteristic Leaching Procedure.

"Thermal Treatment" refers to the processing of treating hazardous waste in a device which uses elevated temperatures as the primary means to change the chemical, physical, or biological character or composition of the hazardous waste.

If, subsequent to the issuance of this permit, regulations are promulgated which redefine any of the above terms, the Administrative Authority may, apply the new definition to this permit.

II. GENERAL PERMIT CONDITIONS

II.A. DURATION OF PERMIT

This permit is effective as of the date indicated on the signature page and shall remain in effect for a period of ten (10) years from the effective date, unless suspended, modified, revoked and reissued or terminated for just cause.

II.B. EFFECT OF PERMIT

This Permit authorizes the Permittee to store and treat hazardous waste in accordance with the conditions of this Permit. The Permittee is prohibited from any storage, treatment or disposal of hazardous waste not authorized by statute, regulation or this permit. Compliance with this permit during its term constitutes compliance for purposes of enforcement, with LAC 33:V.Subpart 1, except for those requirements not included in the permit under LAC 33:V.307.A.1-4, and with Subtitle C of RCRA, HSWA, and Chapter 9 of the Louisiana Environmental Quality Act (Act). However, compliance with the terms of this permit does not constitute a defense to any order issued or any action brought under Section 3013 or Section 7003 of RCRA, the Act (La. R.S.30:2001 et seq.) or under Section 106(a) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 {42 U.S.C. 9606 (a)}.

In accordance with LAC 33:V.307.B and C, issuance of this permit does not convey property rights of any sort or any exclusive privilege; nor does it authorize any injury to persons or property, any invasion of other private rights, or any infringement of state or local laws or regulations.

II.C. PERMIT ACTIONS

Any inaccuracies found in the operating permit application may be cause for revocation or modification of this permit. The Permittee must inform the Administrative Authority of any deviation from, changes in, or inaccuracies in the information in the permit application.

All conditions of this permit supersede conflicting statements, requirements or procedures found within the Attachments.

If a conflict exists between conditions within this permit or between attachments, research plan, test plans, etc., the most stringent conditions or attachment, as determined by the Administrative Authority, shall apply.

Attachments are incorporated into this permit as enforceable conditions.

The Administrative Authority may suspend, modify, revoke and reissue, or terminate the permit for cause or when necessary to be protective of human health or the environment as specified in 40 CFR 270.41, 270.42, 270.43 or the LAC 33:V.309.F, 311.A, or 323. The Administrative Authority may modify the permit when the standards or regulations on which the permit was based have been changed by promulgation of amended standards or regulations or by judicial decision after the permit was issued. The filing of a request for permit modification, revocation and reissuance, or termination or a notification of planned changes or anticipated noncompliance on the part of the Permittee does not stay the applicability or enforceability of any permit condition.

II.D. SEVERABILITY

The conditions of this permit are severable and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances and the remainder of this permit shall not be affected thereby.

II.E. DUTIES AND REQUIREMENTS

II.E.1. Duty to Comply

The Permittee shall comply with all conditions of this permit, except to the extent and for the duration such noncompliance may be authorized by an emergency permit. Any permit noncompliance, other than noncompliance authorized by an emergency permit (LAC 33:V.701), constitutes a violation of the LAC 33:V.Subpart 1 and the Act is grounds for enforcement action which may include permit termination, permit revocation and reissuance, permit modification, or denial of a permit renewal application.

II.E.2. Duty to Reapply

If the Permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the Permittee must reapply a minimum of one-hundred eighty (180) calendar days prior to the expiration date of this permit as required by LAC 33:V.303.N and 309.B.

II.E.3. Permit Expiration

This permit shall be effective for ten (10) years from the effective date. This permit and all conditions herein will remain in effect beyond the permit's expiration date until the Administrative Authority issues a final decision on a renewal application, conditioned upon the Permittee submitting a timely, complete, renewal permit application as provided in LAC 33:V.309.B and 315.A.

II.E.4. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

II.E.5. Duty to Mitigate

The Permittee shall immediately take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with the conditions of this permit as required by the LAC 33:V.309.D.

II.E.6. Proper Operation and Maintenance

The Permittee shall at all times properly operate and maintain all facilities and control systems (and related ancillary equipment and/or appurtenances) that are installed or used by the Permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of the permit and in accordance with LAC 33:V.309.E.

II.E.7. Duty to Provide Information

The Permittee shall furnish to the Administrative Authority, within a reasonable time, any information which the Administrative Authority may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The Permittee shall also furnish to the Administrative Authority upon request, copies of records required to be kept by this permit and in accordance with LAC 33:V.309.H.

II.E.8. Inspection and Entry

In accordance with LAC 33:V.309.I, the Permittee shall allow the Administrative Authority or any authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

II.E.8.a. enter upon the Permittee's premises where a regulated activity is located or conducted, or where records must be maintained under the conditions of this permit;

II.E.8.b. have access to and copy, at reasonable times, any records that must be maintained under the conditions of this permit;

II.E.8.c. inspect, at reasonable times, any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and

II.E.8.d. sample or monitor, at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Administrative Authority any substances or parameters at any location.

II.E.9. Monitoring and Records

II.E.9.a. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity, in accordance with LAC 33:V.309.J.1. The method used to obtain a representative sample of the waste to be analyzed must be the appropriate method from Appendix I of 40 CFR Part 261. Laboratory methods must be those specified in Test Methods for Evaluating Solid Waste: Physical/Chemical Methods, "SW-846", latest version; or an equivalent method as specified in the attached Waste Analysis Plan as referenced in Attachment 1.

II.E.9.b. Records of monitoring information, in accordance with LAC 33:V.309.J.3, shall include, but are not limited to:

II.E.9.b.i. the date, exact place, and time of sampling or measurements;

II.E.9.b.ii. the name(s) and signature(s) of the individual(s) who performed the sampling or measurements;

II.E.9.b.iii. the date(s) analyses were performed;

II.E.9.b.iv. the name(s) and signature(s) of the individual(s) who performed the analysis;

II.E.9.b.v. the analytical techniques or methods used;

II.E.9.b.vi. the results of such analyses; and

II.E.9.b.vii. associated quality assurance performance data.

II.E.9.c. Laboratory Quality Assurance/Quality Control

In order to ensure the accuracy, precision and reliability of data generated for use, the Permittee shall submit a statement, certified as specified in LAC 33:V.513 and included in the annual report, indicating that:

II.E.9.c.i. Any commercial laboratory providing analytical results and test data to the LDEQ required by this permit is accredited by the Louisiana Environmental Laboratory Accreditation Program (LELAP) in accordance with LAC 33:I.Subpart 3, Chapter 45. Laboratory data generated by commercial laboratories not accredited under LELAP will not be accepted by the LDEQ.

LAC 33:I.Subpart 3 (Chapters 45-49) provides requirements for accreditation program. The regulations and a list of labs that have applied for accreditation are available on the LDEQ website located at: http://cms/portal/tabid/2925/Default.aspx

In accordance with LAC 33:I.4501, the requirements for LELAP accreditation apply whenever data is:

- submitted on behalf of a facility;
- required as part of a permit application;
- required by order of the LDEQ;
- required to be included in a monitoring report submitted to the LDEQ;
- required to be submitted by contract; or
- otherwise required by the LDEQ regulations.

II.E.9.c.ii. If the Permittee decides to use its own in-house laboratory for test and analysis, the laboratory is not required to be accredited by LELAP. However, the laboratory must document quality assurance/quality control procedures.

II.E.9.c.iii. For approval of equivalent testing or analytical methods, the Permittee may petition for a regulatory amendment under LAC 33:V.105.I and LAC 33:I.Chapter 9. In cases where an approved methodology for a parameter/analyte is not available or listed, a request to utilize an alternate method shall be submitted to the Administrative Authority for approval. Documentation must be submitted to the LDEQ that will verify that the results obtained from the alternate method are equal to or better than those obtained from EPA-accepted methods, as well as those deemed equivalent by the LDEQ.

II.E.10. Retention of Records

The Permittee shall maintain records pertaining to hazardous waste treatment and disposal on-site for the active life of the facility (including operation and closure periods) as required by LAC 33:V.309.J and LAC 33:V.1529.A, B, and C. All records, including plans, must be furnished upon request and made available at all reasonable times as required by LAC 33:V.1529.C. File copies shall be kept for LDEQ inspection for a period of not less than three (3) years as required by LAC 33:V.317.B.

The Permittee shall, for the life of the facility, maintain records of all data used to complete the application for this permit and any supplemental information submitted under the Louisiana Hazardous Waste Control Law (La. R.S. 30:2171 et seq.).

II.E.11. Notices of Planned Physical Facility Changes

The Permittee shall give notice to the Administrative Authority, as soon as possible, of any planned physical alterations or additions to the permitted facility, in accordance with LAC 33:V.309.L.1.

II.E.12. Anticipated Noncompliance

The Permittee shall give advance notice to the Administrative Authority of any planned changes in the permitted facility or activity that may result in noncompliance with permit requirements.

II.E.13. Physical Facility after Modification

For any new or existing unit being modified, the Permittee may not treat, store, or dispose of hazardous waste in the modified portion of the unit until the unit is complete and:

II.E.13.a. The Permittee has submitted to the Administrative Authority, by certified mail or hand delivery, a letter signed by the Permittee and a registered professional engineer stating that the unit has been constructed or modified in compliance with this permit; and

II.E.13.b. The Administrative Authority has inspected the new or modified unit following a request to make a final inspection by the Permittee as required by LAC 33:V.303.I, and finds it is in compliance with the conditions of the permit and all applicable sections of LAC 33:V.Subpart 1, and has issued an Order to Proceed. The Permittee may then commence treatment, storage, or disposal of hazardous waste.

II.E.14. Compliance Schedules

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than fourteen (14) days following each schedule date as required by LAC 33:V.309.L.6.

II.E.15. Emergency Unauthorized Discharge Notification

In accordance with LAC 33:I.3915, in the event of an unauthorized discharge that results in an emergency condition (an emergency condition is any condition which could be reasonably expected to endanger the health and safety of the public, cause significant adverse impact to the land, water, or air environment, or cause severe damage to property), the Permittee shall notify the DPS (Department of Public Safety) 24-hour Louisiana Emergency Hazardous Materials Hotline by telephone at (225) 925-6595 immediately, but in no case later than one (1) hour after learning of the discharge. The DPS 24-hour Louisiana Emergency Hazardous Materials Hotline will subsequently notify the Department regarding the details of the discharge.

II.E.16. Non-Emergency Unauthorized Discharge Notification

In accordance with LAC 33:I.3917, in the event of an unauthorized discharge that exceeds a reportable quantity specified in LAC 33:I.Chapter 39.Subchapter E and/or results in contamination of the ground waters of the state but does not result in an emergency condition, the Permittee shall promptly notify the DPS (Department of Public Safety) 24-hour Louisiana Emergency Hazardous Materials Hotline by telephone at (225) 925-6595 within twenty-four (24) hours after learning of the discharge.

Compliance with LAC 33:I.3917 does not relieve the Permittee of the necessity of following any applicable written notification procedures in LAC 33:I.3925, or any terms and conditions of any applicable permit or license issued under the Louisiana Environmental Quality act.

In the event of an unauthorized discharge that requires notification under LAC 33:I.3917.A, the DPS 24-hour Louisiana Emergency Hazardous Materials Hotline will notify the Louisiana Department of Environmental Quality.

II.E.17. Unauthorized Discharge to Groundwater Notification

In accordance with LAC 33:I.3919, in the event of an unauthorized discharge resulting in contamination of ground waters of the state by moving in, into, within or on any saturated subsurface strata, the Permittee shall notify the Office of Environmental Compliance, Emergency and Radiological Services Division, SPOC within seven (7) days after learning of the discharge.

II.E.18. Written Notification Reports for Unauthorized Discharges

The Permittee shall submit written reports for any unauthorized discharge that requires notification, under Conditions II.E.15, II.E.16, and II.E.17 of this permit, to the SPOC within seven (7) calendar days after notification required by Conditions II.E.15 through II.E.17, in accordance with LAC 33:I.3925.

II.E.19. Noncompliance Reporting

The Permittee shall report orally within twenty-four (24) hours any noncompliance with the permit not reported under Conditions II.E.15, II.E.16, and II.E.17 for confirmed releases to the groundwater that may endanger human health or the environment, in accordance with LAC 33:V.309.L.7. This report shall include the following:

II.E.19.a. information concerning the release of any hazardous waste that may endanger public drinking water supplies; and
II.E.19.b. information concerning the release or discharge of any hazardous waste, or of a fire or explosion at the facility, that could threaten the environment or human health outside the facility. The description of the occurrence and its cause shall include:

II.E.19.b.i. the name, address, and telephone number of the owner or operator;

II.E.19.b.ii. the name, address, and telephone number of the facility;

II.E.19.b.iii. the date, time, and type of incident;

II.E.19.b.iv. the name and quantity of materials involved;

II.E.19.b.v. the extent of injuries, if any;

II.E.19.b.vi. an assessment of actual or potential hazards to the environment and human health outside the facility, where this is applicable; and

II.E.19.b.vii. the estimated quantity and disposition of recovered material that resulted from the incident.

II.E.20. Follow-up Written Report of Noncompliance

The Permittee shall also provide a written submission within five (5) days after the time the Permittee becomes aware of any noncompliance which may endanger human health or the environment not reported under Condition II.E.19. The written submission shall contain a description of the noncompliance and its cause; the periods of noncompliance including exact dates and times; whether the noncompliance has been corrected; and if not, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. If the Administrative Authority waives the requirement, then the Permittee shall submit a written report within fifteen (15) calendar days after the time Permittee becomes aware of the circumstances, as required by LAC 33:V.309.L.7.d.

II.E.21. Other Noncompliance

The Permittee shall report all other instances of noncompliance not otherwise required to be reported above, at the time required monitoring reports are submitted. The reports shall contain the information listed in Condition II.E.19.

II.E.22. Other Information

Whenever the Permittee becomes aware that it failed to submit any relevant facts in the permit application, or that it submitted incorrect information in a permit application, or in any report to the Administrative Authority, the Permittee shall promptly submit such facts or information, in accordance with LAC 33:V.309.L.12.

Summary of Unauthorized Discharge /Contamination Notification Requirements				
Permit Condition	Type of Unauthorized Discharge	Type of Notification	Timing of notification	Contact
II.E.15	Any condition that could endanger health and safety of the public, OR, cause significant adverse impact to the environment OR cause severe damage to property	Oral	Within one (1) hour	DPS Hotline 225-925-6595
II.E.19	Non-compliance that endangers drinking water supplies, fire, explosions	Oral	Within twenty four (24) hours	DEQ Single Point of Contact (SPOC); DPS Hotline
II.E.16	Non-emergency, exceeds reportable quantity	Oral	Within twenty four (24) hours	DPS Hotline
II.E.17	Statistically significant evidence of release into previously uncontaminated groundwater	Oral	Within twenty four (24) hours	DEQ SPOC
II.E.18	Discharges that require notification to DPS under II.E.15 – II.E.17	Written	Within seven (7) days	DEQ SPOC
II.E.21	Other non-compliance not listed in other conditions	Written	Written, in next scheduled monitoring report	LDEQ Office of Environmental Services
II.E.20	Additional notification for non-compliance listed in II.E.19.	Written	Within five (5) days after awareness of the noncompliance	LDEQ Office of Environmental Services

II.E.23. Signatory Requirement

All application, reports or other information submitted to the Administrative Authority shall be signed and certified according to LAC 33:V.507, 509, 511, and 513.

II.E.24. Schedule of Compliance

II.E.24.a. Prior to placing Tank TK-100A in use, an independent, qualified installation inspector or an independent, qualified professional engineer, either of whom is trained and experienced in the proper installation of tank systems, must inspect the system for the presence of any weld breaks, punctures, scrapes of protective coatings, cracks, corrosion, and/or other structural damage or inadequate construction/installation. All discrepancies must be remedied before the tank system is placed in use. The findings of the installation inspector or professional engineer must be submitted to the Administrative Authority for review and approval.

II.E.24.b Within thirty (30) days of the effective date of this Permit, the Permittee shall submit a revised inspection plan, for review and approval, to the Administrative Authority. The revised Inspection Plan must include STI SP001 as the inspection standard. If warranted, the appropriate permit modification must also be requested. The existing inspection plan remains in effect until approval of the revised plan.

II.E.25. Updated Documents to be Submitted Prior to Operation

Within sixty (60) days of completing the research and testing on the SDC 1200 under the Permittee's Hazardous Waste Research, Development, and Demonstration Permit (permit Number LAR 000072223-RDD-1), the Permittee must submit to the Administrative Authority, for review and approval, the final design specifications for the SDC 1200. Initial start-up and operation of the SDC 1200 under this Commercial Hazardous Waste Operating permit (permit Number LAR 000072223-OP-1) cannot commence until the final design specifications for the SDC 1200 are submitted and subsequently approved by the Administrative Authority.

II.E.26. Documents to be Maintained at Facility Site

II.E.26.a. The Permittee shall maintain at the facility, until closure is completed and certified by an independent registered professional engineer, the following documents and amendments, revisions, and modifications to these documents. Any revision or changes shall be submitted with the annual report and in compliance with LAC 33:V.321, 322 and 323.

II.E.26.a.i. Waste Analysis Plan submitted in accordance with LAC 33:V.1519 (see Attachment 1);

II.E.26.a.ii. Contingency Plan (i.e., Integrated Emergency Response Plan) submitted in accordance with LAC 33:V.1513 (see Attachment 1);

II.E.26.a.iii. Closure Plan submitted in accordance with LAC 33:V.3511 and closure cost estimate for facility closure submitted in accordance with LAC 33:V.3705 (see Attachment 1);

II.E.26.a.iv. Security Plan submitted in accordance with LAC 33:V.1507 and 1513 (see Attachment 1);

II.E.26.a.v. Arrangements with the local authorities in accordance with LAC 33:V.1511.G;

II.E.26.a.vi. Personnel Training Plan and the training records required by LAC

33:V.1515 (see Attachment 1);

II.E.26.a.vii. Operating record and Operation Plan as required by LAC 33:V.1529 and 3005.H; and

II.E.26.a.viii. Inspection Plan developed in accordance with LAC 33:V.517.G and 1509.B (see Attachment 1).

II.E.26.b. All proposed amendments, revisions and modifications to any plan or cost estimates required by this permit shall be submitted to the Administrative Authority for approval.

II.E.27. Reports, Notifications, and Submissions

An annual report must be submitted by March 1 of each year covering all unit(s) listed in this permit and their activities during the previous calendar year as required by LAC 33:V.1529.D.

II.E.28. Manifest

The Permittee shall report manifest discrepancies and unmanifested waste as per LAC 33:V.309.L.8 and 9.

II.E.29. Emissions

Air emissions from thermal treatment of military munitions and/or other reactive hazardous wastes at the facility shall not violate the Louisiana Air Quality Regulations. If air quality standards are exceeded, the site will follow air regulation protocol.

II.E.30. Water Discharges

Water discharges, if any, must be in conformity with effluent limitations established by the Clean Water Act operating under a Louisiana Pollutant Discharge Elimination System (LPDES) permit and reported as required by that permit in accordance with LAC 33:V.1505.A.1.

II.E.31. Non-Listed Hazardous Waste Facilities

This permit is issued for the hazardous waste facilities listed in Condition IV (Permitted Facilities). If the Permittee determines that an unauthorized hazardous waste unit(s) exists, the Permittee must immediately notify the Administrative Authority in accordance with Condition II.E.22 of this permit.

II.E.32. Compliance with Land Disposal Restrictions

The Permittee shall comply with those land disposal restrictions set forth in La. R.S. 30:2193, and all regulations promulgated there under, and the HSWA portion of this permit (Conditions VII and VIII).

II.E.33. Establishing Permit Conditions

Permits for facilities with pre-existing groundwater contamination that meet the criteria of LAC 33:V.3301.C, are subject to all limits, conditions, remediation and corrective action programs designated under LAC 33:V.311.D and LAC 33:V.3303 for any new releases that are discovered

after the operation of the facility commences.

II.E.34. Corrective Action

Owners or operators of hazardous waste management units must have all necessary permits during the active life of the unit and for any period necessary to comply with the corrective action requirements of this permit. The facility is obligated to complete facility-wide corrective action, if warranted, for any newly discovered releases that are caused by the Permittee, regardless of the operational status of the facility.

II.E.35. Attachments and Documents Incorporated by Reference

All attachments and documents required by this permit, including all plans and schedules, are incorporated, upon approval by the Administrative Authority, into this permit by reference and become an enforceable part of this permit. When applicable, the Permittee must modify the permit according to LAC 33:V.Chapter 3. Since required items are essential elements of this permit, failure to submit any of the required items or submission of inadequate or insufficient information may subject the Permittee to enforcement action, which may include fines, suspension, or revocation of the permit.

Any noncompliance with approved plans and schedules shall be termed noncompliance with this permit. Written requests for extension of due dates for submittals may be granted by the Administrative Authority.

If the Administrative Authority determines that actions beyond those provided for, or changes to what is stated herein are warranted, the Administrative Authority may modify this permit according to procedures in LAC 33:V.321.

II.E.36. Compliance Reports

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than fourteen (14) days following each schedule date as required by LAC 33:V.309.L.6.

II.E.37. Additional Operating Standards

Federal and State Explosives Regulations. Treatment and disposal of hazardous waste military munitions are subject to the applicable permitting, procedural, and technical standards in 40 CFR 264, Subpart X, the Military Munitions Rule and Department of Defense Guidelines.

II.E.38. Transfer of Permits

This permit may be transferred to a new owner or operator only if it is modified or revoked and reissued pursuant to LAC 33:V.309.L.4, 321.B, 1513.D, and LAC 33:I.Chapter 19. The Permittee's failure to notify the new owner or operator of the requirements of LAC 33:V.Subpart 1 and LAC 33:I.Chapter 19 in no way relieves the new owner or operator of his obligation to comply with all applicable requirements.

III. GENERAL FACILITY CONDITIONS

III.A. DESIGN AND OPERATION OF ALL FACILITIES

III.A.1. The Permittee must maintain and operate all facilities to minimize the possibility of a fire, explosion, or any unauthorized sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or water that could threaten human health or the environment.

III.A.2. The Permittee must not manage additional wastes in the unit(s) listed in Condition IV.A, in accordance with the relevant requirements of the Waste Analysis Plan and or references noted in the permit application. The permittee may only manage wastes that are listed in the Part A of the permit in the units listed in Condition IV.B.

III.A.3. Additions and construction changes to the waste management unit(s) regulated by this permit shall be documented by as-built drawings and professional engineering certifications.

III.B. REQUIRED NOTICE

III.B.1. Foreign Wastes

The notification requirements of LAC 33:V.1531.A and B are applicable if the Permittee receives foreign waste. The permit application stated that the Permittee did not intend to receive foreign hazardous waste.

III.B.2. Off-site Wastes

When the Permittee is to receive hazardous waste from an off-site source (except where the Permittee is also the generator) it must inform the generator in writing that the Permittee has the appropriate permits for, and will accept, the waste to be shipped by the generator. The Permittee must keep a copy of this written notice as part of the operating record as required by LAC 33:V.1527.E.

III.C. GENERAL WASTE ANALYSIS

The Permittee shall follow the procedures in the Waste Analysis Plan referenced in Attachment 1 and in accordance with LAC 33:V.1519.

III.C.1. The Permittee shall review the Waste Analysis Plan annually and report to the Administrative Authority in the annual report whether any revision is required to stay abreast of changes in EPA methods and/or state regulatory provisions.

III.C.2. Scrap metal generated from the SDC 1200 and the SDC 2000 must be managed in accordance with the Waste Analysis Plan referenced in Attachment 1.

Wastes generated from the SDC 1200, the SDC 2000, the SCWO 3 Unit, and the SCWO 10 Unit must be managed in accordance with the Waste Analysis Plan referenced in Attachment 1. All other facility generated waste must be managed in accordance with the relevant requirements of LAC 33:V.Hazardous Waste Subpart 1.

III.C.3. If the Permittee is notified, or has reason to believe, that the Permittee's process or operation generating any hazardous waste has changed, the Permittee shall review and re-characterize all the potentially impacted hazardous waste streams. This re-characterization of the waste shall include laboratory analyses and/or process knowledge meeting the requirements of LAC 33:V.1519.A.2, which provides information needed to properly treat, store, and dispose of the hazardous waste. The results of this re-characterization of wastes shall be summarized in the annual report.

III.C.4. If any results from an inspection required by LAC 33:V.1519.A.4 indicate that the received hazardous waste does not match the waste designated in the accompanying manifest or shipping paper, the Permittee shall review and re-characterize all the potentially impacted hazardous waste streams. This re-characterization of the waste shall include laboratory analyses and/or process knowledge meeting the requirements of LAC 33:V.1519.A.2, which provides information needed to properly treat, store, and dispose of the hazardous waste. The results of this re-characterization of wastes shall be summarized in the annual report.

III.C.5. Annually, the Permittee shall submit a certified statement that indicates that any laboratory (i.e., on-site laboratory or contract laboratory) that provides chemical analyses, analytical results, or other test data to the LDEQ, by contract or by agreement, is accredited in accordance with the laboratory accreditation requirements of LAC 33:I.Chapter 45. This written statement shall be certified as specified in LAC 33:V.513 and included in the annual report. This documentation shall be resubmitted when a different laboratory is contracted for services.

III.C.6. In accordance with LAC 33:V.1519.B, the Waste Analysis Plan must meet all the sampling and Quality Assurance/Quality Control (QA/QC) procedures and protocols contained in Condition II.E.9. All test procedures used by the Permittee shall be maintained on file by the Permittee and made available to the Administrative Authority upon request.

III.D. SECURITY

The Permittee shall comply with the approved alternate security provisions in the Security Plan referenced in Attachment 1.

III.E. GENERAL INSPECTION REQUIREMENTS

The Permittee shall follow the inspection schedule in the Inspection Plan referenced in Attachment 1 of this permit. The Permittee shall remedy any deterioration or malfunction as required by LAC 33:V.1509.C. Records and inspections must be kept as required by LAC 33:V.517.G, 1509, 1911, 2109, 2403.F, and 3205.A.

III.F. PERSONNEL TRAINING

The Permittee shall conduct personnel training as required by LAC 33:V.1515.A, B and C. This Training Plan shall follow the outline in the Training Plan referenced in Attachment 1. The Permittee shall maintain all training documents and records as required by LAC 33:V.1515.D and E.

III.G. GENERAL REQUIREMENTS FOR IGNITABLE, REACTIVE, OR INCOMPATIBLE WASTE

The Permittee shall take precautions as required by LAC 33:V.1517 to prevent accidental ignition or reaction of ignitable, reactive, or incompatible wastes.

III.H. LOCATION STANDARDS

III.H.1. The Permittee has furnished evidence that it is in compliance with seismic standards as required by LAC 33:V.517.T.

III.H.2. The Permittee must not manage any hazardous waste on any portion of the property that lies within the 100 year flood plain (as identified in the Flood Insurance Rating Map) unless such areas are raised above this flood level or other means (e.g., levees) are provided to protect such areas from washouts, overtopping by wave action, soil erosion or other effects of such a flood as required by LAC 33:V.1503.B.3. Such site improvements must be certified by independent licensed professional engineers and approved by Administrative Authority prior to any hazardous waste and/or hazardous waste units being placed thereon.

III.I. PRECIPITATION RUN-ON AND RUN-OFF

The Permittee must provide for the control and/or containment of contact run-on and run-off from the maximum rainfall occurring in twenty-four (24) hours from a 25-year storm as defined by local rainfall records and LAC 33:V.1503.B.2. The Permittee shall comply with the requirements of LAC 33:V.1503.B.2, 2403.A and 2403.B.

III.J. HURRICANE EVENTS

The Permittee shall initiate those applicable portions of the Contingency Plan during a hurricane as well as appropriate actions required by LAC 33:V.1507, 1509 and 1511.

III.K. PREPAREDNESS AND PREVENTION

III.K.1. Required Equipment

At a minimum, the Permittee shall install and maintain the equipment set forth in the Contingency Plan referenced in Attachment 1, as required by and which is in conformance with LAC 33:V.1511.C.

III.K.2. Testing and Maintenance of Equipment

The Permittee shall test and maintain the equipment specified in Condition III.K.1 to insure its proper operation in time of emergency.

III.K.3. Access to Communications or Alarm Systems

The Permittee shall maintain access to the communications or alarm system, as required by LAC 33:V.1511.E.1 and 1511.E.2.

III.K.4. Required Aisle Space

In no case shall aisle space by less than two (2) feet. In addition, the Permittee shall maintain adequate aisle space as required by LAC 33:V.1511.F.

III.K.5. Arrangements with Local Authorities

The Permittee shall document in the annual report that the requirements of LAC 33:V.1511.G have been met. This documentation shall include those State and Local agencies involved and those facilities and operations covered. Documentation of annual written renewal of arrangements with state and local agencies shall also be included in this report. Where state or local authorities decline to enter into such arrangements, the Permittee must document the refusal in the operating record.

III.L. CONTINGENCY PLAN

III.L.1. Implementation of Plan

The Permittee shall immediately carry out the provisions of the Contingency Plan referenced in Attachment 1 of this permit, which complies with the emergency procedures described by LAC 33:V.1513.F, whenever there is a fire, explosion, or release of hazardous waste or hazardous waste constituents that threaten or could threaten human health or the environment.

III.L.2. Copies of Plan

The Permittee shall comply with the requirements of LAC 33:V.1513.C.

III.L.3. Amendments to Plan

The Permittee shall review and amend in a timely manner, if necessary, the Contingency Plan, as required by LAC 33:V.1513.D.

III.L.4. Emergency Coordinator

The Permittee shall comply with the requirements of LAC 33:V.1513.E concerning the emergency coordinator.

III.M. MANIFEST SYSTEM

III.M.1. Use of the Manifest System

The Permittee shall comply with the applicable manifest requirements of LAC 33:V. Chapter 11.

III.N. RECORD KEEPING AND REPORTING

III.N.1. Operating Record

The Permittee shall maintain a written operating record at the facility in accordance with LAC 33:V.1529.A, B, and C.

III.N.2. Reports

The Permittee shall comply with the annual report requirements of LAC 33:V.1529.D.

III.N.3. Operations Manual

The Permittee shall compile and keep current an operations manual covering all aspects of the Permittee's treatment and storage facilities.

III.O. CLOSURE

The Closure/Post-closure Plan shall include the following responses by the Permittee to LAC 33:V.1915, 2117, 2405, 3121, 3207, 3503, 3505, 3507, 3509, 3511, 3513, and 3515.

III.O.1. Closure Performance Standard

The Permittee shall close the facility in accordance with the Closure Plan referenced in Attachment 1, and applicable sections of LAC 33:V.1915, 2117, 2405, 3121, 3207, 3505, 3507 and 3511.

III.O.2. Amendment to Closure Plan

The Permittee shall amend the Closure Plan where necessary, in accordance with LAC 33:V.3511.C. Any modification shall be subject to LAC 33:V.321, 322, and 323, where applicable.

III.O.3. Notification of Closure

The Permittee shall notify the Administrative Authority at least forty–five (45) days prior to the date he expects to begin closure, in accordance with LAC 33:V.3511.D.

III.O.4. Time Allowed for Closure

After receiving the final volume of hazardous waste, the Permittee shall treat or remove from the site all hazardous waste in accordance with the schedule specified in the Closure Plan referenced in Attachment 1 and in accordance with LAC 33:V.3513.

III.O.5. Disposal of Decontamination of Equipment

The Permittee shall decontaminate and/or dispose of all facility equipment in accordance with the Closure Plan referenced in Attachment 1, and LAC 33:V.3515.

III.O.6. Certification of Closure

The Permittee shall certify that the facility has been decontaminated and closed in accordance with the specifications in the Closure Plan referenced in Attachment 1 and as required by LAC 33:V.1915, 2117, 2405, 3121, 3207, and 3517, and this permit and shall provide a certification by an independent Louisiana licensed professional engineer (PE).

III.O.7. Inventory at Closure

The Permittee shall be responsible for closure costs based upon the maximum permitted facility inventories listed below:

TABLE 1
Maximum Permitted Facility Inventories

Four (4) Hazardous Waste Munitions and Explosives Storage Units

STORAGE UNIT	LOCATION	DIMENSIONS (WxLxH)	MAXIMUM PERMITTED CAPACITY
Igloo 2419	Area L-2 at Camp Minden	26'-6" x 68'-8" x 12'-9"	120,000 pounds NEW[1]
Igloo 2420	Area L-2 at Camp Minden	26'-6" x 68'-8" x 12'-9"	120,000 pounds NEW[1]
Igloo 2441	Area L-2 at Camp Minden	26'-6" x 68'-8" x 12'-9"	120,000 pounds NEW[1]
Igloo 2470	Area L-2 at Camp Minden	28'-2" x 81' x 15'	120,000 pounds NEW[1]

Two (2) Container Storage Areas

STORAGE UNIT	LOCATION	DIMENSIONS (WxLxH)	MAXIMUM PERMITTED CAPACITY
Igloo 2420	Area L-2 at Camp Minden	50' x 20' x 1.656"	5,280 gallons
CSA-2	Bay 3 of Building 1619	50' x 19' x 1.656"	5,500 gallons

Four (4) Miscellaneous Units

MISCELLANEOUS UNIT	LOCATION	MAXIMUM PERMITTED CAPACITY
Static Detonation Chamber SDC 1200	Line S at Camp Minden	60 kilograms per hour NEW[1]
Static Detonation Chamber SDC 2000	Line S at Camp Minden	138 kilograms per hour NEW[1]
Supercritical Water Oxidation Unit SCWO 3	Line S at Camp Minden	180 gallons per hour

Supercritical Water Oxidation Unit SCWO 10	Line S at Camp Minden	600 gallons per hour
One (1) Ancillary- Incidental Processing Area		
Re-packaging Area[2]	Line S at Camp Minden	4,752 kilograms NEW[1]

One (1) Storage Tank

TANK	LOCATION	DIMENSIONS (DxH)	MAXIMUM PERMITTED CAPACITY
TK-100A	Line S at Camp Minden	56" x 88"	900 gallons

[1] Net Explosive Weight
[2] The Re-packaging Area is not a permitted area, but is ancillary equipment for the SDC 1200 and SDC 2000.

III.P. POST-CLOSURE

The Permittee must attempt to clean close all hazardous waste units. If the facility cannot be clean-closed, the Permittee shall submit a post-closure plan for approval by the Administrative Authority. If some waste residues or contaminated materials are left in place at final closure, the Permittee must comply with all post-closure requirements contained in LAC 33:V.3519-3527, including maintenance and monitoring throughout the post-closure care period.

III.Q. COST ESTIMATE FOR CLOSURE/POST-CLOSURE

III.Q.1. The Permittee must maintain cost estimates for closure of facilities in accordance with LAC 33:V.3705 and 3707.

III.Q.2. The Permittee shall maintain and adjust the closure cost estimate for inflation, as specified in LAC 33:V.3705.B, LAC 33.V.3705.C, and for other circumstances that increase the cost of closure.

III.Q.3. The Permittee must adjust the closure cost estimate within thirty (30) days after approval by the Administrative Authority of any request to modify the closure plan in accordance with LAC 33:V.3705.C. The Permittee shall consider the impact of any inventory and/or process changes on the closure cost estimate.

III.Q.4. The closure cost estimate must equal the cost of closure at the point in the facility's operating life when the extent and manner of its operation would make closure most expensive and must be based on costs to the Permittee of hiring a third party to execute all closure activities. The closure cost estimate shall be based on the maximum permitted inventory of each facility as specified in Condition IV, Tables 2 and 3.

III.Q.5. If the Permittee is unable to complete clean closure of all facilities referenced in Condition IV, Tables 2 and 3 as per LAC 33:V.Chapter 35 and as acceptable by the Administrative Authority, a Post-Closure Plan must be submitted for each facility failing to achieve clean closure. The post-closure plan must be submitted within ninety (90) days from the

date that the Permittee or Administrative Authority determines that the unit must be closed as a landfill. The Post-Closure Plan must meet the requirements of LAC 33:V.3523.B. Alternative risk based closure in accordance with LAC 33.I.Chapter 13 per LAC 33:V.3507 may be approved by the Administrative Authority.

III.R. FINANCIAL ASSURANCE

The Permittee shall have and maintain financial assurance for closure in accordance with the LAC 33:V.3707 for all units listed under Condition III.O.7, Table 1 and Condition IV, Tables 2 and 3. In accordance with LAC 33:V.3707.A-G, an owner or operator of a new facility or newly permitted units must submit, to the Office of Environmental Services, financial assurance document(s) at least sixty (60) days before the date on which hazardous waste is first received for treatment, storage or disposal in the newly permitted units.

III.S. LIABILITY REQUIREMENTS

The Permittee shall have and maintain liability coverage for sudden accidental occurrences in the amounts of $1,000,000 each occurrence and $2,000,000 annual aggregate, exclusive of legal defense costs, as required by LAC 33:V.3715.A.

III.T. INCAPACITY OF PERMITTEE

III.T.1. Pursuant to LAC 33:V.3717.A, The Permittee and any guarantor of a corporate guarantee specified in LAC 33:V.3707.F and 3711.F must notify the Office of Environmental Services by certified mail, of the commencement of a voluntary or involuntary proceeding under the Title 11 (Bankruptcy), U.S. Code, naming the Permittee or guarantor as debtor, within ten (10) days after commencement of the proceeding.

III.T.2. Any Permittee who fulfills the requirements of LAC 33:V.3707, 3711, or 3715 by obtaining a trust fund, surety bond, letter of credit, or insurance policy will be deemed to be without the required financial assurance or liability coverage in the event of bankruptcy of the trustee or issuing institution, or a suspension or revocation of the authority of the trustee institution to act as trustee or of the institution issuing the surety bond, letter of credit, or insurance policy to issue such instruments. The Permittee must establish other financial assurance or liability coverage within sixty (60) days after such an event.

III.U. POST-CLOSURE NOTICES

(RESERVED)

IV. PERMITTED FACILITIES

IV.A. HAZARDOUS WASTE MUNITIONS AND EXPLOSIVES STORAGE

Details of the existing hazardous waste munitions and explosives storage units (storage units) listed in Table 2, including design and operational specifications, are contained in permit Condition V.A. The Permittee is allowed to manage only those wastes listed in the Part A application.

TABLE 2
Four (4) Hazardous Waste Munitions and Explosives Storage Units

STORAGE UNIT	LOCATION	DIMENSIONS (WxLxH)	MAXIMUM PERMITTED CAPACITY
Igloo 2419	Area L-2 at Camp Minden	26'-6" x 68'-8" x 12'-9"	120,000 pounds NEW[1]
Igloo 2420	Area L-2 at Camp Minden	26'-6" x 68'-8" x 12'-9"	120,000 pounds NEW[1]
Igloo 2441	Area L-2 at Camp Minden	26'-6" x 68'-8" x 12'-9"	120,000 pounds NEW[1]
Igloo 2470	Area L-2 at Camp Minden	28'-2" x 81' x 15'	120,000 pounds NEW[1]

[1] Net Explosive Weight

IV.B. CONTAINER STORAGE

Details of the existing container storage area listed in Table 3, including design and operational specifications, are contained in Permit Condition V.B. The Permittee is allowed to manage only those wastes listed in the Part A application.

TABLE 3
Two (2) Container Storage Area

STORAGE UNIT	LOCATION	DIMENSIONS (WxLxH)	MAXIMUM PERMITTED CAPACITY
Igloo 2420	Area L-2 at Camp Minden	50' x 20' x 1.656"	5,280 gallons
CSA-2	Bay 3 of Building 1619	50' x 19' x 1.656"	5,500 gallons

IV.C. MISCELLANEOUS UNITS

Details of the miscellaneous units listed in Table 4, including design and operational specifications, are contained in permit Conditions V.C - V.H.

TABLE 4 Miscellaneous Units Four (4) Miscellaneous Units		
MISCELLANEOUS UNIT	**LOCATION**	**MAXIMUM PERMITTED CAPACITY**
Static Detonation Chamber SDC 1200	Line S at Camp Minden	60 kilograms per hour NEW[1]
Static Detonation Chamber SDC 2000	Line S at Camp Minden	138 kilograms per hour NEW[1]
Supercritical Water Oxidation Unit SCWO 3	Line S at Camp Minden	180 gallons per hour
Supercritical Water Oxidation Unit SCWO 10	Line S at Camp Minden	600 gallons per hour
One (1) Ancillary- Incidental Processing Area		
Re-packaging Area[2]	Line S at Camp Minden	4,752 kilograms NEW[1]

[1] Net Explosive Weight
[2]The Re-packaging Area is not a permitted area, but is ancillary equipment for the SDC 1200 and SDC 2000.

IV.D. TANKS

Details of the hazardous waste storage tanks listed in Table 5, including design and operational specifications, are contained in permit Conditions V.I.

TABLE 5 Tank One (1) Storage Tank			
TANK	**LOCATION**	**DIMENSIONS (DxH)**	**MAXIMUM PERMITTED CAPACITY**
TK-100A	Line S at Camp Minden	56" x 88"	900 gallons

V. PERMIT CONDITIONS APPLICABLE TO PERMITTED FACILITIES

V.A. HAZARDOUS WASTE MUNITIONS AND EXPLOSIVES STORAGE

The permit conditions as set forth under this Condition shall apply where applicable to the permitted hazardous waste munitions and explosives storage units (storage units) as designated in Table 2. The munitions and explosives storage units are permitted to store hazardous waste listed in the Part A application, in properly labeled and sealed containers which have been specified for this purpose and are compatible with the contained waste.

The storage units consist of earth covered magazines and shall be maintained in accordance with the design specifications detailed in LAC 33:V.Chapter 24.

All containers of and for hazardous waste munitions and reactive hazardous waste shall comply with, and be stored, in accordance with the applicable requirements of LAC 33:V.Chapter 21 and LAC 33:V.Chapter 24.

V.A.1. Design and Placement of Containers

All containers shall be designed for storage of hazardous waste munitions and/or reactive hazardous waste. The placement of the pallets and/or containers shall provide sufficient area between pallets to allow working space for personnel and movement of equipment, in accordance with LAC 33:V.2403.B.

All containers must be stacked in such a fashion that each container identification label can be read from the access aisle, in accordance with LAC 33:V.2109.B.

All containers must be designed and placed for storage in a manner that minimizes potential detonation and other releases in accordance with LAC 33:V.2403.A.1.

V.A.2. Empty Container Management

The Permittee shall ensure that all containers for hazardous waste munitions/reactive hazardous waste comply with all appropriate conditions for management of empty containers and/or residue from empty containers, as set forth in LAC 33:V.2101.

V.A.3. Maintenance of Containers

The Permittee shall maintain all containers in accordance with LAC 33: V.2103, 2107.A, and 2403.C.

V.A.4. Container Integrity

The Permittee will ensure the integrity of the containers in accordance with LAC 33:V.2105 and 2403.D.

V.A.5. Closed Containers

The Permittee must manage hazardous waste in the containers and ensure that a container holding hazardous waste is closed during storage, except when necessary to add or remove waste. All hazardous waste must otherwise be properly containerized. A container holding hazardous waste must not be opened, handled or stored in a manner which may rupture the

container or cause it to leak, in accordance with LAC 33:V.2107.A and B and 2403.D.

The Permittee shall ensure that the doors to the hazardous waste munitions and explosive storage units are kept closed at all times when not being actively accessed, in accordance with LAC 33.V.2403.B.

V.A.6. Container and Storage Unit Inspections

The Permittee must inspect the storage units and the containers stored within the units, in accordance with LAC 33:V.2403.F, 2109, and 1509. Results of such inspections must be placed in the operating record in accordance with LAC 33:V.1529.B.8.

The Permittee shall inspect the storage units and the containers stored within the units at least weekly, ensure that all labels are visible from the aisle space, and keep required records of inspections, in accordance with LAC 33:V.2403.F, 2109 and Condition IV.A of this permit.

V.A.7. Compatible Wastes in Containers

The Permittee shall store all wastes in containers that are compatible with the hazardous wastes and in accordance with DOT standards listed in 49 CFR 173 and 178.

The Permittee must place and store incompatible, ignitable, and reactive wastes only in accordance with LAC 33:V.1517, 2113, and 2115.

V.A.8. Storage Unit Maintenance

The Permittee must maintain the storage units as required by LAC 33:V. 2403.A, 2403.B, 2403.C, 2403.D, 2403.E, and 2403.F.

V.A.9. Spills and Leaks

The Permittee must manage spilled or leaked waste and accumulated precipitation within a timely fashion, and in accordance with LAC 33:V.2403.A and 2403.C.

The Permittee must manage any collected material as required by LAC 33:V.2403.A. The Permittee must manage any collected storm water in accordance with LAC 33:V.2403.A.1 and any other applicable regulations.

The Permittee must control and report all point source discharges according to LAC 33:V.1505.

V.A.10. Emergency Conditions

The Contingency Plan shall be activated when warranted by an emergency and reported as required by LAC 33:V.2403.C, and 1513.

V.A.11. Personnel Training

The Permittee must insure that all hazardous waste personnel receive initial and continued training to insure compliance with LAC 33:V.1515, and maintain an emergency response program in compliance with LAC 33:V.1525.

V.A.12. Maximum Capacity

The Permittee shall not exceed the maximum capacity listed under Condition IV.A of this permit for each storage unit listed in Table 2.

V.A.13. Closure

At closure, the Permittee shall adhere to the procedures detailed in the approved closure plan referenced in Attachment 1 of this permit and as required by LAC 33:V.2405.A, 2117 and Chapter 35, Closure Requirements. Post-closure activities must be performed in accordance with the approved post-closure plan if the hazardous waste munitions storage units fail to achieve clean closure (or an alternate closure standard approved under LAC 33:V.3501.D.2. or LAC 33.V.3507.B.) within ninety (90) days from the date that the Permittee or Administrative Authority determines that the unit must be closed as a landfill.

V.A.14. Secondary Containment for Wastes that Contain Free Liquids

The Permittee shall, for liquid wastes, provide a secondary containment system that assures that any released liquids are contained and promptly detected and removed from the waste area in accordance with LAC 33:V.2403.A.4.

V.A.15. Air Emissions

The Permittee shall comply with the applicable requirements for air emission control equipment for hazardous waste containers specified in LAC 33:V.1747-1799 and condition V.K of this permit.

V.A.16. Annual Inventory of Waste

The Permittee must inventory hazardous waste munitions and explosives stored within the storage units at least annually, in accordance with LAC 33:V.2403.E.

V.B. CONTAINER STORAGE

V.B.1. Description of Container Storage

The Permit conditions as set forth under this Condition shall apply where applicable to the permitted container storage facilities as designated in Table 3.

V.B.2. Permitted and Prohibited Wastes

V.B.2.a. Permitted Waste

Subject to the terms of this Permit, the Permittee is allowed to store hazardous waste identified in the most current Part A Permit Application, within the container storage areas as described in Table 3.

V.B.2.b. Prohibited Waste

The Permittee is prohibited from storing hazardous waste that is not identified in Condition V.B.2.a of this Permit.

V.B.3. Operating Requirements

V.B.3.a. Conditions of Containers

The Permittee shall maintain the condition of all containers in accordance with LAC 33:V.2103 and LAC 33:V.2105.

V.B.3.b. Management of Containers

V.B.3.b.i. The Permittee shall manage the containers in accordance with LAC 33:V.2107.

V.B.3.b.ii. Containers holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste.

V.B.3.b.iii. Pallets shall be placed in rows with a minimum of two (2) feet of access aisle space between the rows, or the width necessary to get emergency equipment to any area of the aisle, whichever is greater.

V.B.3.b.iv. All containers must be placed so that hazardous waste identification labels may be read from the access aisle.

V.B.3.b.v. The Permittee shall be in compliance with all appropriate conditions set forth in LAC 33:V.Chapter 21.

V.B.3.b.vi. Containers holding thirty (30) gallons or more must be placed on pallets not more than two (2) containers high with no more than four (4) containers per tier on each pallet.

V.B.3.c. Operations

V.B.3.c.i. All permitted container storage areas and associated piping, pumps, instruments, containments, and vent controls shall be operated and maintained in accordance with LAC 33:V.Chapter 21 and the specifications, design criteria, and design limits specified in the Permit Application.

V.B.3.c.ii. The Permittee shall comply with the requirements set forth in LAC 33:V.1109.E and all applicable portions of LAC 33:V. Chapter 15 and Chapter 43 for the storage of containers in non-permitted less than ninety (90) day container storage areas.

V.B.3.c.iii. The Permittee shall not exceed the maximum capacity listed in Table 3 of this Permit for each container storage area listed.

V.B.3.c.iv. Waste Mixing

Waste mixing shall only be conducted in four (4) 55-gallon drums in the designated area in CSA-2, in accordance with Part B Permit Application.

V.B.4. Secondary Containment

Container storage areas must have a containment system that is designed and operated in accordance with LAC 33:V.2111.B. The Permittee shall always maintain enough secondary containment capacity to contain at least ten percent (10%) of the total volume of containers or the volume of the largest container, whichever is greater in accordance with LAC 33:V.2111.B.3. Containers that do not contain free liquids (per the Paint Filter Liquids Test) do not need to be considered in this determination.

V.B.5. Requirements for Ignitable, Reactive, and Incompatible Waste

V.B.5.a. The Permittee must store ignitable, incompatible, or reactive waste in accordance with LAC 33:V.1517 and LAC 33:V.2113, LAC 33:V.2115.A, B, C, and D.

V.B.5.b. Containers holding ignitable or reactive waste must be located at least 15 meters (50 feet) from the facility property line.

V.B.5.c. Hazardous wastes must not be placed in an unwashed container that previously held an incompatible waste or material.

V.B.5.d. A storage container holding a hazardous waste that is incompatible with any waste or other materials stored nearby in other containers must be separated from the other materials or protected from them by means of a dike, berm, wall, other device, or approved management technique.

V.B.5.e. The Permittee must place the results of each waste analysis and any documented information regarding compatibility testing in the operating record of the facility.

V.B.6. Inspections

V.B.6.a. The Permittee shall inspect the containers and containment area(s) in accordance with LAC 33:V.2109.

V.B.6.b. At least weekly, the Permittee must inspect where containers are stored for leaking containers and for deterioration of containers and containment systems (including sealants used to maintain a base free of cracks or gaps).

V.B.7. Leaks and Spills

V.B.7.a. The Permittee shall manage spilled or leaked waste and accumulated precipitation according to LAC 33:V.2111.B.5.

V.B.7.b. The Permittee shall manage any collected material as required by LAC 33:V.2111.B.6.

V.B.7. Air Emission Control Equipment Standards

The Permittee shall comply with Condition V.K.2 of this permit for air emission control equipment for all permitted container storage areas.

V.B.8. Recordkeeping

V.B.8.a. Inspections

The Permittee shall document in the operating record for the facility inspection of those items in Condition V.B.6 of this Permit.

V.B.8.a.i. The weekly log sheets shall include all inspected areas.

V.B.8.a.ii. The Permittee shall note all deficiencies discovered during the inspection in the inspection log.

V.B.8.a.iii. Corrective action taken in response to deficiencies must be included as part of the operating record for the facility.

V.B.9. Closure and Post-Closure Care

At closure, the Permittee shall adhere to the procedures detailed in the approved closure plan referenced in Attachment 1 of this Permit and as required by LAC 33:V.2117 and Chapter 35, Closure Requirements. Post-closure activities must be performed in accordance with an approved post-closure plan if the container storage area does not achieve clean closure (or an alternate closure standard approved under LAC 33:V.3501.D.2. or LAC 33.V.3507.B.). Post-closure must be accomplished within ninety (90) days from the date that the Permittee or Administrative Authority determines that the unit must be closed as a landfill.

V.C. GENERAL REQIREMENTS FOR THE SDC UNITS

This section contains the general requirements for the operations of the Static Detonation Chamber (SDC) 1200 and SDC 2000, as listed in Table 4 of this permit.

V.C.1. General Operating and Maintenance Requirements

V.C.1.a. The Permittee shall operate and maintain the SDC 1200, the SDC 2000, the Re-Packaging Area, and all other associated equipment in accordance with the approved design specifications, the manufacture's specifications, and all applicable federal and state regulations.

V.C.1.b. The Permittee must maintain the containment areas for the SDC 1200 and the SDC 2000 to prevent run-on and run-off.

V.C.1.c. The Permittee shall maintain the SDC 1200 and the SDC 2000 in a manner that minimizes the possibility of fire, explosion, or any unplanned, sudden or non-sudden releases of hazardous waste constituents to air, soil, or surface water that might threaten human health or the environment in accordance with LAC 33:V.1511.B.

V.C.1.d. The Permittee shall not thermally treat more than 100,000 kilograms per month of hazardous waste (net explosive weight).

V.C.2. Permitted and Prohibited Wastes

V.C.2.a. Permitted Wastes

Subject to the terms of this permit, the Permittee is only allowed to thermally treat wastes listed in the Waste Analysis Plan (see Attachment 1) and/or in the most current Part A application.

V.C.2.b. Prohibited Waste

V.C.2.b.i. Dioxin-containing wastes identified by EPA as F020, F021, F022, F023, F026, F027, and F028 wastes in LAC 33:V.4901.

V.C.2.b.ii. Polychlorinated biphenyl (PCB) waste, as defined in 40 CFR 761.3.

V.C.2.b.iii. Source material, special nuclear material, mixed waste, or naturally occurring radioactive materials (NORM) that is not exempt pursuant to LAC 33:XV.

V.C.2.b.iv. Municipal waste.

V.C.2.b.v. Containerized gases.

V.C.2.b.vi. Medical/infectious wastes.

V.C.2.b.vii. Lethal or incapacitating chemical and biological munitions or their residues or contaminated packaging.

V.C.2.c. Before burning any wastes not authorized under this permit, the Permittee shall obtain approval for a permit modification, as required under LAC 33:V.321.

V.C.3. Inspections

V.C.3.a. Requirements

V.C.3.a.i. The Permittee shall inspect the SDC 1200, the SDC 2000, the Re-Packaging Area, and associated equipment in accordance with the Inspection Plan (see Attachment 1). The Permittee shall complete the following as part of these inspections:

V.C.3.a.i.(1) The SDC 1200, the SDC 2000, and the Re-Packaging Area, and associated equipment shall be subject to a daily thorough, visual inspection by the Permittee, when they contain hazardous waste. The purpose of these inspections shall be to identify leaks, spills, fugitive emissions, and signs of tampering.

V.C.3.a.i.(2) The automatic waste feed cut off system and associated alarms must be tested at least monthly when hazardous waste is treated to verify operability. The operability testing of the automatic waste feed cut off system and associated alarms may be simulated.

V.C.3.b. Records

V.C.3.b.i. Written inspection records shall be part of the operating record for this permit and are hence subject to LAC 33:V.1529 requirements. At a minimum, the record shall include the following information: (1) the date and time of the inspection, (2) inspector's name, (3) any inspection observations, and (4) date and nature of corrective action. The inspection record shall be completed in accordance with LAC 33:V.1509 and shall be available at all times to the Administrative Authority.

Electronic records may be maintained, in lieu of paper copies.

V.C.3.b.ii. A written record of the automatic waste feed cutoff system tests shall be part of the operating record for this permit and shall be available at all times to the Administrative Authority.

Electronic records may be maintained, in lieu of paper copies.

V.C.4. Response to Leaks and Spills

V.C.4.a. The Permittee must properly manage all spilled or leaked waste and accumulated precipitation associated with the SDC 1200, the SDC 2000, the Re-Packaging Area, and all other associated equipment and structures.

V.C.4.a.i. Any collected spilled or leaked waste that is a hazardous waste must be managed as a hazardous waste in accordance with all applicable requirements. Spilled or leaked waste must be removed in as timely a manner as is necessary to prevent overflow of the spilled and leaked waste collection system.

V.C.4.a.ii. Contact storm water shall be managed and discharged through a properly permitted NPDES wastewater treatment system or other disposal method authorized by the Administrative Authority. Accumulated precipitation must be removed in as timely a manner as is necessary to prevent overflow of the accumulated precipitation collection system.

V.C.5. Monitoring and Calibration

V.C.5.a. Requirements

V.C.5.a.i. The continuous monitoring system (CMS) shall be operated and maintained in accordance with 40 CFR 63.1209(b) and the manufacturer's specifications.

V.C.5.a.ii. The continuous emission monitoring system (CEMS) shall be operated and maintained in accordance with 40 CFR 63.1209(a) and the manufacturer's specifications.

V.C.5.a.iii. At a minimum, the Permittee shall analyze values from the CMS and CEMS every fifteen (15) seconds. The Permittee must record these values every sixty (60) seconds to demonstrate compliance with the monitoring requirements.

V.C.5.a.iv. The Administrative Authority may request data be submitted in any format or units that facilitates the completion of air modeling, risk assessment, or compliance procedures.

V.C.5.a.v. Monitoring samples and measurements shall be representative of the monitored activity. The method used to obtain a representative sample of the waste to be analyzed shall be the appropriate method specified in LAC 33:V.Chapter 49.Appendix D or an equivalent method approved by the Administrative Authority.
Other sampling and analytical methods shall be those specified in *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods*, SW-846, as revised, or equivalent methods.

V.C.5.a.vi. The Permittee must calibrate all continuous monitoring equipment according to the manufacturer's specifications and any applicable state or federal regulations. Calibration procedures shall be included in the operating record of the facility and available at all times for review by the Administrative Authority.

V.C.5.a.vii. Hazardous waste may continue to be introduced into the SDC 1200 and SDC 2000 during daily continuous emission monitoring system (CEMS) calibration check periods.

V.C.5.b. Records

In the operating record, the Permittee shall record and maintain, in accordance with LAC 33:V.1529, all monitoring data compiled to satisfy the permit requirements.

Electronic records may be maintained, in lieu of paper copies.

V.C.6. Automatic Waste Feed Cut Off

V.C.6.a. Requirements

V.C.6.a.i. The Permittee shall operate the SDC 1200 and SDC 2000 to automatically cut off the hazardous waste feed when the monitored operating conditions deviate from the set points specified in Conditions V.D.5.b and V.E.5.b.

V.C.6.a.ii. Operating parameters for which permit limits are established must continue to be monitored following the cut off, and the hazardous waste feed shall not be restarted until the levels of those parameters that caused the automatic waste feed cut off are restored to permit limits. All other parameters must also be within permit limits.

V.C.6.a.iii. In the event of a malfunction of the automatic waste feed cut off system, the Permittee shall immediately cut off and/or lock out the waste feed.

V.C.6.b. Records

V.C.6.b.i. The Permittee shall record in the facility operating record the date and time of all automatic waste feed cut off events. The records shall also include the known or suspected cause of the automatic waste feed cut off, the triggering parameters, the corrective actions taken, the duration of the event, and the date and time of restarting waste feed following the automatic waste feed cut off.

Electronic records may be maintained, in lieu of paper copies.

V.C.6.b.ii. The Permittee shall record in the facility operating record all failures of the automatic waste feed cut off system, including the date and time of the failure, a description of the failure, root cause of the failure, and corrective actions taken.

Electronic records may be maintained, in lieu of paper copies.

V.C.6.b.iii. The operating record shall be maintained in an organized manner for a period of not less than three (3) years and be available at all times for inspection by the Administrative Authority.

V.C.6.c. Reports

V.C.6.c.i. The date, cause, and remedial action for each waste feed cutoff activation shall be documented in the operating record. A summary of such occurrences must be included in the annual reports.

V.C.6.c.ii. The Permittee shall report in writing to the Administrative Authority if there are more than fifty (50) waste feed cut offs for the SDC 1200 and/or SDC 2000 in a month. This report shall be due within thirty (30) days after the end of such month and shall include cause and remedial actions taken.

V.C.6.c.iii. The Permittee shall report in writing to the Administrative Authority for each set of ten (10) exceedances of an emission standard or operating requirement, specified in Conditions V.D - V.E, while hazardous waste remains in the combustion chamber (i.e., when the hazardous waste residence time has not transpired since the hazardous waste feed was cut off) during a sixty (60) day period. This report shall be due within five (5) days of the tenth exceedence and shall document the exceedances and results of the investigations and corrective measures taken.

V.C.7. Re-Packaging Area

V.C.7.a. The capacity of the Re-packaging Area shall not exceed 4,752 kilograms (net explosive weight) in accordance with Table 3 of this permit.

V.C.7.b. No storage of hazardous waste shall be allowed in the Re-packaging Area for a period longer than twenty-four (24) hours. All wastes entering the Re-packaging Area must be thermally treated in the SDC 1200 or SDC 2000 within twenty-four (24) hours of receipt of the hazardous waste in the Re-packaging Area, or be returned to Igloo 2419, Igloo 2420, Igloo 2441, or Igloo 2470 for storage.

V.C.8. Closure and Post-Closure

The Permittee shall close the SDC 1200 and SDC 2000 and associated equipment according to the requirements specified in LAC 33:V.Chapters 32 and 35 and in accordance with the Closure Plan (see Attachment 1).

V.C.8.a. At closure, the Permittee must remove all hazardous waste and residues from the SDC 1200, the SDC 2000, the Re-Packaging Area, and all other associated equipment. If some waste residues or contaminated materials are left in place at final closure, the Permittee must comply with all post-closure requirements contained in LAC 33:V.3519 and 3527, including maintenance and monitoring throughout the post-closure care period.

V.C.8.b. If the facility cannot be clean closed, the Permittee shall submit a Post-Closure Plan for approval by the Administrative Authority. A Post-Closure Plan must be submitted for any unit failing to achieve clean closure (or an alternate closure standard approved under LAC 33:V.3501.D.2 or LAC 33:V.3507.B) within ninety (90) days from the date that the Permittee or the Administrative Authority determines that the unit must be closed as a landfill. The post-closure plan must meet the requirements of LAC 33:V.3523.B.

V.C.8.c. The Administrative Authority may re-evaluate the adequacy of the closure plan and/or the clean-closure confirmatory sampling procedures prior to the commencement of closure based upon the wastes historically managed at the unit.

V.D. SPECIFIC OPERATING CONDITIONS FOR THE SDC 1200

V.D.1. Performance Standards

The Permittee shall comply with the performance standards specified in this permit when hazardous waste is thermally treated in the SDC 1200.

V.D.1.a. The emissions of dioxin and furans shall not exceed 0.20 nanograms TEQ per dry standard cubic meter corrected to 7 percent oxygen.

V.D.1.b. The emissions of mercury shall not exceed 8.1 micrograms per dry standard cubic meter, corrected to 7 percent oxygen.

V.D.1.c. The emissions of cadmium and lead shall not exceed 10 micrograms per dry standard cubic meter, corrected to 7 percent oxygen.

V.D.1.d. The emissions of arsenic, beryllium, and chromium shall not exceed 23 micrograms per dry standard cubic meter, corrected to 7 percent oxygen.

V.D.1.e. The emissions of hydrogen chloride and chlorine gas shall not exceed 21 parts per million by volume, combined emissions, expressed as a chlorine (Cl^-) equivalent, dry basis and corrected to 7 percent oxygen.

V.D.1.f. The emissions of particulate matter shall not exceed 0.0015 grains per dry standard cubic foot, corrected to 7 percent oxygen.

V.D.1.g. The emissions of carbon monoxide shall not exceed 100 parts per million by

volume, dry basis and corrected to 7 percent oxygen.

V.D.2. Implementation Schedule for the SDC 1200 Comprehensive Performance Test

V.D.2.a. Within sixty (60) days of receiving approval from the Administrative Authority of the final design specifications for the SDC 1200 (see Permit Condition II.E.25) the permit, the Permittee shall submit for review and approval by the Administrative Authority a Comprehensive Performance Test (CPT) plan for the SDC 1200. The CPT plan must meet all the applicable requirements of 40 CFR 63 Subpart EEE.

V.D.2.b. Within seven hundred twenty (720) operating hours of initial start-up, the Permittee must perform a CPT for the SDC 1200 in accordance with 40 CFR 63 Subpart EEE. The Permittee may request a time extension for conducting the CPT for reasons deemed acceptable by the Administrative Authority. Any time extensions for conducting the CPT must be reviewed and approved by the Administrative Authority.

V.D.2.c. Within ninety (90) days of completing the CPT for the SDC 1200, the Permittee must submit a Notification of Compliance (NOC), in accordance with 40 CFR 63.1207(j), to the Administrative Authority for approval.

V.D.3. Process Operating Conditions Prior to Submitting Notification of Compliance

Prior to the Permittee submitting a NOC to the Administrative Authority (see Condition V.D.2.c), the SDC 1200 must be operated within the operating conditions prescribed in Condition V.D.5 and within the operating conditions proposed in the approved CPT plan (see Condition V.D.2.a). If there is a discrepancy between an operating condition prescribed in Condition V.C.5 and an operating condition proposed in the approved CPT plan, the SDC 1200 must be operated in accordance with the more stringent operating condition. For instances where there is no prescribed operating limit in Condition V.D.5 (Conditions V.D.5.b.iv-x), the SDC 1200 must be operated in accordance with the operating condition proposed in the approved CPT plan.

V.D.4. Process Operating Conditions after Submitting Notification of Compliance

V.D.4.a. Upon submitting a NOC to the Administrative Authority (see Condition V.D.2.c), the SDC 1200 must be operated within the operating conditions prescribed in Condition V.D.5 and within the operating conditions proposed in the NOC. If there is a discrepancy between an operating condition prescribed in Condition V.D.5 and an operating condition proposed in the NOC, the SDC 1200 must be operated in accordance with the more stringent operating condition. For instances where there is no prescribed operating limit in Condition V.D.5 (Conditions V.D.5.b.iv-x), the SDC 1200 must be operated in accordance with the operating condition proposed in the NOC.

V.D.4.b. Within seven (7) days of receiving a Finding of Compliance (FOC), in accordance with 40 CFR 63.1206(b)(3), from the Administrative Authority, the Permittee shall initiate a Class 1[1] permit modification to change any operating parameters listed in Condition V.D.5, remove any operating parameters listed in Condition V.D.5, and/or add any additional operating parameter limits to Condition V.D.5 based on the results of the SDC 1200 CPT.

V.D.4.c. Upon approval of the Class 1[1] permit modification required by Condition V.D.4.b, the SDC 1200 must be operated within the modified conditions prescribed in V.D.5.

V.D.5. Process Operating Conditions

V.D.5.a. The Permittee shall operate the SDC 1200 in accordance with the waste feed conditions established below.

V.D.5.a.i. The hazardous waste feed rate shall not exceed 60 kilograms per hour (net explosive weight).

V.D.5.a.ii. The hazardous waste feed rate shall not exceed 1.0 kilogram net explosive weight per feed event.

V.D.5.b. The Permittee shall operate the SDC 1200 with a functioning system to automatically cut off waste feed to the unit when operating conditions deviate from those established below.

V.D.5.b.i. Whenever hazardous waste is in the unit, the SDC 1200 inner chamber temperature shall be maintained above the minimum value of 300°C.

V.D.5.b.ii. Whenever hazardous waste is in the unit, the afterburner combustion chamber temperature shall be maintained above the minimum value of 800 °C.

V.D.5.b.iii. Whenever hazardous waste is in the unit, the hourly rolling average carbon monoxide (CO) level shall be maintained below the maximum value of 100 parts per million volume, continuously corrected to seven (7) percent oxygen, dry gas basis.

V.D.5.b.iv. Reserved for maximum mercury feed rate (see Condition V.D.4.b).

V.D.5.b.v. Reserved for maximum total chlorine and chloride feed rate (see Condition V.D.4.b).

V.D.5.b.vi. Reserved for maximum cadmium and lead feed rate (see Condition V.D.4.b).

V.D.5.b.vii. Reserved for maximum arsenic, beryllium, and chromium feed rate (see Condition V.C.4.b).

V.D.5.b.viii. Reserved for maximum ash feed rate (see Condition V.C.4.b).

V.D.5.b.ix. Reserved for air pollution control system operating parameter limits (see Condition V.D.4.b).

V.D.5.b.x. Reserved for an indicator of gas residence time (see Condition V.D.4.b).

V.D.5.c. The Permittee shall operate the SDC 1200 in accordance with the conditions established below.

V.D.5.c.i. O_2 shall be monitored continuously whenever hazardous waste is in the unit, in accordance with CEMS regulations of 40 CFR 63.1209(a).

V.D.5.c.ii. The Permittee shall immediately stop the feed of hazardous waste into the SDC 1200 should sample flow to the CEMS cease, outside of normal calibration periods.

V.D.5.c.iii. Whenever hazardous waste is in the SDC 1200, the unit must be kept totally sealed to protect against the escape of fugitive emissions.

V.E. SPECIFIC OPERATING CONDITIONS FOR THE SDC 2000

V.E.1. Performance Standards

The Permittee shall comply with the performance standards specified in this permit when hazardous waste is thermally treated in the SDC 2000.

V.E.1.a. The emissions of dioxin and furans shall not exceed 0.20 nanograms TEQ per dry standard cubic meter corrected to 7 percent oxygen.

V.E.1.b. The emissions of mercury shall not exceed 8.1 micrograms per dry standard cubic meter, corrected to 7 percent oxygen.

V.E.1.c. The emissions of cadmium and lead shall not exceed 10 micrograms per dry standard cubic meter, corrected to 7 percent oxygen.

V.E.1.d. The emissions of arsenic, beryllium, and chromium shall not exceed 23 micrograms per dry standard cubic meter, corrected to 7 percent oxygen.

V.E.1.e. The emissions of hydrogen chloride and chlorine gas shall not exceed 21 parts per million by volume, combined emissions, expressed as a chlorine (Cl^-) equivalent, dry basis and corrected to 7 percent oxygen.

V.E.1.f. The emissions of particulate matter shall not exceed 0.0015 grains per dry standard cubic foot, corrected to 7 percent oxygen.

V.E.1.g. The emissions of carbon monoxide shall not exceed 100 parts per million by volume, dry basis and corrected to 7 percent oxygen.

V.E.2. Implementation Schedule for the SDC 2000 Comprehensive Performance Test

V.E.2.a. Within ninety (90) days prior to receipt of the SDC 2000, the Permittee shall submit for review and approval by the Administrative Authority a Comprehensive Performance Test (CPT) plan for the SDC 2000. The CPT plan must meet all the applicable requirements of 40 CFR 63 Subpart EEE.

V.E.2.b. Within seven hundred twenty (720) operating hours of initial start-up, the Permittee must perform a CPT for the SDC 2000 in accordance with 40 CFR 63 Subpart EEE. The Permittee may request a time extension for conducting the CPT for reasons deemed acceptable by the Administrative Authority. Any time extensions for conducting the CPT must be reviewed and approved by the Administrative Authority.

V.E.2.c. Within ninety (90) days of completing the CPT for the SDC 2000, the Permittee must submit a Notification of Compliance (NOC), in accordance with 40 CFR 63.1207(j), to the Administrative Authority for approval.

V.E.3. Process Operating Conditions Prior to Submitting Notification of Compliance

Prior to the Permittee submitting a NOC to the Administrative Authority (see Condition V.E.2.c), the SDC 2000 must be operated within the operating conditions prescribed in Condition V.E.5 and within the operating conditions proposed in the approved CPT plan (see Condition V.E.2.a). If there is a discrepancy between an operating condition prescribed in Condition V.E.5 and an operating condition proposed in the approved CPT plan, the SDC 2000 must be operated in accordance with the more stringent operating condition. For instances where there is no prescribed operating limit in Condition V.E.5 (Conditions V.E.5.b.iv-x), the SDC 2000 must be operated in accordance with the operating condition proposed in the approved CPT plan.

V.E.4. Process Operating Conditions after Submitting Notification of Compliance

V.E.4.a. Upon submitting a NOC to the Administrative Authority (see Condition V.E.2.c), the SDC 2000 must be operated within the operating conditions prescribed in Condition V.E.5 and within the operating conditions proposed in the NOC. If there is a discrepancy between an operating condition prescribed in Condition V.E.5 and an operating condition proposed in the NOC, the SDC 2000 must be operated in accordance with the more stringent operating condition. For instances where there is no prescribed operating limit in Condition V.E.5 (Conditions V.E.5.b.iv-x), the SDC 2000 must be operated in accordance with the operating condition proposed in the NOC.

V.E.4.b. Within seven (7) days of receiving a Finding of Compliance (FOC), in accordance with 40 CFR 63.1206(b)(3), from the Administrative Authority, the Permittee shall initiate a Class 1[1] permit modification to change any operating parameters listed in Condition V.E.5, remove any operating parameters listed in Condition V.E.5, and/or add any additional operating parameter limits to Condition V.E.5 based on the results of the SDC 2000 CPT.

V.E.4.c. Upon approval of the Class 1[1] permit modification required by Condition V.E.4.b, the SDC 2000 must be operated within the modified conditions prescribed in V.E.5.

V.E.5. Process Operating Conditions

V.E.5.a. The Permittee shall operate the SDC 2000 in accordance with the waste feed conditions established below.

V.E.5.a.i. The hazardous waste feed rate shall not exceed 138 kilograms per hour (net explosive weight).

V.E.5.a.ii. The hazardous waste feed rate shall not exceed 2.3 kilogram net explosive weight per feed event.

V.E.5.b. The Permittee shall operate the SDC 2000 with a functioning system to automatically cut off waste feed to the unit when operating conditions deviate from those established below.

V.E.5.b.i. Whenever hazardous waste is in the unit, the SDC 2000 inner chamber temperature shall be maintained above the minimum value of 300°C.

V.E.5.b.ii. Whenever hazardous waste is in the unit, the afterburner combustion chamber temperature shall be maintained above the minimum value of 800 °C.

V.E.5.b.iii. Whenever hazardous waste is in the unit, the hourly rolling average carbon monoxide (CO) level shall be maintained below the maximum value of 100 parts per million volume, continuously corrected to seven (7) percent oxygen, dry gas basis.

V.E.5.b.iv. Reserved for maximum mercury feed rate (see Condition V.E.4.b).

V.E.5.b.v. Reserved for maximum total chlorine and chloride feed rate (see Condition V.E.4.b).
V.E.5.b.vi. Reserved for maximum cadmium and lead feed rate (see Condition V.E.4.b).

V.E.5.b.vii. Reserved for maximum arsenic, beryllium, and chromium feed rate (see Condition V.E.4.b).

V.E.5.b.viii. Reserved for maximum ash feed rate (see Condition V.E.4.b).

V.E.5.b.ix. Reserved for air pollution control system operating parameter limits (see Condition V.E.4.b).

V.E.5.b.x. Reserved for an indicator of gas residence time (see Condition V.E.4.b).

V.E.5.c. The Permittee shall operate the SDC 2000 in accordance with the conditions established below.

V.E.5.c.i. O_2 shall be monitored continuously whenever hazardous waste is in the unit, in accordance with CEMS regulations of 40 CFR 63.1209(a).

V.E.5.c.ii. The Permittee shall immediately stop the feed of hazardous waste into the SDC 2000 should sample flow to the CEMS cease, outside of normal calibration periods.

V.E.5.c.iii. Whenever hazardous waste is in the SDC 2000, the unit must be kept totally sealed to protect against the escape of fugitive emissions.

V.F. GENERAL REQIREMENTS FOR THE SCWO UNITS

This section contains the general requirements for the operations of the Supercritical Water Oxidation (SCWO) units, SCWO 3 and SCWO 10, as listed in Table 4 of this permit.

V.F.1. General Operating and Maintenance Requirements

V.F.1.a. The Permittee shall operate and maintain SCWO 3 and SCWO 10 and all associated equipment in accordance with the approved design specifications, the manufacture's specifications, and all applicable federal and state regulations.

V.F.1.b. The Permittee must maintain the containment areas for SCWO 3 and SCWO 10 to prevent run-on and run-off.

V.F.1.c. The Permittee shall maintain the SCWO 3 and the SCWO 10 in a manner that minimizes the possibility of fire, explosion, or any unplanned, sudden or non-sudden releases of hazardous waste constituents to air, soil, or surface water that might threaten human health or the environment in accordance with LAC 33:V.1511.B.

V.F.2. Permitted and Prohibited Wastes

V.F.2.a. Permittee may only treat hazardous waste in the SCWO 3 and the SCWO 10 units which contain one, or a combination, of the following components:

V.F.2.a.i. *Ammonium Picrate*

V.F.2.a.ii. Ammonium Perchlorate

V.F.2.a.iii. Hexachloroethane

V.F.2.a.iv. Nitrocellulose

V.F.2.a.v. Trinitrotoluene

V.F.2.b. Prohibited Waste

The Permittee is only authorized to treat the hazardous waste listed in Condition V.F.2.a. No other hazardous waste shall be treated in the SCWO 3 unit and the SCWO 10 unit, including:

V.F.2.b.i. Dioxin-containing wastes identified by EPA as F020, F021, F022, F023, F026, F027, and F028 wastes in LAC 33:V.4901.

V.F.2.b.ii. Polychlorinated biphenyl (PCB) waste, as defined in 40 CFR 761.3

V.F.2.b.iii. Source material, special nuclear material, mixed waste, or naturally occurring radioactive materials (NORM) that is not exempt pursuant to LAC 33:XV.

V.F.2.b.iv. Containerized gases.

V.F.2.b.v. Medical/infectious wastes.

V.F.2.b.vi. Lethal or incapacitating chemical and biological munitions or their residues or contaminated packaging.

V.F.2.c. Additional waste components identified in the Part A application may be treated in SCWO 3 and SCWO 10 if a permit modification is requested and approved by the Administrative Authority, in accordance with LAC 33:V.321. Any permit modification requesting to treat additional waste components must include an emissions test plan.

V.F.3. Inspections

V.F.3.a. Requirements

V.F.3.a.i. The Permittee shall inspect SCWO 3, SCWO 10, and associated equipment in accordance with the Inspection Plan (see Attachment 1). The Permittee shall complete the following as part of these inspections:

V.F.3.a.i.(1) SCWO 3, SCWO 10, and associated equipment shall be subject to a daily thorough, visual inspection by the Permittee, when they contain hazardous waste. The purpose of these inspections shall be to identify leaks, spills, fugitive emissions, and signs of tampering.

V.F.3.a.i.(2) The automatic waste feed cut off system and associated alarms must be tested at least monthly when hazardous waste is treated to verify operability. The operability testing of the automatic waste feed cut off system and associated alarms may be simulated.

V.F.3.b. Records

V.F.3.b.i. Written inspection records shall be part of the operating record for this permit and are hence subject to LAC 33:V.1529 requirements. At a minimum, the record shall include the following information: (1) the date and time of the inspection, (2) inspector's name, (3) any inspection observations, and (4) date and nature of corrective action. The inspection record shall be completed in accordance with LAC 33:V.1509 and shall be available at all times to the Administrative Authority.

Electronic records may be maintained, in lieu of paper copies.

V.F.3.b.ii. A written record of the automatic waste feed cutoff system tests shall be part of the operating record for this permit and shall be available at all times to the Administrative Authority.

Electronic records may be maintained, in lieu of paper copies.

V.F.4. Response to Leaks and Spills

V.F.4.a. The Permittee must properly manage all spilled or leaked waste and accumulated precipitation associated with SCWO 3, SCWO 10, and all associated equipment and structures.

V.F.4.a.i. Any collected spilled or leaked waste that is a hazardous waste must be managed as a hazardous waste in accordance with all applicable requirements. Spilled or leaked waste must be removed in as timely a manner as is necessary to prevent overflow of the spilled and leaked waste collection system.

V.F.4.a.ii. Contact storm water shall be managed and discharged through a properly permitted NPDES wastewater treatment system or other disposal method authorized by the Administrative Authority. Accumulated precipitation must be removed in as timely a manner as is necessary to prevent overflow of the accumulated precipitation collection system.

V.F.5. Monitoring and Calibration

V.F.5.a. Requirements

V.F.5.a.i. The continuous monitoring system (CMS) shall be operated and maintained in accordance with 40 CFR 63.1209(b) and the manufacturer's specifications.
V.F.5.a.ii. The continuous emission monitoring system (CEMS) shall be operated and maintained in accordance with 40 CFR 63.1209(a) and the manufacturer's specifications.

V.F.5.a.iii. At a minimum, the Permittee shall analyze values from the CMS and CEMS every fifteen (15) seconds. The Permittee must record these values every sixty (60) seconds to demonstrate compliance with the monitoring requirements.

V.F.5.a.iv. The Administrative Authority may request data be submitted in any format or units that facilitates the completion of air modeling, risk assessment, or compliance procedures.

V.F.5.a.v. Monitoring samples and measurements shall be representative of the monitored activity. The method used to obtain a representative sample of the waste to be analyzed shall be the appropriate method specified in LAC 33:V.Chapter 49.Appendix D or an equivalent method approved by the Administrative Authority.

Other sampling and analytical methods shall be those specified in *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods*, SW-846, as revised, or equivalent methods.

V.F.5.a.vi. The Permittee must calibrate all continuous monitoring equipment according to the manufacturer's specifications and any applicable state or federal regulations. Calibration procedures shall be included in the operating record of the facility and available at all times for review by the Administrative Authority.

V.F.5.a.vii. Hazardous waste may continue to be introduced into SCWO 3 and SCWO 10 during daily continuous emission monitoring system (CEMS) calibration check periods.

V.F.5.b. Records

In the operating record, the Permittee shall record and maintain, in accordance with LAC 33:V.1529, all monitoring data compiled to satisfy the permit requirements.

Electronic records may be maintained, in lieu of paper copies.

V.F.6. Automatic Waste Feed Cut Off

V.F.6.a. Requirements

V.F.6.a.i. The Permittee shall operate SCWO 3 and SCWO 10 to automatically cut off the hazardous waste feed when the monitored operating conditions deviate from the set points specified in Conditions V.G and V.H.

V.F.6.a.ii. Operating parameters for which permit limits are established must continue to be monitored following the cut off, and the hazardous waste feed shall not be restarted until the levels of those parameters that caused the automatic waste feed cut off are restored to permit limits. All other parameters must also be within permit limits.

V.F.6.a.iii. In the event of a malfunction of the automatic waste feed cut off system, the Permittee shall immediately cut off and/or lock out the waste feed.

V.F.6.b. Records

V.F.6.b.i. The Permittee shall record in the facility operating record the date and time of all automatic waste feed cut off events. The records shall also include the known or suspected cause of the automatic waste feed cut off, the triggering parameters, the corrective actions taken, the duration of the event, and the date and time of restarting waste feed following the automatic waste feed cut off.

Electronic records may be maintained, in lieu of paper copies.

V.F.6.b.ii. The Permittee shall record in the facility operating record all failures of the automatic waste feed cut off system, including the date and time of the failure, a description of the failure, root cause of the failure, and corrective actions taken.

Electronic records may be maintained, in lieu of paper copies.

V.F.6.b.iii. The operating record shall be maintained in an organized manner for a period of not less than three (3) years and be available at all times for inspection by the Administrative Authority.

V.F.6.c. Reports

V.F.6.c.i. The date, cause, and remedial action for each waste feed cutoff activation shall be documented in the operating record. A summary of such occurrences must be included in the annual reports.

V.F.6.c.ii. The Permittee shall report in writing to the Administrative Authority if there are more than fifty (50) waste feed cut offs for SCWO 3 and/or SCWO 10 in a month. This report shall be due within thirty (30) days after the end of such month and shall include cause and remedial actions taken.

V.F.6.c.iii. The Permittee shall report in writing to the Administrative Authority for each set of ten (10) exceedances of an emission standard or operating requirement, specified in Conditions V.G - V.H, while hazardous waste remains in the combustion chamber (i.e., when the hazardous waste residence time has not transpired since the hazardous waste feed was cut off) during a sixty (60) day period. This report shall be due within five (5) days of the tenth exceedence and shall document the exceedances and results of the investigations and corrective measures taken.

V.F.8. Closure and Post-Closure

The Permittee shall close SCWO 3, SCWO 10, and all associated equipment according to the requirements specified in LAC 33:V.Chapters 32 and 35 and in accordance with the Closure Plan (see Attachment 1).

V.F.8.a. At closure, the Permittee must remove all hazardous waste and residues from SCWO 3, SCWO 10, and all associated equipment. If some waste residues or contaminated materials are left in place at final closure, the Permittee must comply with all post-closure requirements contained in LAC 33:V.3519 and 3527, including maintenance and monitoring throughout the post-closure care period.

V.F.8.b. If the facility cannot be clean closed, the Permittee shall submit a Post-Closure Plan for approval by the Administrative Authority. A Post-Closure Plan must be submitted for any unit failing to achieve clean closure (or an alternate closure standard approved under LAC 33:V.3501.D.2 or LAC 33:V.3507.B) within ninety (90) days from the date that the Permittee or the Administrative Authority determines that the unit must be closed as a landfill. The post-closure plan must meet the requirements of LAC 33:V.3523.B.

V.F.8.c. The Administrative Authority may re-evaluate the adequacy of the closure plan and/or the clean-closure confirmatory sampling procedures prior to the commencement of closure based upon the wastes historically managed at the unit.

V.G. SPECIFIC OPERATING CONDITIONS FOR SCWO 3

V.G.1. Within seven hundred and twenty (720) operating hours of initial start-up, the Permittee must conduct an emissions test for the SCWO 3 in accordance with a test protocol, which has been approved by the Administrative Authority. The Permittee may request a time extension for conducting the emissions test for reasons deemed acceptable by the Administrative Authority. Any time extensions for conducting the emissions test must be reviewed and approved by the Administrative Authority.

V.G.2. Within (90) days of completing the emissions test for the SCWO 3, the Permittee must submit the test results to the Administrative Authority for approval.

V.G.3. Within seven (7) days of receiving approval of the emissions test results, the Permittee shall initiate a Class 1[1] permit modification to include the operating parameters to Condition V.G deemed necessary by the Permittee or the Administrative Authority.

V.G.4. Until the time that the Class 1[1] permit modification required by Condition V.G.3 is reviewed and approved by the Administrative Authority, the Permittee shall operate the SCWO 3 in accordance with the operating parameters specified in the approved emissions test protocol.

V.G.5. Upon approval of the Class 1[1] permit modification required by Condition V.G.3, the SCWO 3 must be operated within the modified conditions prescribed in V.G.

V.H. SPECIFIC OPERATING CONDITIONS FOR SCWO 10

V.H.1. Within seven hundred and twenty (720) operating hours of initial start-up, the Permittee must conduct an emissions test for the SCWO 10 in accordance with a test protocol, which has been approved by the Administrative Authority. The Permittee may request a time extension for

conducting the emissions test for reasons deemed acceptable by the Administrative Authority. Any time extensions for conducting the emissions test must be reviewed and approved by the Administrative Authority.

V.H.2. Within (90) days of completing the emissions test for the SCWO 10, the Permittee must submit the test results to the Administrative Authority for approval.

V.H.3. Within seven (7) days of receiving approval of the emissions test results, the Permittee shall initiate a Class 1^1 permit modification to include the operating parameters to Condition V.H deemed necessary by the Permittee or the Administrative Authority.

V.H.4. Until the time that the Class 1^1 permit modification required by Condition V.H.3 is reviewed and approved by the Administrative Authority, the Permittee shall operate the SCWO 10 in accordance with the operating parameters specified in the approved emissions test protocol.

V.H.5. Upon approval of the Class 1^1 permit modification required by Condition V.H.3, the SCWO 10 must be operated within the modified conditions prescribed in V.H.

V.I. TANK

V.I.1. Description of Tank System

V.I.1.a. Operation

V.I.1.a.i. The permitted tank and associated piping, pumps, instruments, containment, and vent controls shall be operated and maintained in accordance with LAC 33:V.Chapter 19, the specification and design criteria submitted in the Part B Permit Application, and the design limits specified in Table 6.

V.I.1.a.ii. The design temperature and pressure for the tank shall not change from the one listed in Table 6, unless a Permit modification is approved by the Department.

V.I.1.b. Permitted Tank

V.I.1.b.i. The tank system listed in Tables 5 and 6 is permitted to be used for hazardous waste storage. This tank has been certified by an independent, professional engineer licensed in the state of Louisiana to have sufficient structural integrity for storage of hazardous waste.

V.I.1.b.ii. The tank system listed in Tables 5 and 6 must be clearly marked with the words "Hazardous Waste".

V.I.1.b.iii. The Permittee is prohibited from storing hazardous waste in any tank storage system not listed in Table 5 for greater than ninety (90) days, unless an extension is granted by the Department, the activity is exempt from regulations, or an Emergency Permit is issued.

V.I.2. Permitted and Prohibited Wastes

V.I.2.a. Permitted Waste

Subject to the terms of this Permit, the Permittee is allowed to store in the tank described in Condition V.I.1.b of this Permit, the hazardous wastes identified in the most current Part A Permit Application.

V.I.2.b. Prohibited Waste

The Permittee is prohibited from storing hazardous waste that is not identified in Condition V.I.2.a of this Permit.

V.I.3. Secondary Containment

V.I.3.a. Duty to Comply with LAC 33:V.1907

The Permittee shall design, construct, operate, and maintain the secondary containment system in accordance with LAC 33:V.1907, the Part B Permit Application, and Table 6 of this Permit.

V.I.3.b. Prevention of Migration

V.I.3.b.i. The secondary containment system must be maintained and operated to prevent any migration of wastes or accumulated liquid out of the system to the soil, groundwater, or surface water at any time during the use of the tank system.

V.I.3.b.ii. Ancillary equipment must be provided with secondary containment, except as excluded by LAC 33:V.1907.F.

V.I.3.b.iii. The secondary containment system must be free of cracks or gaps and other surface defects that would allow liquid to migrate out of the containment system.

V.I.3.b.iv. Spilled or leaked waste must be removed from the secondary containment system within 24 hours or in as timely a manner as is possible to prevent harm to human health and the environment, unless it can be demonstrated that removal cannot be accomplished within 24 hours.

V.I.3.b.v. Accumulated precipitation must be removed from the secondary containment system within 24 hours or in as timely a manner as is possible.

V.I.4. Operating Requirements

V.I.4.a. Duty to Comply with LAC 33:V.1909.A

The Permittee shall comply with LAC 33:V.1909.A. Hazardous wastes or treatment reagents must not be placed in a tank system if they could cause the tank, its ancillary equipment, or the containment system to rupture, leak, corrode, or otherwise fail.

V.I.4.b. Duty to Comply with LAC 33:V.1909.B

The Permittee shall comply with LAC 33:V.1909.B and Table 6 of this Permit. The Permittee must use appropriate controls and practices to prevent spills and overflows from the tank and containment system.

V.I.4.c. Tank Covers

The hazardous waste storage tank shall be covered and shall not be vented directly to the atmosphere if the tank is used to store, or if a possibility exists that it may be used to store volatile or malodorous waste.

V.I.4.d. Maintenance

The Permittee shall maintain the permitted tank system according to the design code specified for the tank as listed in Table 6 and not exceed the listed operating conditions.

V.I.5. Ignitable, Reactive, and Incompatible Wastes

The Permittee shall store ignitable, reactive, or incompatible wastes only in accordance with LAC 33:V.1517.B, 1917 and 1919.

V.I.6. Inspections

V.I.6.a. Inspection Schedule

The Permittee shall comply with LAC 33:V.1911.A through C by following the inspection schedule submitted in the Inspection Plan (see Attachment 1).

V.I.6.b. Daily Inspection

V.H.6.b.i. At least once per day while the tank is operating in hazardous waste service, the Permittee shall inspect the following:

V.I.6.b.i.(1). Aboveground portions of the tank system, including the tank, ancillary piping, valves, and vent controls, to detect corrosion, cracks or releases of waste.

V.I.6.b.i.(2). Data gathered from monitoring and leak detection equipment.

V.I.6.b.i.(3). Construction materials and area immediately surrounding the externally accessible portion of the tank system and ancillary equipment (e.g. secondary containment system), to detect erosion, cracks and signs of hazardous waste releases.

V.I.6.b.ii. All deficiencies noted during daily inspections must be recorded and remedied in a timely manner.

V.I.6.c. External Inspection

At a minimum, an external inspection of the tank covered by this Permit shall be performed as often as required by the designated inspection standard in Table 6. The required frequency of inspection with reference to the applicable section of the standard shall be kept on site and available for review by the Administrative Authority upon request. The inspection shall be performed by a person meeting the minimum qualifications required under the inspection standard in Table 6. The inspection checklist shall be comparable to that in STI SP001, as applicable.

If the result of such an inspection reveals that the tank is unfit for continued service, the Permittee shall immediately stop the flow of hazardous waste into the tank and comply with LAC 33:V.1913. The certification required by LAC 33:V.1913.F shall be obtained before the tank is put back into service.

V.I.6.d. Internal Inspection

An internal inspection of the tank covered by this Permit shall be performed as often as required by the inspection standard in Table 6. The required frequency of inspection with reference to the applicable section of the standard shall be kept on site and available for review by the Department upon request. The inspection shall be performed by a person meeting the minimum qualifications required under the inspection standard in Table 6. The inspection checklist shall be comparable to that in STI SP001, as applicable.

If the result of such an inspection reveals that the tank is unfit for continued service, the Permittee shall immediately stop the flow of hazardous waste into the tank and comply with LAC 33:V.1913. The certification required by LAC 33:V.1913.F shall be obtained before the tank is put back into service.

V.I.6.e. Thickness Testing

V.I.6.e.i. An authorized inspector shall take tank thickness measurements on the tank top and shells and shall be taken at least on each tank quadrant at least every two (2) years.

Tank thickness readings shall be taken in the same place during each testing event in order to form a comparison of readings for corrosion rate determination.

V.I.6.e.ii. Tank thickness readings shall also be taken at any spot where visual corrosion or compromised integrity is evident.

V.I.6.e.iii. An authorized inspector shall perform tank thickness measurements on the tank bottom as often as the internal inspection required under Condition V.I.6.d, or more often if required by the inspection standard specified in Table 6. The required frequency of inspection with reference to the applicable section of the inspection standard shall be kept on-site and made available to the Administrative Authority upon request.

V.I.6.e.iv. When any tank shell thickness measurement at a single point is less than that required in Table 6, the Permittee shall immediately comply with either Condition V.I.6.e.iv.(1) or (2) below. Condition V.A.6.e.iv.(2) shall not be used

for any tank where the shell thickness measurement is less than 0.100 inches.

V.I.6.e.iv.(1). The tank shall be deemed unfit for use, and the Permittee shall immediately stop the flow of hazardous waste into the tank and comply with LAC 33:V.1913. The tank shall be repaired or replaced and the certification required by LAC 33:V.1913.F shall be obtained before the tank is put back into service.

V.I.6.e.iv.(2). An engineering evaluation shall be performed, conforming to the appropriate standard or standards, as allowed by the design or inspection standard in Table 6. If the evaluation determines that the tank is unfit for service, the Permittee shall comply with Condition V.I.6.e.iv.(1) immediately.

The evaluation must be submitted to the Waste Permits Division for approval within forty-five (45) days of the initial measurement.

V.I.6.e.v. Tank thickness measurements shall not be averaged, unless allowed under the tank inspection standard in Table 6. Averaging of tank thickness measurements shall be reported to the Administrative Authority.

V.I.6.f Overfill Controls

The tank level shall be continuously monitored and overfill controls shall be visually inspected along with other aboveground portions of the tanks daily. Function of the overfill controls shall be tested annually.

V.I.7. Response to Leaks or Spills

V.I.7.a. Duty to Comply with LAC 33:V.1913.A through E

In the event of a leak or spill from the tank system, secondary containment system, or if the system becomes unfit for use, the Permittee shall comply with LAC 33:V.1913.A through E.

V.I.7.b. Leaks and Spills

V.I.7.b.i. Upon discovering a leak or spill, the Permittee must immediately stop the flow of hazardous waste into the tank system or secondary containment system and inspect the system to determine the cause of the release.

V.I.7.b.ii. Within twenty-four (24) hours of detecting a leak from the tank system, or in as timely a manner as is practical if the Permittee demonstrates that is not possible to remove the waste within twenty-four (24) hours, the Permittee must remove as much waste as necessary to prevent further release from the tank or secondary containment system and to allow inspection and repair of the tank system in accordance with LAC 33:1913.B.1.

If the material released was to a secondary containment system, all released material must be removed within twenty-four (24) hours or in as timely a manner as is possible to prevent harm to human health and the environment in accordance with LAC 33:V.1913.B.2

V.I.7.b.iii. Any spilled material or material trapped in sumps that is a hazardous waste or that will be disposed of as a hazardous waste must be cleaned up in a timely manner, as required by LAC 33:V.1505.C.3.

V.I.7.b.iii.(1). If the collected material is discharged through a point source to United States water or to a Publicly Owned Treatment Works, it is subject to the requirements of the Clean Water Act (Title 33, U.S. Code, Ch.26 § 1251).

V.I.7.b.iii.(2). If the collected material is released to the environment, it may be subject to reporting under applicable requirements of LAC 33:V.1505, LAC 33:I.Chapter 39, and 40 CFR Part 302.

V.I.7.b.iv. When a leak or spill occurs, the Permittee shall remove and properly dispose of any visible contamination of the soil or surface water.

V.I.7.b.v. A tank system from which a leak or spill has occurred must be closed in accordance with the approved Closure Plan and LAC 33:V.1915, unless the requirements of LAC 33:V.1913.E.2-3 are satisfied.

V.I.7.b.v.(1). For a release caused by a spill that has not damaged the integrity of the system, the Permittee shall remove the released waste and make any necessary repairs to fully restore the integrity of the system before returning the tank system to service.

V.I.7.b.v.(2). For a release caused by a leak from the primary tank system to the secondary containment system, the Permittee shall repair the primary system prior to returning the tank to service.

V.I.7.b.vi. If the Permittee replaces a component of the tank system to eliminate a leak, that component must satisfy the requirements for new tank systems or components in LAC 33:V.1905 and 1907.

V.I.7.b.vii. All leaks and spills shall be documented in the daily inspection log.

V.I.7.c. Major Repairs

V.I.7.c.i. The Permittee shall comply with LAC 33:V.1913.F when performing major repairs to a tank system.

V.I.7.c.ii. Major repairs shall include, but not be limited to, installation of an internal liner, repair of a ruptured tank, repair of a ruptured secondary containment area, and removal of a tank from its foundation for any reason.

V.I.7.c.iii. The Permittee shall conform to the appropriate portion of the most recent inspection code listed in Table 6 for maintenance, inspection, re-rating, repair, and alteration of all tanks.

V.I.7.c.iv. The tank shall not be returned to service unless the Permittee has obtained a certification by an independent, Louisiana registered professional engineer that the system is capable of handling hazardous waste without release

for the intended life of the system. The certification of repairs shall include an inspection in accordance with the requirements of any applicable codes, such as STI SP001 . The certification shall be submitted to the Department within seven (7) days of returning the tank system to use.

V.I.8. Air Emission Control Equipment Standards

See Permit Condition V.K.3.

V.I.9. Recordkeeping

V.I.9.a. New Tanks

The Permittee shall obtain, and keep on file at the facility, the written statements by those persons required to certify the design and installation of new tank systems, in accordance with LAC 33:V.1905.G.

V.I.9.b. Written Assessment

The Permittee shall keep on file at the facility, written assessments of the tank system's integrity. Assessments shall be updated at the time of submittal of the Permit Application and at any other time deemed necessary by the Department.

V.I.9.c. Inspections

V.I.9.c.i. The Permittee shall document in the operating record for the facility inspection of those items in Condition V.I.6.a-b of this Permit.

V.I.9.c.i.(1). The daily log sheets shall include all monitored parameters for the prevention of spills and overflows, including temperature, pressures, and either levels or pump flows into and out of the tanks.

V.I.9.c.i.(2). The Permittee shall note all deficiencies discovered during the inspection in the inspection log.

V.I.9.c.i.(3). Corrective action taken in response to deficiencies must be included as part of the operating record for the facility.

V.I.9.c.ii. The Permittee shall document in the operating record all tests and inspections of overfilling controls.

V.I.9.c.iii. The Permittee shall keep on file at the facility the results of the internal and external inspections required by Condition V.I.6.c-d of this Permit. The Permittee shall note all deficiencies discovered during the inspection in the inspection log. Corrective action taken in response to deficiencies must be included as part of the operating record for the facility.

V.I.9.c.iv. The Permittee shall keep on file all information related to tank thickness testing required under Condition V.I.6.e of this Permit.

V.I.9.c.iv.(1). This information shall include, at a minimum, the date(s) of assessment, the location where measurement readings are taken, the raw measurement data, comparison of actual reading to minimum

thickness requirements, the corrosion rate, and calculation of remaining tank life.

V.I.9.c.iv.(2). If an engineering evaluation is performed in accordance with Condition V.I.6.e.iv.b of this Permit, the results of such an evaluation shall be kept in the operating record.

The engineering evaluation must include, at a minimum, details on how the evaluation was performed, references to applicable tank codes, raw data, calculations performed, and an explanation of why the tank is or is not fit for continued service.

V.I.9.c.iv.(3). Any tank thickness measurements that are averaged under Condition V.I.6.e.v of this Permit must be supported by documentation with references to the applicable tank codes. The documentation shall include all raw measurement data, calculations, and results of averaging. This information shall be kept as a part of the operating record for the facility.

V.I.9.d. Releases

V.I.9.d.i. The Permittee shall keep on file at the facility, notification reports submitted under LAC 33:V.1913.D.

V.I.9.d.ii. Within twenty-four (24) hours of detecting a reportable leak or spill from a tank system or secondary containment system to the environment, the Permittee shall report the leak or spill to the Department's Single Point of Contact.

V.I.9.d.iii. Within thirty (30) days of detecting a reportable release to the environment from a tank system or secondary containment system, the Permittee shall report the following information to the Department's Single Point of Contact:

V.I.9.d.iii.(1). Likely route of migration of the release,

V.I.9.d.iii.(2). Characteristics of the surrounding soil, including soil composition, geology, hydrogeology, and climate,

V.I.9.d.iii.(3). Results of any monitoring or sampling conducted in connection with the release (if available). If the Permittee finds it will be impossible to meet this time schedule, the Permittee must provide the Department with a schedule of when the results will be available. This schedule must be provided before the required thirty (30) day submittal period expires,

V.I.9.d.iii.(4). Proximity of down gradient drinking water, surface water, and populated areas, and

V.I.9.d.iii.(5). A description of response actions taken or planned.

V.I.9.e. Repairs

The Permittee shall keep on file at the facility all certifications required by Condition V.I.7.c of this Permit.

V.I.10. Closure and Post-Closure Care

V.I.10.a. Duty to Comply with LAC 33:V.1915.A

The Permittee shall comply with LAC 33:V.1915.A by following the procedures specified in the Closure Plan, Attachment 1.

V.I.10.b. Duty to Comply with LAC 33:V.1915.B

If the Permittee demonstrates that not all contaminated soils can be practicably removed or decontaminated in accordance with Condition V.I.10.a of this Permit, the Permittee shall comply with LAC33:V.1915.B.

V.I.10.c. Post-Closure

The Permittee shall attempt to clean close the tank system. If a tank cannot be clean closed and the Permittee has not demonstrated through a risk assessment approved by the Department that closure with the remaining contaminant levels is protective of human health and the environment; or if any waste residue or contaminated materials are left in place at final closure, the Permittee must comply with all post-closure requirements contained in LAC 33:V.3519 and 3527, including maintenance and monitoring throughout the post-closure care period.

TABLE 6
Design and Operating Parameters for Tank Systems

Tank No.	Year Placed Into Service	Dimensions (D X H)	Permitted Capacity (gallons)	Design Standard	Inspection Standard	Design Temperature (°F)	Design Pressure	Materials of Construction	Nominal Thickness (inches)	Minimum Thickness Including Corrosion Allowance (inches)	Secondary Containment Type and Net Capacity (gallons)
TK-100A[1]	TBD	56" x 88"	900 gallons	UL-142, 9th Ed.	STI SP001	20 - 140	Atmospheric	See Note 2	0.123	0.100	External Liner 6,908 gallons

[1]TK-100A is a proposed tank. See Condition II.E.24.a.

[2]The material of construction for TK-100A will meet the UL-142 Standards for Steel Aboveground Tanks for Flammable and Combustible Liquids, 9th Edition. The material will comply with ASTM A167 or ASTM A240/A240M.

V.J. RISK-BASED CONDITIONS

(RESERVED)

V.K. AIR EMISSION STANDARDS

V.K.1. Performance Standards for Equipment Leaks

The Permittee shall comply with LAC 33:V.1717-1745 to meet the performance standards for equipment leaks.

V.K.2. Standards for Containers

The Permittee shall comply with the applicable requirements of LAC 33:V.1747-1799 for all containers managed at the facility.

V.K.3. Standards for Tanks

The Permittee shall comply with the applicable requirements of LAC 33:V.1747-1799 for Tank TK-100A.

VI. GROUND WATER PROTECTION

VI.A. APPLICABILITY

The regulations of Louisiana Administrative Code (LAC), Title 33, Part V, Chapter 3, 5, 15, 33, 35, and 37, and the Louisiana Hazardous Waste Control Law, La. R.S. 30:2171 et seq., of the Act, La. R.S. 30:2001 et seq., and the provisions of this Condition may apply to ground water protection programs for facilities that are used to treat, store, and/or dispose hazardous wastes at Explo Systems, Inc. Camp Minden, Webster Parish, Louisiana.

V1.B. REQUIRED PROGRAMS

The Permittee shall comply with the monitoring, response, and corrective action provisions for the existing and any new systems in accordance with LAC 33:V.Subpart 1.

VI.C. GROUNDWATER PROTECTION STANDARD

If additional ground water contamination is confirmed as a result of operations related to past or present hazardous waste management facilities associated with this facility, the Permittee shall establish, expand, or continue assessment and corrective action programs in accordance with the requirements of LAC 33:V.Chapter 33 and as directed by the Administrative Authority.

VII. GENERAL CONDITIONS PURSUANT TO THE HAZARDOUS AND SOLID WASTE AMENDMENTS

VII.A. STANDARD CONDITIONS

VII.A.1. Waste Minimization

Annually, by March 1, for the previous year ending December 31, the permittee shall enter into the operating record as required by LAC 33:V.1529.B.19, a statement certified according to LAC 33:V.513.A specifying that the permittee has a program in place to reduce the volume and toxicity of hazardous wastes generated by the facility's operation to the degree determined by the permittee to be economically practicable; and that the proposed method of treatment, storage, or practicable disposal method that is currently available to the permittee minimizes the present and future threat to human health and the environment. A current description of the program shall be maintained in the operating record and a copy of the annual certified statement shall be submitted to the Administrative Authority. The following criteria may be considered for the program:

VII.A.1.a. Any written policy or statement that outlines goals, objectives, and/or methods for source reduction and recycling of hazardous waste at the facility;

VII.A.1.b. Any employee training or incentive programs designed to identify and implement source reduction and recycling opportunities;

VII.A.1.c. An itemized list of the dollar amounts of capital expenditures (plant and equipment) and operating costs devoted to source reduction and recycling of hazardous waste;

VII.A.1.d. Factors that have prevented implementation of source reduction and/or recycling;

VII.A.1.e. Sources of information on source reduction and/or recycling received at the facility (e.g., local government, trade associations, suppliers, etc.);

VII.A.1.f. An investigation of additional waste minimization efforts that could be implemented at the facility. This investigation would analyze the potential for reducing the quantity and toxicity of each waste stream through production reformulation, recycling, and all other appropriate means. The analysis would include an assessment of the technical feasibility, cost, and potential waste reduction for each option;

VII.A.1.g. A flow chart or matrix detailing all hazardous wastes the facility produces by quantity, type, and building/area;

VII.A.1.h. A demonstration of the need to use those processes that produce a particular hazardous waste due to a lack of alternative processes or available technology that would produce less hazardous waste;

VII.A.1.i. A description of the waste minimization methodology employed for each related process at the facility. The description should show whether source reduction or recycling is being employed;

VII.A.1.j. A description of the changes in volume and toxicity of waste actually achieved during the year in comparison to previous years; and

VII.A.1.k. The permittee may meet the requirements for waste minimization by developing an Environmental Management System according to the EPA document, Integrated Environmental Management System Implementation Guide, EPA 744-R-00-011, October 2000, found on the EPA website at www.epa.gov/opptintr/dfe/pubs/iems/iems_guide/index.htm.

VII.A.2. Dust Suppression

Pursuant to LAC 33:V.4139.B.4, and the Toxic Substances Control Act, the permittee shall not use waste or used oil or any other material which is contaminated with dioxin, polychlorinated biphenyls (PCBs), or any other hazardous waste (other than a waste identified solely on the basis of ignitability), for dust suppression or road treatment.

VII.A.3. Failure to Disclose

The permittee's failure in the application or during the permit issuance process to disclose fully all relevant facts at any time may be cause for termination or modification of this Permit in accordance with LAC 33:V:323.B.2 and 3.

VII.A.4. Suspension, Modification, or Revocation and Reissuance, and Termination of Permit

This Permit may be modified, revoked and reissued, or terminated for cause as specified in LAC 33:V.323. The filing of a request by the permittee for a permit modification, revocation and reissuance, termination, or the notification of planned changes or anticipated noncompliance on the part of the permittee, does not stay the applicability or enforceability of any permit condition.

VII.A.4.a. If the Administrative Authority tentatively decides to modify or revoke and reissue a permit under LAC 33:V.321.C. or 323, a draft permit shall be prepared incorporating the proposed changes. The Administrative Authority may request additional information and, in the case of a modified permit, may require the submission of an updated permit application.

VII.A.4.b. The permittee may initiate permit modification proceedings under LAC 33:V.321.C. All applicable requirements and procedures as specified in LAC 33:V.321.C shall be followed.

VII.A.4.c. Modifications of this Permit do not constitute a reissuance of the Permit.

VII.A.5. Permit Review

This Permit may be reviewed by the Administrative Authority five years after the date of permit issuance and may be modified as necessary as provided for in LAC 33:V.321.C. Nothing in this section shall preclude the Administrative Authority from reviewing and modifying the Permit at any time during its term.

VII.A.6. Compliance with Permit

Compliance with a RCRA permit during its term constitutes compliance, for purposes of enforcement, with subtitle C of RCRA except for those requirements not included in the permit which:

VII.A.6.a. Become effective by statute;

VII.A.6.b. Are promulgated under LAC 33:V.Chapter 22 restricting the placement of hazardous wastes in or on the land; or

VII.A.6.c. Are promulgated under LAC 33:V.Chapters 23, 25 and 29 regarding leak detection systems for new and replacement surface impoundment, waste pile, and landfill units, and lateral expansions of surface impoundment, waste pile, and landfill units. The leak detection system requirements include double liners, construction quality assurance (CQA) programs, monitoring action leakage rates, and response action plans, and will be implemented through the procedures of LAC 33:V.321.C Class 1 permit modifications.

VII.A.7. Specific Waste Ban

VII.A.7.a. The permittee shall not place in any land disposal unit the wastes specified in LAC 33:V. Chapter 22 after the effective date of the prohibition unless the Administrative Authority has established disposal or treatment standards for the hazardous waste and the permittee meets such standards and other applicable conditions of this Permit.

VII.A.7.b. The permittee may store wastes restricted under LAC 33:V.Chapter 22 solely for the purpose of accumulating quantities necessary to facilitate proper recovery, treatment, or disposal provided that it meets the requirements of LAC 33:V.2205 including, but not limited to, clearly marking each tank or container.

VII.A.7.c. The permittee is required to comply with all applicable requirements of LAC 33:V.2245 as amended. Changes to the Waste Analysis Plan will be considered permit modifications at the request of the permittee, pursuant to LAC 33:V.321.C.

VII.A.7.d. The permittee shall review the waste analysis plan and analyze the waste when a process changes to determine whether the waste meets applicable treatment standards. Results shall be maintained in the operating record.

VII.A.8. Information Submittal for the Corrective Action Strategy

Failure to comply with any condition of the Permit, including information submittals, constitutes a violation of the Permit and is grounds for enforcement action, permit amendment, termination, revocation, suspension, or denial of permit renewal application. Falsification of any submitted information is grounds for termination of this Permit (LAC 33:V.323.B.3).

The permittee shall ensure that all plans, reports, notifications, and other submissions to the Administrative Authority required by this Permit using the Corrective Action Strategy are signed and certified in accordance with LAC 33:V.Chapter 5, Subchapter B. All submittals required under the corrective action strategy must conform to those requirements outlined in the RECAP (see Condition VIII of this permit). Variance from content and/or formatting guidelines provided under the RECAP shall be requested by the permittee prior to submittal to the Administrative Authority, as deemed necessary. Approval or disapproval of such a request with further guidance on content and formatting will be provided by the Administrative Authority, as deemed necessary. Five (5) copies each of these plans, reports, notifications or other submissions and one (1) electronic copy (3.5" IBM compatible disk or CD-ROM) of all portions thereof which are in word processing format shall be submitted to the Administrative Authority by Certified Mail.

A summary of the planned reporting milestones pursuant to the corrective action requirements of this Permit is found in Condition VIII, Table 1.

VII.A.9. Data Retention

All raw data, such as laboratory reports, drilling logs, bench scale or pilot scale data, and other supporting information gathered or generated during activities undertaken pursuant to this Permit shall be maintained at the facility during the term of this Permit, including any reissued Permits.

VII.A.10. Management of Wastes

All solid wastes which are managed pursuant to a remedial measure taken under the corrective action process or as an interim measure addressing a release or the threat of a release from a solid waste management unit shall be managed in a manner

protective of human health and the environment and in compliance with all applicable Federal, State and local requirements. As a response to the Louisiana legislature mandate La. R.S. 30:2272 (Act 1092 of the 1995 Regular Session) to develop minimum remediation standards, the LDEQ promulgated the Risk Evaluation Corrective Action Program (RECAP). RECAP's tiered approach to risk evaluation and corrective action establishes not only across the board numerical standards for most media, but also allows for the development of more site-specific numerical standards, as warranted. The permittee is required to comply with all applicable requirements of RECAP. Approval of units for managing wastes and conditions for operating the units shall be granted through the permitting process.

VII.B. EMISSION STANDARDS - PROCESS VENTS, EQUIPMENT LEAKS, TANKS, SURFACE IMPOUNDMENTS, AND CONTAINERS (AA-BB-CC AIR REGULATIONS)

Permittee must comply with permit Condition V.K.

VII.C. SPECIFIC CONDITION - CLOSURE

Pursuant to Section 3005(j)(1) of the Hazardous and Solid Waste Amendments of 1984, the permittee shall close all closing units, if any, in accordance with the following provisions:

VII.C.1. Other than consolidation of any wastes from the sites in conformance with LAC 33:V.Chapter 22, Land Disposal Restrictions, the permittee shall not place waste prohibited by LAC 33:V.Chapter 22 into any closing units;

VII.C.2. The permittee shall perform unit closures in accordance with the Closure Plan(s) as approved at the time of closure, and which meet(s) all relevant State and Federal closure requirements at the time of closure; and

VII.C.3. The permittee shall notify the Administrative Authority in writing at least sixty (60) days prior to commencement of closure.

VIII. SPECIAL CONDITIONS PURSUANT TO HAZARDOUS AND SOLID WASTE AMENDMENTS—CORRECTIVE ACTION STRATEGY (CAS)

Corrective Action for Releases: Section 3004(u) of RCRA, as amended by the Hazardous and Solid Waste Amendments (HSWA), and LAC 33:V.3322 require that permits issued after November 8, 1984, address corrective action for releases of hazardous waste or hazardous constituents from any solid waste management unit at the facility, regardless of when the waste was placed in the unit.

EPA's traditional RCRA corrective action approach is structured around several elements common to most activities. In the first phase, RCRA facility assessment (RFA), EPA or the authorized state assesses the facility to identify releases and determine the need for corrective action. In the second phase, RCRA facility investigation (RFI), the facility conducts a more detailed investigation to determine the nature and extent of contaminants released to ground water, surface water, air, and soil. If remedial action is needed, a third phase, corrective measures study (CMS), is started. During this phase, the facility conducts a study, which when completed, describes the advantages, disadvantages, and costs of various cleanup options. After selection of a final remedy, the fourth phase, corrective measures implementation (CMI), is initiated. The facility is required to design, construct, operate, maintain, and monitor the final remedy(s).

The Corrective Action Strategy (CAS) is an alternate corrective action approach that can be implemented during any phase of corrective action for a release area. The permittee shall use the CAS approach as the framework for corrective action for any new releases, to clarify, facilitate and expedite the process, and shall use the **Louisiana Department of Environmental Quality Risk Evaluation/Corrective Action Program (RECAP)** for screening and media-specific cleanup standards, and No Further Action (NFA) determinations. EPA has interpreted the term "release" to mean, "any spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing into the environment." (50 FR 2873, July 15, 1985). The CAS refers to "release areas" as solid waste management units (SWMUs) and areas of concern (AOCs) while the RECAP refers to release areas as areas of investigation (AOIs). SWMUs and AOCs may also be referred to as "AOIs" when investigated and managed under the RECAP.

Use of the CAS process is required for any new releases which have to be reported under the LA RECAP reporting requirements and are unable to be managed using the self-implementation process referred to in RECAP. The use of the CAS process is also required for any and all new releases that exceed the reportable quantity reporting requirements in LAC 33:I Office of the Secretary.

VIII.A. ALTERNATE CORRECTIVE ACTION

VIII.A.1. Introduction to CAS

This Permit will utilize the CAS Guidance Document (www.epa.gov/Arkansas/6pd/rcra_c/pd-o/riskman.htm) developed by the U.S. Environmental Protection Agency (EPA) Region 6 whenever the Administrative Authority determines that it will serve to facilitate the corrective action. The CAS Guidance Document shall be utilized to the fullest extent practicable for planning and implementation of the corrective action. The CAS in this Permit shall not supersede existing Federal, State, and local regulations. The two primary objectives are to prioritize corrective action at the facility, and streamline corrective action administrative procedures, resulting in the protection of human health and the environment.

The CAS is a performance-based approach; using data quality objectives, investigations begin with the endpoint in mind. The CAS is a risk management strategy that can be implemented during any phase of corrective action. However, the CAS need not be applied to work that has already been completed to the satisfaction of the Administrative Authority. Performance standards are established at the beginning of the corrective action process, allowing earlier and more focused implementation. Releases are screened using RECAP screening numbers to determine the priority of corrective action, and remedial alternatives are selected on the basis of their ability to achieve and maintain the established performance standards.

There is no one specific path through the CAS process. The CAS is a facility-wide approach, focusing corrective action on releases that pose the greatest risk first. Screening releases will also enable some areas of interest to qualify for no further action at this time (Condition VIII.A.3.a.), thus resources can be used to best benefit the protection of human health and the environment. The CAS process also considers activities previously conducted under the traditional corrective action process. Appendix 1 of this permit contains a summary of corrective action activities completed to date and also describes where the permittee is in the CAS process at the time of issuance of this permit. The applicability of various provisions of the CAS will depend on where the permittee is in the CAS process as detailed in Appendix 1.

The traditional RCRA corrective action process and reports (i.e., RFIs, CMSs, CMIs, etc.) are not elements of the CAS. However, the use of information and reports from the traditional corrective action process, if available, is encouraged, in addition to new site-specific information.

The Administrative Authority, through an agency-initiated permit modification, may remove the CAS as the means of facility-wide corrective action in the case of the failure of the permittee to disclose information, abide by the terms and conditions of this permit, adhere to agreed schedules, or show adequate progress; or should an impasse occur between the permittee and the Administrative Authority. The

Administrative Authority will institute other means of corrective action (such as traditional corrective action) at the facility through modification of this permit.

VIII.A.2. Performance Standards

Expectations for the outcome of corrective action at a facility are established in the CAS by three performance standards as defined in Conditions VIII.A.2.a through c. The permittee's proposed performance standards shall be presented during the scoping meeting. The permittee must justify the proposed performance standards through evaluation and documentation of land use, ground water designation (current and reasonably expected future use), types of receptors present, exposure pathways, etc.; as described in RECAP, Chapter 2. Through the application of the performance standards and RECAP, the permittee and Administrative Authority shall determine whether a release must be addressed through corrective action, and whether implemented corrective actions are protective of human health and the environment.

The permittee shall submit the performance standards in writing along with the Conceptual Site Model (Condition VIII.D) within one-hundred and twenty (120) days after the scoping meeting. The Administrative Authority may either approve the performance standards proposed by the permittee or establish performance standards that the Administrative Authority deems necessary to protect human health and the environment.

The three CAS performance standards are defined below. The order in which the performance standards are listed does not indicate that one performance standard takes priority over another. All applicable performance standards must be achieved by the permittee.

VIII.A.2.a. Source Control Performance Standard

Source control refers to the control of materials that include or contain hazardous wastes or hazardous constituents that act as a reservoir for migration of contamination to soil, sediment, ground water, surface water, or air, or as a source for direct exposure.

For new releases not identified in Appendix 1, the permittee must determine if source material is present. Removal, containment, treatment, or a combination of the three, must be evaluated on a case-by-case basis. Controlling source material is a predominating issue in the CAS, and must be addressed to ensure protectiveness over time. Prioritization of the SWMUs and AOCs does not mean avoidance of controlling source materials.

VIII.A.2.b. Statutory and Regulatory Performance Standard

Applicable statutory and regulatory requirements (Federal, State, and local) must be identified. These requirements may dictate media-specific contaminant levels (e.g., maximum contaminant levels (MCLs) in drinking

water) that must be achieved and may become a performance standard for the permittee.

VIII.A.2.c. Final Risk Goal Performance Standard

The final risk goal is the level of protection to be achieved and maintained by the permittee. The final risk goal shall be based on site-specific issues including land use, special subpopulations, contaminant concentrations based on acceptable risk, location at which the levels are measured, and the remediation time frame, as specified by RECAP.

One final risk goal may apply to the entire facility, but it is more likely that different releases will require different final risk goals due to variations in location of releases, land use, proximity of receptors, etc. The final risk goal will be based on sound risk assessment methodologies (Condition VIII.A.3).

VIII.A.3. Use of RECAP

The latest edition of the RECAP document shall be used by the permittee to determine the need for further corrective actions under this permit. The RECAP consists of a tiered framework comprised of a Screening Option (SO), and three Management Options (MO). The tiered management options allow site evaluation and corrective action efforts to be tailored to site conditions and risks. As the MO level increases, the approach becomes more site-specific and hence, the level of effort required to meet the objectives of the Option increases.

The RECAP shall be used by the permittee to evaluate data quality and data usability (RECAP Section 2.4 and 2.5), to determine the identity of an AOI as described in RECAP Section 2.6, and for estimations of Area of Investigation Concentrations and Groundwater Compliance Concentrations for each media as defined in RECAP Section 2.8.

The RECAP shall be used by the permittee to evaluate land use as described in RECAP Section 2.9, and groundwater/aquifer use as described in RECAP Section 2.10.

The RECAP shall be used by the permittee to prioritize AOCs, SWMUs, and AOIs that require remediation so site investigations are focused on the release areas that pose the greatest risk. As the CSM is compiled, the permittee shall assess historical data (RECAP Section 2.5) and use the following management options, as appropriate, to address each release site.

[Note: Condition VIII.A.3 need not be applied to corrective action activities that have already been completed to satisfaction of the administrative authority except when warranted by new information and/or data (not available to the Administrative Authority at the time it rendered decisions regarding the specific measures and/or activities) relevant to the previously-approved corrective action activities.]

VIII.A.3.a. Screening Option

The permittee shall use the Screening Standards (SS) which are LDEQ-derived screening numbers for soil and groundwater for non-industrial and industrial land use scenarios. The SS shall be used to demonstrate that an AOI does not pose a threat to human health and the environment and, hence does not require further action at this time (NFA-ATT) or that further evaluation is warranted under a higher Management Option.

VIII.A.3.b. Management Option 1

The permittee shall use Management Option 1 (MO-1) which provides a RECAP standard (RS) derived for non-industrial and industrial exposure scenarios using currently recommended default exposure parameters and toxicity values. Under MO-1, an AOI may warrant a NFA-ATT determination, or if an exposure, source, or compliance concentration detected at the AOI exceeds a MO-1 limiting RS, then the permittee may; (1) remediate to the MO-1 limiting RS (and comply with closure/post-closure requirements for MO-1), or (2) proceed with a MO-2 or MO-3 evaluation.

VIII.A.3.c. Management Option 2

The permittee shall use Management Option 2 (MO-2) which provides for the development of soil and groundwater RS using site-specific data with specified analytical models to evaluate constituent fate and transport at the AOI. The results of this evaluation shall be used in conjunction with standard reasonable maximum exposure (RME) assumptions to identify site-specific MO-2 RS. Under MO-2, an AOI may warrant a NFA-ATT determination, or if an exposure, source, or compliance concentration detected at the AOI exceeds a MO-2 limiting RS, then the permittee may; (1) remediate to the MO-2 limiting RS (and comply with closure/post-closure requirements for MO-2), or (2) proceed with a MO-3 evaluation.

VIII.A.3.d. Management Option 3

The permittee shall use Management Option 3 (MO-3) which provides the option of using site-specific data for the evaluation of exposure and the evaluation of environmental fate and transport at the AOI. The results of the site-specific evaluation may be to develop site-specific MO-3 RS. Under MO-3, an AOI may warrant a NFA-ATT determination, or if an exposure, source, or compliance concentration detected at the AOI exceeds a MO-3 limiting RS, then the permittee shall; (1) remediate to the MO-3 RS, (2) conduct confirmatory sampling, and (3) comply with closure/post-closure requirements for MO-3.

VIII.A.4. Corrective Action for Releases Beyond Facility Boundary

Section 3004(v) of RCRA as amended by HSWA, and State regulations promulgated as LAC 33:V.3322.C require corrective actions beyond the facility property boundary, where necessary to protect human health and the environment, unless the permittee demonstrates that, despite the permittee's best efforts, the permittee was unable to obtain the necessary permission to undertake such actions. The permittee is not relieved of all responsibility to clean up a release that has migrated beyond the facility boundary where offsite access is denied.

VIII.A.5. Financial Responsibility

Assurances of financial responsibility for corrective action shall be provided by the permittee as specified in this permit and LAC 33:V.Chapter 33 following major modification for remedy selection. The Administrative Authority reserves the right to require financial assurance prior to remedy selection based upon facility compliance history, the extent and degree of contamination, financial health of the permittee, and input from the public.

VIII.A.6. Summary of Corrective Action Activities

A summary of the corrective action activities associated with the facility is provided in Condition VIII, Appendix 1 of this permit. AOCs and SWMUs that are currently being managed or proposed for management under a prescribed corrective action program (e.g., groundwater order, corrective action order, CERCLA) are identified in Condition VIII, Appendix 1, Table 1 of this permit.

VIII.A.7. Approval of Alternate Schedule

The permittee may submit a written request for an alternate schedule for a submittal deadline as presented in Condition VIII, Table 1. The request should propose a specific alternate schedule and include an explanation as to why the alternate schedule is necessary. The Administrative Authority will consider site-specific criteria in either approving or disapproving the request for an alternate schedule.

VIII.B. PROJECT DEVELOPMENT AND SCOPING MEETING

VIII.B.1. Notice of Intent

The permittee must submit to the Administrative Authority a Notice of Intent to conduct corrective action using the CAS within sixty (60) days of confirmation that a newly identified SWMU or AOC exists (Condition VIII.L.2) if corrective action is deemed necessary by the Administrative Authority. The notice of intent should state the following in a concise manner:

VIII.B.1.a. General information regarding facility location;

VIII.B.1.b. General information regarding the facility's operational history;

VIII.B.1.c. General discussion on how the permittee will proceed through the CAS;

VIII.B.1.d. Brief description of proposed performance standards for corrective action; and

VIII.B.1.e. Propose a date for a scoping meeting between the permittee and the Administrative Authority to be held within sixty (60) days of the date of the Notice of Intent.

VIII.B.2. Scoping Meeting

The scoping meeting will serve as the first CAS milestone where the permittee and the Administrative Authority identify expectations concerning CAS implementation. The length and extent of the meeting will depend on the complexity of the site. Agreements on land use, groundwater classification, the level of detail required in the conceptual site model (see Condition VIII.D) and expectations for remediation goals will be discussed during the scoping meeting(s). During the scoping meeting the permittee will present the following information to the Administrative Authority:

VIII.B.2.a. A conceptual site model (if one already has been developed);

VIII.B.2.b. Discussions on history of corrective action at the facility, including facility investigations, risk evaluations or risk assessments, interim measure/stabilizations and final remedies implemented;

VIII.B.2.c. Proposed performance standards for the facility with justification, and potential risk management approaches;

VIII.B.2.d. Discussions on how the permittee plans to use the CAS to meet its corrective action obligations, including permitting and compliance issues;

VIII.B.2.e. A Communication Strategy Plan that specifies where in the CAS process the permittee is currently and how the permittee will provide information about future progress at the facility to the Administrative Authority (i.e., progress reports, conference calls, routine meetings, etc.);

VIII.B.2.f. Site-specific concerns (i.e., sensitive environments or special subpopulations);

VIII.B.2.g. Need for interim measures or stabilization activities, if necessary; and

VIII.B.2.h. Schedule for submittal of the CAS Investigation Work plan and proposed schedule for conducting and completing CAS requirements, including public participation.

Information plans and reports that have already been developed by the permittee during the corrective action process can be referenced during the scoping meeting. (Note: Both AOCs currently identified in this permit have undergone investigation, risk assessment, source work, and groundwater remediation and it is anticipated that many of these documents will be accepted by reference during the scoping meeting.) The permittee must coordinate with the Administrative Authority in order to determine the date, time, and location of the scoping meeting.

VIII.C. REPORTING REQUIREMENTS

VIII.C.1. The permittee shall submit, in accordance with Condition VII.A.8, signed reports of all activities conducted pursuant to the provisions of this Permit as required by the Administrative Authority. The reporting schedule shall be determined on a case-by-case basis by the Administrative Authority. These reports shall contain, as applicable to the stage of corrective action, the information required by CAS, as well as the following:

VIII.C.1.a. A description of the work completed and an estimate of the percentage of work completed;

VIII.C.1.b. Summaries of all findings, including summaries of laboratory data;

VIII.C.1.c. Summaries of all problems or potential problems encountered during the reporting period and actions taken to rectify problems;

VIII.C.1.d. Projected work for the next reporting period;

VIII.C.1.e. Summaries of contacts pertaining to corrective action or environmental matters with representatives of the local community, public interest groups or State government during the reporting period;

VIII.C.1.f. Changes in key project personnel during the reporting period; and

VIII.C.1.g. Summaries of all changes made in implementation during the reporting period.

VIII.C.2. Copies of other reports relating to or having bearing upon the corrective action work (e.g., inspection reports, drilling logs and laboratory data) shall be made available to the Administrative Authority upon request.

VIII.C.3. In addition to the written reports as required in Condition VIII.C.1 and VIII.C.2 above, at the request of the Administrative Authority, the permittee shall provide status review through briefings with the Administrative Authority.

VIII.C.4. The determination and approval of remedy selections, schedules of submittals and minor changes to any corrective action work plans may be made by the Administrative Authority during the scoping meeting or status review briefings as described in Condition VIII.C.3.

VIII.D. SPECIFIC CONDITION – CONCEPTUAL SITE MODEL (CSM)

No later than 120 days after the scoping meeting, the permittee shall submit to the Administrative Authority a CSM (along with the Performance Standards detailed in Condition VIII.A.2) or an update of the CSM already submitted for the AOC's and/corrective action initiated for the units listed in Appendix 1, at the scoping meeting providing background information and the current conditions at the facility. The level of detail required for the CSM will be discussed during the scoping meeting. At a minimum, the CSM must address current site conditions, land use, known and/or potential constituent source(s), routes of constituent migration, exposure media (i.e., soil, surface waters, groundwater), exposure points, points of compliance and pathways, receptors and source media to be evaluated under the RECAP. The CSM must include a completed Figure 8 (LAC 33:I.Chapter 13). The permittee may include completed investigations, existing data, or previously submitted documents in the CSM by reference. References must include the names, dates, and brief summaries of the documents.

If a CSM has been previously developed, the scoping meeting will also provide the opportunity for the permittee and Administrative Authority to consider and identify all data gaps in the CSM. The initial CSM shall be considered the "base document" to be prepared and updated by the facility as new information is gathered during investigations. The CSM shall be used by the facility to make decisions regarding risk management options, ecological risk, and monitored natural attenuation determinations (RECAP Section 2.16), or technical impracticability (TI) waiver determinations, when appropriate.

The Administrative Authority reserves the right to require revisions to the CSM based upon data resulting from ongoing investigations and activities. Revisions to the CSM may also be required for newly identified SWMUs or AOCs according to Condition VIII.L of this permit (See Appendix 1, Ongoing Corrective Action) and based on new information and information not previously considered by the Administrative Authority.

The CSM shall be divided into Profiles as detailed in Conditions VIII.D.1 through 6. If the permittee chooses to use existing data and documents in the CSM, it may not be necessary to prepare the Profiles as detailed in Conditions VIII.D.1 through 6. However, the existing documents and data must provide sufficient information and detail which corresponds to the information required by the Facility, Land Use and Exposure, Physical, Release, Ecological, and Risk Management Profiles.

VIII.D.1. Facility Profile

The permittee shall include in the CSM a Facility Profile which shall summarize the regional location, pertinent boundary features, general facility structures, process areas, and locations of solid waste management units or other potential sources of contaminant migration from the routine and systematic releases of hazardous constituents to the environment (e.g., truck or railcar loading/unloading areas). The permittee shall also include historical features that may be potential release areas because of past management practices. The Facility Profile shall include:

VIII.D.1.a. Map(s) and other documents depicting the following information (all maps shall be consistent with the requirements set forth in LAC 33:V Chapter 5 and be of sufficient detail and accuracy to locate and report all current site conditions):

VIII.D.1.a.(1) General geographic location;

VIII.D.1.a.(2) Property lines with the owners of all adjacent property clearly indicated;

VIII.D.1.a.(3) Facility structures, process areas and maintenance areas;

VIII.D.1.a.(4) Any other potential release areas shall be delineated, such as railcar loading/unloading areas or any other AOI as described in RECAP Section 2.6; and

VIII.D.1.a.(5) Locations of historical features that may be potential release areas or any areas of past solid and hazardous waste generation, treatment, storage or disposal activities.

VIII.D.1.b. The Facility Profile shall also include a description of ownership and operation of the facility.

VIII.D.1.c. The permittee shall provide pertinent information for those spills that have not been assessed and reported to the Administrative Authority during facility investigations, addressed by facility spill contingency plans, or previously remediated or deemed for no further action. The information must include at minimum, approximate dates or periods of past waste spills, identification of the materials spilled, the amount spilled, the location where spilled, and a description of the response actions conducted (local, state, federal, or private party response units), including any inspection reports or technical reports generated as a result of the response.

VIII.D.2. Land Use and Exposure Profile

The permittee shall include in the CSM a Land Use and Exposure Profile which includes surrounding land uses (industrial and non-industrial, as described in RECAP Sections 2.9.1 and 2.9.2), resource use locations (water supply wells, surface water intakes, etc.), beneficial resource determinations (groundwater classifications as described in RECAP Section 2.10), natural resources (wetlands, etc.), sensitive subpopulation types and locations (schools, hospitals, nursing homes, day care centers, etc.), applicable exposure scenarios, and applicable exposure pathways identifying the specific sources, releases, migration mechanisms, exposure media, exposure routes and receptors. The Land Use and Exposure Profile shall include:

VIII.D.2.a. Map(s) and other documents depicting the following information (all maps shall be consistent with the requirements set forth in LAC 33:V Chapter 5 and be of sufficient detail and accuracy to locate and report all current site conditions):

VIII.D.2.a.(1) Surrounding land uses, resource use locations, and natural resources/wetlands;

VIII.D.2.a.(2) Locations of sensitive subpopulations; and

VIII.D.2.a.(3) An exposure pathway flowchart which outlines sources, migration pathways, exposure media and potential receptors as depicted in Figure 8 (CMS example) of the RECAP.

VIII.D.3. Physical Profile

The permittee shall include in the CSM a Physical Profile which shall describe the factors that may affect releases, fate and transport, and receptors, including; topography, surface water features, geology, and hydrogeology. The Physical Profile shall include:

VIII.D.3.a. Map(s) and other documents depicting the following information (all maps shall be consistent with the requirements set forth in LAC 33:V.Chapter 5 and be of sufficient detail and accuracy to locate and report all current site conditions):

VIII.D.3.a.(1) Topographic maps with a contour interval of five (5) or ten (10) feet, a scale of one inch to 100 feet (1:100), including hills, gradients, and surface vegetation or pavement;

VIII.D.3.a.(2) Surface water features including routes of all drainage ditches, waterways, direction of flow, and how they migrate to other surface water bodies such as canals and lakes;

VIII.D.3.a.(3) Regional geology including faulting and recharge areas, as well as local geology depicting surface features such as soil types, outcrops, faulting, and other surface features;

VIII.D.3.a.(4) Subsurface geology including stratigraphy, continuity (locations of facies changes, if known), faulting and other characteristics;

VIII.D.3.a.(5) Maps with hydrogeologic information identifying water-bearing zones, hydrologic parameters such as transmissivity, and conductivity. Also locations and thicknesses of aquitards or impermeable strata; and

VIII.D.3.a.(6) Locations of soil borings and production and groundwater monitoring wells, including well log information, and construction of cross-sections which correlate substrata. Wells shall be clearly labeled with ground and top of casing elevations (can be applied as an attachment).

VIII.D.4. Release Profile

The permittee shall include in the CSM a Release Profile which shall describe the known extent of contaminants in the environment, including sources, contaminants of concern (COC), areas of investigations, distribution and magnitude of known COCs with corresponding sampling locations, and results of fate and transport modeling depicting potential future extent/magnitude of COCs. The Release Profile shall include:

VIII.D.4.a. Map(s) and other documents depicting the following information (all maps shall be consistent with the requirements set forth in LAC 33:V. Chapter 5 and be of sufficient detail and accuracy to locate and report all current site conditions):

VIII.D.4.a.(1) Estimations of source concentrations, exposure concentrations and compliance concentrations for each affected media as defined in Section 2.8 of RECAP;

VIII.D.4.a.(2) Isopleth maps depicting lateral extent and concentrations of COCs;

VIII.D.4.a.(3) Results of fate and transport modeling showing potential exposure concentrations and locations; and

VIII.D.4.a.(4) Locations of potential sources including past or present waste units or disposal areas and all SWMUs/AOCs.

VIII.D.4.b. Table(s) depicting the following information for each SWMU/AOC, including but not limited to: location; type of unit/disposal/release area; design features; operating practices (past and present); period of operation; age of unit/disposal/release area; general physical condition; and method of closure.

VIII.D.4.c. Table(s) depicting the following waste/contaminant characteristics for those areas referenced in Condition VIII.D.4.b, including but not limited to: type of waste placed in the unit (hazardous classification, quantity, chemical composition), physical and chemical characteristics (physical form, description, temperature, pH, general chemical class, molecular weight, density, boiling point, viscosity, solubility in water, solubility in solvents, cohesiveness, vapor pressure); and migration and dispersal characteristics of the waste (sorption coefficients, biodegradability, photo degradation rates, hydrolysis rates, chemical transformations).

VIII.D.5. Ecological Profile

The permittee shall include in the CSM an Ecological Profile that shall describe the physical relationship between the developed and undeveloped portions of the facility, the use and level of disturbance of the undeveloped property, and the type of ecological receptors present in relation to completed exposure pathways. When compiling data for the Ecological Profile, current, as well as, future impacts to receptors and/or their habitats shall be considered. The Ecological Profile shall include:

VIII.D.5.a. A history and description of the developed property on the facility, including structures, process areas, waste management units, and property boundaries;

VIII.D.5.b. A history and description of the undeveloped property, including habitat type (wetland, grassy area, forest, ponds, etc.). Include a description of the primary use, degree and nature of any disturbance, along with proximity to drainage ditches, waterways and landfill areas;

VIII.D.5.c. A description of the site receptors in relation to habitat type, including endangered or protected species, mammals, birds, fish, etc.;

VIII.D.5.d. A description of the relationship between release areas and habitat areas, specifically relating chemicals of potential ecological concern (COEC) to ecological receptors;

VIII.D.5.e. An ecological checklist as described in Section 7.0 of RECAP. An ecological checklist (presented in Appendix C, Form 18 of the RECAP) shall be used to determine if a tier 1 (screening level) Ecological Risk Assessment (ERA) is warranted.

VIII.D.6. Risk Management Profile

The permittee shall include in the CSM a Risk Management Profile that shall describe how each AOI at the facility will be managed for the protection of human health and the environment. The Risk Management Profile will serve as documentation of the results of the site ranking system (described in Section 2.2 of RECAP). The Risk Management Profile will also document the criteria and verify that the SO, MO-1, MO-2 or MO-3 is appropriate for application at each AOI. The Risk Management Profile shall include:

VIII.D.6.a. A table for tracking the management options for each AOI, and the determination made, whether an AOI is deemed for no further action at this time (NFA-ATT) or is going to use either the SO, MO-1, MO-2 or MO-3 management option.

VIII.D.6.b. A list of identified site-wide data gaps for further investigation.

VIII.D.6.c. Documentation of all interim measures which have been or are being undertaken at the facility, including under State or Federal compliance orders, other than those specified in the Permit. This documentation shall include the objectives of the interim measures and how the measure is mitigating a potential threat to human health or the environment and/or is consistent with and integrated into requirements for a long term remedial solution.

VIII.E. INTERIM MEASURES

VIII.E.1. If at any time during the term of this Permit, the Administrative Authority determines that a release or potential release of hazardous constituents from a SWMU/AOC poses a threat to human health and the environment, the Administrative Authority may require interim measures. The Administrative Authority shall determine the specific measure(s) or require the permittee to propose a measure(s). The interim measure(s) may include a permit modification, a schedule for implementation, and an Interim Measures Work plan. The Administrative Authority may modify this Permit according to LAC 33:V.321 to incorporate interim measures into the Permit. However, depending upon the nature of the interim measures, a permit modification may not be required.

VIII.E.2. The permittee may propose interim measures at any time by submittal of an Interim Measures Work plan subject to the approval of the Administrative Authority.

VIII.E.3. The Administrative Authority shall notify the permittee in writing of the requirement to perform interim measures and may require the submittal of an Interim Measures Work plan. For agency initiated permit changes, La R.S. 3023.B.(2) requires that the permittee be given notice and an opportunity for a hearing, prior to modifying a permit or permit conditions for cause. The following factors will be

considered by the Administrative Authority in determining the need for interim measures and the need for permit modification:

VIII.E.3.a. Time required to develop and implement a final remedy;

VIII.E.3.b. Actual and potential exposure to human and environmental receptors;

VIII.E.3.c. Actual and potential contamination of drinking water supplies and sensitive ecosystems;

VIII.E.3.d. The potential for further degradation of the medium in the absence of interim measures;

VIII.E.3.e. Presence of hazardous wastes in containers that may pose a threat of release;

VIII.E.3.f. Presence and concentration of hazardous waste including hazardous constituents in soil that has the potential to migrate to ground water or surface water;

VIII.E.3.g. Weather conditions that may affect the current levels of contamination;

VIII.E.3.h. Risks of fire, explosion, or accident; and

VIII.E.3.i. Other situations that may pose threats to human health and the environment.

VIII.E.5. Upon approval of the Interim Measures Work plan and completion of the interim measure(s) implementation, the permittee will submit a report to the Administrative Authority describing the completed work.

VIII.E.6. At any time during or after the interim measure(s), including the issuance of an NFA-ATT, the Administrative Authority may require the permittee to submit the SWMUs/AOCs for further corrective action.

VIII.F. CAS (CORRECTIVE ACTION STRATEGY) INVESTIGATION WORKPLAN

VIII.F.1. The CAS Investigation Work plan that describes site investigation activities for corrective action shall be submitted to the Administrative Authority within 180 days after the scoping meeting between the permittee and the Administrative Authority. The CAS Investigation Work plan must address releases of hazardous waste or hazardous constituents to all media, unless otherwise indicated, for those SWMUs/AOCs listed in Appendix 1, Table 1. The focus of the site investigation phase for corrective action is to collect data to fill in data gaps identified in the CSM.

The corrective action investigations may be conducted in phases if warranted by site conditions, contingent upon approval by the Administrative Authority.

[Note: Condition VIII.F need not be applied to corrective action activities that have already been completed to the satisfaction of the administrative authority except when warranted by new information and/or data (not available to the Administrative Authority at the time it rendered decisions regarding the specific measures and/or activities) relevant to the previously-approved corrective action activities.]

VIII.F.1.a. The CAS Investigation Work plan shall describe the management options (MO) for each AOI/release area, data quality objectives for achieving each management option, and proposals for release characterizations (sampling and analysis/quality assurance plans) to support the data quality objectives (DQOs). (DQOs are determined based on the end use of the data to be collected, and the DQO development process should be integrated into project planning and refined throughout the CAS implementation. DQOs shall be used to 1) ensure that environmental data are scientifically valid, defensible, and of an appropriate level of quality given the intended use, and 2) expedite site investigations. The CAS Investigation Work plan is required to have DQOs that are developed to support the performance standard for each release.) The CAS Investigation Work plan shall detail all proposed activities and procedures to be conducted at the facility, the schedule for implementing and completing such investigations, the qualifications of personnel performing or directing the investigations, including contractor personnel, and the overall management of the site investigations. The scope of work for the site investigation can be found in RECAP Appendix B.

VIII.F.1.b. The CAS Investigation Work plan shall describe sampling, data collection quality assurance, data management procedures (including formats for documenting and tracking data and other results of investigations) and health and safety procedures.

VIII.F.1.c. Development of the CAS Investigation Work plan and reporting of data shall be consistent with the latest version of the following EPA and State guidance documents or the equivalent thereof:

VIII.F.1.c.(1) Guidance for the Data Quality Assessment, Practical Methods for Data Analysis. QA97 Version EPA QA/G-9. January 1998;

VIII.F.1.c.(2) Guidance for the Data Quality Objectives Process. EPA QA/G-4. September 1994;

VIII.F.1.c.(3) Data Quality Objectives Remedial Response Activities. EPA/540/G87-003. March 1987;

VIII.F.1.c.(4) Guidance on Quality Assurance Project Plans. EPA QA/G-5. February 1998;

VIII.F.1.c.(5) Interim EPA Data Requirements for Quality Assurance Project Plans. EPA Region 6, Office of Quality Assurance. May 1994;

VIII.F.1.c.(6) 29 CFR 1910.120 (b) for the elements to Health and Safety plans;

VIII.F.1.c.(7) RCRA Groundwater Monitoring: Draft Technical Guidance EPA/530-R-93-001 November 1992;

VIII.F.1.c.(8) Test Methods for Evaluating Solid Waste, Physical/Chemical Methods; SW-846, 3rd Edition. November 1992, with revisions;

VIII.F.1.c.(9) The LDEQ Handbook - **Construction of Geotechnical Boreholes and Groundwater Monitoring Systems," prepared by the LDEQ and the Louisiana Department of Transportation and Development dated May 2000, or most current version.** This document is printed by and available from the Louisiana Department of Transportation and Development, Water Resources Section, P. O. Box 94245, Baton Rouge, Louisiana 70804-9245; and

VIII.F.1.c.(10) The LAC 33:I.Chapter 13 and Louisiana Department of Environmental Quality Risk Evaluation/Corrective Action Program (RECAP), dated October 20, 2003, or most current version.

VIII.F.2. After the permittee submits the CAS Investigation Work plan; the Administrative Authority will approve, disapprove, or otherwise modify the CAS Investigation Work plan in writing. All approved work plans become enforceable components of this Permit.

In event of disapproval (in whole or in part) of the work plan, the Administrative Authority shall specify deficiencies in writing. The permittee shall modify the CAS Investigation Work plan to correct any deficiencies within the time frame specified in the notification of disapproval by the Administrative Authority. The modified work plan shall be submitted in writing to the Administrative Authority for review. Should the permittee take exception to all or part of the disapproval, the permittee shall submit a written statement of the ground for the exception within fourteen (14) days of receipt of the disapproval.

VIII.F.3. The Administrative Authority shall review for approval, as part of the CAS Investigation Work plan or as a new work plan, any plans developed pursuant to Condition VIII.L addressing further investigations of newly-identified SWMUs/AOCs, or Condition VIII.M addressing new releases from previously-identified SWMUs/AOCs.

VIII.G. IMPLEMENTATION OF SITE INVESTIGATION ACTIVITIES UNDER CAS

No later than fourteen (14) days after the permittee has received written approval from the Administrative Authority for the CAS Investigation Work plan, the permittee shall implement the site investigation activities according to the schedules and in accordance with the approved CAS Investigation Work plan and the following:

VIII.G.1. The permittee shall notify the Administrative Authority at least 10 working days prior to any field sampling, field-testing, or field monitoring activity required by this Permit to give LDEQ personnel the opportunity to observe investigation procedures and/or split samples.

VIII.G.2. Deviations from the approved CAS Investigation work plan, which may become necessary during implementation (such as field work), should if possible, be approved by the Administrative Authority prior to the necessary adjustment. Any deviations from the work plan must be fully documented and described in the progress reports (Condition VIII.C), RECAP Report (Condition VIII.H) and the final Risk Management Plan (Condition VIII.J).

VIII.H. RECAP REPORT

Within ninety (90) days after completion of the site investigation the permittee shall submit a RECAP Report to the Administrative Authority for approval. The RECAP Report shall document the results of the site investigation activities, and the evaluation of the impacts from releases. The Administrative Authority will review and evaluate the report and provide the permittee with written notification of the report's approval or a notice of deficiency. If the Administrative Authority determines the RECAP Report does not fully meet the objectives stated in the CAS Investigation Work plan (Permit Condition VIII.F), the Administrative Authority shall notify the permittee in writing of the report's deficiencies, and specify a due date for submittal of a revised Final Report to the Administrative Authority.

VIII.H.1. The permittee shall screen site-specific data using the appropriate RECAP standard (RS) for each AOI (depending on the MO), evaluate impacts from releases with exposure scenario evaluations, and update the Risk Management Profile of the CSM.

VIII.H.2. The report shall include, but not be limited to, the following:

VIII.H.2.a. Documentation of site investigation activities and results;

VIII.H.2.b. Evaluation of exposure scenarios to document impacts from releases;

VIII.H.2.c. Deviations from the CAS Investigation Work plan;

VIII.H.2.d. Results of screening activities using RECAP standards (RS), including SO, MO-1, MO-2, or MO-3 RS for each media;

VIII.H.2.e. The revised CSM with updated profiles which incorporate investigation and screening results; and

VIII.H.2.f. Proposed revisions to performance standards based on new information (e.g., change in land use, difference in expected receptors and/or exposure, or other differences in site conditions), if warranted.

VIII.I. REMEDIAL ALTERNATIVES STUDY

Upon completion and approval of the RECAP Report, the permittee shall proceed with the evaluation of remedial alternatives to complete corrective action for each AOI according to the performance standards described in Condition VIII.A.2. The remedial alternatives shall be submitted to the Administrative Authority in the Remedial Alternatives Study (RAS) within ninety (90) days of the Administrative Authority's approval of the RECAP Report. In the Remedial Alternatives Study, the permittee shall identify and evaluate various potential remedies that would meet the performance-based corrective action objectives and propose one or more specific remedies based on an evaluation of applicable data and available corrective action technologies. The RAS shall be prepared in a manner that addresses the extent and nature of the contamination at the facility.

VIII.I.1. The permittee shall evaluate remedies for each AOI that shall:

VIII.I.1.a. attain compliance with corrective action objectives for releases of hazardous waste and/or hazardous constituents, as established in the Conceptual Site Model or in later investigations approved by the Administrative Authority;

VIII.I.1.b. control sources of releases;

VIII.I.1.c. meet acceptable waste management requirements;

VIII.I.1.d. protect human health and the environment; and

VIII.I.1.e. meet applicable statutory and regulatory requirements (as noted in Condition VIII.A.2.b).

VIII.I.2. The permittee shall evaluate the use of presumptive remedies and innovative technologies to achieve the appropriate remedial performance standards for each AOI.

VIII.I.3. The permittee shall review the current interim measures/ stabilization activities to evaluate if these measures meet all the criteria for final remedy.

VIII.I.4. If under certain site-specific conditions, or when it is not technically or economically feasible to attain the corrective action objectives, the permittee may propose to use institutional controls to supplement treatment or containment-based

remedial actions. Institutional controls must be approved by the Administrative Authority (Section 2.15 of RECAP).

VIII.I.5. The RAS shall at a minimum include:

VIII.I.5.a. An evaluation of the performance reliability, ease of implementation, and the potential impacts of the potential remedies;

VIII.I.5.b. An assessment of the effectiveness of potential remedies in achieving adequate control of sources and meeting remedial performance standards;

VIII.I.5.d. An assessment of the costs of implementation for potential remedies;

VIII.I.5.e. An assessment of the time required to begin and complete the remedy;

VIII.I.5.f. An explanation of the rationale for the remedy proposed for each AOI or group of AOIs; and

VIII.I.5.g. An assessment of institutional requirements (e.g., state permit requirements that may impact remedy implementation).

VIII.I.6. The Administrative Authority will review and evaluate the RAS and provide the permittee with written notification of the study's approval or a notice of deficiency. If the Administrative Authority determines the RAS does not fully meet the requirements detailed in Conditions VIII.I.1 through VIII.I.5, the Administrative Authority shall notify the permittee in writing of the RAS's deficiencies, and specify a due date for submittal of a revised RAS to the Administrative Authority. In addition, the Administrative Authority may require the permittee to evaluate additional remedies or particular elements of one or more proposed remedies.

VIII.J. RISK MANAGEMENT PLAN

Within ninety (90) days of the Administrative Authority's approval of the RAS, the remedy/remedies proposed for selection shall be documented and submitted in the Risk Management Plan. The permittee shall propose corrective action remedies in accordance with Chapter IV of the RCRA Corrective Action Plan (Final), May 1994, OSWER Directive 9902.3-2A or as directed by the Administrative Authority.

VIII.J.1. The Risk Management Plan shall at a minimum include:

VIII.J.1.a. A summary of the remedial alternatives for each AOI and the rationale used for remedy selection;

VIII.J.1.b. The final CSM with proposed remedies, including locations of AOIs addressed by a risk management activity, COC concentrations that represent the long-term fate and transport of residual COCs and the exposure pathways affected by the risk management activity;

VIII.J.1.c. Cost estimates and implementation schedules for proposed final remedies;

VIII.J.1.d. Proposed remedy design and implementation precautions, including special technical problems, additional engineering data required, permits and regulatory requirements, property access, easements and right-of-way requirements, special health and safety requirements, and community relations activities;

VIII.J.1.e. Remedy performance criteria and monitoring:

The permittee shall identify specific criteria (such as land use changes, fate and transport model verification and constructed remedy performance) that will be evaluated to demonstrate that the risk management activity implemented will remain protective. A schedule for periodic performance review (such as monitoring data summaries, including graphical and statistical analyses) shall be established to demonstrate that the implemented activities are consistently achieving and maintaining desired results. Further, a mechanism shall be established to re-evaluate risk management activities in the event the implemented action does not achieve and maintain the performance standards;

VIII.J.1.f. Contingency plans; and

VIII.J.1.g. Description and schedules for performance reviews.

VIII.J.2. After the permittee submits the Risk Management Plan, the Administrative Authority will review and evaluate the plan and subsequently either inform the permittee in writing that the plan is acceptable for public review or issue a notice of deficiency.

VIII.J.3. If the Administrative Authority determines the Risk Management Plan does not fully meet the remedial objectives, the Administrative Authority shall notify the permittee in writing of the plan's deficiencies and specify a due date for submittal of a revised Final Risk Management Plan. In addition, the Administrative Authority may require the permittee to evaluate additional remedies or particular elements of one or more proposed remedies.

VIII.J.4. After the Administrative Authority has determined the Risk Management Plan is acceptable for public review, the Administrative Authority shall inform the permittee in writing and instruct the permittee to submit the plan as a Class 3 permit modification request in accordance with the requirements of LAC 33:V.321.C.3.

VIII.J.5. After conclusion of a 60-day comment period, the Administrative Authority will either grant or deny the Class 3 permit modification request. In addition the Administrative Authority must consider and respond to all significant comments received during the 60-day comment period.

VIII.J.6. If the Class 3 Modification request is granted, the Administrative Authority shall prepare a draft permit incorporating the proposed changes in accordance with LAC 33:V.703.C and solicit public comment on the draft permit modification according to Condition VIII.N.3 of this permit.

VIII.J.7. If, after considering all public comments, the Administrative Authority determines that the Risk Management Plan is adequate and complete, the Administrative Authority will issue a public notice for final approval the Class 3 permit modification. The resultant modified permit will include schedules for remedy implementation as well as financial assurance provisions as required by Condition VIII.A.5 of this permit.

VIII.K. DETERMINATION OF NO FURTHER ACTION

VIII.K.1. NFA-ATT DETERMINATIONS FOR SPECIFIC SWMUs/AOCs

VIII.K.1.a. Based on the results of the site investigations, screening, risk evaluations and risk management activities, the permittee may request a NFA-ATT determination for a specific SWMU/AOC by submittal of a Class 1[1] permit modification ([1] requiring Administrative Authority approval) request under LAC 33:V.321.C.1. The NFA-ATT request must contain information demonstrating that there are no releases of hazardous constituents from a particular SWMU/AOC that pose a threat to human health and/or the environment.

The basis for the determination of NFA-ATT shall follow the guidelines as described in the RECAP (Section 1.2.1 of RECAP) for each AOI, depending on the MO used.

VIII.K.1.b. If, based upon review of the permittee's request for a permit modification, the results of the site investigations, and other information the Administrative Authority determines that releases or suspected releases from an individual SWMU/AOC which were investigated either are non-existent or do not pose a threat to human health and/or the environment, the Administrative Authority may grant the requested modification.

VIII.K.1.c. In accordance with LAC 33:V.321.C.1.a.ii, the permittee must notify the facility mailing list within ninety (90) days of the Administrative Authority's approval of the Class 1[1] permit modification ([1] requiring Administrative Authority approval) request.

VIII.K.2. FACILITY-WIDE NFA-ATT DETERMINATION

VIII.K.2.a. Upon the completion of all activities specified in the Risk Management Plan and after all SWMUs and AOCs at the facility have been remediated according to the standards dictated by the selected RECAP MO, the permittee shall submit a summary report supporting a determination of NFA-ATT on a facility-wide basis.

VIII.K.2.b. The summary report must include a historical narrative for each SWMU/AOC at the site that includes a summary of the investigation, sampling & analysis, remedial, and confirmatory sampling activities leading to the NFA-ATT request. The basis for the determination of NFA-ATT shall follow the guidelines as described in the RECAP (Section 1.2.1 of RECAP) for each AOI, depending on the MO used. The facility-wide NFA-ATT determination must consider any newly-identified SWMUs/AOCs discovered after submittal of the Risk Management Plan.

VIII.K.2.c. The Administrative Authority will review and evaluate the summary report and subsequently either inform the permittee in writing that the report is acceptable for public review or issue a notice of deficiency.

VIII.K.2.d. If the Administrative Authority determines the summary report does not fully demonstrate that all remedial objectives have been satisfied, the Administrative Authority shall notify the permittee in writing of the summary report's deficiencies and specify a due date for submittal of a revised summary report.

VIII.K.2.e. After the Administrative Authority has determined the facility-wide NFA-ATT summary report is acceptable for public review, the Administrative Authority shall inform the permittee in writing and instruct the permittee to submit the summary report as a Class 3 permit modification request in accordance with the requirements of LAC 33:V.321.C.3.

VIII.K.2.f. After conclusion of a 60-day comment period, the Administrative Authority will either grant or deny the Class 3 permit modification request. In addition the Administrative Authority must consider and respond to all significant comments received during the 60-day comment period.

VIII.K.2.g. If, based upon review of the permittee's Class 3 permit modification request, the results of the site investigations, confirmatory sampling, and other pertinent information, the Administrative Authority determines that all SWMUs and AOCs have been remediated to the selected MO and no further action at the facility is warranted, the Administrative Authority will grant the modification request.

VIII.K.2.h. If the Class 3 Modification request is granted, the Administrative Authority shall prepare a draft permit incorporating the proposed changes in

accordance with LAC 33:V.703.C and solicit public comment on the draft permit modification according to Condition VIII.N.4 of this permit.

VIII.K.2.i. If, after considering all public comments, the Administrative Authority determines that all activities specified in the Risk Management Plan have been completed and that all SWMUs and AOCs have been remediated to the selected MO, the Class 3 permit modification for facility-wide NFA-ATT will receive final approval. The CAS permit conditions will remain a part of the modified permit in the event that the remedial actions taken fail to maintain the established performance standard and to address any SWMUs/AOCs discovered at a later date.

VIII.K.3. CONTINUED MONITORING

If necessary to protect human health and/or the environment, a determination of NFA-ATT shall not preclude the Administrative Authority from requiring continued monitoring of air, soil, groundwater, or surface water, when site-specific circumstances indicate that releases of hazardous waste or hazardous constituents are likely to occur.

VIII.K.4. ADDITIONAL INVESTIGATIONS

A determination of NFA-ATT shall not preclude the Administrative Authority from requiring further investigations, studies, or remediation at a later date, if new information or subsequent analysis indicates a release or likelihood of a release from a SWMU/AOC at the facility that is likely to pose a threat to human health and/or the environment. In such a case, the Administrative Authority shall initiate a modification to the Permit according to LAC 33:V.321.

VIII.L. NOTIFICATION REQUIREMENTS FOR AND ASSESSMENT OF NEWLY-IDENTIFIED SWMUs AND POTENTIAL AOCs

VIII.L.1. The permittee shall notify the Administrative Authority, in writing, of any newly identified SWMUs and potential AOCs (i.e., a unit or area not specifically identified during previous corrective action assessments, RFA, etc.), discovered in the course of ground water monitoring, field investigations, environmental audits, or other means, no later than thirty (30) days after discovery. The permittee shall also notify the Administrative Authority of any newly-constructed land-based SWMUs (including but not limited to, surface impoundments, waste piles, landfills, land treatment units) and newly-constructed SWMUs where any release of hazardous constituents may be difficult to identify (e.g., underground storage tanks) no later than thirty (30) days after construction. The notification shall include the following items, to the extent available:

VIII.L.1.a. The location of the newly-identified SWMU or potential AOC on the topographic map required under LAC 33:V.517.B. Indicate all existing units (in relation to other SWMUs/AOCs);

VIII.L.1.b. The type and function of the unit;

VIII.L.1.c. The general dimensions, capacities, and structural description of the unit (supply any available drawings);

VIII.L.1.d. The period during which the unit was operated;

VIII.L.1.e. The specifics, to the extent available, on all wastes that have been or are being managed at the SWMU or potential AOC; and

VIII.L.1.f. Results of any sampling and analysis required for the purpose of determining whether releases of hazardous waste including hazardous constituents have occurred, are occurring, or are likely to occur from the SWMU/AOC.

VIII.L.2. Based on the information provided in the notification, the Administrative Authority will determine whether or not the area is a newly-identified SWMU or AOC. If the area is determined to be a newly-identified SWMU or AOC, the Administrative Authority will inform the permittee in writing and request that the permittee submit a Class 1[1] permit modification (1[1] requiring Administrative Authority approval) request under LAC 33:V.321.C.1 to add the newly-identified SWMU/AOC to Appendix 1, Table 1 of this permit.

Further, the Administrative Authority will determine the need for further investigations or corrective measures at any newly identified SWMU or AOC. If the Administrative Authority determines that such investigations are needed, the Administrative Authority may require the permittee to prepare a plan for such investigations. The plan for investigation of SWMU or AOC will be reviewed for approval as part of the current CAS Investigation Work plan or a new CAS Investigation Work plan. The results of the investigation of any newly-discovered SWMU/AOC shall be incorporated into the CSM.

VIII.M. NOTIFICATION REQUIREMENTS FOR NEWLY-DISCOVERED RELEASES AT A SWMU OR AOC

The permittee shall notify the Administrative Authority of any release(s) from a SWMU or AOC of hazardous waste or hazardous constituents discovered during the course of ground water monitoring, field investigation, environmental auditing, or other means. The notification must be in accordance with the procedures specified in Conditions II.E.16 through II.E.20 of this permit and based upon the nature, extent, and severity of the release. Such newly discovered releases may be from newly identified SWMUs or AOCs, newly-constructed SWMUs, or from SWMUs or AOCs for which, based on the findings of the CSM, completed RECAP Report, or investigation of an AOC, the Administrative Authority had previously determined no further investigation was necessary. The notification shall include information concerning actual and/or potential impacts beyond the facility boundary and on human health and the environment, if available at the time of the notification.

The Administrative Authority may require further investigation and/or interim measures for the newly identified release(s), and may require the permittee to prepare a plan for the investigation and/or interim measure. The plan will be reviewed for approval as part of the CAS Investigation Work plan or a new CAS Investigation Work plan. The Permit will be modified to incorporate the investigation, according to the Class 1[1] permit modification ([1] requiring Administrative Authority approval) procedures under LAC 33:V.321. The results of the investigation of any newly-identified release(s) shall be incorporated into the CSM.

VIII.N. PUBLIC PARTICIPATION REQUIREMENTS

Public participation is an essential element in the implementation of any corrective action program at the facility. The CAS promotes the early and continued involvement of stakeholders in site remediation activity during permit issuance, renewal, or modification. The public is invited to review and comment on the corrective action requirements contained in any draft permitting decisions or draft permit modification documents and the associated plans and reports submitted by the permittee. The Administrative Authority reserves the right to require more extensive public participation requirements based upon site-specific conditions and other relevant factors (e.g., compliance history, potential offsite impact, community interest, etc.). At a minimum, the public participation requirements shall include the following.

VIII.N.1. NFA-ATT Determinations for Specific SWMUs/AOCs

Based on the results of the site investigations, screening, risk evaluations and risk management activities, the permittee may request a NFA-ATT determination for a specific SWMU/AOC by submittal of a Class 1[1] permit modification request ([1] requiring Administrative Authority approval) under LAC 33:V.321.C.1. The permittee must notify the facility mailing list within 90 days of the Administrative Authority's approval of the Class 1[1] permit modification request, in accordance with LAC 33:V.321.C.1.a.ii and Condition VIII.K.1.c of this permit.

VIII.N.2. Draft Permitting Decision

The public may review and comment on the terms and conditions of the CAS during the public notice and comment period of the draft permitting decision. The Administrative Authority shall issue public notice upon preparation of the draft permitting decision in accordance with LAC 33:V.715. During the forty-five (45) day public comment period, the Administrative Authority will accept public comments on the draft permitting decision. At the end of the public comment period, the Administrative Authority will consider and address all public comments and make any necessary revisions to the draft permitting decision. After addressing all public comments, the Administrative Authority will issue a public notice for issuance of the final permitting decision. The final permitting decision will include a "Responsiveness Summary" detailing all comments received on the draft permitting decision and the actions taken (if necessary) to correct the draft before issuance of the final permitting decision.

VIII.N.3. Final Remedy Selection

The public may review and comment on the terms and conditions of the Risk Management Plan as described in Conditions VIII.J.4 through VIII.J.7 of this permit. If after addressing all public comments the Administrative Authority determines that the Risk Management Plan is satisfactory, the Administrative Authority will prepare a draft permit modification document in accordance with LAC 33:V.703.C.

The draft permit modification document will include a "Basis of Decision". The "Basis of Decision" will identify the proposed remedy for corrective action at the site and the reasons for its selection, describe all other remedies that were considered, and solicit for public review and comments on the Risk Management Plan included in the draft permit modification document.

After addressing all public comments, the Administrative Authority will issue a public notice for issuance of the final permit modification. The final permit modification will include a "Responsiveness Summary" detailing all comments received on the draft permit modification and the actions taken (if necessary) to correct the draft before issuance of the final permit modification.

VIII.N.4. Facility-Wide NFA-ATT

Upon the completion of all activities specified in the Risk Management Plan and after all facility remedial objectives have been met, the permittee may submit a summary report for a determination of NFA-ATT on a facility-wide basis in accordance with Condition VIII.K.2 of this permit. The public may review and comment on the summary report as described in Condition VIII.K.2.b. If after addressing all public comments the Administrative Authority determines that all SWMUs and AOCs have been remediated to the selected MO and no further action at the facility is warranted, the Administrative Authority will prepare a draft permit modification document in accordance with LAC 33:V.703.C.

The draft permit modification document will include a "Basis of Decision". The "Basis of Decision" will provide a summary detailing contamination sources, site investigations, the MO selected for the facility, facility remedial standards, remedial actions, and sampling results demonstrating that the facility remedial standards have been achieved.

After addressing all public comments, the Administrative Authority will issue a public notice for issuance of the final permit modification. The final permit modification will include a "Responsiveness Summary" detailing all comments received on the draft permit modification and the actions taken (if necessary) to correct the draft before issuance of the final permit modification.

VIII.O. DISPUTE RESOLUTION

The Permittee must follow the procedures detailed in Conditions VIII.O.1 through VIII.O.6 below to dispute a judgment by or requirement from the Administrative Authority regarding the corrective action requirements of this permit. For purposes of dispute resolution, the Administrative Authority is the Assistant Secretary of LDEQ's Office of Environmental Services. Such actions that may be disputed include, but are not limited to: the requirements under Conditions VIII.L and M; implementation of work plans; approval of documents; scheduling of any work; or selection, performance, or completion of any corrective action. The Permittee's failure to follow the procedures set forth in Condition VIII.O will constitute a waiver of its right to further consider the dispute.

VIII.O.1. The parties (i.e., the LDEQ and the Permittee) shall use their best efforts to informally and in good faith resolve all disputes or differences of opinion. If, however, disputes arise concerning the corrective action which the parties are unable to resolve informally, the following procedures shall apply. If the Permittee disputes its ability to meet a specific deadline or directive, then the Permittee is obligated to advise the Administrative Authority of the issue at least 14 days in writing in advance of the deadline.

VIII.O.2. The Administrative Authority shall provide the Permittee written notice of its disapproval or modification within 30 days. The written notice of disapproval or modification shall set forth the reasons for the disapproval or modification.

VIII.O.3. If the Permittee disagrees, in whole or in part, with any such written notice, the Permittee shall notify the Assistant Secretary of LDEQ's Office of Environmental Services, in writing, within 14 days of receipt of the written notice.

VIII.O.4. The Permittee and the pertinent LDEQ staff shall use their best efforts to informally and in good faith resolve the dispute. Accordingly, the Permittee is entitled to meet with LDEQ staff in person at the Administrative Authority's office or by teleconference, if it so desires, in order to resolve the dispute.

VIII.O.5. If the Permittee and the LDEQ staff are unable to resolve the dispute, the Permittee may make a written request for a final decision by the Administrative Authority. The written statement should include, at a minimum, the specific points of dispute, the position the Permittee maintains should be adopted as consistent with the Permit requirements and the basis therefore, any matters which it considers necessary for proper determination of the dispute, and whether the Permittee requests an informal conference in front of the Administrative Authority.

VIII.O.6. Subsequently, the Administrative Authority will issue a final decision within 30 days of the request.

Table 1: Corrective Action Strategy Notification and Reporting Requirements

Below is a summary of the major notifications and reports that may be required by the Administrative Authority under the Corrective Action Strategy of this permit in the event of releases requiring RCRA corrective action. The Administrative Authority will notify the permittee of the notification and reporting requirements during the scoping meeting or another applicable stage of the corrective action process. Confirmed AOCs will be listed Appendix 1. Applicable actions listed in the table below will be determined during the CAS Scoping Meeting.

ACTION	DUE DATE
Submit Notice of Intent to request use of the CAS to the Administrative Authority for review and comment (Condition VIII.B.1)	Within sixty (60) days of the confirmation that a newly identified SWMU or AOC exists (Condition VIII.L.2) if corrective action is deemed necessary by the Administrative Authority.
CAS Scoping Meeting held between facility and Administrative Authority (Condition VIII.B.2)	Within sixty (60) days of submittal of the Notice of Intent
Submit Progress Reports on all activities to the Administrative Authority (Condition VIII.C.1)	Schedule to be determined by the Administrative Authority on a case-by-case basis
Make available other reports relating to corrective action to the Administrative Authority (Condition VIII.C.2)	Upon request of the Administrative Authority
Provide briefings to the Administrative Authority (Condition VIII.C.3)	As necessary and upon request by the Administrative Authority
Submit Conceptual Site Model (CSM) (Condition VIII.D) and facility Performance Standards (Condition VIII.A.2) to the Administrative Authority	Within one-hundred and twenty (120) days after the scoping meeting
Perform Interim Measures (Condition VIII.E)	As determined by the Administrative Authority on a case by case basis
Submit Corrective Action Strategy (CAS) Work plan for the facility investigation to the Administrative Authority (Condition VIII.F)	Within one-hundred and eighty (180) days after the CAS Scoping Meeting
Implement site investigation activities under CAS Investigation Work plan according to approved schedule (Condition VIII.G)	Within fourteen (14) days of receipt of approval by the Administrative Authority
Submit RECAP Report to the Administrative Authority (Condition VIII.H)	Within ninety (90) days of completion of the site investigation
Submittal of Remedial Alternatives Study (RAS) to the Administrative Authority (Condition VIII.I)	Within ninety (90) days of completion of approval of the RECAP Report by the Administrative Authority
Submit Risk Management Plan to the Administrative Authority (Condition VIII.J)	Within sixty (90) days of approval of the RAS by the Administrative Authority
Submit requests for unit specific and facility-wide NFA-ATT determinations to the Administrative Authority (Condition VIII.K)	As necessary
Notification of newly-identified SWMUs and potential AOCs (Condition VIII.L)	Thirty (30) days after discovery
Notification of newly-discovered releases (Condition VIII.M)	According to the requirements of Conditions II.E.16 through II.E.20 of this permit

APPENDIX 1: SUMMARY OF CORRECTIVE ACTION ACTIVITIES

The intent of Appendix 1 is to provide an overview of the history and current status of the corrective action process at locations identified by and/or utilizing the same EPA ID Number and may not necessarily provide a definitive regulatory determination for a particular SWMU or AOC. The classification of an individual SWMU or AOC is subject to change by the Administrative Authority based on future geological/hydrogeological conditions and future information available to the Administrative Authority.

Hazardous waste operating permit LAR 000072223-OP-1 has no SWMUs or AOCs identified.

AOC or SWMU Number/Area Name	AOC/SWMU Description	Corrective Action Designation	Comments/History and/or Current Status

ATTACHMENT 1

ATTACHMENT 1

LIST OF FACILITY DOCUMENTS INCORPORATED IN THE PERMIT BY REFERENCE
EPA ID# LAR 000 072 223
Agency Interest #161976
Permit Number LAR000072223-OP-1

DOCUMENT TYPE	DOCUMENT DATE	EDMS[1] DOCUMENT ID NO.	DESCRIPTION
Contingency Plan	02/16/2010	6668010	Application for Operating Permit Volume 2, Attachment 3
	03/16/2012	8323212	Class 3 Mod. Application NOD II Addendum Attachment 1
Personnel Training Plan	02/16/2010	6660810	Application for Operating Permit Volume 2, Attachment 4
	03/16/2012	8323212	Class 3 Mod. Application NOD II Addendum Attachment 1
Inspection Plan	03/16/2012	8323212	Class 3 Mod. Application NOD II Addendum Attachment 2
Security Plan	07/11/2010	6592522	Application for Operating Permit; NOD 1, Attachment 4
	03/16/2012	8323212	Class 3 Mod. Application NOD II Addendum Attachment 1
Closure Plan	03/16/2012	8323212	Class 3 Mod. Application NOD II Addendum, Attachment 5
Waste Analysis Plan	03/16/2012	8323212	Class 3 Mod. Application NOD II Addendum, Attachment 3

[1]Electronic Database Management System (EDMS) location:
http://edms.deq.louisiana.gov/app/doc/querydef.aspx