4308916 **Honeywell**

Honeywell
P.O. Box 2245
Morristown, NJ 07962-2245

973 455 2817
973 455 5904 Fax
david.cooke@honeywell.com

David P. Cooke
Assistant General Counsel

RECEIVED
SEP 17 2001
PRP INFORMATION

September 10, 2001

Ms. Carlyn Winter Prisk (3HS11)
U.S. Environmental Protection Agency, Region III
1650 Arch Street
Philadelphia, PA 19103-2029

Via UPS Delivery

Re: Lower Darby Creek Area Superfund Site

Dear Ms. Prisk:

The following are the responses of Honeywell International Inc. to a §104(e) Request for Information regarding this site. Please note that Honeywell International Inc. is a successor to Allied Chemical Inc., the entity to which the request was addressed.

The responses correspond to the numbers of the questions presented in the Request for Information.

1) Honeywell International Inc. ("Honeywell") was first incorporated in Delaware on May 13, 1985 as Allied-Signal Inc. Its address and phone number are 101 Columbia Road, Morristown, NJ, 07962 (973-455-2000). Honeywell is a publicly-traded company and has no parent. A list of subsidiaries and other affiliated entities is enclosed as Attachment 1.

2) Honeywell's predecessor company Allied Chemical Corporation ("Allied Chemical") has had three facilities in the Philadelphia, Pennsylvania area between 1958 to 1976 (the "relevant time period"). The facilities were as follows:

> Camden (NJ) Works: This plant manufactured sodium metasilicate (crystal) and sodium silicate solution.
>
> Delaware Works: This plant was essentially divided into two locations: one in Claymont, Delaware, the other in Marcus Hook, Pennsylvania. The Claymont portion of the plant manufactured during the relevant time period sulfuric acid, sodium thiosulfate, sodium metabisulfite, ammonium thiosulfate and aluminum sulfate. The Marcus Hook portion of the plant, which prior to 1979 was known as the Baker and Adamson Works, manufactured fine chemicals.

The fine chemicals manufactured there were many and varied greatly during the relevant time period with chemicals being added and deleted from the product list. The type of products manufactured included acetates, chlorides, chromates, fluoborates, fluorides, nitrates, oxalates, solvents and sulfates/sulfites. In 1986, Honeywell, then known as Allied-Signal Inc., sold its sulfuric acid and related chemical businesses to General Chemical Company.

Frankford (PA) Plant: The Frankford plant manufactured nicotinic acid until 1962. It manufactured phthalic anhydride until 1972. Phenol was manufactured throughout the relevant time period. This plant was sold in 1997 to Sunoco Chemical Company.

3) James Wong
Program Manager, Site Remediation
101 Columbia Rd.
Morristown, New Jersey 07962
(973) 455-2156
(Information on the Frankford Plant)

Leon Mattioli
Supervisor, Environmental Control (retired)
206 E. Main St.
Penns Grove, NJ 08069
609-299-3220
(Information on the Delaware Works; may also be knowledgeable about the Frankford Plant)

Maurice W. Hunt
Plant Manager (1970s) (retired)
109 W. Mantua Avenue
Wenonah, NJ 08090
609-468-4704
(Information on the Frankford Plant)

4) (a-b) Camden Works: Allied Chemical operated this plant from the beginning of the relevant time period, 1958, until 1975. The facility was sold in 1976. For the nature of the operation, see response # 2.

Delaware Works: Allied Chemical operated this plant throughout the relevant time period. For the nature of the operation, see response # 2.

Frankford Plant: Allied Chemical operated this plant throughout the relevant time period. For the nature of the operation, see response # 2.

c) Documents found in our records that are responsive to this question are included in Attachment 2.

5) (a-c) Documents found in our records that are related to the use of substances, both hazardous and non-hazardous, in the manufacturing processes at the three Allied Chemical facilities in the Philadelphia area are included in Attachment 2. Please note that Honeywell asserts a claim of business confidentiality as to those documents in Attachment 2 which relate to the Delaware Works and products produced there. Documents found in our records that relate to the handling and disposal of wastes are included in Attachments 3. The types of documents maintained include reports, correspondence, waste surveys, contracts and transactional documents. Allied Chemical letters to regulatory agencies are among the documents included in Attachment 3. Contracts and correspondence between Allied Chemical and disposal companies are also included in Attachment 3.

6) Camden Works: As noted in response # 4, this plant was sold in 1976. Honeywell has not located any documents describing the processes used for the production of silicate products. However, Honeywell has in its possession for the years 1960-1969 analytical reports that contain chemical analyses for both the products produced at the plant and the raw materials used in the production process (see Attachment 2). None of the materials listed in these reports are hazardous substances. Honeywell has no information indicating the use of any hazardous substances at this plant.

Delaware Works: The Delaware Works plant produced many products, as indicated in responses # 2 and # 6. To respond to this question with regard to each and every individual product would be extremely burdensome and time-consuming, even if it were possible, and Honeywell respectfully objects to this question as being overly broad and burdensome. Notwithstanding this objection, Honeywell is providing information as to the major products produced at the plant. Included in Attachment 2 are relevant portions from an Allied Chemical book compiled in 1980, four years after the relevant time period, but nonetheless generally applicable with respect to the manufacturing processes used. The information from the Allied Chemical book includes chemical compositions of the raw materials and products. Annual capacity for 1980 is also provided, but this information is only applicable for that year. Some information regarding the sources of the raw material is also provided. Honeywell has found no information regarding the containers used to store and transport hazardous substances.

Honeywell has to date found no information on the manufacturing process for TDE and DDT. The plant discontinued production of these two pesticides in approximately 1969.

Frankford Plant: Honeywell has no information responsive to this question as it relates to the manufacture of nicotinic acid, a product the plant stopped producing in 1962. Nor does it have any information responsive to this question regarding the production of phthalic anhydride, a product discontinued in 1972.

Allied Chemical manufactured phenol and acetone from cumene. Two resulting byproducts were alphamethylstyrene and cumene hydroperoxide. For a detailed description of the phenol manufacturing process, including chemical compositions of the raw material and products, see the "Plant Visit" report included in Attachment 2. This document also contains information on the amount of phenol, acetone, alphamethylstyrene and cumene hydroperoxide produced in 1974 as well as the amount of cumene used in 1974. Honeywell has found no information regarding the quantity of these products and byproducts produced during other years of the relevant time period. Phenol and acetone were manufactured throughout the relevant time period. Honeywell has no knowledge of how these substances were transported and stored. Nor does it have any knowledge of the supplier of the raw material cumene.

7) Camden Works: (a-f) As indicated in response # 6, with the exception of the raw materials used, Honeywell has no information on the processes used at the plant. With respect to disposal of waste, the only documents Honeywell has found are invoices from Atlantic Disposal Services, Inc. (which may have been known or referred to as "ABM Inc.") for the years 1971 to 1974. It appears from invoices that Atlantic Disposal Services removed trash from the plant. For this plant Honeywell has no other information responsive to this Question.

Delaware Works: (a-f) For information on the processes used at this plant, see response # 7. Information on the types of waste, companies that transported the waste, the chemical composition of the wastes and where the wastes were disposed, if known, is contained in the Eckhardt Reports compiled by Allied Chemical in 1979 and included in Attachment 3. Attachment 3 also includes correspondence and other types of documents relating to the Delaware Works' disposal of sludge and other wastes at the Kin-Buc Landfill, as well as correspondence and purchase orders related removal by ABM, Inc. of waste from the plant.

Frankford Plant: For information on the processes used at the plant, see response # 7. Information on the types of waste, the chemical composition of the wastes, the companies that transported waste, and, if known, the disposal sites are contained in the Eckhardt Reports are included in Attachment 3. Attachment 3 also contains internal waste survey reports for each type of waste generated and the average annual amount generated. Other relevant documents included in Attachment 3 are correspondence,

purchase orders and chemical analyses that relate to the disposal of wastes by Mobile Hydro Hydraulics Inc. and Rollins Environmental Services, and the treatment and recovery of wastes by Galaxy Chemical, Inc..

8) Honeywell has found no information in its records indicating that any Allied Chemical entity in the Philadelphia, Pennsylvania area had any business transactions with the entities identified in Question # 8 between 1958 and 1976.

9) Honeywell has found no information in its records indicating that any Allied Chemical entity in the Philadelphia, Pennsylvania area had any business transactions with the entities identified in Question # 9 between 1958 and 1976.

10) Not applicable. See response #9.

11) Not applicable. See response #9.

12) William Turetsky, retired
Frankford Plant
Address and phone number unknown.

With respect to persons who were responsible for arranging and disposing of wastes at the Camden Works and Delaware Valley Works plants, Honeywell has no information, except that it is likely that such responsibility would have been placed in the respective plant managers and his or her staffs.

13) Not applicable. Honeywell has found no information indicating that any waste went to any areas of the Site.

14) As noted in response # 2, the Frankford plant was sold to Sunoco Chemical Company in 1997. Sun Chemicals may have additional information relevant to this Request for Information in its records. In 1986, Honeywell sold its sulfuric acid business and related chemical business to General Chemical Co. General Chemical Co. may have additional information relevant to this Request for Information.

15) David P. Cooke, Esq.
Assistant General Counsel
Honeywell International Inc.

Ms. Heleen Schiller
Legal Research Assistant
Honeywell International Inc.

101 Columbia Rd.
Morristown, NJ 07962
(973) 455-2817

101 Columbia Rd
Morristown, NJ. 07962
(973) 455-3104

Mr. Richard Galloway
Program Manager, Site Remediation
Honeywell International Inc.
101 Columbia Rd.
Morristown, NJ 07962
(973) 455-4660

16) (a-d): Honeywell's current document retention policy as well as several previous ones are included in Attachment 4. Honeywell does not have specific information as to how all records were destroyed. For a description of the types of information that would have been contained in these documents and their approximate dates of destruction, please refer to Attachment 4.

Document retention and destruction would have been based upon compliance with Allied Chemical and Honeywell retention policies. Honeywell has no knowledge as to who would have been responsible for the retention or destruction of documents at the three Allied Chemical plants in the Philadelphia area during the relevant time period, except that it is likely that such responsibility would have been placed in the respective plant managers and his or her staffs. At corporate headquarters, the Records Librarian and other cognizant individuals would have been responsible for retention or destruction of documents.

If you have any questions about any of these responses, please call me.

Very truly yours,

ATTACHMENT 1

AlliedSignal Inc. Affiliated Companies

593846 B.C. Ltd. (830430)

593847 B.C. Ltd. (830435)

A.C.N. 000 371 184 Pty. Limited (809401)

ABI Acquisition 1 PLC (130000)

ABI Acquisition 2 plc. (886553)

ABI Corporation (139000)

ADI de Mexico S.A. de C.V. (814418)

ADI of Puerto Rico, Inc. (837001)

AS BAR LLC (300000-051)

AS BAR PBH LLC (300000-052)

ASA Investments Inc. (159000)

ASI Specialty Chemicals, L.L.C. (300000-085)

ASIFCO (Suzhou) Inc. (164000)

Ademco AlarmShop Ltda (822404)

Ademco Asia Pacific Limited (875405)

Ademco Australia Pty, Limited (809412)

Ademco Communications Partner, Inc. (122001)

Ademco Distribution, Inc. (122002)

Ademco France (860815)

Ademco Internacional Mexico S.A. de C.V. (02623)

Ademco International Limited (886433)

Ademco Italia S.p.A. (888413)

Ademco Microtech Limited (886434)

Ademco Nederland B.V. (820823)

Ademco Security and Communications Group, B.V. (820821)

Ademco Sicherheitseinrichtungen GmbH (894422)

Ademco Siproel S.A. (822408)

Entity Type: Joint Venture Corporation

AlliedSignal Inc. Affiliated Companies

Ademco de Juarez S.A. de C.V. (814407)

Ademco, Inc. (122044)

Ademco-Sontrix Espana, S.A. (869411)

AdemcoNet, Inc. (122003)

Adi-Lenox Club, Inc. (122004)

Aeronautical Communications International LLC (02631)

Aerospace Preforms Limited (886530)

Alarm Device Manufacturing Co., Inc. (122047)

Alarmco Inc. (122048)

Alchem Assurance Limited (819782)

Alliance Polymers (400042)

Entity Type: Partnership

Allied Capital Management LLC (300000-008)

Allied Chemical Communications Company, Inc. (116000)

Allied Chemical Corporation (113000)

Allied Chemical Nuclear Products, Inc. (115000)

Allied Chemical do Brasil Comercio e Participacoes, Ltda. (822718)

Allied Fuel Energy Services Company, L.P. (400026)

Entity Type: Partnership

Allied Fuel Services Company (400027)

Entity Type: Partnership

Allied Signal Italia S.p.A. (888504)

Allied Technologies Corporation (120000)

Allied-General Nuclear Services (400016)

Entity Type: Equity Investment

Allied-Signal Aerospace (U.K.) Limited (886561)

Allied-Signal Aerospace Avionics Company (158000)

Allied-Signal Automotive of Canada Inc. (830992)

AlliedSignal Inc. Affiliated Companies

Allied-Signal Environmental Services, Inc. (156000)

AlliedSignal (Kaiping) Industrial Fabrics Co. Ltd. (836010)

Entity Type: Joint Venture Corporation

AlliedSignal (Kaiping) Industrial Fibers Co. Ltd. (836009)

Entity Type: Joint Venture Corporation

AlliedSignal Aerospace Service Corporation (127000)

Entity Type: Company with Branch Office(s)

AlliedSignal Aftermarket Europe B.V. (820458)

AlliedSignal Aftermarket Europe Norge AS (830487)

AlliedSignal Aftermarket Europe, Sverige AB (874587)

AlliedSignal Automotive Ltda. (822700)

AlliedSignal Brazil Holding Ltda. (822800)

AlliedSignal Carpet Fibers B.V. (820467)

AlliedSignal Central Europe s.r.o. (843005)

AlliedSignal Chemical Holding AG (894379)

AlliedSignal Chemicals Inc. (114000)

AlliedSignal China Inc. (182000)

Entity Type: Company with Branch Office(s)

AlliedSignal Corporation Pensions Investments (886565)

AlliedSignal Environmental Catalysts Inc. (171000)

AlliedSignal Europe Inc. (169000)

Entity Type: Company with Branch Office(s)

AlliedSignal Europe [N.V.] (817743)

AlliedSignal European Services S.A.S. (860621)

AlliedSignal Foreign Sales Corporation (600001)

AlliedSignal Friction Materials (Guangzhou) Co., Ltd. (836005)

AlliedSignal Holdings B.V. (820466)

AlliedSignal International Services S.A.S. (860620)

AlliedSignal Inc. Affiliated Companies

AlliedSignal International Trading (Shanghai Waigaoqiao Free Trade Zone) Co., Ltd. (836017)

AlliedSignal Ireland Limited (886600)

AlliedSignal Ireland Software Limited (886610)

AlliedSignal Joint Venture Partnership (400024)

Entity Type: Partnership

AlliedSignal Laminate Systems Inc. (183000)

AlliedSignal Laminate Systems S.A. (860997)

AlliedSignal Materiales de Friccion, SA (869528)

AlliedSignal Otomotiv Sanayi Ve Ticaret, A.S. (898100)

AlliedSignal Servicos Industriais e Comerciais Portugal, Lda. (840595)

AlliedSignal Singapore Inc. (148000)

AlliedSignal Sistemas de Seguridad, S.A. (869991)

AlliedSignal Sistemi di Sicurezza S.p.A. (888550)

AlliedSignal Systemes de Freinage SA (860391)

AlliedSignal Transportation Inc. (132000)

AlliedSignal Truck Brake Systems Foreign Sales Corp. (600002)

Entity Type: Subsidiary of JV=P for US Tax

AlliedSignal Turbocharging Systems (Shanghai) Co., Ltd. (836000)

Alsip Packaging, Inc. (197000)

Amandla-Honeywell Power Systems Limited (806402)

Entity Type: Joint Venture Corporation

American Core Services LLC (300000-226)

Android Controls Limited (886456)

Arclasse, Servico Total de Climatzacao S.A. (840403)

Asahi-Schwebel (Taiwan) Co., Ltd. (878210)

Entity Type: Joint Venture Corporation

Astor Stag S.A.R.L. (860390)

Autoclub Limited (886584)

Autoflug S.p.A. (888551)

BWXT Pantex, LLC (LLC-003)

Beijing Honeywell Energy Saving Equipment Co., Ltd. (836401)

Entity Type: Joint Venture Corporation

Bendix (Thailand) Limited (815025)

Entity Type: Joint Venture Corporation

Bendix CVS Canada Inc. (830246)

Entity Type: Subsidiary of Partnership

Bendix CVS de Mexico, S.A. de C.V. (814505)

Bendix Electronic Service Corporation de Espana, S.A. (869520)

Entity Type: >50% Owned

Bendix Europe Management S.N.C. (860600)

Entity Type: Joint Venture=Partnership for US Tax

Bendix Jurid Componentes para Freios Ltda. (822802)

Bendix Leasing Company (110050)

Bendix Mintex Employees Superannuation Pty Ltd. (809936)

Entity Type: Subsidiary of Joint Venture

Bendix Mintex Executive Superannuation Pty Ltd (809941)

Bendix Mintex Pacific Proprietary Limited (809932)

Entity Type: Joint Venture Corporation

Bendix Mintex Proprietary Limited (809931)

Entity Type: Joint Venture Corporation

Bendix Mintex Staff Superannuation Pty Ltd (809940)

Bendix Products Corporation (144000)

Berkat Honeywell SDN.BHD. (811403)

Entity Type: Joint Venture Corporation

Bunker Ramo Electronic Data Systems S.A. (869534)

Burdick & Jackson L.L.C. (300000-184)

Burnaby & Chantrell Limited (886592)

C&K Distribution Pty. Ltd. (809411)

C&K Pty. Ltd. (809410)

C&K Systems (China) Co. Limited (836412)

C&K Systems (Europe) B.V. (820819)

C&K Systems (Uruguay), S.A. (889400)

C&K Systems B.V. (820820)

C&K Systems Italia, S.r.l. (888410)

C&K Systems Limited (886430)

C&K Systems S.A. (Argentina) (807415)

C&K Systems, S.A. (France) (860813)

CEA AlliedSignal Aircraft Wheels and Brakes Repair and Overhaul Co., Ltd. Shanghai (836003)

Entity Type: Joint Venture Corporation

CFE Company (400012)

Entity Type: Partnership

CRIAA Honeywell (Nanjing) Aero Accessories Co., Ltd. (836013)

CRILAR Alumina Company L.L.C. (500020-001)

Entity Type: Subsidiary of JV=P for US Tax

Cambridge Thermionic of Canada, Ltd. (830250)

Cara C'Air B.V. (820811)

Entity Type: Joint Venture Corporation

Cataleasco, Inc. (500020-034)

Entity Type: Subsidiary of JV=P for US Tax

Cheshire Castings Ltd. (886569)

Chilpub, Inc. (122005)

Clean Link, Inc. (186000)

Coeur D'Alene Development Inc. (200042)

Comfort Cooling PLC (886424)

Compagnia Costruzione Cinture S.p.A. (888552)

Compania Industrial de Fluorita, S.A. (814846)

Entity Type: Joint Venture Corporation

Compania Metalurgica de Parral, S.A. (814847)

Entity Type: Joint Venture Corporation

Control Systems Contracting and Consulting L.L.C. (400047)

ConverDyn (400018)

Entity Type: Partnership

Crystar Inc. (830257)

Cylink Corporation (NC-010)

Entity Type: 20-50% Owned

DMC (UK) Limited (886402)

Dalian Yamatake Control Instruments Co., Ltd. (836402)

Entity Type: Sub of Co. < 20% Owned

Data Instruments Advanced Silicon Group, Inc. (200044)

Data Instruments Critical Fluid Group L.L.C. (400048)

Data Instruments France S.A. (860801)

Data Instruments GmbH (894402)

Data Instruments International, Inc. (200029)

Data Instruments Securities Corporation (200027)

Dexbin Limited (886560)

Don Brake (Malaysia) Sdn Bhd (809934)

Entity Type: Subsidiary of Joint Venture

Dupli-Color Limited (886532)

Elm Electronic Controls Limited (886642)

Entity Type: >50% Owned

Elqom S.A. (02627)

Embrasid S.A. (822403)

Entity Type: Joint Venture Corporation

Energy Savings Company Sp. zo.o (838402)

Enpro Secan (India) Private Limited (881945)

Evergreen Nylon Recycling Company, LLC (400038)

Entity Type: Joint Venture Corporation

F C Siena Associates, L.P. (I-011)

F-C Harris Silver Spring Limited Partnership (I-012)

F.C. Hamptons Associates, L.P. (I-013)

F.C. Harris Pavilion Apartments Limited Partnership (I-002)

F.C. Indianapolis L.P. (I-010)

F.C. Third Street Associates, L.P. (Fernando) (I-014)

Entity Type: Limited Partnership

FMP Distribution Limited (815027)

Feel Safe, Inc. (122049)

Ferranti-Bendix Power Generation Limited (886991)

FiberBuys.com, LLC (300000-219)

Fico Transpar S.A. (815016)

Entity Type: Less than 20% Owned

Final Frontier Partners, GP (I-008)

Final Frontier Pittway I Inc. (122006)

Final Frontier Pittway II Inc. (122007)

Financiere Honeywell S.A. (860394)

Entity Type: >50% Owned

Fire Burglary Instruments, Inc. (122008)

Fire Control Instruments, Inc. (122009)

Fire Protection Electronics, Inc. (200002)

Fire-Lite Alarms, Inc. (122010)

Flexy Brushes Limited (886534)

Fortin Laminating Limited (886996)

Four Seasons Temperature Control Service, Inc. (200024)

GEM Microelectronic Materials L.L.C. (400057)

Garrett Automotive Limited (886594)

Garrett Comtronics Licensing Corporation (165041)

Entity Type: >50% Owned

Garrett Direct, LLC (300000-228)

Garrett Finances S.N.C. (810000)

Entity Type: Joint Venture=Partnership for US Tax

Garrett Turbo Services Limited (886593)

Garrett Turbochargers Ltd. (815020)

Entity Type: >50% Owned

Gasmodul B.V. (820808)

Genesis Cable Systems, LLC (I-003)

Entity Type: Partnership

Glassmatch Limited (886586)

Glastrax Benelux B.V. (820825)

Globe Auto Electricals, Ltd. (881942)

Entity Type: 20-50% Owned

Gosec S.A. (888417)

Grimes Aerospace (U.K.) Limited (886551)

Grimes Aerospace Company (174000)

Grimes Holdings Inc. (172000)

H-D Polymer Corporation (153000)

Hildeco OY (859405)

Holt Lloyd Australasia Pty. Limited (809942)

Holt Lloyd BV (820473)

Holt Lloyd CDM Limited (886599)

Holt Lloyd Europa BV (820474)

Holt Lloyd Export Limited (886536)

Holt Lloyd GmbH (894304)

Holt Lloyd Group Limited (Parent) (886581)

Holt Lloyd Holdings B.V. (820475)

Holt Lloyd Holdings GmbH (894305)

Holt Lloyd Holdings Limited (886582)

Holt Lloyd International (South Africa) Pty Limited (868002)

Holt Lloyd International Limited (886583)

Holt Lloyd Kfz-pflegemittel Export GmbH (894306)

Holt Lloyd Limited (Ireland) (886603)

Holt Lloyd Limited (New Zealand) (823938)

Holt Lloyd Limited (United Kingdom) (886555)

Holt Lloyd Pension Trustees Limited (886538)

Holt Lloyd S.A. (France) (860398)

Holt Lloyd S.A. (Spain) (869530)

Holt Lloyd Srl (888507)

Holt Products Limited (886537)

Holt, Lloyd & Raposo Limitada (840596)

Entity Type: 20-50% Owned

HoltraChem Manufacturing Company, L.L.C. (LLC-002)

Entity Type: Equity Investment

Holts (Proprietary) Limited (868000)

Holts Srl (888508)

Honeywell & Co. Oman L.L.C. (831401)

Entity Type: >50% Owned

Honeywell (China) Investment Co., Ltd. (836011)

Honeywell (Private) Limited (Pakistan) (832401)

Honeywell (Singapore) Pte Ltd. (865770)

Honeywell (Tianjin) Limited (836408)

Honeywell A.B. (874401)

Honeywell A/S (Denmark) (845401)

Honeywell A/S (Norway) (813401)

Honeywell AG (Germany) (894410)

Honeywell AG (Switzerland) (875803)

Honeywell ASCa Inc. (830245)

Honeywell Advanced Circuits, Inc. (103000)

Honeywell Advanced Composites Inc. (143000)

Honeywell Advanced Systems Inc. (200003)

Honeywell Aerospace GmbH (894340)

Honeywell Aerospace Pte. Ltd. (865404)

Honeywell Aerospace Pty Limited (809955)

Honeywell Aerospace S.A. (860806)

Honeywell Aerospace Services (Malaysia) Sdn. Bhd. (811001)

Entity Type: Joint Venture=Partnership for US Tax

Honeywell Aerospace and Defence Limited (886417)

Honeywell Aerospace de Mexico S.A. (814895)

Honeywell Aerospatiale Inc. (830202)

Honeywell Aftermarket Europe GmbH (894371)

Honeywell Aftermarket Europe Limited (886547)

Honeywell Aftermarket Europe S.A. (France) (860397)

Entity Type: Company with Branch Office(s)

Honeywell Aftermarket Europe S.A. (Spain) (869521)

Entity Type: >50% Owned

Honeywell Aftermarket Europe S.p.A. (888501)

Honeywell Airport Systems GmbH (894405)

Honeywell Asahi Co., Ltd. (892945)

Entity Type: Joint Venture Corporation

Honeywell Asia Pacific Inc. (200004)

Entity Type: Company with Branch Office(s)

Honeywell Assurance Limited (819401)

Honeywell Austria Gesellschaft m.b.H. (810402)

Honeywell Automation & Controls SDN.BHD. (811401)

Honeywell Automation Controls LLP (Kazakhstan) (856401)

Honeywell Automotive de Mexico, S.A. de C.V. (814842)

Honeywell Aviation Control Moscow (855402)

Honeywell Avionics Systems Limited (886415)

Honeywell B.V. (820806)

Honeywell BCVS Holdings LLC (300000-180)

Honeywell BCVS Mexico Holdings LLC (400020-004)

Honeywell Botswana (Pty.) Limited (802401)

Honeywell Bremsbelag GmbH (894300)

Honeywell Bremssysteme GmbH (894318)

Honeywell Building Management Services Inc. (200005)

Honeywell CATIC Engine (Suzhou) Co., Ltd. (836016)

Entity Type: Joint Venture Corporation

Honeywell Capital N.V. (821401)

Honeywell Caprolactam GmbH (894385)

Honeywell CentraBuerkle AG (875802)

Honeywell Chemieprodukte GmbH (894310)

Honeywell Chile S.A. (835401)

Honeywell China Inc. (200006)

Entity Type: Company with Branch Office(s)

Honeywell Co., Ltd. (Korea) (897801)

Honeywell Colombia S.A. (808401)

Honeywell Combustion Controls S.r.l. (888406)

Honeywell Commercial Vehicle Systems Company (400020)

Entity Type: Partnership

Honeywell Computers Pte Ltd (02635)

Honeywell Consumer Products (Canada) Inc. (200009)

Honeywell Consumer Products (Hong Kong) Ltd. (875401)

Honeywell Consumer Products Limited (886404)

Honeywell Consumer Products Realty Limited (875402)

Honeywell Consumer Products, Inc. (200008)

Honeywell Control Systems Limited (886408)

Honeywell Controls International Ltd. (844401)

Honeywell Controls, S.A. (02344)

Honeywell DMC Services, Inc. (200011)

Honeywell Data Instruments, Inc. (200025)

Honeywell Dating S.p.A. (888402)

Honeywell Deutschland GmbH (894501)

Honeywell Deutschland Holding GmbH (200004-002)

Honeywell Dominicana C. Por A. (833401)

Honeywell E.P.E. (805401)

Honeywell EOOD (829401)

Honeywell ESCO Hungary Energy Service Company Limited (828403)

Entity Type: Joint Venture Corporation

Honeywell ESCO Polska S.A. (838403)

Entity Type: Joint Venture Corporation

Honeywell ESD B.V. (820813)

Honeywell Egypt Limited (854401)

Honeywell Electronic Materials Holding Company, Inc. (Parent) (101000)

Honeywell Electronic Materials Holdings, Inc. (108000)

Honeywell Electronic Materials Japan Inc. (892701)

Honeywell Electronic Materials Korea Limited (897125)

Honeywell Electronic Materials Taiwan Co., Ltd. (878230)

Honeywell Electronic Materials, Inc. (102000)

Honeywell Electronics Corporation (200041)

Honeywell Elm Holdings Limited (886409)

Honeywell Elm Limited (886410)

Honeywell Energy Services Inc. (170000)

Honeywell Engineering SDN.BHD. (811402)

Honeywell Europe Inc. (200012)

Entity Type: Company with Branch Office(s)

Honeywell Europe S.A. (817402)

Honeywell Europe Services S.A.S. (860393)

Honeywell FM2 Limited (886425)

Honeywell Facility Management GmbH (894412)

Honeywell Federal Manufacturing & Technologies, LLC (300000-216)

Honeywell Filtros de Mexico S.A. de C.V. (814844)

Honeywell Finance B.V. (820803)

Honeywell Finance Inc. (200013)

Honeywell Finance International Inc. (200014)

Honeywell Finance plc (886405)

Honeywell Fluorine Products Europe BV (820480)

Honeywell Fluorine Products Italia S.r.l. (888580)

Honeywell Foreign Sales Corporation B.V. (820814)

Honeywell Foundation (F-002)

Entity Type: Foundation

Honeywell France A S.A.S. (860320)

Honeywell France B S.A.S (860321)

Honeywell France C (02608)

Honeywell France D (860323)

Honeywell France Finance LLC (127000-006)

Honeywell France Holdings LLC (127000-005)

Honeywell Friction Materials Germany GmbH (894355)

Honeywell Friction Materials Spain Srl (02633)

Honeywell Garrett S.A. (860575)

Honeywell Garrett S.p.A. (888560)

Honeywell Garrett SrL (890000)

Honeywell Geraetebau GmbH (894406)

Honeywell Group Holding UK (886701)

Honeywell Group Holding UK II (886702)

Honeywell HAIC Corporation (140000)

Honeywell Hardware Product Group GmbH (894309)

Honeywell Hausgeraete GmbH (894401)

Honeywell Hi-Spec Solutions Limited (886421)

Honeywell High-Tech Trading Inc. (200015)

Honeywell Holding AG (Switzerland) (875801)

Honeywell Holding B.V. (820815)

Honeywell Holding France S.A.S. (860330)

Honeywell Holding Limited (Mauritius) (806401)

Honeywell Holdings (Thailand) Co., Ltd. (815024)

Honeywell Holdings Limited (New Zealand) (823401)

Honeywell Holdings Limited (United Kingdom) (886403)

Honeywell Holdings Pty. Ltd. (Australia) (809405)

Honeywell Humanitarian Relief Foundation Inc. (F-003)

Entity Type: Foundation

Honeywell Humiclima, S.A. de C.V. (814403)

Honeywell Hyesung Electronics Korea Ltd. (897120)

Entity Type: Joint Venture Corporation

Honeywell INUcontrol A.B. (874402)

Honeywell Iberica - Produtos de Consumo, S.A. (840401)

Honeywell Inc. (200000)

Entity Type: Company with Branch Office(s)

Honeywell India Private Limited (881403)

Honeywell India Software Operation Private Limited (881402)

Honeywell Information Systems Limited (886419)

Honeywell Intellectual Properties Inc. (193000)

Honeywell International (India) Private Limited (881946)

Honeywell International Asia Pacific Inc. (137000)

Entity Type: Company with Branch Office(s)

Honeywell International Finance Corporation (187000)

Honeywell International Foundation Inc. (F-001)

Entity Type: Foundation

Honeywell International Inc. (300000)

Honeywell International Japan Inc. (892932)

Honeywell International UK Limited (886564)

Honeywell International de Mexico, S. de R.L. de C.V. (814992)

Honeywell K.K. (892409)

Honeywell Korea Ltd. (815003)

Honeywell Kuwait K.S.C. (885401)

Entity Type: Joint Venture Corporation

Honeywell LCL Design & Management Limited (886413)

Honeywell Land Holdings (Thailand) Co., Ltd. (815007)

Honeywell Latinoamericana, S.A. (833402)

Honeywell Leasing Company Inc. (121000)

Honeywell Leasing Limited (886420)

Honeywell Limited (Australia) (809402)

Honeywell Limited (Hong Kong) (875403)

Honeywell Limited (New Zealand) (823402)

Honeywell Limited (Ukraine) (858401)

Honeywell Limited (United Kingdom) (886407)

Honeywell Limited/Honeywell Limitee (830401)

Honeywell Lincold Holdings Limited (886412)

Honeywell Lincold Refrigeration Systems Limited (886414)

Honeywell ManageAbility Leasing Company Brazil LLC (200000-027)

Honeywell ManageAbility Leasing Company Jamaica LLC (200000-029)

Honeywell ManageAbility Leasing Company Suriname LLC (200000-030)

Honeywell ManageAbility Service Company Jamaica LLC (200000-028)

Honeywell ManageAbility Service Company Suriname LLC (200000-031)

Honeywell Manufacturas de Chihuahua, S.A. de C.V. (814406)

Honeywell Materiaux de Friction S.A. (860995)

Honeywell Measurex (Ireland) Limited (886639)

Honeywell Measurex Ireland Finance (886641)

Honeywell Measurex Limited (886406)

Honeywell Middle East B.V. (820804)

Honeywell Neighborhood Improvement Program Inc. (A-001)

Honeywell Normalair-Garrett (Holdings) Limited (886595)

Honeywell Normalair-Garrett Limited (886596)

Honeywell OY (859401)

Honeywell Optoelectronica S.A. de C.V. (814404)

Honeywell Otomasyon ve Kontrol Sistemleri Sanayi ve Ticaret A.S. (898402)

Entity Type: Joint Venture Corporation

Honeywell Overseas Finance Company (200030)

Honeywell POMS Corp. (200043)

Honeywell POMS Europe NV (817410)

Honeywell Pension Trustees Limited (886422)

Honeywell Performance Fibers S.A.S. (860996)

Honeywell Peru S.A. (835402)

Honeywell Pharmaceutical Fine Chemicals S.r.l. (888509)

Honeywell Plastics S.A. (822801)

Entity Type: Joint Venture Corporation

Honeywell Polymers (Australia) Limited (809935)

Honeywell Polymers GmbH (894374)

Honeywell Polymers S.A.S. (860994)

Honeywell Portugal, Automacao e Controlo, S.A. (840402)

Honeywell Power Systems Inc. (136000)

Honeywell Productos Automotrices, S.A. de C.V. (814991)

Honeywell Pte. Ltd. (865403)

Honeywell Regelsysteme GmbH (894407)

Honeywell Romania s.r.l. (890401)

Honeywell Rotary Pte. Ltd. (865406)

Entity Type: Joint Venture Corporation

Honeywell S.A. (Belgium) (817401)

Honeywell S.A. (Ecuador) (852401)

Honeywell S.A. (France) (860804)

Honeywell S.A.I.C. (807410)

Honeywell S.p.A. (888401)

Honeywell Safety Management Systems B.V. (820812)

Honeywell Safety Management Systems GmbH (894409)

Honeywell Safety Management Systems Private Limited (865405)

Honeywell Semiconductor Packages, Inc. (105000)

Honeywell Service & Installatietechniek B.V. (820807)

Honeywell Servicios Tecnicos Integrales S.A. (869406)

Honeywell Solutions Pty. Ltd. (809404)

Honeywell Southern Africa (Proprietary) Limited (868402)

Honeywell Sp. z.o.o. (838401)

Honeywell Specialty Chemicals (Singapore) Pte Ltd. (865960)

Honeywell Specialty Chemicals (Suzhou) Co., Ltd. (836018)

Honeywell Specialty Chemicals Seelze GmbH (894384)

Honeywell Specialty Wax & Additives Inc. (129000)

Honeywell Specialty Wax & Additives Limited (886554)

Honeywell Specialty Wax & Additives SA (817460)

Honeywell Systems (Philippines), Inc. (816404)

Honeywell Systems (Thailand) Limited (815402)

Honeywell Szabalyozastechnikai es Automatizalasi Kft. (828401)

Honeywell TAECO Aerospace (Xiamen) Company Limited (836004)

Entity Type: Joint Venture Corporation

Honeywell Taiwan Limited (878400)

Honeywell Technical Services (Shanghai) Co. Ltd. (836409)

Honeywell Technical Services S.r.l. (888404)

Honeywell Technology Solutions Inc. (124000)

Honeywell Tecnologia Y Securidad, S.A. (869405)

Honeywell Turbocharging Systems Japan Inc. (892934)

Honeywell Turki-Arabia Limited (816403)

Entity Type: Joint Venture Corporation

Honeywell U.G.V. S.r.l. (888403)

Honeywell UK Limited (886546)

Honeywell Unterstutzungskasse GmbH (894411)

Honeywell do Brasil & CIA Ltda (822401)

Honeywell spol. s.r.o. (Slovak Republic) (857401)

Honeywell, C.A. (891403)

Honeywell, S.A. de C.V. (814402)

Honeywell, S.L. (Spain) (860401)

Honeywell, spol.sr.o. (Czech Republic) (843401)

Honeywell-Asiatic Pte Ltd. (865780)

Entity Type: Joint Venture Corporation

Honeywell-Gerds (860811)

Honeywell-Measurex (NZ) Limited (823403)

Honeywell-Measurex Asia, Inc. (200020)

Entity Type: Company with Branch Office(s)

Honeywell-Measurex International Corporation (200019)

Entity Type: Company with Branch Office(s)

Honeywell-Measurex Korea, Inc. (200021)

Honeywell-Measurex Latin America (200022)

Honeywell-Measurex Olcum Aletleri Ltd. (898401)

Honeywell-Measurex Pty. Ltd. (809403)

Honeywell-Measurex S.A. (860802)

Honeywell-Measurex S.A. de C.V. (814401)

Honeywell-Measurex de Venezuela, C.A. (891401)

Honeywell-Measurex do Brazil Ltda. (822402)

Honeywell-SYSKO Co. Ltd. (897150)

Entity Type: Joint Venture Corporation

Hughey & Phillips, Inc. (200033)

Hunt Europe B.V. (820822)

I.A.S. Electronics Limited (886448)

Illinois Center Lakefront Venture, GP (I-004)

Entity Type: Partnership

Industrial Computing Designs Limited (886440)

Industrial Turbines International, Inc. (400003)

Entity Type: Joint Venture Corporation

Ineco S.r.l. (888408)

Ingenieria de Automatizacion Industrial, Compania de Honeywell (891402)

Intalogik Limited (886416)

IntelliSense (Hong Kong) Limited (875404)

International Auto Parts Limited (a/k/a Interzapchast) (855000)

Entity Type: Joint Venture Corporation

International Turbine Engine Corporation (165090)

Entity Type: Joint Venture Corporation

Iropharm plc (886606)

JGC Corporation (815019)

Entity Type: Less than 20% Owned

JITCO, LLC (400050)

JM Electronics Hong Kong Limited (875230)

Jellalabad plc (886607)

Jurid U.K. Limited (886550)

KAC Alarm Company Limited (886445)

KAC Precision Plastics Limited (886446)

Katalistiks International, Inc. (500020-035)

Entity Type: Subsidiary of JV=P for US Tax

Kayes Chemical Co. Aust. Pty Limited (809944)

Kiinteistohuolto Meratek OY (859403)

King Radio S.A. (875550)

Klippan Automotive Products (U.K.) Limited (886578)

Klippan N.V. (817474)

Knorr Systemes pour Vehicules Utilitaires France S.A. (860998)

Entity Type: Subsidiary of JV=P for US Tax

Knorr-Bremse Benelux B.V.B.A. (817900)

Entity Type: Subsidiary of JV=P for US Tax

Knorr-Bremse Fekrendszerek Kft. (828000)

Entity Type: Subsidiary of JV=P for US Tax

Knorr-Bremse Italia, S.p.A. (888585)

Entity Type: Subsidiary of JV=P for US Tax

Knorr-Bremse Sistemas para Veiculos Comerciais Brasil Ltda. (822720)

Entity Type: Subsidiary of Joint Venture

Knorr-Bremse Sistemi per Autoveicoli Commerciali Italia S.p.A. (815018)

Entity Type: Subsidiary of JV=P for US Tax

Knorr-Bremse System for Tunga Fordon AB (874590)

Entity Type: Subsidiary of JV=P for US Tax

Knorr-Bremse Systeme fuer Nutzfahrzeuge GmbH (894370)

Entity Type: Joint Venture=Partnership for US Tax

Knorr-Bremse Systems for Commercial Vehicles Limited (886548)

Entity Type: Subsidiary of JV=P for US Tax

Knorr-Bremse Systemy pro uzitkova vozidla, CR, s.r.o. (843001)

Entity Type: Subsidiary of JV=P for US Tax

Knorr-Bremse UK Limited (886997)

Entity Type: Subsidiary of JV=P for US Tax

Knorr-Orsan Ticari Arac, Sistemleri Limited, Sirketi (898500)

Entity Type: Subsidiary of JV=P for US Tax

Koden Maintenance Company Limited (886418)

L.M.B. S.A. (860814)

LORI, Inc. (166000)

Labinal Technofan (860388)

Entity Type: Equity Investment

Lenox Club Limited Partnership (I-009)

Entity Type: Limited Partnership

Light Helicopter Turbine Engine Company (400014)

Entity Type: Partnership

Lindener Volksbank e.G. (894301)

Entity Type: Equity Investment

Lori Asia Pte. Ltd. (865970)

M-R Development Company (175000)

M.R. Holt Product Pty. Limited (886542)

MAP Results Pte. Ltd. (865402)

MRC Acquisition Corp. No. 1 (175025)

Maquiladora de Acuna, S.A. de C.V. (814501)

Measurex Automation Systems, Inc. (200018)

Measurex B.V. (820801)

Measurex Roibox OY (859402)

Measurex Taiwan, Inc. (200023)

Metco Properties, LP (I-005)

Entity Type: Limited Partnership

Mexhon S.A. de C.V. (814405)

Microlite Corporation (122011)

Midland-Ross of Canada, Ltd. (830251)

Midro Ltd. (819790)

Minneapolis-Honeywell Regulator Company, Inc. (200034)

Morley Electronics Fire Systems Limited (886449)

Musashi Holt KK (892916)

MyAircraft.com, LLC (LLC-004)

MyConstructionWeb.com L.L.C. (300000-220)

Nanoglass LLC (300000-084)

National Safe Skies Alliance, Inc. (A-003)

Niedersaechsische Gesellschaft fuer Endablagerung von Sonderabfall mbH (894303)

Entity Type: Equity Investment

Niigata Technos Co., Ltd. (892895)

Entity Type: Sub of Co. < 20% Owned

Nikki-Universal Co., Ltd. (500020-002)

Entity Type: Subsidiary of JV=P for US Tax

Nippon Amorphous Metals Co., Ltd. (892911)

Entity Type: Joint Venture Corporation

Nippon Kigyo KK (892917)

Nirlon Limited (881943)

Entity Type: Less than 20% Owned

Nitto Boseki Co., Ltd. (815006)

Entity Type: Less than 20% Owned

Normalair-Garrett Manufacturing Pty. Ltd. (809956)

Normalair-Garrett Pty. Ltd. (809957)

Norplex Oak India Limited (881920)

Entity Type: Joint Venture Corporation

Northern Computers (Australia) Pty Limited (809413)

Northern Computers (UK) Limited (886435)

Northern Computers Internacional Cia. Ltda. (Ecuador) (852402)

Northern Computers Limited (02600)

Northern Computers Sarl (860816)

Northern Computers do Brasil-Servico E Participaceos Ltda. (822803)

Northern Computers, Inc. (122012)

Notifier (Benelux) S.A. (817461)

Notifier AB (874403)

Notifier Australia Pty Ltd (809419)

Notifier Deutschland GmbH (894423)

Notifier Engineered Systems Company (122013)

Notifier Engineered Systems Company Limited (886458)

Notifier Espana, S.L.. (869412)

Notifier Inertia Pty Ltd (809418)

Notifier Italia S.r.l. (888414)

Notifier Limited (886447)

Notifier de Mexico S.A. de C.V. (814410)

Notifier do Brasil Comercio Ltda. (822406)

Notifier, Ltd. (122014)

NxtPhase Corporation (830425)

Entity Type: Equity Investment

NxtPhase Technology SRL (839402)

Opex Corporation (154000)

Orme Controls S.A.R.L. (860803)

POMS GmbH (894415)

POMS, Ltd. (830420)

PT Honeywell Indonesia (882402)

PT. Yamatake Berca Indonesia (882401)

Entity Type: Sub of Co. < 20% Owned

Pacific BBA Ltd. (809937)

Entity Type: Less than 20% Owned

Penny & Giles Instrumentation Ltd. (886453)

Petrofin Corporation (400037)

Entity Type: Joint Venture Corporation

Pharmaceutical Fine Chemicals (Bahamas) Limited (812000)

Pharmaceutical Fine Chemicals Portuguesa Producao e Comercio de Productos Farmeuticos Lda. (840597)

Pharmaceutical Fine Chemicals S.A. (Parent) (870000)

Pharmaceutical Fine Chemicals Services Limited (819791)

Phoenix Controls AG (875809)

Phoenix Controls Corporation (200035)

Pittway Australia Pty Limited (809416)

Pittway Corporation (122000)

Pittway Corporation of Canada (830412)

Pittway Fire Safety, Inc. (122016)

Pittway Foreign Sales Corporation (803403)

Pittway France S.A. (860817)

Pittway GP, Inc. (122050)

Pittway Inertia Pty Limited (809417)

Pittway Intellectual Property Corporation (122051)

Pittway International, Ltd. (122015)

Pittway Leasing Corporation (122052)

Pittway Systems Latin America, Ltd. (122045)

Pittway Systems Technology Group Europe Limited (886436)

Pittway Tecnologica S.p.A. (888415)

Pittway UK Limited (886437)

Pittway do Brasil Participacoes Ltda. (822407)

Prestolite International de Mexico, S.A. (814858)

Prestolite of India, Ltd. (881944)

Entity Type: 20-50% Owned

Prestone Holdings Inc. (195000)

Prestone Products Corporation (196000)

ProService B.V. (820828)

Procam Video Systems B.V. (820826)

Process Analysts Inc. (200046)

Prolox Controls Systems B.V. (820827)

Quest Education Corporation (12933)

Entity Type: Equity Investment

Quimobasicos, S.A. de C.V. (814859)

Entity Type: Joint Venture Corporation

Radscan of Atlanta, Inc. (122017)

Radscan of Baltimore, Inc. (122018)

Radscan of Boston, Inc. (122019)

Radscan of Charlotte, Inc. (122020)

Radscan of Chicago, Inc. (122021)

Radscan of Dallas, Inc. (122022)

Radscan of Denver, Inc. (122023)

Radscan of Detroit, Inc. (122024)

Radscan of Houston, Inc. (122025)

Radscan of Las Vegas, Inc. (122026)

Radscan of Los Angeles, Inc. (122027)

Radscan of Memphis, Inc. (122028)

Radscan of Miami, Inc. (122029)

Radscan of Minneapolis, Inc. (122030)

Radscan of Nashville, Inc. (122031)

Radscan of New York, Inc. (122032)

Radscan of Philadelphia, Inc. (122033)

Radscan of Phoenix, Inc. (122034)

Radscan of Pittsburgh, Inc. (122035)

Radscan of Portland, Inc. (122036)

Radscan of San Diego, Inc. (122037)

Radscan of San Francisco, Inc. (122038)

Radscan of Seattle, Inc. (122039)

Radscan of St. Louis, Inc. (122040)

Radscan of Tampa, Inc. (122041)

Radscan, Inc. (122042)

Rajay Limited (886650)

Realdix Corporation (111000)

Red Moon Productions LLC (124000-005)

Redex Limited (886540)

Riedel-de Haen AG (894380)

Riedel-de Haen Sozialhilfe GmbH (894381)

Roto Master Limited (886655)

Rubix Limited Liability Company (400021)

Entity Type: Joint Venture=Partnership for US Tax

Rumford Automotive Products Co. (135000)

SHT (UK) Limited (886442)

SHT (US) Limited (886441)

SHT Intermediate Inc. (138000)

SICAL Yamatake Ltd. (881404)

Entity Type: Sub of Co. < 20% Owned

SN-Centro de Pesquisas e Promocao de Sulfato de Amonio Ltda. (822714)

Sabre Digital Systems Limited (886457)

Saddlebrook Corporate Center Association, Inc. (I-001)

Safety Service Center Inc. (892412)

Entity Type: Sub of Co. < 20% Owned

Satronic AG (875807)

Satronic Controls (U.K.) Limited (886426)

Satronic GmbH (Hungary) (828402)

Satronic Holdings AG (875804)

Securite Communications S.A. (888418)

Securitech Manufacturing Limited (886432)

Security Resources, LLC (I-006)

Serck Heat Transfer BV (820829)

Serck Heat Transfer Holdings Limited (Parent) (886438)

Serck Heat Transfer Limited (886439)

Servicios Honeywell C.A. (891404)

Shanghai AlliedSignal Zhixin Amorphous Metals (Shanghai) Co., Ltd. (836007)

Shanghai C&K Technology Co. Ltd. (836411)

Entity Type: Joint Venture Corporation

Shanghai UOP Ltd. (500020-004)

Entity Type: Subsidiary of JV=P for US Tax

Shanghai Yamatake Jinshan Control Instruments Co., Ltd. (836405)

Entity Type: Sub of Co. < 20% Owned

Shenco Limited (400036)

Entity Type: Limited Partnership

Simoniz International Limited (886585)

Sinopec Honeywell (Tianjin) Limited (836407)

Entity Type: Joint Venture Corporation

Skinner Europa B.V. (820805)

Skyforce Avionics Limited (886590)

Skywrite, LP (or Skywire?) (I-007)

Entity Type: Limited Partnership

Societe d'Etude et de Realisations Aerothermiques (860210)

Societe d'Etudes et de Constructions Aero-Navales, S.A. (860205)

Stag Francaise S.A. (860395)

Sushi Italy S.r.l. Unipersonale (02622)

System Sensor Europe Limited (886450)

System Sensor Russia (855404)

System Sensor de Mexico S.A. de C.V. (814411)

System Sensor, Ltd. (122043)

Taishin Co., Ltd. (892403)

Entity Type: Sub of Co. < 20% Owned

Talleres Electrometalurgicos Norte Sociedad Anonima (TENSA) (815015)

Entity Type: Less than 20% Owned

Tata Honeywell Limited (881401)

Entity Type: Joint Venture Corporation

Technos Co., Ltd. (892896)

Entity Type: Sub of Co. < 20% Owned

Tecuria Engineering AG (875808)

Entity Type: Equity Investment

Temperature Controlled Reactors L.L.C. (500020-003)

Entity Type: Subsidiary of JV=P for US Tax

Tetra Tech Management Services, Inc. (200038)

Texas Modular Assemblies, Inc. (122046)

The Alta Group, Inc. (107000)

The Bendix Corporation (177000)

The Canaan Group, LLC (300000-200)

Thermal Control Inc. (200039)

Transitions Two (I-019)

Entity Type: Equity Investment

TrendView Instrumentation Limited (886443)

TrendView Recorders (Export) Limited (886452)

TrendView Recorders Limited (886451)

TriStar Aerospace International Inc. (839301)

TriStar Aerospace Ltd. (830255)

TriStar Aerospace SARL (860215)

Trondule Co., Ltd. (892897)

Entity Type: Sub of Co. < 20% Owned

Turbocare Limited (886670)

Turbodina S.A.I.y.C. (815010)

Entity Type: Equity Investment

Turtleline (Pty) Limited (868001)

UOP Admin B.V. (500020-005)

Entity Type: Subsidiary of JV=P for US Tax

UOP Asia Ltd. (500020-006)

Entity Type: Subsidiary of JV=P for US Tax

UOP B.V. (500020-007)

Entity Type: Subsidiary of JV=P for US Tax

UOP Canada Inc. (500020-008)

Entity Type: Subsidiary of JV=P for US Tax

UOP Equitec Services, Inc. (500020-009)

Entity Type: Subsidiary of JV=P for US Tax

UOP Foreign Sales Corporation (500020-010)

Entity Type: Subsidiary of JV=P for US Tax

UOP France s.a.r.l. (500020-011)

Entity Type: Subsidiary of JV=P for US Tax

UOP GmbH (500020-012)

Entity Type: Subsidiary of JV=P for US Tax

UOP Inc. (500020-013)

Entity Type: Subsidiary of JV=P for US Tax

UOP India Pvt. Ltd. (500020-014)

Entity Type: Subsidiary of JV=P for US Tax

UOP Inter-Americana, Inc. (500020-015)

Entity Type: Subsidiary of JV=P for US Tax

UOP International Services Limited (500020-016)

Entity Type: Subsidiary of JV=P for US Tax

UOP International Technology Limited (500020-017)

Entity Type: Subsidiary of JV=P for US Tax

UOP Invest B.V. (500020-018)

Entity Type: Subsidiary of JV=P for US Tax

UOP K.K. (500020-019)

Entity Type: Subsidiary of JV=P for US Tax

UOP LLC (500020)

Entity Type: Joint Venture=Partnership for US Tax

UOP Limited (500020-020)

Entity Type: Subsidiary of JV=P for US Tax

UOP M.S. SpA (500020-021)

Entity Type: Subsidiary of JV=P for US Tax

UOP Management Services (Saudi Arabia) Ltd. (500020-022)

Entity Type: Subsidiary of JV=P for US Tax

UOP Management Services, Inc. (500020-023)

Entity Type: Subsidiary of JV=P for US Tax

UOP Middle East Company (500020-024)

Entity Type: Subsidiary of JV=P for US Tax

UOP N.V. (500020-025)

Entity Type: Subsidiary of JV=P for US Tax

UOP Pacific Ltd. (500020-026)

Entity Type: Subsidiary of JV=P for US Tax

UOP Processes International, Inc. (500020-027)

Entity Type: Subsidiary of JV=P for US Tax

UOP Services Limited (500020-028)

Entity Type: Subsidiary of JV=P for US Tax

UOP Sinco S.r.l. (500020-029)

Entity Type: Subsidiary of JV=P for US Tax

USHA Amorphous Metals, Ltd. (881999)

Entity Type: Joint Venture Corporation

UltraGlas Power Products L.L.C. (LLC-001)

Entity Type: Joint Venture Corporation

Union Showa K.K. (500020-030)

Entity Type: Subsidiary of JV=P for US Tax

Universal Assets Inc. (400015)

Entity Type: Equity Investment

Universal Oil Products Asia Pacific Pte. Ltd. (500020-031)

Entity Type: Subsidiary of JV=P for US Tax

Universal Oil Products Company (500020-032)

Entity Type: Subsidiary of JV=P for US Tax

Universal Pharma Technologies LLC (500020-033)

Entity Type: Subsidiary of JV=P for US Tax

Uno Progetti s.r.l. (888419)

Vericor Power Systems LLC (400045)

Entity Type: Joint Venture Corporation

Video Controls International Limited (02571)

Video Controls Limited (886444)

W.H.C. 1999 Limited (886591)

WS Industries, Inc. (200028)

Western Alarm Supply, Inc. (122053)

Westinghouse Security Electronics, Inc. (200040)

Wisconsin Park Associates Limited Partnership (I-015)

Entity Type: Limited Partnership

Xetron Corporation (122054)

Xian System Sensor Electronics Ltd. (836413)

YCV Corporation (400055)

Entity Type: Sub of Co. < 20% Owned

Yamatake & Co., Ltd. (892402)

Entity Type: Sub of Co. < 20% Owned

Yamatake (Thailand) Co., Ltd. (815401)

Entity Type: Sub of Co. < 20% Owned

Yamatake Automation (Malaysia) Sdn. Bhd. (811002)

Entity Type: Sub of Co. < 20% Owned

Yamatake Building Systems Co., Ltd. (892404)

Entity Type: Sub of Co. < 20% Owned

Yamatake Care-Net Co., Ltd. (02596)

Entity Type: Sub of Co. < 20% Owned

Yamatake China Limited (875407)

Entity Type: Sub of Co. < 20% Owned

Yamatake Combustion Control Technology (02613)

Entity Type: Sub of Co. < 20% Owned

Yamatake Control Products Co., Ltd. (892406)

Entity Type: Sub of Co. < 20% Owned

Yamatake Controls Singapore Pte. Ltd. (865401)

Entity Type: Sub of Co. < 20% Owned

Yamatake Corporation (892401)

Entity Type: Equity Investment

Yamatake Friendly Co., Ltd. (892411)

Entity Type: Sub of Co. < 20% Owned

Yamatake Industrial Systems Co., Ltd. (892405)

Entity Type: Sub of Co. < 20% Owned

Yamatake Korea Co., Ltd. (897001)

Entity Type: Sub of Co. < 20% Owned

Yamatake Philippines, Inc. (816401)

Entity Type: Sub of Co. < 20% Owned

Yamatake Sensing Control, Limited (400056)

Entity Type: Sub of Co. < 20% Owned

Yamatake Taiwan Co., Ltd. (878402)

Entity Type: Sub of Co. < 20% Owned

Yamatake Techno-Systems Co., Ltd. (892407)

Entity Type: Sub of Co. < 20% Owned

Yamatake-SIC Building Automation Co., Ltd. (Shanghai) (836403)

Entity Type: Sub of Co. < 20% Owned

Yamatake-SIC Control Systems Co., Ltd. (Beijing) (836404)

Entity Type: Sub of Co. 20-50% Owned

ZAO Honeywell (855401)

ZAO Honeywell Home and Building Control (855403)

e-Bendix LLC (300000-198)

myConstruction.com Limited (875406)

ATTACHMENT 2

ORIGINAL (Red)

CAMDEN WORKS PLANT

ORIGINAL (red)

RAW MATERIALS

SILICA SAND

CAMDEN WORKS
1960

Vendor - National Glass Sand Corporation

[illegible]	Specifications		Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
[illegible]	99.5	Min.	-	-	99.63	-	-	99.65	-	-	99.63	-	-	99.62
Fe_2O_3	0.040	Max.	0.032	0.035	0.029	0.027	0.028	0.029	0.022	0.028	0.027	0.030	0.032	0.030
[illegible]	0.040	"	-	-	0.032	-	-	0.033	-	-	0.035	-	-	0.026
[illegible]	0.050	"	-	-	0.022	-	-	0.026	-	-	0.024	-	-	0.030
[illegible]	0.020	"	-	-	0.017	-	-	0.017	-	-	0.021	-	-	0.026
[illegible]	0.30	"	-	-	0.172	-	-	0.184	-	-	0.162	-	-	0.194

Tyler Size

Thru 20 Mesh	100%		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
" 40 "	90%	Min.	86.4	84.3	86.0	85.3	84.8	84.8	84.0	82.6	80.0	86.7	75.1	76.5
" 100 "	2%	Max.	1.9	1.7	1.7	1.4	1.7	1.4	1.5	1.4	0.4	0.7	1.0	0.4

Vendor - Penna. Pulverizing (Newport, N.J.)

SiO_2	99.5	Min.	-	-	99.68	-	-	99.70	-	-	99.71	-	-	99.68
Fe_2O_3	0.040	Max.	0.020	0.016	0.017	0.016	0.016	0.016	0.019	0.021	0.021	0.019	0.017	0.017
TiO_2	0.040	"	-	-	0.033	-	-	0.031	-	-	0.031	-	-	0.031
MgO	0.050	"	-	-	0.020	-	-	0.023	-	-	0.021	-	-	0.036
CaO	0.020	"	-	-	0.016	-	-	0.018	-	-	0.018	-	-	0.019
Al_2O_3	0.30	"	-	-	0.161	-	-	0.174	-	-	0.140	-	-	0.149

Tyler Size

Thru 20 Mesh	100%		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
" 40 "	90%	Min.	86.3	85.8	85.6	86.1	85.7	86.1	85.3	86.1	80.1	86.3	88.4	89.4
" 100 "	2%	Max.	1.4	1.1	1.3	1.0	1.2	1.5	1.1	1.3	0.6	0.9	0.7	1.5

RAW MATERIALS
LIQUID CAUSTIC SODA

[illegible]	Specifications	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
[illegible]2o	38.75% Min.	-	-	38.83	-	-	38.70	-	-	38.96	-	-	39.10
[illegible]2co3	0.25 Max.	-	-	0.10	-	-	0.08	-	-	0.07	-	-	0.06
Fe	0.0025 Max.	-	-	0.0022	-	-	0.0020	-	-	0.0018	-	-	0.0014
Color Water White		-	-	Water White	-	-	Water White	-	-	Water White	-	-	Water White

SODA ASH LIGHT

[illegible]

Na2o	58.0% Min.	-	-	58.00	-	-	58.0	-	-	58.0	-	-	58.00
Fe2o3	0.003 Max.	-	-	0.002	-	-	0.001	-	-	0.002	-	-	0.002

SILICA SAND

Vender - Penna. Pulverizing (Hancock, W. Va.)

SiO2	99.50 Min.	-	-	-	-	-	-	-	-	-	-	-
Fe2o3	0.040 Max.	-	-	-	-	-	-	-	-	-	-	-
TiO2	0.040 "	-	-	-	-	-	-	-	-	-	-	-
MgO	0.050 "	-	-	-	-	-	-	-	-	-	-	-
CaO	0.020 "	-	-	-	-	-	-	-	-	-	-	-
Al2o3	0.30 "	-	-	-	-	-	-	-	-	-	-	-

Screen Size

Thru 20 Mesh 100%		-	-	-	-	-	-	-	-	-	-	-
" 40 " 90% Min.		-	-	-	-	-	-	-	-	-	-	-
" 100 " 2% Max.		-	-	-	-	-	-	-	-	-	-	-

[illegible]	Specification	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
[illegible] 68° F.	38.0 ∓ .5	38.4	None	None	38.3	None	None	None	None	None	None	38.5	None
[illegible]	8.10 ∓ .20	8.20	Pro-	Pro-	8.20	Pro-	Pro-	Pro-	Pro-	Pro-	Pro-	8.20	Pro-
[illegible]	26.20 ∓ .40	26.54	duced	duced	26.60	duced	duced	duced	duced	duced	duced	26.60	duced
[illegible]	1:3.25 ∓ .03	3.24			3.24							3.24	
[illegible] Code 184													
[illegible] 68° F.	40.0-40.5	40.4	40.3	40.5	40.5	40.3	40.2	40.1	40.1	40.5	None	40.5	40.5
[illegible] @ 20° C.	30 - 45	42.	40	42	45.	40	38	32	36	40		42	43
[illegible]	8.75 ∓ .10	8.75	8.72	8.78	8.65	8.72	8.70	8.65	8.66	8.75	Pro-	8.80	8.80
[illegible]	28.50 ∓ .30	28.43	28.34	28.60	28.30	28.34	28.30	28.10	28.32	28.36		28.60	28.67
[illegible]	1:3.25 ∓ .03	3.25	3.25	3.26	3.27	3.25	3.25	3.25	3.27	3.24	duced	3.25	3.26
[illegible] Code 186 F-8													
[illegible] 68° F.	41.0 ∓ .2	41.0	41.0	41.2	41.0	41.2	41.1	41.1	41.2	41.2	41.2	41.3	41.3
[illegible] @ 20° C.	40 Min.	48	54	64	53.	58	50	62	60	54	58	59	66
[illegible] Transmission	70% Min.	72%	72	77%	75%	76%	74%	73%	72%	72%	72%	73%	70%
[illegible]	8.85 ∓ .25	8.95	8.90	8.92	8.89	8.85	8.88	8.80	8.85	8.84	8.91	9.00	8.99
[illegible]	28.84 ∓ .64	29.02	28.98	29.20	29.00	28.86	28.78	28.80	28.85	28.70	28.96	29.20	29.30
[illegible]	1:3.25 ∓ .03	3.24	3.26	3.27	3.26	3.26	3.24	3.27	3.26	3.25	3.25	3.24	3.26
[illegible]	0.015% Max.	0.009	0.008	0.008	0.008	0.009	0.009	0.008	0.009	0.009	0.010	0.010	0.010
[illegible]	0.017% Max.	0.009	0.007	0.012	0.009	0.011	0.010	0.009	0.010	0.009	0.009	0.010	0.009
[illegible]	0.01% Max.	0.007	0.007	0.006	0.005	0.006	0.007	0.006	0.008	0.008	0.007	0.008	0.008
[illegible]	0.01% Max.	0.008	0.005	0.007	0.006	0.007	0.007	0.006	0.007	0.010	[illegible]	[illegible]	[illegible]

	Specification	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
[illegible] 68° F.	41.0 - 41.5	None	None	41.3	None	41.3	None	None	None	None	41.3	None	None
[illegible] 20° C.	50 - 60	Pro-	Pro-	56	Pro-	53	Pro-	Pro-	pro-	Pro-	60	Pro-	Pro-
[illegible]	8.95 ∓ .15	duced	duced	8.99	duced	8.95	duced	duced	duced	duced	8.98	duced	duced
[illegible]	29.1 ∓ .30			29.20		28.90					29.18		
[illegible]	3.25 ∓ .03			3.25		3.23					3.25		
[illegible] Code 187													
[illegible] 68° F.	41.5 - 42.0	None	None	None	None	None	None	None	None	None	None	None	None
[illegible] 20° C.	65 - 75	Pro-	Pro-	Pro-	Pro-	Pro-	Pro-	Pro-	Pro-	Pro-	Pro-	Pro-	Pro-
[illegible]	9.15 ∓ .15	duced	duced	duced	duced	duced	duced	duced	duced	duced	duced	duced	duced
[illegible]	29.3 ∓ .40												
[illegible]	3.20 ∓ .03												
[illegible] Code 189													
[illegible] 68° F.	42.5 ∓ .5	42.8	42.4	42.4	42.6	42.5	42.5	42.2	None	42.3	42.4	42.5	42.3
[illegible] 20° C.	95 - 130	130	118	130	124.	122	128	118	Pro-	120	130	118	122
[illegible]	9.30 ∓ .20	9.40	9.15	9.24	9.23	9.25	9.28	9.15	duced	923	9.24	9.28	9.20
[illegible]	29.9 ∓ .50	30.40	29.71	30.31	30.00	30.00	30.05	29.80		29.94	30.05	30.06	30.00
[illegible]	3.25 ∓ .03	3.23	3.25	3.28	3.23	3.24	3.24	3.26		3.24	3.25	3.24	3.26
[illegible] Code 196													
[illegible] 68° F.	47.0 ∓ .5	47.2	None	None	None	47.1	47.4	None	None	None	None	None	None
[illegible]	11.00 ∓ .20	11.12	Pro-	Pro-	Pro-	11.00	11.20	Pro-	pro-	Pro-	Pro-	Pro-	Pro-
[illegible]	31.40 ∓ .60	31.42	duced	duced	duced	31.20	31.63	duced	duced	duced	duced	duced	duced
[illegible]	2.84 ∓ .03	2.83				2.84	2.82						

CAMDEN WORKS
1960

SODIUM SILICATE - CONCL'D.

Specification	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
[illegible]-42.5	42.4	42.3	42.5	42.4	None	42.5	42.3	None	42.4	None	42.4	None
Water White	W.W.	W.W.	W.W.	W.W.		W.W.	W.W.				W.W.	
11.0% .20	10.81	10.89	10.95	10.95	Pro-	11.00	10.84	Pro-	10.93	Pro-	10.90	Pro-
27.5% .50	27.60	27.66	27.96	27.80		27.83	27.80	duced	27.90	duced	27.80	duced
1:2.54% .04	2.55	2.54	2.55	2.54	duced	2.53	2.56		2.55		2.55	
[illegible] 202												
[illegible].0% .5	52.1	None	52.0	None	52.2	None	None	52.4	52.0	52.2	None	52.1
13.7% .20	13.69	Pro-	13.82	Pro-	13.80	Pro-	Pro-	13.90	13.90	13.80		13.80
33.9% .50	33.14	duced	33.21	duced	33.10	duced	duced	33.40	32.70	33.36	Pro-	33.00
1:2.40% .03	2.42		2.40		2.40			2.40	2.35	2.42	duced	2.39
[illegible] 203												
60.0-60.5	None	60.2	None	None	60.3	None	None	None	60.4	None	None	60.2
18.10% .40	Pro-	18.10	Pro-	Pro-	18.10	Pro-	Pro-	Pro-	18.20	Pro-	Pro-	18.10
36.20% .80	duced	36.56	duced	duced	36.00	duced	duced	duced	36.04	duced	duced	36.60
1:2.00% .05		2.02			1.99				1.98			2.02
[illegible] Grade 205												
49.0 % .5	49.1	49.3	49.5	49.5	49.1	49.4	None	49.4	49.2	49.4	49.5	49.0
13.0 % .2	13.13	13.07	13.20	13.20	13.10	13.20	Pro-	13.20	13.08	13.14	13.20	13.00
30.5 % .5	30.63	30.93	31.00	31.00	30.47	30.69	duced	30.96	30.90	30.76	31.00	31.00
1:2.35% .03	2.33	2.37	2.35	2.35	2.33	2.33		2.35	2.36	2.34	2.35	2.38
[illegible] 207												
	None	None	None	None	40.6	None	None	None	41.0	None	None	41.0
	Pro-	Pro-	Pro-	Pro-	8.55	Pro-	Pro-	Pro-	8.70	Pro-	Pro-	8.60
	duced	duced	duced	duced	29.00	duced	duced	duced	29.41	duced	duced	29.30
					3.39				3.38			3.41

CAMDEN WORKS
1960

SODIUM METASILICATE

Specification	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
98.50% Min.	100.21	100.04	100.27	100.10	100.04	100.10	100.07	100.10	100.07	100.04	100.14	100.04
1.0.97 ± .02	0.974	0.976	0.976	0.975	0.975	0.975	0.975	0.975	0.976	0.975	0.974	0.976
29.2 ± .3	29.30	29.25	29.32	29.27	29.25	29.27	29.26	29.27	29.26	29.25	29.28	29.25
28.2 ± .3	28.54	28.54	28.61	28.55	28.53	28.53	28.54	28.53	28.55	28.52	28.53	28.54
42.0 Max.	41.66	41.71	41.57	41.68	41.72	41.69	41.70	41.68	41.74	41.75	41.70	41.73
0.01 "	0.008	0.007	0.007	0.008	0.007	0.008	0.007	0.008	0.008	0.009	0.009	0.008
Sl. Cloudy	Sl.Cl.	Sl. Cl.	Sl.Cl.	Sl.Cl.	Sl.Cl.	Sl.Cl.	Sl.Cl.	Sl.Cl.	Sl.Cl.	Sl.Cl.	Sl. Cl.	Sl. Cl.
0.10 Max.	0.004	0.004	0.005	0.004	0.003	0.003	0.004	0.005	0.005	0.006	0.005	0.006
White	White	White	White	White	White	White	White	White	White	White	White	White
100 Max.	100.0	100.0	None	100.0	100.0	100.0	100.0	100.0	100.0	None	100.0	None
90.0 Min.	98.6	99.9	Pro-	99.3	99.4	99.8	99.5	99.9	99.0	Pro-	99.9	Pro-
50.0 Max.	38.4	41.4	duced	40.0	38.8	36.1	39.2	42.4	44.1	duced	40.4	duced
25.0 Min.	37.6	42.6		45.8	37.2	39.4	50.5	45.7	37.9		43.7	

SODIUM METASILICATE (CONT'D.)

	Specification	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
[illegible] Mesh	1% Max.	0.1	0.1	0.1	0.1	0.1	None	0.1	None	0.1	0.1	0.1	0.5
[illegible] "	75 ∓ 15	76.8	83.6	80.8	68.5	77.5		70.7		71.3	73.6	62.2	75.1
[illegible] "	25 ∓ 15	22.1	15.5	18.3	31.1	22.1	Pro-	28.8	Pro-	28.3	25.0	35.5	23.9
[illegible]	1 Max.	0.7	0.6	0.6	0.2	0.2		0.2		0.1	1.0	0.9	0.4
[illegible]	.86g/cc Min.	.892	.884	.885	.875	.868	duced	.869	duced	.864	.900	.891	.87
[illegible]	1% Max.	0.1	0.2	0.1	0.2	0.2	0.2	0.6	0.3	0.3	0.2	0.4	0.4
[illegible]	"	0.6	1.3	0.8	0.4	0.3	0.4	0.5	0.3	0.5	0.8	0.6	1.1
[illegible]		None	None	None	None	None	None	None	None	None	0.8	None	0.8
[illegible]		Pro-	Pro-	Pro-	Pro-	Pro-	Pro-	Pro-	Pro-	Pro-		Pro-	
[illegible]		duced	duced	duced	duced	duced	duced	duced	duced	duced	0.4	duced	1.0

[illegible] for [illegible] grade.

RAW MATERIALS

SILICA SAND

[illegible] Glass Sand Corporation

Specifications		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
[illegible]	Min.	-	-	99.63	-	-	99.63	-		99.67		-	99.65
[illegible]	Max.	0.036	0.028	0.024	0.035	0.032	0.036	0.042	0.038	0.031	0.033	0.030	0.032
[illegible]	"	-	-	0.030	-	-	0.025	-	-	0.027		-	0.029
[illegible]	"	-	-	0.038	-	-	0.024	-	-	0.038		-	0.030
[illegible]	"	-	-	0.018	-	-	0.014	-	-	0.017		-	0.018
[illegible]	"	-	-	0.156	-	-	0.173	-	-	0.169		-	0.191
[illegible]													
[illegible]	Min.	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
[illegible]	Max.	[illegible] 1.2	[illegible] 1.0	[illegible] 0.2	[illegible] 0.6	[illegible] 1.1	[illegible] 1.2	[illegible] 2.4	[illegible] 2.3	[illegible] 1.7	[illegible] 2.2	[illegible] 2.6	[illegible] 2.6

[illegible] Pulverizing (Newport, N.J.)

[illegible]	Min.	-	-	99.68	-	-	99.64	-	-	99.66		-	99.70
[illegible]	Max.	[illegible]	[illegible]	[illegible]	[illegible]	0.022	0.022	0.024	0.024	0.023	0.018	0.016	0.018
[illegible]	"	-	-	0.028	-	-	0.029	-	-	0.029		-	0.026
[illegible]	"	-	-	0.029	-	-	0.019	-	-	0.030		-	0.027
0.020	"	-	-	0.015	-	-	0.012	-	-	0.016		-	0.017
[illegible]	"	-	-	0.159	-	-	0.164	-	-	0.182		-	0.160
[illegible]													
[illegible]	Min.	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
[illegible]	Max.	[illegible] 0.6	[illegible] 0.4	[illegible] 0.5	[illegible] 0.6	[illegible] 3.4	[illegible] 3.5	[illegible] 7.3	[illegible] 4.5	[illegible] 3.2	[illegible] 3.5	[illegible] 3.4	[illegible] 3.7

RAW MATERIALS

CAMDEN WORKS
1961

LIQUID CAUSTIC SODA

Specifications		Jan.	Feb.	Mar.	Apr.	Mercury ~~Mxxx~~Cell June	A.C.S. June	July	Aug.	A.C.S. Sept.	Oct.	Nov.	Dec.
[illegible]75%	Min.	-	-	39.20	-	39.46	38.50	-	-	38.82	-	-	38.26
[illegible]	Max.	-	-	0.05	-	0.05	0.12	-	-	0.07	-	-	0.01
[illegible]	Max.	-	-	0.0002	-	0.0002	0.0008	-	-	0.0006	-	-	0.0008
[illegible] Bits		-	-	W. W.	-	W.W.	Sl. Cl.	-	-	Sl. Cl.	-	-	Sl. Cl

SODA ASH LIGHT

[illegible]8.0%	Min.	-	-	58.0	-	-	58.0	-	-	58.0	-	-	58.0
[illegible]	Max.	-	-	0.001	-	-	0.001	-	-	0.003	-	-	0.004

SILICA SAND

Jesse S. Morie & Son, Inc.
~~[illegible]~~

						May	June		July				
[illegible]	Min.	-	-	-	-	-	99.62	-	-	99.67		-	99.54
[illegible]	Max.	-		-	-	0.021	0.022	0.026	0.026	0.025	0.029	0.026	0.025
[illegible].040	"	-	-	-	-	-	0.025	-	-	0.025		-	0.024
[illegible].050	"	-	-	-	-	-	0.042	-	-	0.034		-	0.030
[illegible].020	"	-	-	-	-	-	0.020	-	-	0.016		-	0.015
[illegible].50	"	-	-	-	-	-	0.185	-	-	0.168		-	0.208

[illegible] Sieve

[illegible] 100%		-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
[illegible] 90%	Min.	-	-	-	-	71.0	71.4	75.5	68.9	72.3	76.3	75.2	76.5
[illegible] ?%	Max.	-	-	-	-	2.5	2.7	2.4	3.9	1.9	3.1	2.8	3.7

SODIUM SILICATE

	Specification	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	[illegible]
	38.0 ± .5	None	38.4	38.2	None	None	38.5	None	None	None	None	None	None
	8.10 ± .1	Pro-	8.20	8.15	Pro-	Pro-	8.18	Pro-	Pro-	Pro-	Pro-	Pro-	Pro-
	26.3 ± .3	duced	26.60	26.40	duced	duced	26.60	duced	duced	duced	duced	duced	duced
	1:3.25 ± .03		3.24	3.24			3.25						
[illegible] 184-1													
	40.0-40.5	40.5	40.2	40.3	None	40.5	None	40.3	40.4	40.3	40.4	40.3	40.1
	8.75 ± .10	8.85	8.75	8.80	Pro-	8.83	Pro-	8.75	8.80	8.70	8.80	8.70	8.60
	28.4 ± .30	28.70	28.40	28.60	duced	28.60	duced	28.30	28.40	28.40	28.34	28.30	28.00
	1:3.25 ± .03	3.24	3.25	3.25		3.24		3.23	3.23	3.26	3.22	3.25	3.26
[illegible] 186 [illegible]													
	41.0 ± .2	41.1	41.2	41.2	41.2	41.2	41.2	41.0	41.2	41.1	41.2	41.0	41.0
[illegible]	70% Min.	72%	73%	75%	76%	76%	76%	74%	75%	75%	75%	76%	76%
	8.85 ± .25	8.90	8.93	8.96	8.93	8.96	8.90	8.94	8.91	8.95	8.96	8.85	8.84
	28.84 ± .64	28.93	29.12	29.05	29.06	29.05	29.20	28.92	28.72	29.10	28.92	28.80	28.75
	1:3.25 ± .03	3.25	3.26	3.24	3.25	3.24	3.28	3.23	3.22	3.25	3.23	3.25	3.25
	0.015% Max.	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.008	0.009	0.008	0.008	0.007
	0.017% Max.	0.007	0.006	0.010	0.008	0.007	0.006	0.007	0.007	0.006	0.006	0.006	0.009
	0.01% Max.	0.006	0.005	0.008	0.007	0.005	0.005	0.006	0.008	0.006	0.005	0.006	0.007
	0.01% Max.	0.007	0.008	0.010	0.010	0.006	0.008	0.009	0.005	0.005	0.005	0.004	0.005

Specification	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	
									1961			
41.25 ± .25	None	None	None	None	None	None	None	None	None	None	None	None
9.0 ± .1	Pro-	Pro-	Pro-	Pro-	Pro-	Pro-	Pro-	Pro-	Pro-	Pro-	Pro-	Pro-
29.2 ± .3	duced	duced	duced	duced	duced	duced	duced	duced	duced	duced	duced	duced
1:3.25 ± .03												
[illegible] 1961												
42.25 ± .25	42.5	42.3	42.1	42.4	42.5	None	42.2	42.6	None	42.5	42.5	42.5
9.3 ± .1	9.30	9.21	9.18	9.25	9.21	Pro-	9.15	9.30	Pro-	9.20	9.20	9.17
29.9 ± .3	30.20	30.10	29.95	30.22	30.10	duced	29.83	29.95	duced	29.85	29.70	29.72
1:3.25 ± .03	3.25	3.27	3.26	3.27	3.27		3.26	3.22		3.24	3.23	3.24
[illegible] 1961												
47.0 ± .5	None	47.1	None	None	47.2	None	None	None	47.0	None	None	47.0
11.1 ± .20	Pro-	11.15	Pro-	Pro-	11.08	Pro-	Pro-	Pro-	11.10	Pro-	Pro-	11.10
31.40 ± .60	duced	31.54	duced	duced	31.25	duced	duced	duced	31.40	duced	duced	31.52
1:2.84 ± .05		2.83			2.82				2.83			2.84
[illegible] 1961												
42.25 ± .25	42.3	None	42.4	42.3	42.3	42.4	None	42.3	42.2	42.4		
Water White	W.W.		W.W.	W.W.	W.W.	W.W.	Pro-	W.W.	W.W.	W.W.	None	None
10.8 ± .20	10.90	Pro-	10.95	10.90	10.93	10.90	duced	10.85	10.80	11.00	Pro-	Pro-
27.4 ± .50	27.90		27.84	27.86	27.81	27.70		27.25	27.20	27.70	duced	duced
1:2.54 ± .04	2.56	duced	2.54	2.56	2.54	2.54		2.51	2.52	2.52		

Specification	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	[illegible]
[illegible]	52.2	52.4	52.0	52.3	52.3	52.2	None	52.0	52.2	52.5	None	52.2
[illegible]	13.80	13.90	13.83	13.95	13.95	13.90	Pro-	13.81	13.85	13.95	Pro-	13.70
[illegible]	33.5	33.30	32.92	33.20	33.30	33.40	duced	32.80	32.97	33.00	duced	32.80
[illegible]	2.43	2.40	2.38	2.38	2.39	2.40		2.38	2.38	2.37		2.39
[illegible]												
[illegible]	None	None	None	None	None	None	None	None	60.3	None	None	None
[illegible]	Pro-	Pro-	Pro-	Pro-	Pro-	Pro-	Pro-	Pro-	18.20	Pro-	Pro-	Pro-
[illegible]	duced	duced	duced	duced	duced	duced	duced	duced	35.90	duced	duced	duced
[illegible]									1.97			
[illegible]												
[illegible]	None	49.3	49.4	49.3	49.5	None	None	48.9	None	49.5	49.2	49.3
[illegible]	Pro-	13.10	13.1	13.20	13.30	Pro-	Pro-	13.21	Pro-	13.30	13.20	13.00
[illegible]	duced	31.00	31.1	31.20	31.20	duced	duced	30.72	duced	31.00	31.00	30.70
[illegible]		2.37	2.37	2.36	2.35			2.33		2.33	2.35	2.36
[illegible]												
[illegible]	40.7	None	None	None	None	40.4	None	None	None	40.5	None	None
	8.70	Pro-	Pro-	Pro-	Pro-	8.56	Pro-	Pro-	Pro-	8.50	Pro-	Pro-
	29.70	duced	duced	duced	duced	29.09	duced	duced	duced	28.90	duced	duced
	3.41					3.40				3.40		

SODIUM METASILICATE

CAMDEN WORKS
1961

	Specification		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
	98.50%	Min.	100.17	100.14	100.21	100.38	100.27	100.14	100.04	100.04	99.97	100.07	100.14	100.38
	1:0.97 ± .02		0.975	0.975	0.976	0.972	0.974	0.975	0.976	0.975	0.976	0.976	0.976	0.974
	29.2 ± .3		29.29	29.28	29.30	29.35	29.32	29.28	29.25	29.25	29.23	29.26	29.28	29.35
	28.2 ± .3		28.57	28.56	28.60	28.53	28.55	28.55	28.56	28.53	28.54	28.55	28.58	28.60
	42.0	Max.	41.64	41.67	41.65	41.62	41.66	41.69	41.72	41.73	41.73	41.71	41.68	41.60
	0.01	Max.	0.008	0.007	0.008	0.007	0.010	0.008	0.008	0.007	0.006	0.006	0.007	0.005
	Sl. Cloudy		Sl. Cl.	Sl. Cl.	Sl.Cl.	Sl. Cl.	Sl. Cl.	Sl. Cl.	Sl. Cl.	Sl.Cl.	Sl. Cl.	Sl.Cl.	Sl. Cl.	Sl. Cl
	0.10	Max.	0.005	0.006	0.003	0.004	0.005	0.004	0.005	0.006	0.002	0.003	0.003	0.003
	White		White	White	White	White	White	White	White	White	White	White	White	White
[illegible]														
[illegible]	100	Max.	100.0	None	100.0	100.0	100.0	100.0	100.0	100.0	None Produced	None Produced	100.0	100.0
[illegible]	90.0	Min.	99.8	Produced	99.0	100.0	97.1	100.0	100.0	100.0			98.0	99.9
[illegible]	50.0	Max.	32.6		38.1	32.0	49.7	44.7	41.5	37.6			54.4	33.8
[illegible]	[illegible]	Min.	42.9		46.5	48.9	38.9	38.7	41.4	41.5			30.9	46.0
[illegible]														
on 10	1%	Max.	None	0.1	1.0	0.2	0.1	0.0	0.2	None Produced	0.2	None Produced	0.2	0.0
10 on 30	75 ± 15		Produced	84.4	65.8	78.6	71.5	75.1	71.9		66.6		81.3	64.1
30 on 80	25 ± 15			14.9	32.5	20.7	27.6	24.7	27.2		32.6		17.5	35.0
[illegible]	1%	Max.		0.4	0.4	0.3	0.5	0.4	0.3		0.2		0.5	0.6
[illegible]	Economic Method .86g/cc	Min.		.883	.890	.891	.882	.870	.873		.860		.878	.880

SODIUM METASILICATE

CAMDEN WORKS

1953

[illegible]	Specification	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	[illegible]	[illegible]
[illegible]	Max.	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.3	0.6	0.8	0.2	0.2
[illegible]	Max.	0.9	0.6	0.7	0.5	0.5	0.4	0.4	0.4	0.4	1.0	0.9	0.7
[illegible]													
		0.6	None Produced	None Produced	None Produced	None Produced	0.6	-	None Produced	0.6	None Produced	0.4	None Produced
		0.8					0.3	-		0.6		0.5	
[illegible]													
		0.0	0.0	0.0	None	None	0.0	-	None	0.6	None	0.0	None
		69.0	65.2	65.4	Produced	Produced	64.8	-	Produced	65.0	Produced	59.4	Produced
		17.0	22.5	22.4			22.7	-		21.0		30.4	
		14.0	12.3	12.2			12.5	-		13.4		10.3	

[illegible] information for these grades.

COMPANY CORRESPONDENCE

SUBJECT CAMDEN WORKS
MONTHLY ANALYTICAL SUMMARY
PRODUCTION TECHNICAL

RESTRICTED
DISCLOSURE OR REPRODUCTION
WITHOUT AUTHORIZATION OF
GENERAL CHEMICAL PROHIBITED

TO Production Technical Section

FROM Camden Works

ATTENTION Mr. J. W. Ferguson
Technical Supervisor

DATE January 8, 1964

QD 241 JAN1364

1. Attached is our Monthly Analytical Summary for December 1963.

R. T. Montgomery
Chief Chemist

c/c Mr. C. M. Murphy, Quality Supervisor, Morristown

RTM:dv

PROD. DEPT. JAN 9 1964		MRH	JWN
		RFH	RHN
JRE		RHH	HHP
JWA	RWC	JJK	CKR
ECB	JCD	SK	MRS
JHB	WE	WCK	JRT
JMB	AOF	CMM	EW
KWB	JWT	JLM	GMW
REB	AH	JSM	KNW
FWC	DLH	RJM	WEW
RSC	JEH	RWM	

UD 24. JAN1964

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	99.69	[illegible]	[illegible]	99.64	[illegible]	[illegible]	99.65	[illegible]	[illegible]	99.63
[illegible]	[illegible]	[illegible]	[illegible]	0.039	0.046	None	0.026	0.029	0.024	0.035	0.062	0.030	0.031
[illegible]	[illegible]	[illegible]	[illegible]	0.052	[illegible]	Rare	0.049	[illegible]	[illegible]	0.036	[illegible]	[illegible]	0.030
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.026	[illegible]	[illegible]	0.019
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.018	[illegible]	[illegible]	0.024
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.198	[illegible]	[illegible]	0.181
[illegible]	[illegible]	[illegible]	[illegible]	100.	100.	[illegible]	100.	100.	100.	100.	100.0	100.	100.
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	97.9	99.0	98.2	97.9	98.0	98.4	98.0
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	85.5	86.0	85.1	85.6	87.2	83.9	84.9
[illegible]	[illegible]	[illegible]	[illegible]	1.4	1.5	2.0	[illegible]	3.0	2.9	4.4	3.9	3.1	4.3

CAMDEN WORKS
1963

[illegible]	[illegible]	[illegible]	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
[illegible]	[illegible]	[illegible]	-	-	99.69	-	-	99.58	-	-	99.62	-	-	99.65
[illegible]	[illegible]	[illegible]	0.031	0.028	0.027	0.028	0.028	0.027	0.028	0.026	0.026	0.025	0.025	0.026
[illegible]	[illegible]	[illegible]	-	-	0.023	-	-	0.023	-	-	0.020	-	-	0.021
[illegible]	[illegible]	[illegible]		-	0.028	-	-	0.024	-	-	0.031	-	-	0.022
[illegible]	[illegible]	[illegible]	-	-	0.016	-	-	0.020	-	-	0.020	-	-	0.027
[illegible]	[illegible]	[illegible]	-	-	0.160	-	-	0.214	-	-	0.188	-	-	0.172
[illegible]														
[illegible]	[illegible]		100	100	100	100.	100.	100.0	100.	100.	100.	100.0	100	100.
[illegible]	[illegible]	[illegible]	[illegible]	97.6	95.3	95.8	96.2	95.0	93.7	94.3	88.1	89.4	90.9	87.1
[illegible]	[illegible]	[illegible]	73.3	76.4	69.5	72.1	74.3	76.4	74.2	74.7	72.7	71.2	72.6	76.4
[illegible]	[illegible]	[illegible]	2.4	2.9	1.9	2.3	2.1	3.9	3.1	3.2	3.2	2.9	2.3	3.6

[illegible]

[illegible]

[illegible] 1965

[illegible]

[illegible]	[illegible]	[illegible]	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
[illegible]	[illegible]	[illegible]	-	-	99.65	-	-	99.62	-	-	99.66	-	-	99.63
[illegible]	[illegible]	[illegible]	0.022	0.023	0.021	0.021	0.022	0.021	0.022	0.021	0.021	0.020	0.018	0.020
[illegible]	[illegible]	"	-	-	0.023	-	-	0.022	-	-	0.032	-	-	0.031
[illegible]	[illegible]	"	-	-	[illegible]	-	-	[illegible]	-	-	0.027	-	-	0.020
[illegible]	[illegible]	"	-	-	0.026	-	-	0.018	-	-	0.019	-	-	0.022
[illegible]	[illegible]	"	-	-	0.195	-	-	0.206	-	-	0.169	-	-	0.200
[illegible]	[illegible]		[illegible]	100.0	100.	100.	100.0	100.0	100.	100.	100.	100.0	100	100.
[illegible]	[illegible]	[illegible]	97.9	97.8	97.3	97.7	97.2	98.9	97.5	98.0	97.4	97.3	97.5	98.1
[illegible]	[illegible]	"	74.4	75.2	77.6	76.8	75.3	88.3	83.2	81.3	83.0	82.8	80.9	84.6
[illegible]	[illegible]	[illegible]	[illegible]	2.6	2.6	2.4	2.2	3.8	2.9	3.3	3.9	4.1	3.8	4.2

CAMDEN WORKS
1963

RAW MATERIAL

LIQUID CAUSTIC SODA

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible] %	[illegible]	-	-	0.12	-	-	-	-	-	-	-	-	-
[illegible] %	[illegible]	-	-	38.30	-	-	-	-	-	-	-	-	-
[illegible]	[illegible]	-	-	50.1	-	-	-	-	-	-	-	-	-
[illegible]		-	-	-	-	-	-	-	-	-	-	-	-

[illegible]							Mercury Cell						
[illegible] %	[illegible]	-	-	0.01	-	-	0.02	-	-	0.01	-	-	0.02
[illegible] %	[illegible]	-	-	39.60	-	-	38.85	-	-	38.95	-	-	39.12
[illegible]	[illegible]	-	-	51.0	-	-	50.3	-	-	50.4	-	-	50.5
[illegible]	-	-	-	-	-	-	-	-	-	-	-	-	-

SODA ASH LIGHT

[illegible]													
[illegible] %	[illegible]	[illegible]	-	-	58.0	-	-	58.0	-	-	58.0	-	-	58.0
[illegible] %	0.003	[illegible]	-	-	0.003	-	-	0.002	-	-	0.002	-	-	0.003

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	None Produced	None Produced	None Produced	None Produced	None Produced	None Produced	None Produced	None Produced	None Produced	None Produced	None Produced	None Produced
[illegible]	[illegible]												
[illegible]	[illegible]	None Produced	None Produced	None Produced	38.5 8.30 26.53 3.24	38.2 8.09 26.26 3.25	None Produced	38.3 8.13 26.35 3.24	None Produced	None Produced	None Produced	None Produced	None Produced
[illegible]	[illegible]												
[illegible]	[illegible]	40.4 8.75 28.44 3.25	None Produced	40.6 8.50 28.40 3.23	40.5 8.33 28.52 3.23	40.4 8.30 28.60 3.25	None Produced	40.5 8.65 28.63 3.24	40.5 8.64 28.58 3.23	40.4 8.62 28.60 3.24	40.5 8.85 28.64 3.24	None Produced	40.5 8.83 28.70 3.25

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	41.2	41.2	41.2	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	78	76	76	74	75	74	75		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	9.03	9.05	9.06		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	29.02	28.91	29.32	29.20	29.28	29.40	29.43		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.24	3.26	3.25		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.006	0.007	0.008		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.008	0.009	0.009		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.006	0.008	0.008		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.007	0.008	0.009		
[illegible]														
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	42.5	None Produced	42.4	None Produced	42.5	42.5	42.4		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		9.22	9.30	9.27		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	29.90		29.54		30.00	30.17	30.13		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		3.25	3.24	3.25		
[illegible]														
[illegible]	[illegible]								50.2	49.9	None Produced	None Produced		
[illegible]	[illegible]								14.90	15.05				
[illegible]	[illegible]								29.95	29.80				
[illegible]	[illegible]								2.01	1.98				

		None Pro-duced		None Pro-duced	None Pro-duced	None Pro-duced		None Pro-duced	None Pro-duced	None Pro-duced	None Pro-duced	None Pro-duced
				None Pro-duced	None Pro-duced	None Pro-duced	None Pro-duced	None Pro-duced	None Pro-duced	None Pro-duced	None Pro-duced	None Pro-duced

[illegible]	[illegible]	[illegible]	None Pro-duced	[illegible]	None Pro-duced	[illegible]	[illegible]	[illegible]	[illegible]	None Pro-duced	52.3	52.5	None Pro-duced
[illegible]	[illegible]	[illegible]		[illegible]		[illegible]	[illegible]	13.95	13.95		13.89	13.93	
[illegible]	[illegible]	[illegible]		[illegible]		[illegible]	32.96	33.11	33.43		33.20	33.45	
[illegible]	[illegible]	[illegible]		[illegible]		[illegible]	[illegible]	2.39	2.40		2.40	2.40	
[illegible]	[illegible]	None Pro-duced	None Pro-duced	[illegible]	60.4	None Pro-duced	None Pro-duced	None Pro-duced	60.4	None Pro-duced	None Pro-duced	None Pro-duced	None Pro-duced
[illegible]	[illegible]			[illegible]	[illegible]				16.30				
[illegible]	[illegible]			[illegible]	[illegible]				36.40				
[illegible]	[illegible]			[illegible]	2.02				1.99				
[illegible]	[illegible]	49.3	49.5	None Pro-duced	49.5	49.3	None Pro-duced	49.2	49.5	49.1	49.3	49.5	None Pro-duced
[illegible]	[illegible]	[illegible]	13.30		13.30	13.20		13.01	13.27	13.11	13.30	13.27	
[illegible]	[illegible]	[illegible]	31.30		30.93	31.00		30.44	31.18	31.08	31.30	31.24	
[illegible]	[illegible]	2.33	2.35		2.33	2.34		2.34	2.35	2.37	2.35	2.35	
[illegible]	[illegible]								44.1	44.0	44.1	44.0	43.9
[illegible]	[illegible]								10.55	10.58	10.65	10.70	10.68
[illegible]	[illegible]								29.00	29.34	29.20	29.37	29.26
[illegible]	[illegible]								2.75	2.77	2.75	2.75	2.74

[illegible]

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	.975	.975	.977	.976	.975	.977	.977	.975	.976	.975	.974	.974
[illegible]	[illegible]	[illegible]	29.29	29.26	29.29	29.27	29.26	29.27	29.25	29.28	29.29	29.34	29.32	29.33
[illegible]	[illegible]	[illegible]	28.55	28.54	28.56	28.56	28.55	28.60	28.57	28.55	28.58	28.61	28.57	28.56
[illegible]	[illegible]	[illegible]	41.67	41.71	41.76	41.67	41.70	41.67	41.69	41.67	41.66	41.66	41.71	41.69
[illegible]	[illegible]	[illegible]	0.009	0.008	0.007	0.008	0.007	0.007	0.008	0.008	0.007	0.006	0.006	0.007
[illegible]	[illegible]	[illegible]	0.003	0.003	0.004	0.003	0.003	0.004	0.003	0.003	0.003	0.002	0.003	0.003
[illegible]														
[illegible]	[illegible]	[illegible]	0.3	0.2	0.3	0.6	0.4	0.5	0.5	0.5	0.2	0.2	0.2	0.3
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	90.6	90.0
[illegible]	[illegible]	[illegible]	6.0	6.0	5.6	4.9	5.1	2.2	6.0	5.4	5.6	7.6	8.9	9.3
[illegible]	[illegible]	[illegible]	0.3	0.5	0.4	0.3	0.2	0.3	0.3	0.2	0.2	0.3	0.3	0.4
[illegible]														
[illegible]	[illegible]	[illegible]	1.0	1.0	None Produced	0.8	None Produced	0.6	None Produced	0.1	0.1	0.2	None Produced	0.0
[illegible]	[illegible]	[illegible]	48.6	47.9		49.2		48.2		48.5	42.4	42.8		49.7
[illegible]	[illegible]	[illegible]	38.6	40.9		46.8		42.2		42.8	37.9	37.6		41.0

SODIUM METASILICATE

[illegible]

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	0.2	0.1	0.2	0.2	0.4	0.4	0.2	0.2	0.1	0.2	0.2
[illegible]	[illegible]	[illegible]	74.6	75.8	81.2	82.1	78.5	80.1	73.2	73.5	71.3	74.5	75.3
[illegible]	[illegible]	[illegible]	24.6	23.6	18.2	17.3	20.8	18.7	26.1	25.9	28.3	24.7	23.7
[illegible]	[illegible]	[illegible]	0.5	0.4	0.3	0.3	0.2	0.6	0.3	0.2	0.2	0.4	0.6
[illegible]	[illegible]	[illegible]	.879	.872	.878	.868	.868	.863	.863	.869	.868	.896	.885

[illegible]

[illegible]	[illegible]	[illegible]	None Produced	None Produced	None Produced	None Produced	None Produced	None Produced	None Produced	None Produced	None Produced	None Produced	None Produced

[illegible]

[illegible]	[illegible]	[illegible]	None Produced	0.1 Produced	None Produced	0.1 Produced	None Produced	None Produced	0.2 Produced	None Produced	0.2 Produced	None Produced	None Produced
[illegible]	[illegible]	[illegible]	[illegible]	60.5	67.1	66.7	58.1						
[illegible]	[illegible]	[illegible]	[illegible]	12.7	12.5	11.9	13.0						

COMPANY CORRESPONDENCE

SUBJECT CAMDEN WORKS
MONTHLY ANALYTICAL SUMMARY
PRODUCTION TECHNICAL

TO Production Technical Section

FROM Camden Works

ATTENTION Mr. M.R. Singer
Technical Manager

DATE January 10, 1963

1. Attached is our Monthly Analytical Summary for December 1962.

FILE DISPOSITION CHECK ONE	
3 MOS.	
PERM.	✓
OTHER	
DESTROY	

R.T. Montgomery
Chief Chemist

c/c Mr. C.M. Murphy, Quality Supervisor

RTM:dv

D. DEPT. JAN 14 1963		RFH	HHP
		JJK	CKR
	JRE	SK	MRS
A	RWC	WCK	JRT
B	AOF	CMM	EW
B	JWH	JLM	GMW
MB	AH	JSM	WEW
WB	DLH	RJM	
EB	JDH	RWM	
WC	MRH	JWN	
RSC	RH	RHN	

S.A.

RAW MATERIALS

SILICA SAND

CAMDEN WORKS
1962

QD 157 JAN1463

National Glass Sand Corporation

	Specification		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
[illegible]	[illegible]	Min.	-	-	99.67	-	-	99.69	-	-	99.62	-	-	99.65
[illegible]	0.040	Max.	0.035	0.021	0.032	0.047	0.035	0.034	0.025	0.028	0.029	0.035	0.022	0.027
[illegible]	0.040	"	-	-	0.027	-	-	0.040	-	-	0.035	-	-	0.027
[illegible]	0.050	"	-	-	0.012	-	-	0.012	-	-	0.029	-	-	0.023
[illegible]	0.020	"	-	-	0.011	-	-	0.013	-	-	0.017	-	-	0.019
[illegible]	0.30	"	-	-	0.198	-	-	0.191	-	-	0.171	-	-	0.172

[illegible] Size

[illegible] 20	100%		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
" 40	[illegible]	Min.	[illegible]	[illegible]	77.8	79.7	80.7	80.6	84.6	82.1	81.3	82.2	83.2	82.2
" 100	[illegible]	Max.	1.6	1.6	0.8	1.3	2.3	1.5	3.8	2.6	3.8	2.9	2.4	2.9

[illegible] - Penna. Pulverizing (Newport, N.J.)

[illegible]	99.5	Min.	-	-	99.64	-	-	99.64	-	-	99.62	-	-	99.62
[illegible]	0.040	Max.	0.019	0.019	0.030	0.020	0.023	0.022	0.022	0.022	0.023	0.020	0.020	0.018
[illegible]	0.040	"	-	-	0.032	-	-	0.035	-	-	0.038	-	-	0.030
[illegible]	0.050	"	-	-	0.011	-	-	0.016	-	-	0.024	-	-	0.026
[illegible]	0.020	"	-	-	0.012	-	-	0.027	-	-	0.018	-	-	0.016
[illegible]	0.30	"	-	-	0.165	-	-	0.171	-	-	0.167	-	-	0.185

[illegible] Size

[illegible] 20	100%		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
" 40	90%	Min.	82.4	82.9	84.2	84.1	82.8	80.0	82.1	82.2	72.9	78.0	76.6	77.3
" 100	2%	Max.	4.5	2.2	1.1	2.3	3.1	1.6	2.4	2.6	1.2	2.8	2.3	2.1

RAW MATERIALS

LIQUID CAUSTIC SODA

Specifications		Jan.	Feb.	Mar.	Apr.	Mercury Cell: May	A.C.S. June	July	Aug.	A.C.S. Sept.	Oct.	Nov.	A.C.S. Dec.
38.75%	Min.	-	-	38.39	-	-	38.34	-	-	38.31	-	-	38.43
0.25	Max.	-	-	0.11	-	-	0.11	-	-	0.10	-	-	0.12
0.0025	Max.	-	-	0.001	-	-	0.001	-	-	0.001	-	-	0.001
Water White		-	-	-	-	-	-						

SODA ASH LIGHT

58.0%	Min.	-	-	58.0	-	-	58.0	-	-	58.0	-	-	58.0
0.003	Max.	-	-	0.002	-	-	0.002	-	-	0.003	-	-	0.003

SILICA SAND

Jesse S. Morie & Son, Inc.

99.5%	Min.	-	-	99.62	-	-	99.60	-	-	99.61	-	-	99.60
0.040	Max.	0.025	0.025	0.025	0.023	0.020	0.023	0.024	0.026	0.027	0.026	0.027	0.025
0.040	"	-	-	0.023	-	-	0.024	-	-	0.027	-	-	0.024
0.050	"	-	-	0.014	-	-	0.016	-	-	0.032	-	-	0.025
0.020	"	-	-	0.016	-	-	0.014	-	-	0.016	-	-	0.016
0.30	"	-	-	0.186	-	-	0.180	-	-	0.182	-	-	0.208

Mesh

30	100%		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
40	90%	Min.	73.8	26.4	78.0	80.2	73.5	79.4	78.8	77.7	73.1	76.2	74.2	77.0
100	2%	Max.	2.0	2.0	2.0	2.0	1.2	1.7	2.6	2.4	3.0	4.0	3.7	1.9

SODIUM SILICATE

Product Code 183-1	Specification	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Be @ 68°F	38.0 ± .5	38.4	None Pro-duced	36.0	None Pro-duced	None Pro-duced	None Pro-duced	38.2	None Pro-duced	38.5	None Pro-duced	None Pro-duced	None Pro-duced
Na2O	8.10 ± .1	8.20		8.00				8.15		8.10			
SiO2	26.3 ± .3	26.60		26.10				26.50		26.38			
Ratio	1:3.25 ± .03	3.24		3.26				3.25		3.26			
Product Code 184-1													
Be @ 68°F	40.25 ± .25	40.3	40.3	40.3	40.4	40.3	40.3	40.2	40.3	40.2	None Pro-duced	40.4	40.3
Na2O	8.75 ± .10	8.73	8.68	8.70	8.75	8.70	8.66	8.65	8.67	8.64		8.70	8.72
SiO2	28.4 ± .30	28.25	28.21	28.20	28.41	28.27	28.30	28.11	28.26	28.11		28.40	28.34
Ratio	1:3.25 ± .03	3.26	3.25	3.24	3.25	3.25	3.27	3.25	3.26	3.25		3.26	3.25
Product Code 185 S-1													
Be @ 68° F	41.0 ± .2	41.3	41.2	41.1	41.2	40.9	41.0	41.1	41.1	41.2	41.2	41.2	41.2
Transmission	70% Min.	76%	78%	83%	83%	84%	79%	79%	78.0	80%	79%	80%	80%
Na2O	8.85 ± .25	8.89	8.87	8.85	8.94	8.84	8.85	8.83	8.85	8.85	8.88	8.90	8.92
SiO2	28.84 ± .64	28.80	28.83	28.73	29.04	28.70	28.72	28.73	28.76	28.82	28.86	28.93	29.00
Ratio	1:3.25 ± .03	3.24	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.26	3.25	3.25	3.25
Fe2O3	0.015% Max.	0.008	0.008	0.007	0.007	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
Al2O3	0.017% Max.	0.009	0.008	0.009	0.011	0.011	0.012	0.010	0.010	0.010	0.009	0.008	0.009
CaO	0.01% Max.	0.005	0.004	0.005	0.007	0.006	0.006	0.007	0.006	0.004	0.004	0.005	0.007
MgO	0.01% Max.	0.005	0.006	0.006	0.009	0.009	0.007	0.008	0.007	0.010	0.008	0.008	0.010

CAMDEN WORKS
1962

SODIUM SILICATE

[illegible]	Specification	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
[illegible]	42.25 ± .25	42.4	42.3	42.5	None	42.4	None	42.4	42.2	None	42.4	42.5	42.5
	9.2 ± .1	9.21	9.16	9.20	Pro-	9.16	Pro-	9.20	9.18	Pro-	9.18	9.21	9.20
	29.9 ± .3	29.97	29.69	29.85	duced	29.81	duced	29.90	29.90	duced	29.84	29.96	29.74
	1:3.25 ± .03	3.25	3.24	3.24		3.25		3.25	3.26		3.25	3.25	3.23
[illegible] Code 192													
[illegible]° F		None	40.3	40.2	None	40.2	None	None	40.5	None	40.5	None	None
		Pro-	8.47	8.50	Pro-	8.49	Pro-	Pro-	8.55	Pro-	8.52	Pro-	Pro-
		duced	28.72	28.73	duced	28.67	duced	duced	29.00	duced	28.96	duced	duced
			3.39	3.38		3.38			3.39		3.40		
[illegible] Code 196-1													
[illegible]° F	47.0 ± .5	None	47.0	None	47.2	47.1	None	None	47.2	47.0	None	47.2	None
	11.1 ± .20	Pro-	11.13	Pro-	11.20	10.91	Pro-	Pro-	11.20	10.98	Pro-	11.30	Pro-
	31.40 ± .60	duced	31.58	duced	31.84	31.15	duced	duced	31.80	31.40	duced	31.80	duced
	1:2.84 ± .03		2.84		2.84	2.86			2.84	2.86		2.81	
[illegible] Code 198 F-1													
[illegible]° F	42.25 ± .25	42.4	42.4	42.5	42.4	42.5	42.5	None	42.3	42.3	42.5	42.5	None
[illegible]ssion, [illegible] filter, Min. 94%		97	98	98	98	98	97	Pro-	97	98	97	96	Produced
	10.8 ± .20	10.85	10.85	10.[illegible]	11.00	10.[illegible]	10.87	duced	10.83	10.71	10.90	11.00	
	27.4 ± .50	27.52	27.40	27.50	27.85	27.18	27.70		27.51	27.52	27.48	27.90	
	1:2.54 ± .04	2.54	2.52	2.53	2.53	2.51	2.55		2.54	2.57	2.52	2.54	

	Specification	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
	52.0 ± .5	None Produced	52.1	52.4	None Produced	52.2	52.0	None Produced	52.1	None Produced	52.1	None Produced	52.4
	13.95 ± .20		13.72	13.90		13.80	13.72		13.90		13.80		13.90
	33.0 ± .50		33.16	33.20		33.20	33.20		33.40		33.00		33.40
	1:2.40 ±		2.42	2.39		2.41	2.42		2.40		2.39		2.40
Code 202-1													
	60.25 ± .25	None Produced	None Produced	None Produced	None Produced	None Produced	None Produced	60.3	None Produced	None Produced	None Produced	None Produced	None Produced
	18.10 ± .20							18.15					
	36.20 ± .5							36.23					
	1:2.00 ± .05							2.00					
Code 205-1													
	49.0 ± .5	49.2	49.1	49.1	49.3	None Produced	49.2	49.2	49.3	None Produced	49.5	49.3	None Produced
	13.1 ± .2	13.24	13.30	13.20	13.10		13.16	13.0	13.19		13.30	13.20	
	30.8 ± .5	31.06	30.91	30.80	30.50		31.00	30.4	31.15		30.80	30.80	
	1:2.35 ± .03	2.35	2.32	2.33	2.33		2.36	2.34	2.36		2.32	2.33	

Specification	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
[illegible] Min.	100.21	100.31	100.27	100.38	100.07	100.21	100.14	100.10	100.10	100.04	100.10	100.21
[illegible] ± .02	0.974	0.972	0.973	0.973	0.975	0.975	0.975	0.975	0.975	0.976	0.975	0.974
29.[illegible] ± .3	29.30	29.33	29.32	29.35	29.26	29.30	29.28	29.27	29.27	29.25	29.27	29.30
28.[illegible] ± .3	28.55	28.50	28.53	28.56	28.54	28.56	28.55	28.55	28.54	28.54	28.54	28.53
[illegible] ± .4 Max.	41.69	41.70	41.70	41.64	41.70	41.67	41.69	41.68	41.75	41.71	41.69	41.70
0.01 Max.	0.008	0.005	0.006	0.006	0.007	0.006	0.008	0.006	0.007	0.008	0.006	0.008
[illegible] Cloudy	Sl.Cl.	Sl.Cl.	Sl.Cl.	Sl.Cl.	Sl.Cl.	Sl.Cl.	Sl.Cl.	Sl.Cl.	Sl.Cl.	Sl.Cl.	Sl.Cl.	Sl.Cl.
0.01 Max.	0.005	0.006	0.003	0.003	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003
White	White	White	White	White	White	White	White	White	White	White	White	White
[illegible]												
Min. 1.0	0.2	0.0	0.0	0.6	0.0	None	None	None	0.8	None	None	None
Max. 40.0	24.3	33.6	49.6	44.8	46.7	Pro-	Pro-	Pro-	50.2	Pro-	Pro-	Pro-
Min. 25.0	62.3	45.6	36.8	41.3	37.6	duced	duced	duced	37.2	duced	duced	duced
[illegible]												
[illegible] 10 [illegible] Max.	0.0	0.2	0.1	None	0.2	0.2	0.2	0.2	0.2	None	0.0	0.2
[illegible] 15 ± 15	82.4	65.3	65.5	Pro-	73.8	66.5	83.2	77.3	81.8	Pro-	79.9	86.8
[illegible] 25 ± 15	16.3	33.0	32.7	duced	25.6	32.9	16.2	22.1	17.6	duced	19.6	12.7
[illegible] Max.	0.4	0.7	0.7		0.4	0.3	0.3	0.2	0.2		0.4	0.2
[illegible] .86g/cc Min.	.875	.868	.881		.872	.860	.877	.878	.860		.869	.865
[illegible]												

SODIUM METASILICATE

CAMDEN WORKS
1962

Specification	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1.5% Max.	0.8	0.4	0.3	0.3	0.3	0.4	0.3	0.4	0.4	0.3	0.2	0.5
80.% Min.	84.0	84.0	82.7	80.9	75.8	82.7	77.5	82.3	88.3	91.7	92.0	91.4
30.% Max.	12.6	13.7	15.2	16.9	22.7	15.8	21.0	16.0	10.8	7.6	7.4	7.7
3.% Max.	2.6	1.8	1.8	1.9	1.2	1.1	1.2	1.3	0.5	0.4	0.4	0.4
[illegible]												
1% Max.	None Produced	None Produced	None Produced	0.4	0.2	None Produced	None Produced	None Produced	None Produced	None Produced	None Produced	None Produced
1% Max.				0.3	0.4							
[illegible] Max.	0.0	None Produced	0.0	0.3	None Produced	None Produced	0.1	None Produced	0.2	0.0	None Produced	None Produced
75% Max.	65.4		66.5	69.1			66.7		63.8	70.4		
10 ± 5%	11.5		9.6	10.2			11.7		11.0	11.6		

COMPANY CORRESPONDENCE

SUBJECT CAMDEN WORKS
MONTHLY ANALYTICAL SUMMARY
PRODUCTION TECHNICAL

TO Production Technical Section

ATTENTION Mr. J. W. Ferguson
Technical Supervisor

FROM Camden Works

DATE January 8, 1964

QD 241 JAN1364

RESTRICTED
DISCLOSURE OR REPRODUCTION
WITHOUT AUTHORIZATION OF
GENERAL CHEMICAL PROHIBITED

1. Attached is our Monthly Analytical Summary for December 1963.

R. T. Montgomery
Chief Chemist

c/c Mr. C. M. Murphy, Quality Supervisor, Morristown

RTM:dv

PROD. DEPT. JAN 9 1964		MRH	JWN
		RFH	RHM
JRE		RHH	HHP
JWA	RWC	JJK	CKR
ECB	JCD	SK	MRS
JHB	WE	WCK	JRT
JMB	AOF	CMM	EW
KWB	JWF	JLM	GMW
REB	AH	JSM	KNW
FWC	DLH	RJM	WEW
RSC	JEH	RWM	

UD 24. JAN 1964

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	-	99.65	-		99.64	-	-	99.65	-	-	99.63
[illegible]	0.058	[illegible]	0.033	0.042	0.030	0.048	None	0.028	0.029	0.044	0.035	0.062	0.030	0.031
[illegible]	[illegible]	[illegible]	[illegible]	-	0.022	-	Rec'd.	0.029	-	-	0.036	-	-	0.030
[illegible]	[illegible]	[illegible]	[illegible]	-	[illegible]	-		0.028	-	-	0.028	-	-	0.019
[illegible]	[illegible]	[illegible]	[illegible]	-	[illegible]	-		0.019	-	-	0.018	-	-	0.024
[illegible]	[illegible]	[illegible]	[illegible]	-	0.199	-		0.199	-	-	0.199	-	-	0.181
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	100.	100.	-	100.	100.	100.	100.	100.0	100.	100.
[illegible]	[illegible]	[illegible]	[illegible]	98.5	98.5	98.4	-	97.9	99.0	98.2	97.9	98.0	98.4	98.0
[illegible]	[illegible]	[illegible]	[illegible]	85.8	81.9	83.0	-	85.5	86.0	85.0	85.6	87.2	83.9	84.9
[illegible]	[illegible]	[illegible]	[illegible]	4.4	1.5	2.0	-	4.1	3.0	2.9	4.4	3.9	3.1	4.3

RAW MATERIALS

[illegible]

CAMDEN WORKS
1963

[illegible]

[illegible]	[illegible]	[illegible]	Apr.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
[illegible]	[illegible]	[illegible]	-	-	99.69	-	-	99.58	-	-	99.62	-	-	99.65
[illegible]	0.058	Mean	0.031	0.028	0.027	0.028	0.028	0.027	0.028	0.026	0.026	0.025	0.025	0.026
[illegible]	[illegible]	"	-	-	0.023	-	-	0.023	-	-	0.020	-	-	0.021
[illegible]	[illegible]	"		-	0.028	-	-	0.024	-	-	0.031	-	-	0.022
[illegible]	[illegible]	"	-	-	0.016	-	-	0.020	-	-	0.020	-	-	0.027
[illegible]	0.30	"	-	-	0.160	-	-	0.214	-	-	0.188	-	-	0.172
[illegible]														
[illegible]	100		100	100	100	100.	100.	100.0	100.	100.	100.	100.0	100	100.
[illegible]	[illegible]	[illegible]	[illegible]	97.6	95.3	95.8	96.2	95.0	93.7	94.3	88.1	89.4	90.9	87.1
[illegible]	[illegible]	"	73.3	76.4	69.5	72.1	74.3	76.4	74.2	74.7	72.7	71.2	72.6	76.4
[illegible]	[illegible]	[illegible]	2.4	2.9	1.9	2.3	2.1	3.9	3.1	3.2	3.2	2.9	2.3	3.6

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	-	-	99.65	-	-	99.62	-	-	99.66	-	-	99.63
[illegible]	[illegible]	[illegible]	0.022	0.023	0.021	0.021	0.022	0.021	0.022	0.021	0.021	0.020	0.018	0.020
[illegible]	[illegible]	"	-	-	0.052	-	-	0.022	-	-	0.052	-	-	0.031
[illegible]	[illegible]	"	-	-	[illegible]	-	-	[illegible]	-	-	0.027	-	-	0.020
[illegible]	[illegible]	"	-	-	[illegible]	-	-	[illegible]	-	-	[illegible]	-	-	0.022
[illegible]	[illegible]	"	-	-	0.155	-	-	0.205	-	-	0.169	-	-	0.200
[illegible]														
[illegible]	100.		100.	100.0	100.	100.	100.0	100.0	100.	100.	100.	100.0	100	100.
[illegible]	[illegible]	[illegible]	[illegible]	97.8	97.3	97.7	97.2	98.9	97.5	98.0	97.6	97.3	97.5	98.1
[illegible]	[illegible]	"	[illegible]	75.2	77.6	76.8	75.3	80.3	83.2	81.3	83.0	82.8	80.9	84.6
[illegible]	[illegible]	[illegible]	[illegible]	2.6	2.6	2.6	2.8	3.8	2.9	3.3	3.9	4.1	3.8	4.2

CAMPBELL WORKS
1962

RAW MATERIAL

LIQUID CAUSTIC SODA

[illegible]	[illegible]	[illegible]	[illegible]	Mar.	[illegible]	[illegible]	[illegible]	July	[illegible]	[illegible]	[illegible]	[illegible]	Dec.
[illegible] %	[illegible]	-	-	0.12	-	-	-	-	-	-	-	-	-
[illegible] %	[illegible]	-	-	38.30	-	-	-	-	-	-	-	-	-
[illegible]	[illegible]	-	-	50.1	-	-	-	-	-	-	-	-	-
[illegible]	-	-	-	-	-	-	-	-	-	-	-	-	-

[illegible]							Mercury Cell						
[illegible] %	[illegible]	-	-	0.01	-	-	0.02	-	-	0.01	-	-	0.02
[illegible] %	[illegible]	-	-	39.60	-	-	38.85	-	-	38.95	-	-	39.12
[illegible]	[illegible]	-	-	51.0	-	-	50.3	-	-	50.4	-	-	50.5
[illegible]	-	-	-	-	-	-	-	-	-	-	-	-	-

SODA ASH LIGHT

[illegible]													
[illegible] %	[illegible]	-	-	58.0	-	-	58.0	-	-	58.0	-	-	58.0
[illegible] %	[illegible]	-	-	0.003	-	-	0.002	-	-	0.002	-	-	0.003

[illegible]	[illegible]	None Pro-duced	None Pro-duced	None Pro-duced	None Pro-duced	None Pro-duced	None Pro-duced	None Pro-duced	None Pro-duced	None Pro-duced	None Pro-duced	None Pro-duced	None Pro-duced
[illegible]	[illegible]	None Pro-duced	None Pro-duced	None Pro-duced	38.5 8.30 26.50 3.24	38.2 [illegible] 26.36 3.25	None Pro-duced	38.3 8.13 26.35 3.24	None Pro-duced	None Pro-duced	None Pro-duced	None Pro-duced	None Pro-duced
[illegible]	[illegible]	40.4 8.75 28.44 3.25	None Pro-duced	40.5 [illegible] 28.40 3.23	40.5 8.83 28.58 3.23	40.4 8.80 28.60 3.25	None Pro-duced	40.5 8.65 28.63 3.24	40.5 8.64 28.58 3.23	40.4 8.82 28.60 3.24	40.5 8.85 28.64 3.24	None Pro-duced	40.5 8.83 28.70 3.25

		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	41.2	41.2	41.2
		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	76	76	76	[illegible]	75	74	75
		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	8.92	9.02	[illegible]	9.00	9.05	9.05	9.06
		[illegible]	29.10	[illegible]	[illegible]	[illegible]	29.02	28.91	[illegible]	29.20	29.28	29.40	29.43
		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.75	3.86	[illegible]	3.24	3.24	3.25	3.25
		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.008	0.007	[illegible]	0.009	0.006	0.007	0.008
		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.008	0.007	[illegible]	0.008	0.006	0.009	0.009
		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.008	[illegible]	0.007	0.008	0.008	0.008
		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.009	[illegible]	[illegible]	0.007	0.008	0.009
[illegible]													
		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	42.5	None	42.4	None	42.5	42.5	42.4
		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	9.25	Pro-	[illegible]	Pro-	9.32	9.30	9.27
		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	29.90	duced	[illegible]	duced	30.00	30.17	30.13
		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.25		[illegible]		3.25	3.24	3.25

[illegible]	[illegible] min.	50.2	49.9	None	None
[illegible]	[illegible]	14.90	15.05	Pro-	Pro-
[illegible]	[illegible]	29.95	29.80	duced	duced
[illegible]	[illegible]	[illegible]	1.95		

	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	None Produced	[illegible]	None Produced	None Produced	None Produced	[illegible] 8.47 28.99 3.42	None Produced	None Produced	None Produced	None Produced	None Produced
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	None Produced	None Produced
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	42.5	42.3	42.5	42.5	42.3	42.5	42.5	42.5	42.4	42.5	42.4
[illegible]	[illegible]	11.00	[illegible]	[illegible]	11.00	10.90	10.96	[illegible]	10.94	10.94	11.00	11.00
[illegible]	[illegible]	27.89	27.75	27.52	27.70	27.60	27.75	[illegible]	27.70	27.62	27.87	27.83
[illegible]	[illegible]	2.53	2.53	2.51	2.52	2.53	2.53	2.53	2.53	2.52	2.53	2.53
[illegible]	[illegible]	96	96	96	97	97	96	96	97	97	97	96	96

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	None	[illegible]	None	[illegible]	[illegible]	52.2	52.5	None	52.3	52.5	None
	[illegible]	[illegible]	Pro-	[illegible]	Pro-	[illegible]	[illegible]	13.95	13.95	Pro-	13.83	13.93	Pro-
	[illegible]	[illegible]	duced	[illegible]	duced	[illegible]	[illegible]	33.11	33.43	duced	33.20	33.45	duced
	[illegible]	[illegible]		[illegible]		[illegible]	[illegible]	2.39	2.40		2.40	2.40	
[illegible]													
	[illegible]	[illegible]	None	None	[illegible]	60.4	None	None	None	60.4	None	None	None
	[illegible]	[illegible]	Pro-	Pro-	[illegible]	[illegible]	Pro-	Pro-	Pro-	[illegible]	Pro-	Pro-	Pro-
	[illegible]	[illegible]	duced	duced	[illegible]	[illegible]	duced	duced	duced	[illegible]	duced	duced	duced
	[illegible]	[illegible]			2.01	2.01				1.99			
[illegible]													
[illegible]	[illegible]	[illegible]	49.3	49.5	None	49.5	49.3	None	49.2	49.5	49.1	49.3	49.5	None
	[illegible]	[illegible]	[illegible]	13.30	Pro-	13.30	13.20	Pro-	13.01	13.27	13.11	13.30	13.27	Pro-
	[illegible]	[illegible]	[illegible]	31.30	duced	30.93	31.00	duced	30.44	31.18	31.08	31.30	31.24	duced
	[illegible]	[illegible]	[illegible]	2.35		2.33	2.34		2.34	2.35	2.37	2.35	2.35	
[illegible]													
	[illegible]	[illegible]								44.1	44.0	44.1	44.0	43.9
	[illegible]	[illegible]								10.55	10.58	10.65	10.70	10.68
	[illegible]	[illegible]								29.00	29.34	29.30	29.37	29.26
	[illegible]	[illegible]								2.75	2.77	2.75	2.75	2.74

[illegible]

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	.975	.975	.977	.976	.975	.977	.977	.975	.976	.975	.974	.974
[illegible]	[illegible]	[illegible]	29.30	29.26	29.23	29.27	29.26	29.27	29.25	29.28	29.29	29.34	29.32	29.33
[illegible]	[illegible]	[illegible]	28.58	28.54	28.56	28.56	28.5[illegible]	28.60	28.57	28.55	28.58	28.61	28.57	28.56
[illegible]	[illegible]	[illegible]	41.67	41.71	41.76	41.67	41.70	41.67	41.69	41.67	41.66	41.66	41.71	41.69
[illegible]	[illegible]	[illegible]	0.008	0.008	0.007	0.008	0.007	0.007	0.008	0.008	0.007	0.006	0.006	0.007
[illegible]	[illegible]	[illegible]	0.003	0.005	0.004	0.006	0.003	0.004	0.003	0.003	0.003	0.002	0.003	0.003
[illegible]														
[illegible]	[illegible]	[illegible]	0.3	[illegible]	[illegible]	0.6	0.4	0.5	0.5	0.5	0.2	0.2	0.2	0.3
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	94.2	94.3	[illegible]	[illegible]	93.9	94.0	91.9	90.6	90.0
[illegible]	[illegible]	[illegible]	6.0	6.0	5.6	4.9	5.1	2.2	6.0	5.4	5.6	7.6	8.9	9.3
[illegible]	[illegible]	[illegible]	0.3	0.5	0.4	0.3	0.2	0.3	0.3	0.2	0.2	0.3	0.3	0.4
[illegible]														
[illegible]	[illegible]	[illegible]	[illegible]	1.0	None Produced	0.8	None Produced	0.6	None Produced	0.1	0.1	0.2	None Produced	0.0
[illegible]	[illegible]	[illegible]	[illegible]	47.9		49.2		48.2		48.5	42.4	42.8		49.7
[illegible]	[illegible]	[illegible]	[illegible]	40.9		46.8		42.2		42.8	37.9	37.6		41.0

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	0.2	0.1	0.2	0.2	0.4	0.4	0.2	0.2	0.1	0.2	0.2
[illegible]	[illegible]	[illegible]	[illegible]	74.6	75.0	81.2	82.1	78.5	80.1	73.2	73.5	71.3	74.5	75.3
[illegible]	[illegible]	[illegible]	[illegible]	24.6	23.6	18.2	17.3	20.8	18.7	26.1	25.9	28.3	24.7	23.7
[illegible]	[illegible]	[illegible]	[illegible]	0.8	0.6	0.3	0.3	0.2	0.6	0.3	0.2	0.2	0.4	0.6
[illegible]	[illegible]	[illegible]	[illegible]	.879	.872	.870	.868	.868	.869	.863	.869	.866	.896	.885

[illegible]

[illegible]	[illegible]	[illegible]	None Pro-duced	None Pro-duced	None Pro-duced	None Pro-duced	None Pro-duced	None Pro-duced	None Pro-duced	None Pro-duced	None Pro-duced	None Pro-duced	None Pro-duced	None Pro-duced

[illegible]

[illegible]	[illegible]	[illegible]	[illegible]	None	0.1	None	0.1	None	None	0.2	None	0.2	None	None
[illegible]	[illegible]	[illegible]	[illegible]	Pro-duced	60.5	Pro-duced	67.1	Pro-duced	Pro-duced	66.7	Pro-duced	58.1	Pro-duced	Pro-duced
[illegible]	[illegible]	[illegible]	[illegible]		12.7		12.5			11.9		13.0		

COMPANY CORRESPONDENCE

TO DIV:	General Chemical	FROM DIV:	General Chemical
LOCATION:	Quality Section - Morristown	LOCATION:	Camden Works
ATT'N OF:	Mr. C.M.Murphy, Quality Supervisor	DATE:	January 11, 1966
SUBJECT:	Monthly Analytical Summary		

RESTRICTED
DISCLOSURE OR REPRODUCTION
WITHOUT AUTHORIZATION OF
GENERAL CHEMICAL DIVISION

1. Attached is our Monthly Analytical Summary for December, 1965.

R. T. Montgomery
Chief Chemist

RTM/a
Enc.

PROD. DEPT. JJK QKR
JAN 13 1966 WCK AHG
WCR SK CDS
JWA JWF CMM JLS
MJA WLF JLM EVT
HFB CLH JSM JRT
WAB DLH RJM EW
CEB JEH RWM GMW
REB MRH JWN WEW
FMC RHH RHN
FWC GHJ HHP
JCD GRJ CAR

QD 315 JAN 13 66

RAW MATERIALS

SILICA SAND

CAMDEN WORKS

1965

[illegible] Sand Conservation

	Specification		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
	99.[illegible]	[illegible]		-	99.66	-	-	99.67	-	-	99.65	-	-	99.65
	0.0[illegible]	[illegible]	[illegible]	0.030	0.030	0.030	0.030	0.030	0.029	0.040	0.035	0.027	0.031	0.031
	0.0[illegible]	[illegible]	-	-	0.023	-	-	0.030	-	-	0.033	-	-	0.023
	0.05	[illegible]	-	-	0.020	-	-	0.026	-	-	0.029	-	-	0.027
	0.0[illegible]	[illegible]	-	-	0.024	-	-	0.026	-	-	0.022	-	-	0.024
	0.30	[illegible]	-	-	0.156	-		0.121	-	-	0.154	-	-	0.171

[illegible] Sand

[illegible]0	100.		100	100	100	100	100	100	100	100	100	100	100	100
[illegible]0	99.	[illegible]	[illegible]	92.4	93.6	93.0	94.2	99.0	99.1	99.2	99.1	99.0	99.1	99.2
[illegible]0	85.	[illegible]	83.2	81.5	84.2	83.8	84.4	83.4	82.8	81.8	85.1	83.9	84.6	82.9
[illegible]00	8.	[illegible]	2.6	2.2	3.7	3.5	3.8	2.5	2.6	2.8	2.4	2.7	2.6	2.8

RAW MATERIALS

SILICA SAND

CAMDEN WORKS

1965

	Specification	Max.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
	99.5	Min.	-	-	99.64	-	-	99.62	-	-	99.62	-	-	99.63
	0.030	"	0.025	0.025	0.024	0.024	0.024	0.027	0.026	0.026	0.026	0.023	0.024	0.028
	0.04	"	-	-	0.018	-	-	0.019	-	-	0.020	-	-	0.023
	0.05	"	-	-	0.018	-	-	0.018	-	-	0.020	-	-	0.020
	0.02	"	-	-	0.024	-	-	0.024	-	-	0.021	-	-	0.024
	0.30	"	-	-	0.199	-	-	0.168	-	-	0.178	-	-	0.182
Size														
20	100		100	100	100	100	100	100	100	100	100	100	100	100
30	99	Min.	87.2	85.1	88.9	87.8	88.3	96.8	95.7	95.0	95.9	95.4	94.6	95.0
40	85	"	74.3	72.8	71.6	72.3	71.9	79.5	78.2	77.4	78.9	77.6	78.1	77.5
50	8	Max.	2.6	2.8	2.1	2.4	2.2	4.0	3.9	4.1	3.8	3.9	4.0	3.8

RAW MATERIALS

SILICA SAND

CAMDEN WORKS

1965

r - Penna. Pulverizing (Newport, N.J.)

	Specifications		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
	99.5	Min.	-	-	99.66	-	-	99.67	-	-	99.66	-	-	**99.66**
	0.030	Max.	0.019	0.020	0.019	0.020	0.020	0.020	0.021	0.020	0.021	0.019	0.021	**0.019**
	0.04	"	-	-	0.029	-	-	0.028	-	-	0.030	-	-	**0.031**
	0.05	"	-	-	0.021	-	-	0.017	-	-	0.017	-	-	**0.019**
	0.02	"	-	-	0.021	-	-	0.021	-	-	0.019	-	-	**0.020**
	0.30	"	-	-	0.165	-	-	0.155	-	-	0.171	-	-	**0.188**
n Size														
20	100.		100.	100.	100	100	100	100	100	100.0	100	100	100	**100**
30	99.	Min.	92.4	90.9	95.3	94.6	95.1	99.4	99.0	99.1	98.9	99.0	99.0	**99.1**
40	85.	"	82.3	81.1	87.9	87.1	86.8	86.4	86.9	86.2	87.3	86.8	86.1	**85.3**
100	8.	Max.	3.3	3.5	4.4	3.9	4.2	2.7	3.2	3.0	3.1	3.0	3.1	**3.2**

CAMDEN WORKS

1965

RAW MATERIAL

LIQUID CAUSTIC SODA

8	Specification	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
3%	0.12	-	-	-	-	-	-	-	-	-	-	-	-
	39.25	-	-	-	-	-	-	-	-	-	-	-	-
60°F	50.0	-	-	-	-	-	-	-	-	-	-	-	-
mission	-	-	-	-	-	-	-	-	-	-	-	-	-
8-12													
3%	0.02	-	-	0.01	-	-	0.02	-	-	0.02	-	-	0.02
	39.52	-	-	39.53	-	-	39.38	-	-	39.51	-	-	39.54
60°F	50.8	-	-	50.8	-	-	50.7	-	-	50.8	-	-	50.8
mission													

SODA ASH LIGHT

30													
3	58.0 Min.	-	-	58.0	-	-	58.0	-	-	58.0	-	-	58.0
3	0.003 Max.	-	-	0.002	-	-	0.002	-	-	0.002	-	-	0.002

SODIUM SILICATE

CAMDEN WORKS

1965

[illegible]3 - 1	Specification	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
[illegible]F	38.0 ± .5	None-	None	None	None	None	None	None	None	None	None	None	None
	[illegible].1 ± .1	Pro-	Pro-	Pro-	Pro-	Pro-	Pro-	Pro-	Pro-	Pro-	Pro-	Pro-	Pro-
	2[illegible].3 ± .3	duced	duced	duced	duced	duced	duced	duced	duced	duced	duced	duced	duced
	1:3.25 ± .03												
[illegible]4 - 1													
[illegible]F	40.25 ± .25	None	None	40.5	40.5	40.5	40.5	None	None	None	40.5	40.5	40.4
	8.75 ± .1	Pro-	Pro-	8.83	8.85	8.83	8.85	Pro-	Pro-	Pro-	8.85	8.84	8.83
	28.4 ± .3	duced	duced	28.69	28.73	28.70	28.69	duced	duced	duced	28.65	28.73	28.69
	1:3.25 ± .03			3.25	3.25	3.25	3.25				3.24	3.25	3.25
182-1													
	23.4 ± .2	None Produced					23.44	None	23.55	23.60	None	None	None
	76.1 ± .2						76.28	Pro- duced	76.30	76.20	Pro- duced	Pro- duced	Pro- duce

SODIUM SILICATE

CAMDEN WORKS

1965

-1	Specification	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
	41.0 ± .2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2
ion % 70	Min.	82	80	84	84	82	86	90	88	87	88	88	88
	8.6 - 9.0	9.03	9.04	9.06	9.10	9.02	9.00	9.06	9.04	9.10	9.04	9.03	9.07
	28.30-29.40	29.27	29.45	29.44	29.47	29.43	29.29	29.44	29.40	29.43	29.38	29.30	29.46
	1:3.25 ± .05	3.24	3.26	3.25	3.24	3.26	3.25	3.25	3.25	3.23	3.25	3.25	3.25
	0.015 Max.	0.008	0.009	0.008	0.008	0.008	0.009	0.008	0.008	0.008	0.008	0.007	0.008
	0.017 "	0.009	0.008	0.008	0.012	0.010	0.008	0.007	0.009	0.007	0.008	0.009	0.008
	0.02 "	0.010	0.009	0.010	0.011	0.009	0.009	0.008	0.010	0.010	0.009	0.008	0.010
	0.02 "	0.009	0.010	0.011	0.011	0.010	0.010	0.009	0.011	0.007	0.008	0.009	0.008
-1													
	42.25 ± .25	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	None	42.5	42.5	42.5
	9.2 ± .1	9.28	9.30	9.29	9.30	9.31	9.29	9.29	9.28	Pro-	9.30	9.29	9.28
	29.9 ± .3	30.14	30.20	30.17	30.21	30.20	30.19	30.18	30.22	duced	30.20	30.17	30.15
	1:3.25 ± .03	3.25	3.25	3.25	3.25	3.24	3.25	3.25	3.26		3.25	3.25	3.25

CAMDEN WORKS

1965

SODIUM SILICATE

Specification	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
	None	None	None	40.4	None	40.5	None	None	40.5	None	40.5	40.5
	Pro-	Pro-	Pro-	8.48	Pro-	8.52	Pro-	Pro-	8.46	Pro-	8.56	8.58
	duced	duced	duced	29.21	duced	28.98	duced	duced	28.93	duced	29.12	29.16
				3.44		3.40			3.42		3.40	3.40
- 1												
47.0 ± .5	None	47.5	47.3	47.4	47.3	None	None	None	None	47.2	None	47.5
11.1 ± .2	Pro-	11.28	11.23	11.28	11.10	Pro-	Pro-	Pro-	Pro-	11.31	Pro-	11.30
31.4 ± .6	duced	31.97	31.89	31.96	31.50	duced	duced	duced	duced	32.02	duced	31.97
1:2.84 ± .03		2.83	2.84	2.83	2.84					2.83		2.83
- 1F												
42.25 ± .25	42.5	42.5	42.5	42.5	42.5	42.5		42.5	None	42.5	42.5	42.5
10.8 ± .2	10.95	11.00	10.97	11.00	10.98	11.00	None	10.99	Pro-	11.00	10.95	11.00
27.4 ± .5	27.70	27.88	27.85	27.91	27.89	27.87	Pro-	27.91	duced	27.87	27.79	27.85
1:2.54 ± .04	2.53	2.53	2.54	2.54	2.54	2.53	duced	2.54		2.53	2.54	2.53
d filter % 94 Min.	96	96	96	96	95	96		95		95	96	96

CAMDEN WORKS

1965

SODIUM SILICATE

	Specification	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
	52.0 ± .5	None	52.5	None	None	52.4	None	52.1	None	None	52.2	52.5	None
	13.7 ± .2	Pro-	13.95	Pro-	Pro-	13.93	Pro-	13.80	Pro-	Pro-	13.93	13.95	Pro-
	33.0 ± .5	duced	33.48	duced	duced	33.43	duced	33.20	duced	duced	33.48	33.51	duced
	1:2.40 ± .03		2.40			2.40		2.41			2.40	2.40	
F	60.25 ± .25	None	None	None	None	None	None	None	None	None	None	None	None
	18.1 ± .2	Pro-	Pro-	Pro-	Pro-	Pro-	Pro-	Pro-	Pro-	Pro-	Pro-	Pro-	Pro-
	36.2 ± .5	duced	duced	duced	duced	duced	duced	duced	duced	duced	duced	duced	duced
	1:2.00 ± .5												
F	43.75 ± .5	43.9	44.0	44.0	43.9	43.9	43.9	43.8	43.7	44.0	43.9	None	44.0
	10.5 ± .2	10.70	10.70	10.69	10.65	10.60	10.62	10.70	10.50	10.70	10.69	Pro-	10.70
	28.9 ± .5	29.40	29.36	29.34	29.37	29.00	29.20	29.40	29.20	29.38	29.42	duced	29.35
	1:2.75 ± .04	2.75	2.74	2.74	2.76	2.74	2.75	2.75	2.78	2.75	2.75		2.74

CAMDEN WORKS

1965

SODIUM METASILICATE

	Specification		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
	1.90 - .02		.976	.975	.977	.974	.976	.976	.975	.975	.976	.976	.977	.975
	29.1 ± .3		29.25	29.28	29.26	29.34	29.27	29.30	29.31	29.30	29.30	29.29	29.23	29.30
	28.4 ± .3		28.56	28.55	28.59	28.57	28.58	28.60	28.58	28.57	28.60	28.58	28.56	28.58
	41.6 ± .4		41.70	41.69	41.68	41.64	41.67	41.65	41.66	41.68	41.62	41.63	41.71	41.65
	0.01	Max.	0.006	0.006	0.007	0.006	0.007	0.007	0.007	0.006	0.008	0.007	0.007	0.007
ble %	0.01	Max.	0.002	0.002	0.004	0.003	0.003	0.003	0.002	0.002	0.003	0.002	0.003	0.002
Size														
on 16%	1.0	Max.	0.5	0.8	0.5	0.1	0.1	0.3	0.4	0.4	1.0	1.0	0.2	0.2
on 40%	60.0	Min.	92.6	93.7	92.3	94.2	78.6	70.9	74.8	75.0	79.4	76.0	91.0	88.3
on 60%	30.0	Max.	6.6	5.2	6.8	5.4	20.4	26.3	22.0	22.6	16.6	20.1	7.9	11.1
%	3.0	Max.	0.3	0.3	0.4	0.3	0.9	2.5	2.8	2.0	3.0	2.9	0.9	0.4
B-1														
on 40%	1.0	Max.	0.3	None	None	None	0.1	None	None	None	0.8	None	None	None
on 80%	50.	Max.	47.0	Pro-	Pro-	Pro-	25.9	Pro-	Pro-	Pro-	49.8	Pro-	Pro-	Pro-
%	25.	Min.	38.9	duced	duced	duced	36.8	duced	duced	duced	38.6	duced	duced	duced

CAMDEN WORKS

1965

SODIUM METASILICATE

U.F	Specification Per Cent	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
on 20	3% Max.	2.0	1.8	1.1	0.9	1.0	1.0	1.0	1.0	1.0	1.0		1.0
on 30		38.8	41.5									None	
on 40		30.7	29.6									Pro-	
on 60		27.2	24.6									duced	
	3 Max.	2.3	2.5	2.5	0.6	2.8	2.9	3.0	3.2	3.0	3.0		3.1
	1 Max.			0.9	0.5	1.0	1.0	0.9	1.0	1.0	1.0		1.1
C-1													
on 12	2.0 Max.	0.2	0.3	0.2	0.2	0.2	0.1	0.3	0.6	0.4	0.5	0.2	0.3
on 30	45 ± 20	61.1	66.2	61.0	60.0	64.7	60.8	60.9	66.2	70.0	74.3	66.6	65.1
on 60	30 ± 10	31.0	27.3	32.0	33.3	32.1	32.2	35.0	27.9	23.5	19.6	26.6	28.6
on 80	10 ± 5	7.0	5.5	6.4	6.0	2.5	5.9	3.2	4.8	5.6	5.1	5.9	5.3
on 100	5 Max.	.3	.2	0.2	0.2	0.2	0.5	0.3	0.3	0.2	0.2	0.3	0.3
on 200	.5 Max.	.4	.5	0.2	0.3	0.3	0.5	0.3	0.2	0.3	0.3	0.4	0.4
	0 Max.	0	0	0	0	0	0	0	0	0	0	0	0
g/cc	0.91 Min.	.90	.91	.905	.905	.906	.905	.900	.901	.905	.905	.906	.905

CAMDEN WORKS

1965

SODIUM METASILICATE

[illegible] V	Specification Per Cent	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
[illegible] 25	1. Max.	0.2	0.6	0.3	0.4	0.4	1.0	0.5	0.8	0.4	0.6	0.5	0.4
on 30		19.1	28.7										
on 40		38.4	45.6										
on 60		39.4	23.6										
	3. Max.	2.9	1.5	1.0	0.7	2.8	3.0	2.9	3.1	3.0	3.0	3.2	3.1
	2. Max			0.4	0.4	0.8	1.0	0.5	0.8	0.4	0.4	1.0	0.8
[illegible] S													
on 30	1. Max	0.3	0.4	0.4	0.4	0.5	0.6	0.4	0.3	0.2	1.0	0.2	0.5
on 40		48.8	44.9										
on 60		47.5	52.0										
	3. Max.	3.4	2.7	2.2	1.5	3.0	3.0	3.0	3.1	3.1	3.0	3.1	3.0
	2. Max			0.4	0.4	1.0	0.8	0.8	0.8	1.0	0.4	0.7	0.5

COMPANY CORRESPONDENCE

ORIGINAL (pg)
Disclosure or reproduction without authorization of General Chemical prohibited

TO DIV: Industrial Chemicals

LOCATION: Quality Section - Morristown

ATT'N OF: Mr. C. M. Murphy, Manager

SUBJECT: MONTHLY ANALYTICAL SUMMARY

FROM DIV: Industrial Chemicals

LOCATION: Camden Works

DATE: January 6, 1967

1. Attached is our Monthly Analytical Summary for December, 1966.

R. T. Montgomery
Chief Chemist

RTM/a

		[illegible]	[illegible]	-	99.63	-	-	99.65	-	-	**99.63**
	[illegible]	[illegible]	[illegible]	-	0.029	-	0.037	0.032	0.031	0.034	**0.033**
		[illegible]	[illegible]	-	0.027	-	-	0.028	-	-	**0.028**
		[illegible]	[illegible]	-	0.022	-	-	0.026	-	-	**0.026**
		[illegible]	[illegible]	-	0.023	-	-	0.022	-	-	**0.023**
					[illegible]	-	-	0.176	-	-	**0.178**
		[illegible]	[illegible]	-	100	-	100	100	100	100	**100**
		[illegible]	[illegible]	-	99.0	-	98.3	98.0	99.0	99.0	**99.1**
	[illegible]	[illegible]	[illegible]	-	80.6	-	82.1	81.4	82.6	82.3	**83.4**
	3.0	[illegible]	[illegible]	-	[illegible]	-	3.0	3.1	3.3	3.4	**3.1**

[illegible]	[illegible]	[illegible]	[illegible]	99.68	-	-	99.65	-	-	99.64	-	-	**99.64**
[illegible]	[illegible]	[illegible]	[illegible]	0.026	0.026	-	0.027	-	0.025	0.027	0.026	0.026	**0.026**
[illegible]	[illegible]	[illegible]	[illegible]	0.027	-	-	0.030	-	-	0.030	-	-	**0.029**
[illegible]	[illegible]	[illegible]	[illegible]	0.027	-	-	0.028	-	-	0.028	-	-	**0.028**
[illegible]	[illegible]	[illegible]	[illegible]	0.022	-	-	0.021	-	-	0.022	-	-	**0.022**
[illegible]	[illegible]	[illegible]	[illegible]	0.172	-	-	0.160	-	-	0.171	-	-	**0.178**
[illegible]	[illegible]	[illegible]	[illegible]	100	100	-	100	-	100	100	100	100	**100**
[illegible]	[illegible]	[illegible]	[illegible]	95.0	93.8	-	92.9	-	93.1	92.4	91.9	92.1	**91.3**
[illegible]	[illegible]	[illegible]	[illegible]	76.9	75.2	-	73.9	-	74.5	76.7	75.8	76.1	**75.7**
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.7	-	3.0	-	2.8	2.9	2.6	2.5	**2.4**

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	June	July	Aug.	Sept.	[illegible]	Nov.	Dec.
[illegible]	[illegible]	[illegible]	99.66	-	-	99.66	-	-	99.65	-	-	99.65
[illegible]	[illegible]	[illegible]	[illegible]	0.018	-	0.018	-	0.020	0.020	0.019	0.018	0.019
[illegible]	[illegible]	[illegible]	0.031	-	-	0.032	-	-	0.033	-	-	0.030
[illegible]	[illegible]	[illegible]	[illegible]	-	-	0.020	-	-	0.026	-	-	0.026
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	0.020	[illegible]	-	0.022
[illegible]	[illegible]	[illegible]	[illegible]	-	-	[illegible]	-	-	0.200	-	-	0.168
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	100	-	100	100	100	100	100
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	97.7	-	97.9	96.3	95.6	95.0	95.2
[illegible]	[illegible]	[illegible]	[illegible]	84.0	-	83.3	-	84.6	81.9	80.6	80.0	80.4
[illegible]	[illegible]	[illegible]	3.2	3.0	-	3.3	-	3.4	3.0	2.8	2.6	2.7

			0.02			0.02			0.02			0.02
			39.53			39.53			39.53			39.53
			[illegible]			[illegible]			50.8			50.8
			[illegible]			58.0			58.0			58.0
			0.002			0.002			0.002			0.002

	[illegible]	[illegible]	[illegible]	None	None	None	None	None	None	38.5	None
	Pro-	Pro-	Pro-	Pro-	Pro-	Pro-	Pro-	Pro-	Pro-	8.24	Pro-
	duced	duced	duced	duced	duced	duced	duced	duced	duced	26.62	duced
										3.23	
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	None	[illegible]	None	[illegible]	[illegible]	None
	[illegible]	[illegible]	[illegible]	Pro-	8.86	Pro-	8.87	Pro-	8.88	8.85	Pro-
	[illegible]	[illegible]	[illegible]	duced	28.73	duced	28.74	duced	28.77	28.71	duced
	[illegible]	[illegible]	[illegible]		3.24		3.24		3.24	3.24	
	None	None	None	None	None	None	None	None	None	None	None
	Pro-	Pro-	Pro-	Pro-	Pro-	Pro-	Pro-	Pro-	Pro-	Pro-	Pro-
	duced	duced	duced	duced	duced	duced	duced	duced	duced	duced	duced

[illegible]

[illegible]

[illegible]

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	41.3	None	41.4	None	41.5	41.5	41.5	41.5	None
[illegible]	[illegible]	9.09	9.11	9.10	Pro-	9.12	Pro-	9.12	9.10	9.11	9.12	Pro-
[illegible]	[illegible]	[illegible]	29.53	29.50	duced	29.52	duced	29.58	29.52	29.64	29.55	duced
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		3.24		3.24	3.24	3.25	3.24	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	None	[illegible]	None	42.5	42.5	42.5	42.5	None
[illegible]	[illegible]	9.29	[illegible]	9.31	Pro-	9.32	Pro-	9.33	9.31	9.30	9.32	Pro-
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	duced	30.23	duced	30.28	30.26	30.22	30.24	duced
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		3.24		3.25	3.25	3.25	3.25	
40-41	[illegible]	[illegible]	[illegible]	None	None	40.7	None	40.7	None	40.7	40.8	None
8.40-8.70	[illegible]	8.59	8.63	Pro-	Pro-	8.72	Pro-	8.70	Pro-	8.71	8.70	Pro-
28.6-29.2	[illegible]	[illegible]	[illegible]	duced	duced	29.64	duced	29.90	duced	29.88	29.70	duced
3.40±.03		3.40	3.40			3.40		3.44		3.43	3.41	

None	None	None	None	47.4	None	47.5	None	47.5	47.1	None
Pro-	Pro-	Pro-	Pro-	11.32	Pro-	11.35	Pro-	11.33	11.20	Pro-
duced	duced	duced	duced	32.09	duced	32.23	duced	32.22	31.80	duced
				2.84		2.84		2.84	2.84	

[illegible]	[illegible]	[illegible]	49.1	49.1	None	49.1	49.2	49.2	49.1	None
12.42	[illegible]	12.44	12.45	12.45	Pro-	12.48	12.50	12.45	12.46	Pro-
32.[illegible]	32.[illegible]	32.[illegible]	32.30	32.43	duced	32.45	32.50	32.42	32.52	duced
[illegible]	[illegible]	2.59	2.59	2.60		2.60	2.60	2.60	2.61	

None	[illegible]	42.5	42.5	42.5	None	42.5	42.5	None	None	None
Pro-	11.[illegible]	11.00	11.00	11.03	Pro-	11.04	11.01	Pro-	Pro-	Pro-
duced	27.90	27.90	27.88	27.94	duced	27.98	27.95	duced	duced	duced
	2.53	2.53	2.53	2.53		2.53	2.54			
	96	96	96	96		96	96			

	None	52.5	52.5	52.5	None	None	52.5	None	None	52.3	None
	None	14.00	14.00	13.92	Pro-	Pro-	14.04	Pro-	Pro-	14.00	Pro-
	duced	33.52	33.66	33.46	duced	duced	33.58	duced	duced	33.53	duced
		2.40	2.40	2.40			2.39			2.40	
	None	None	None	None	None	None	None	None	None	None	None
	Pro-	Pro-	Pro-	Pro-	Pro-	Pro-	Pro-	Pro-	Pro-	Pro-	Pro-
	duced	duced	duced	duced	duced	duced	duced	duced	duced	duced	duced
	44.0	44.0	44.0	44.0	44.0	None	44.0	44.1	44.1	44.0	None
	10.70	10.68	10.72	10.74	10.73	Pro-	10.76	10.75	10.70	10.70	Pro-
	29.36	29.41	29.48	29.43	29.49	duced	29.48	29.46	29.40	29.44	duced
	2.74	2.75	2.75	2.74	2.75		2.74	2.74	2.75	2.75	

[illegible]	[illegible]	[illegible]	.975	.974	.976	.977	.977	.977	.977	.977
[illegible]	[illegible]	[illegible]	29.32	29.30	29.33	29.35	29.37	29.33	29.29	29.28
[illegible]	[illegible]	[illegible]	28.60	28.55	28.63	28.67	28.68	28.66	28.61	28.61
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	41.59	41.55	41.50	41.56	41.65	41.63
[illegible]	[illegible]	[illegible]	0.007	0.008	0.008	0.009	0.008	0.008	0.008	0.007
[illegible]	[illegible]	[illegible]	0.002	0.002	0.002	0.002	0.002	0.003	0.002	0.003
[illegible]	[illegible]	[illegible]	[illegible]	0.7	0.4	0.6	0.3	0.3	0.2	0.2
[illegible]	[illegible]	[illegible]	91.9	88.3	88.1	[illegible]	75.0	75.3	70.9	72.0
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10.5	7.4	23.2	23.2	27.0	26.1
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.0	0.5	1.5	1.2	1.9	1.7
[illegible]	[illegible]	None	None	None	0.7	None	None	None	0.5	None
Pro-	[illegible]	Pro-	Pro-	Pro-	49.7	Pro-	Pro-	Pro-	35.7	Pro-
duced	[illegible]	duced	duced	duced	29.2	duced	duced	duced	51.8	duced

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.4	0.6	0.9	0.5	0.4	**0.9**
[illegible]	[illegible]	[illegible]	[illegible]	61.6	54.3	66.7	72.8	58.4	64.7	**64.0**
[illegible]	[illegible]	[illegible]	34.8	32.0	36.2	26.3	20.6	34.9	28.5	**29.0**
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	8.3	5.5	5.1	5.5	6.0	**5.6**
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.3	0.4	0.3	0.4	0.2	**0.3**
[illegible]	[illegible]	[illegible]	0.5	[illegible]	0.3	0.5	0.3	0.3	0.2	**0.2**
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	0	0	0
[illegible]	.906	[illegible]	.905	.906	.905	.905	.905	.908	.905	**.905**

[illegible]	[illegible]	[illegible]	[illegible]	1.3	1.1	1.2	None	1.2	1.2	**1.1**
[illegible]	[illegible]	[illegible]	[illegible]	2.1	3.0	3.1	Pro-	3.3	3.1	**3.2**
[illegible]	[illegible]	[illegible]	1.0	1.0	1.1	0.7	duced	1.2	1.1	**1.2**

	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	0.6	0.9	0.4	0.4	1.1	1.1	1.1	None
[illegible]	[illegible]	3.3	3.2	3.2	3.1	3.2	3.3	3.4	3.3	Pro-
[illegible]	0.6	[illegible]	1.0	1.1	1.0	1.0	0.5	0.9	1.0	duced
	[illegible]	[illegible]	[illegible]	1.0	1.0	1.1	None	0.7	1.1	None
[illegible]	[illegible]	[illegible]	[illegible]	3.2	3.1	3.2	Pro-	3.2	3.1	Pro-
[illegible]	0.6	[illegible]	1.0	0.9	1.1	0.4	duced	0.8	1.1	duced

[illegible]

[illegible]

[illegible]

[illegible]dor - National Glass Sand Corporation

[illegible]	Specification		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	-	-	[illegible]	-	-	99.65	-		99.65	-	-	99.64
[illegible]3	0.030	[illegible]	-	-	0.028	-	-	0.028	-	None	0.034	-	-	0.030
[illegible]	[illegible]	[illegible]	-	-	[illegible]	-	-	0.024	-		0.026	-	-	0.022
[illegible]	[illegible]	[illegible]	-	-	0.025	-	-	0.020	-	Reed.	0.022	-	-	0.022
[illegible]	[illegible]	[illegible]	-	-	0.022	-	-	0.024	-		0.025	-	-	0.026
[illegible]	[illegible]	[illegible]	-	-	[illegible]	-	-	0.191	-		0.190	-	-	0.182

[illegible]on [illegible]

[illegible]	20	100.		-	-	100	-	-	100	-	-	100	-	-	100
[illegible]	30	99.	Min.	-	-	94.8	-	-	93.8	-	-	93.3	-	-	93.0
[illegible]	40	85.	Min.	-	-	82.4	-	-	81.3	-	-	82.6	-	-	81.0
[illegible]	100	3.	Max.	-	-	2.0	-	-	1.9	-	-	1.7	-	-	1.6

RAW MATERIALS
SILICA SAND

Supplier - Jesse S. Morle & Son, Inc.

[illegible]-1	Specification		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	[illegible]
[illegible]	99.5	Min.	-	-	99.62	-	-	99.62	-		99.64	-	-	99.62
[illegible]	0.030	Max.	-	-	0.032	-	-	0.034	-	None	0.031	-	-	0.036
[illegible]	0.04	Max.	-	-	0.024	-	-	0.026	-		0.025	-	-	0.024
[illegible]	0.05	Max.	-	-	0.030	-	-	0.026	-	Recd.	0.027	-	-	0.025
[illegible]	0.02	Max.	-	-	0.026	-	-	0.024	-		0.026	-	-	0.023
[illegible]	0.30	Max.	-	-	0.178	-	-	0.186	-		0.182	-	-	0.186
[illegible] Size														
[illegible] 20	100.		-	-	100	-	-	100	-	-	100	-	-	100
[illegible] 30	99.	Min.	-	-	83.8	-	-	82.6	-	-	84.6	-	-	81.4
[illegible] 40	85.	Min.	-	-	70.5	-	-	70.0	-	-	72.0	-	-	70.6
[illegible] 100	8.	Max.	-	-	1.1	-	-	0.9	-	-	0.8	-	-	0.7

RAW MATERIALS

SILICA SAND

Vendor - Penna. Pulverizing (Newport, N.J.)

Mineral	Specification		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
[illegible]%	99.5	Min.	-		99.67	-	-				99.68	-	-	99.67
[illegible]03	0.030	Max.	-		0.019	-	-	None	None	None	0.020	-	-	0.020
[illegible]03	0.04	Max.	-		0.033	-	-				0.032	-	-	0.028
[illegible]	0.05	Max.	-		0.024	-	-	Rec'd.	Rec'd.	Rec'd.	0.023	-	-	0.022
	0.02	Max.	-		0.020	-	-				0.022	-	-	0.024
[illegible]03	0.30	Max.	-		0.165	-	-				0.158	-	-	0.164
Screen Size														
Thru 20	100.				100	-	-	-	-	-	100	-	-	100
Thru 30	99.	Min.	-		90.8	-	-	-	-	-	91.6	-	-	91.1
Thru 40	85.	Min.	-		81.4	-	-	-	-	-	82.5	-	-	82.0
Thru 100	8.	Max.	-		2.2	-	-	-	-	-	2.4	-	-	1.9

RAW MATERIAL

LIQUID CAUSTIC SODA

Grade 8-12 Blend	Specification	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	[illegible]
[illegible]03%	0.02	-	-	0.02	-	-	0.02	-	-	0.02	-	-	[illegible]
[illegible]0	39.58	-	-	39.49	-	-	39.49	-	-	39.63	-	-	[illegible]
[illegible] 60° F	50.8	-	-	50.8	-	-	50.8	-	-	50.9	-	-	[illegible]

SODA ASH LIGHT

[illegible] 330

[illegible]%	58.0 Min.	-	-	58.0	-	-	58.0	-	-	58.0	-	-	58.0
[illegible]203	0.003 Max.	-	-	0.001	-	-	0.001	-	-	0.001	-	-	0.001

SODIUM SILICATE

182 - 1	Specification	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	[illegible]	[illegible]	[illegible]
68° F	40.25 ± .25	40.5	40.3	None Produced	40.3	40.4	None Produced	None Produced	None Produced	None Produced	40.3	None Produced	[illegible]
	8.75 ± .1	8.83	8.80		8.77	8.80					8.75		
	28.4 ± .3	28.65	28.60		28.50	28.50					28.50		
	1:3.25 ± .03	3.25	3.25		3.25	3.24					3.26		
186 - 1													
68° F	41.25 ± 2.5	42.2	42.2	42.2	42.2	41.3	41.3	41.3	None Produced	41.3	41.2	41.3	[illegible]
	9.0 ± .1	8.96	8.89	8.89	8.96	8.99	8.98	9.00		9.10	8.98	[illegible]	[illegible]
	29.2 ± .3	29.35	29.10	29.02	29.12	29.13	29.20	29.26		29.52	29.27	[illegible]	[illegible]
	1:3.25 ± .03	3.25	3.27	3.26	3.25	3.24	3.25	3.25		3.24	3.26	[illegible]	[illegible]
189 - 1													
68° F	42.25 ± .25	None Produced	None Produced	42.3	42.4	42.4	42.5	42.5	None Produced	None Produced	42.5	42.5	[illegible]
	9.2 ± .1			9.17	9.22	9.28	9.26	9.27			9.26	[illegible]	[illegible]
	29.9 ± .3			[illegible]	30.00	30.03	30.20	30.22			30.19	[illegible]	[illegible]
	1:3.25 ± .03			3.26	3.25	3.24	3.26	3.26			3.26	[illegible]	

SODIUM SILICATE

Code 192	Specification	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	[illegible]	[illegible]
Be @ 68° F		None Produced	40.3	40.8	40.9	40.8	40.6	40.8	None Produced	None Produced	None Produced	40.3	None Produced
Na2O%			8.42	8.55	8.60	8.55	8.50	8.56				8.50	
SiO2			28.82	29.07	29.10	29.03	29.02	29.31				29.00	
Ratio			3.42	3.40	3.38	3.40	3.41	3.40				3.40	

Code 196 - 1

Be @ 68° F	47.0 ± .5	None Produced	None Produced	46.9	None Produced	None Produced	None Produced	None Produced	None Produced	None Produced	47.0	None Produced	47.[illegible]
Na2O%	11.1 ± .2			11.20							11.30		11.[illegible]
SiO2	31.4 ± .6			31.81							32.10		31.[illegible]
Ratio	1:2.84 ± .03			2.84							2.84		2.85

Code 198 - 1F

Be @ 68° F	42.25 ± .25	42.3	None Produced	42.6	None Produced	None Produced	42.5	42.5	None Produced	42.5	42.5	42.5	42.5
Na2O%	10.8 ± .2	10.80		11.03			11.00	10.94		11.00	11.10	11.00	11.00
SiO2	27.4 ± .5	27.41		27.91			27.92	27.80		27.91	28.20	28.00	28.00
Ratio	1:2.54 ± .04	2.54		2.53			2.54	2.54		2.54	2.54	2.55	2.[illegible]
Trans. Red filter	% 94 Min.	96		96			96	96		96	96	96	[illegible]

SODIUM SILICATE

200 - 1	Specification		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
68° F	52.0	± .5	None	52.3	52.2	None	None	None	None	None	52.4	None	None	[illegible]
	13.75	± .2	Pro-	13.80	13.75	Pro-	Pro-	Pro-	Pro-	Pro-	13.93	Pro-	Pro-	13.[illegible]
	33.0	± .5	duced	33.10	32.95	duced	duced	duced	duced	duced	33.43	duced	duced	[illegible]
	1:2.40	± .03		2.40	2.40						2.40			[illegible]
202 - 1														
68° F	52.3	± .5	52.4	52.1	52.2	52.4	52.3	52.5	52.5	None	52.4	52.3	[illegible]	
	15.[illegible]	± .2	15.95	15.40	15.20	15.40	15.40	15.50	15.65	Pro-	15.62	15.50	15.[illegible]	
	31.16	± .5	31.11	30.80	30.60	30.80	31.00	30.60	31.61	duced	31.40	31.00	31.[illegible]	
	1:2.00	± .03	2.01	2.00	2.00	2.00	2.01	2.04	2.02		2.01	2.00	2.[illegible]	
208 - 1														
68° F	43.75	± .5	None	43.7	44.0	44.0	None	43.9	None	None	44.2	44.1	[illegible]	
	10.5	± .2	Pro-	10.50	10.60	10.60	Pro-	10.60	Pro-	Pro-	10.70	10.60	10.[illegible]	
	28.9	± .5	duced	28.80	28.94	28.90	duced	29.40	duced	duced	29.43	29.15	29.[illegible]	
	1:2.75	± .04		2.74	2.73	2.73		2.77			2.75	2.75	2.[illegible]	

SODIUM META SILICATE

331 J-1	Specification		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	
[illegible]	1.98	± .02	.975	.976	.976	.977	.976	.976	.976	.977	.977	.977	[illegible]
[illegible]	29.1	± .3	29.33	29.32	29.34	29.35	29.34	29.37	29.37	29.33	29.35	29.30	[illegible]
[illegible]	28.2	± .3	28.60	28.62	28.64	28.67	28.63	28.66	28.67	28.65	28.67	28.4[illegible]	[illegible]
[illegible]	41.6	± .4	41.60	41.60	41.55	41.[illegible]	41.56	41.51	41.51	41.57	41.53	41.61	[illegible]
[illegible]	0.01	Max.	[illegible]	0.010	0.010	0.010	0.010	0.011	0.011	0.011	0.011	0.010	[illegible]
[illegible] Soluble %	0.01	Max.	0.004	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	[illegible]
[illegible] on Size													
on 16%	1.0	Max.	None	0.3	0.2	0.3	0.3	0.3	0.4	0.5	0.4	0.3	[illegible]
[illegible] 16 on 40%	60.0	Min.	Pro-	73.0	73.6	76.1	77.2	71.5	71.2	84.0	72.5	73.3	[illegible]
[illegible] 40 on 60%	30.0	Max.	duced	24.5	24.3	21.5	20.3	26.0	26.2	14.9	25.7	24.2	[illegible]
[illegible] 60%	3.0	Max.		2.2	1.9	2.1	2.2	2.2	2.2	0.6	1.4	2.2	[illegible]
[illegible] 331 B-1													
on 40%	1.0	Max.	0.1	0.6	None	0.1	None	0.4	0.4	None	None	None	None
Thru 40 on 80%	50.	Max.	54.6	51.1	Pro-	33.7	Pro-	52.1	52.2	Pro-	Pro-	Pro-	[illegible]
Thru 100%	25.	Min.	35.6	37.5	duced	43.5	duced	35.0	25.0	duced	duced	duced	[illegible]

SODIUM METASILICATE

Code 331 C-1	Specification Per Cent	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		
on 12	2.0 Max.		0.6	0.5			1.3				None	[illegible]	[illegible]
[illegible] 12 on 30	45 ± 20	None	60.8	63.9	None	None	70.7	None	None	None	Pro-	[illegible]	[illegible]
[illegible] 30 on 60	30 ± 10	Pro-	32.9	31.8	Pro-	Pro-	25.0	Pro-	Pro-	Pro-	duced	[illegible]	[illegible]
[illegible] 60 on 80	10 ± 5	duced	4.2	2.8	duced	duced	2.5	duced	duced	duced		[illegible]	[illegible]
[illegible] 80 on 100	5. Max.		0.8	0.6			0.2					[illegible]	[illegible]
[illegible] 100 on 200	.5 Max.		0.7	0.4			0.3					[illegible]	[illegible]
[illegible]sity g/cc	0.91 Min.		.906	.890			.863					[illegible]	[illegible]

Code 331 F	Specification Per Cent	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		
on 20	1% Max.	1.4	7.3	8.7	9.5	9.9	None	8.1	8.2	10.7	15.7	9.0	11.
[illegible] 60	3 Max.	3.3	12.2	5.4	5.2	5.8	Pro-	9.5	11.3	8.6	9.8	6.4	4.
[illegible] 80	1 Max.	1.4	3.7	2.0	2.7	1.8	duced	2.1	3.1	1.3	[illegible]	0.7	[illegible]

SODIUM METASILICATE

[illegible] 331 S	Specification Per Cent	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	[illegible]	[illegible]
[illegible] 30	1. Max	None	0.4	0.2	0.3	1.8	0.6	None	None	None	1.3	None	None
[illegible] 60	2. Max.	Pro-	5.6	9.1	8.1	9.5	7.7	Pro-	Pro-	Pro-	10.8	Pro-	Pro-
[illegible] 100	1. Max.	duced	[illegible]	[illegible]	[illegible]	0.5	0.4	duced	duced	duced	0.2	duced	duced
[illegible] 331 [illegible]													
[illegible] 25	1. Max.	None	0.[illegible]	None	[illegible]	0.9	0.5	None	None	None	None	1.6	1.2
[illegible]	2. Max	[illegible]	2.6	Pro-	9.4	9.8	9.2	Pro-	Pro-	Pro-	Pro-	6.4	4.7
100	1. Max.	duced	2.3	duced	2.2	1.5	1.2	duced	duced	duced	duced	0.7	0.6

RAW MATERIALS

SILICA SAND

National Glass Sand Corporation

	Specification		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
[illegible]	99.5	Min.	-	-	99.63	-	-	99.62	-	-	-	-	-	99.53
[illegible]	0.02	Max.	-	-	0.020	-	-	0.022	-	-	-	-	-	0.020
[illegible]	[illegible]	Max.	-	-	0.024	-	-	0.026	-	-	-	-	-	0.027
[illegible]	0.02	Max.	-	-	0.022	-	-	0.024	-	-	-	-	-	0.024
[illegible]	0.02	Max.	-	-	0.023	-	-	0.025	-	-	-	-	-	0.025
[illegible]	0.20	Max.	-	-	0.182	-	-	0.175	-	-	-	-	-	0.172

Grain size

[illegible]	20	100.		-	-	100	-	-	100	-	-	-	-	100
[illegible]	30	99.	Min.	-	-	95.4	-	-	96.1	-	-	-	-	96.2
[illegible]	40	85.	Min.	-	-	81.9	-	-	82.9	-	-	-	-	83.0
[illegible]	100	5.	Max.	-	-	2.1	-	-	1.6	-	-	-	-	1.3

CALIFORNIA
SOLICA DAM

[illegible]

[illegible]	Coating	[illegible]	[illegible]	Max.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible]

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]		[illegible]	[illegible]	100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	100
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	82.2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	81.0
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	70.9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	70.0
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.8

[illegible]

[illegible]

[illegible] (Newport, N.J.)

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	Min.	-	-	99.6[illegible]	-	-	99.64	-	-	-	-	-	[illegible]
[illegible]	[illegible]	Max.		-	0.020	-	-	0.020	-	-	-	-	-	0.020
[illegible]	[illegible]	Max.		-	0.03[illegible]	-	-	0.033	-	-	-	-	-	0.03[illegible]
[illegible]	[illegible]	Max.	-	-	0.022	-	-	0.020	-	-	-	-	-	0.0[illegible]
[illegible]	[illegible]	Max.		-	0.023	-	-	0.021	-	-	-	-	-	0.022
[illegible]	0.[illegible]0	Max.	-	-	0.149	-	-	0.158	-	-	-	-	-	0.14[illegible]

[illegible] Size

[illegible]	20	100.		-	-	100	-	-	100	-	-	-	-	-	100
[illegible]	30	99.	Min.	-	-	91.0	-	-	90.6	-	-	-	-	-	90.[illegible]
[illegible]	[illegible]	85.	Min.	-	-	83.0	-	-	83.2	-	-	-	-	-	82.[illegible]
[illegible]	100	8.	Max.	-	-	2.0	-	-	1.9	-	-	-	-	-	1.6

[illegible]

[illegible]

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	0.02	[illegible]	[illegible]	0.02	[illegible]	[illegible]	[illegible]	[illegible]	[illegible] 0.02
[illegible]	[illegible]	[illegible]	39.63	[illegible]	[illegible]	39.63	[illegible]	[illegible]	[illegible]	[illegible]	[illegible] 39.63
[illegible]	[illegible]	[illegible]	50.9	[illegible]	[illegible]	50.9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible] 50.9

[illegible]

[illegible]	[illegible]	[illegible]	58.0	[illegible]	[illegible]	58.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible] 58.0
[illegible]	[illegible]	[illegible]	0.001	[illegible]	[illegible]	0.001	[illegible]	[illegible]	[illegible]	[illegible]	[illegible] 0.001

[illegible]

SODIUM SILICATE

[illegible]	Specification	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	[illegible]	[illegible]		
[illegible] @ 68° F	40.25 ± .25	40.2	40.3	None Produced	None Produced	40.3	40.4	None Produced	None Produced	None Produced	None Produced	[illegible]	[illegible]
[illegible]	8.75 ± .3	8.70	8.75			8.75	8.75					[illegible]	[illegible]
[illegible]	28.4 ± .3	28.30	28.60			28.40	28.44					[illegible]	[illegible]
[illegible]	1:3.25 ± .03	3.25	3.27			3.25	3.25					[illegible]	[illegible]

[illegible]

[illegible] @ 68° F	41.25 ± 1.5	41.2	41.2	41.4	41.2	41.3	41.3	41.2	None Produced	None Produced	None Produced	[illegible]	[illegible]
[illegible]	9.0 ± .3	8.94	8.94	9.03	8.94	9.00	9.00	8.94				[illegible]	[illegible]
[illegible]	29.2 ± .3	29.06	29.23	29.09	29.06	29.25	29.23	29.08				[illegible]	[illegible]
[illegible]	1:3.25 ± .03	3.25	3.27	3.22	3.25	3.25	3.25	3.25				3.24	[illegible]

Code 189 - 1

Be @ 68° F	42.25 ± .25	None Produced	42.4	42.4	42.4	42.5	42.5	None-Produced	None Produced	None Produced	None Produced	42.3	42.[illegible]
Na_2O%	9.2 ± .1		9.25	9.25	9.25	9.28	9.28					[illegible]	[illegible]
SiO_2	29.9 ± .3		30.23	30.06	30.06	30.16	30.16					[illegible]	[illegible]
Ratio	1:3.25 ± .03		3.27	3.25	3.25	3.25	3.25					[illegible]	[illegible]

SODIUM SILICATE

122	Specification	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	[illegible]	[illegible]
[illegible]		40.4	40.6	40.7	None Produced	40.5	40.2	None Produced	None Produced	None Produced	None Produced	None Produced	None Produced
		8.45	8.60	8.60		8.50	8.45						
		28.73	29.50	29.40		29.36	28.73						
		3.40	3.43	3.42		3.43	3.40						
[illegible]													
[illegible]	47.0 ± .5	None Produced	None Produced	47.2	47.2	None Produced	None Produced	None Produced	None Produced	None Produced	47.2	None Produced	None Produced
	11.2 ± .2			11.30	11.28						11.30		
	31.6 ± .6			32.02	32.04						32.10		
	1:2.84 ± .03			2.83	2.84						2.84		
[illegible]													
[illegible] 68° F	42.25 ± .25	None Produced	42.4	None Produced	None Produced	None Produced	None Produced	None Produced	None Produced	None Produced	42.5	None Produced	None Produced
[illegible]	10.8 ± .2		11.00								11.00		
[illegible]	27.4 ± .5		28.20								27.90		
[illegible]	1:2.54 ± .04		2.56								2.54		
Trans. Red filter % 94 Min.			96										

SODIUM SILICATE

[illegible]	Specification	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	[illegible]		
[illegible]	52.0 ± .5	None Pro-duced	52.3	None Pro-duced	52.2	None Pro-duced	52.5	None Pro-duced	None Pro-duced	None Pro-duced	52.5	None	52.[illegible]
	13.75 ± .5		13.90		13.80		13.90				13.90	Pro-	13.9[illegible]
	33.0 ± .5		33.80		33.26		33.50				33.40	duced	33.[illegible]
	1[illegible].40 ± .02		2.[illegible]		2.[illegible]		2.[illegible]				2.40		[illegible]
[illegible]													
[illegible]	43.75 ± .5	43.8	None Pro-duced	44.0	44.1	None Pro-duced	44.1	None Pro-duced	None Pro-duced	None Pro-duced	44.0	44.3	44.5
	10.5 ± .2	10.50		10.60	10.64		10.70				10.70	10.73	10.6[illegible]
	28.9 ± .5	28.88		29.20	29.37		29.40				29.40	29.30	29.3[illegible]
[illegible]	1.82.75 ± .04	2.75		2.75	2.76		2.75				2.75	2.73	2.7[illegible]

SODIUM METASILICATE

[illegible]	Specification		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	[illegible]		
	1:98	± .02	9.75	.977	.974	.976	.974	.977	.975	.975	.973	.975	[illegible]	[illegible]
	29.1	± .3	29.35	29.37	29.35	29.37	29.33	29.36	29.38	29.36	29.40	29.38	[illegible]	[illegible]
	28.2	± .3	28.62	28.69	28.60	28.67	28.69	28.68	28.65	28.64	28.60	[illegible]	[illegible]	[illegible]
	41.6	± .3	41.55	41.51	41.59	41.50	41.55	41.51	41.50	41.53	41.54	41.52	41.55	[illegible]
	0.01	Max.	0.010	0.010	0.009	0.009	0.009	0.008	0.008	0.008	0.008	0.009	0.010	[illegible]
[illegible]	0.01	Max.	0.003	0.004	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.005	[illegible]
[illegible]														
on 16%	1.0	Max.	0.2	0.2	0.4	0.6	0.5	0.5	0.3	0.6	0.9	0.5	1.1	[illegible]
[illegible] on 40%	60.0	Min.	76.2	73.7	75.6	77.9	73.5	74.7	74.0	79.3	76.1	73.7	77.[illegible]	81.[illegible]
40 on 60%	30.0	Max.	21.4	24.0	22.3	20.2	24.8	22.7	24.0	18.6	21.3	23.6	19.[illegible]	26.[illegible]
60%	3.0	Max.	2.2	2.1	1.7	1.3	1.2	2.1	1.7	1.5	1.7	2.2	1.8	1.[illegible]
[illegible] 331 B-1														
on 40%	1.0	Max.	0.2	None	None	0.3	None	0.9	None	None	0.6	None	None	0.[illegible]
[illegible] 40 on 80%	50.	Max.	36.0	Pro-	Pro-	30.0	Pro-	34.8	Pro-	Pro-	33.3	Pro	Pro-	25.[illegible]
[illegible] 100%	25.	Min.	42.5	duced	duced	41.5	duced	36.8	duced	duced	43.4	duced	duced	[illegible]

SODIUM METASILICATE

[illegible]	Specification Per Cent	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	[illegible]		
[illegible]	2.0 Max.	0.5	1.2		0.7	0.9	1.2	None	None	2.2	None	None	None
[illegible]	45 ± 20	72.6	81.6	None	61.4	59.0	71.4			71.2			
[illegible]	30 ± 20	23.0	15.1	Pro-	32.7	33.6	26.1	Pro-	Pro-	24.1	Pro-	Pro-	Pro-
[illegible]	10 ± 5	3.0	[illegible]	duced	[illegible]	[illegible]	0.9	duced	duced	1.9	duced	duced	duced
[illegible]	[illegible]	0.2	0.3		0.5	0.8	0.2			0.3			
[illegible]	[illegible]	0.4	0.3		0.4	0.3	0.2			0.3			
[illegible]	0.[illegible] Max.	.790	.890		.868	.843	.860			.812			

[illegible]													
[illegible] 20	1% Max.	10.0	9.3	4.1	0.7	2.6	None	8.4	None	None	11.4	9.7	None
[illegible] 60	3 Max.	5.5	5.7	1.6	3.7	0.9	Pro-	1.7	Pro-	Pro-	7.5	2.[illegible]	Pro-
[illegible] 80	1 Max.	2.3	2.5	0.8	2.3	0.5	duced	0.4	duced	duced	2.8	1.6	[illegible]

SODIUM METASILICATE

Code 331 S	Specification Per Cent	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
on 30	1. Max.	None	0.5	None	None	None	None	None	None	None	None	None	None
Thru 60	3. Max.	Pro-	10.9	Pro	Pro-	Pro-	Pro-	Pro-	Pro-	Pro-	Pro-	Pro-	Pro-
Thru 100	1. Max.	duced	0.5	duced	duced	duced	duced	duced	duced	duced	duced	duced	duced

Code 331 V													
on 25	1. Max.	1.3	0.9	None	None	None	1.6	None	None	None	None	0.8	1.6
Thru 60	3. Max.	9.5	8.7	Pro	Pro-	Pro-	12.2	Pro-	Pro-	Pro-	Pro-	12.7	8.0
Thru 100	1. Max.	1.4	1.5	duced	duced	duced	0.5	duced	duced	duced	duced	1.5	0.7

DELAWARE VALLEY WORKS PLANT

The information contained in this attachment has been removed pursuant to a claim of Confidential Business Information.

ORIGINAL (Red)

FRANKFORD PLANT

Plant Visit

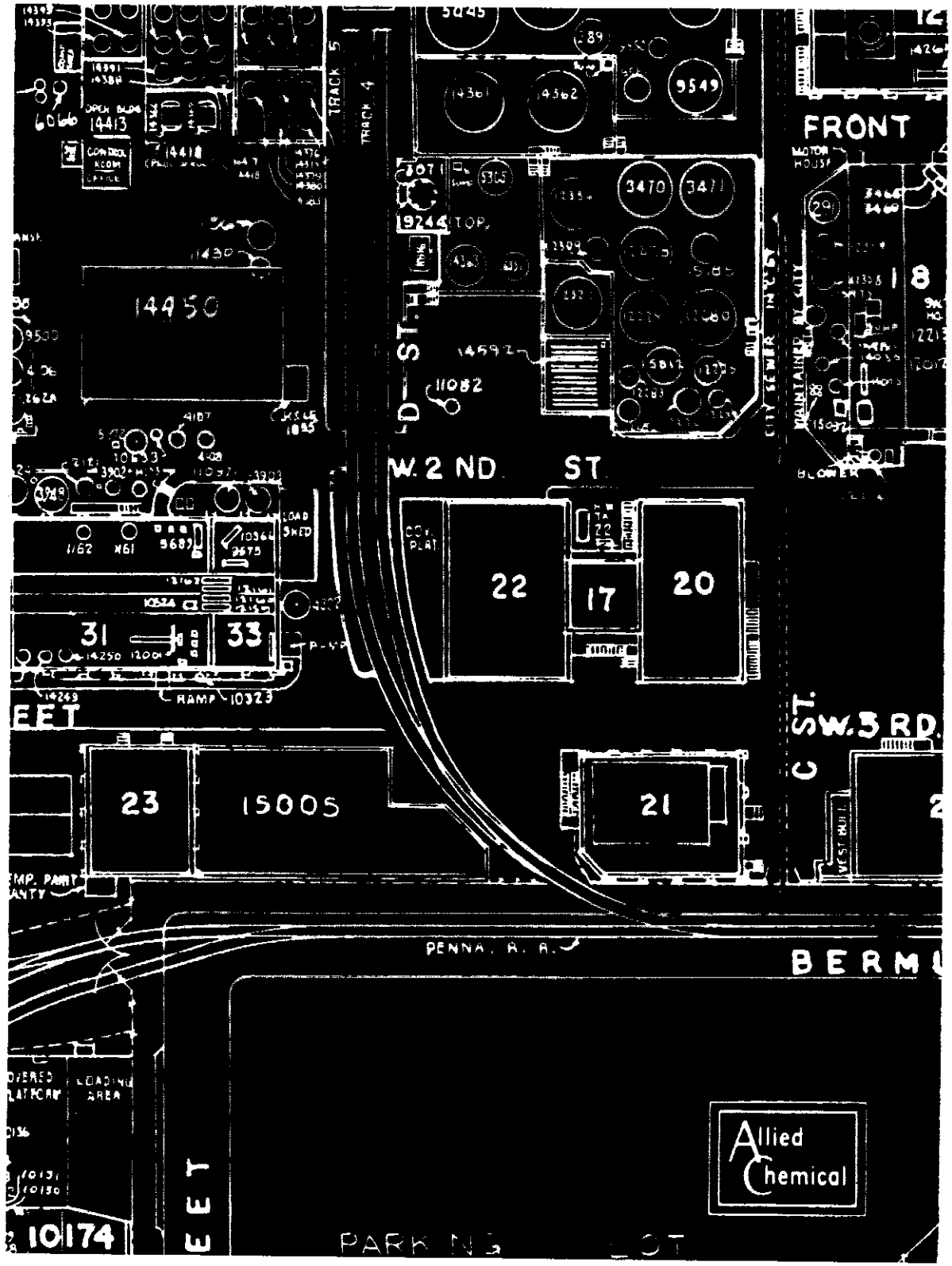
B. L. OECHSLI

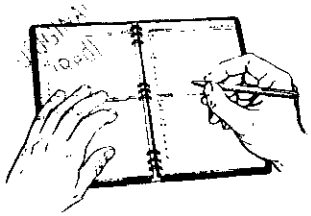
PLASTICS DIVISION

FRANKFORD PLANT

PHILA., PA.

March 18, 1974





Frankford Facts

As of March 1, 1974

ACREAGE	38.8 Acres
CENSUS – TOTAL	316
Bargaining Unit (O.C.A.W.)	244
G.O. Salary & Plant Salary	72
INVESTMENT – GROSS	$49.7 MM
INVESTMENT – NET	$16.0 MM
MAJOR PRODUCTS AND CAPACITY	
Phenol	486 MM Lb/Yr
Acetone	292 MM Lb/Yr
Alphamethylstyrene	12 MM Lb/Yr
Cumene Hydroperoxide	5 MM Lb/Yr
RAW MATERIAL	
Cumene	680 MM Lb/Yr
AVERAGE AGE	51 Yrs
AVERAGE YEARS OF EMPLOYMENT	20 Yrs

1974 Community and Environmental Data

ETHNIC

10% Black in Bridesburg-Frankford Area
11.3% Black in Frankford Plant
Mainly Polish and German origin

NEIGHBORING INDUSTRY

Frankford Arsenal – 3900 employees engaged in research, development and manufacture of small caliber ammunition, fire control instruments, propellant actuated devices and systems, etc.

Rohm and Haas, Bridesburg Plant – employs approximately 2000 people in the manufacture and development of ion exchange resins, agricultural chemicals, polyesters, detergents, etc.

ENVIRONMENTAL

1. All liquid process wastes discharged to Philadelphia sewer system for treatment (biodegradation) prior to discharge to Delaware River. Cooling tower and boiler blowdown wastes discharged directly to the Frankford Inlet of the Delaware River. A Refuse Act Permit Application was submitted. Preliminary discussions have been held with EPA Region III and we are waiting receipt of an NPDES Permit.

2. Frankford Plant in compliance with existing City and State regulations. EPA requirements not yet issued.

ACCESS TO FRANKFORD PLANT

1. Rail, truck and via pipeline from Delaware River.

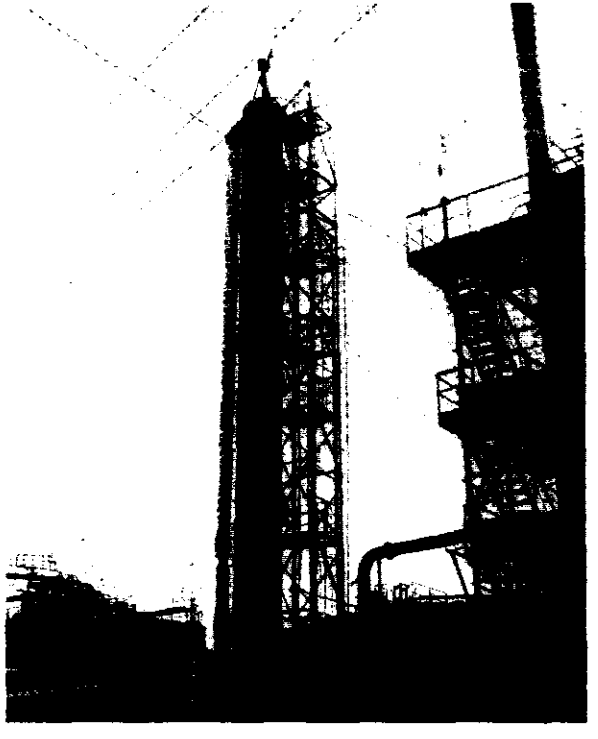
2. Bounded by I-95 to North, Frankford Creek to South, Frankford Arsenal to the East and Bridesburg Community to the West.

GOVERNMENT

Mayor – City of Philadelphia	Frank L. Rizzo (D)
Phila. Councilman, 6th Dist.	Joseph L. Zazyczny (D)
Penna. State Senator, 4th Dist.	Joseph F. Smith (D)
Penna. State Representative	Fortunato Perri (R)
U.S. Congressman, 3rd Dist.	W. J. Green (D)
U.S. Senator	Hugh Scott (R)
U.S. Senator	Richard D. Schweiker (R)

1935-1960

1935	Start-up of Tar Acid Extraction and Recovery Departments.
1937	First phthalic anhydride plant in operation.
1940	Second sulfonation phenol plant in operation.
1942	Second phthalic anhydride unit installed. Production of phthalate esters was initiated.
1944	Nicotinic acid first produced from quinoline.
1954	Start-up of first cumene-phenol plant (30 MM lb/yr). Shut-down of sulfonation phenol plant. Phthalate ester plant production doubled.
1960	Start-up of second cumene-phenol plant (50 MM lb/yr).



1962-1972

1962	Nicotinic Acid department shut-down.
1964	Start-up of third cumene-phenol plant (100 MM lb/yr).
1969	Start-up of third phthalic anhydride plant. Shut-down of first two phthalic anhydride plants.
1970	Shut-down of Tar Acid Extraction and Recovery Depts.
1971	Phthalates plant shut down.
1972	Shut-down of third phthalic anhydride plant

1973

- Continuation of phenol expansion culminating in present capacity of 486 MM lb/yr.
- Initiation of marine terminal facilities for transfer of cumene and phenol.
- Initiation of demolition programs.

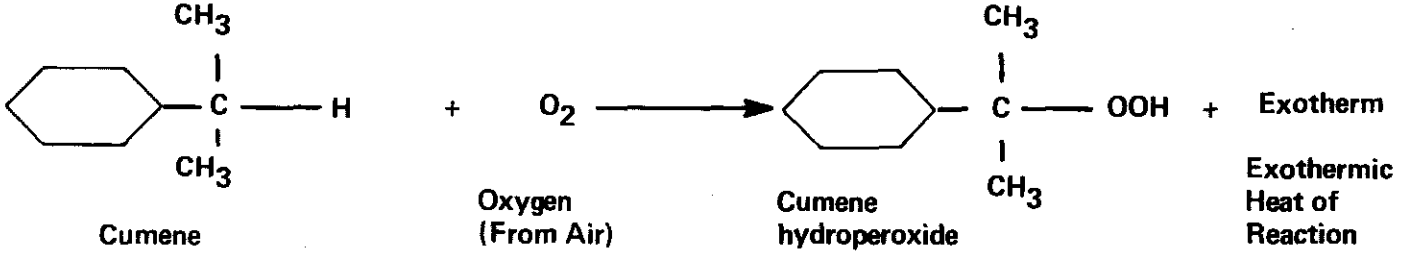
Aerial view of Frankford Plant showing I-95 highway at the top. Frankford Creek adjoins plant property at left-center. At bottom, Bridge Street separates Frankford plant from Frankford Arsenal at right of Frankford Creek and from Rohm and Haas property at bottom-left.

Frankford Plant Boiler House shown in center of photo with Synthetic Phenol facilities to the right and shut-down Tar Acid Extraction facilities to the left.

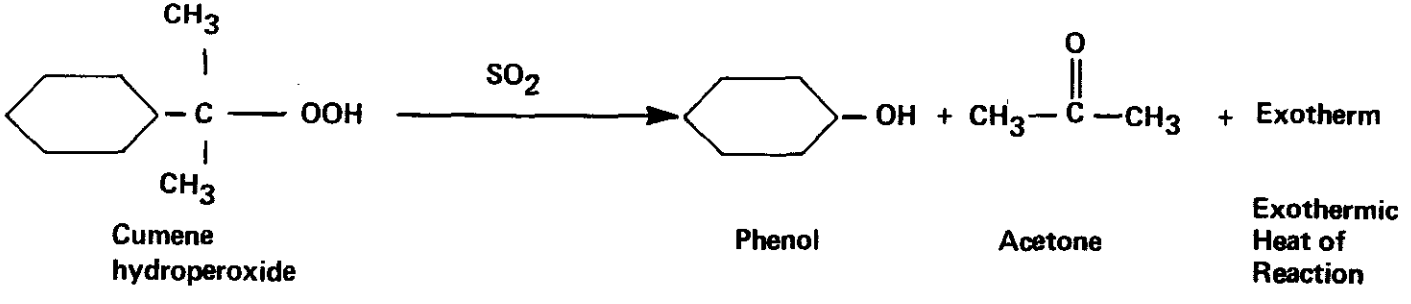
Phenol Process Description

Frankford Plant operates three separate phenol production units erected from 1953 - 1964 which have been debottlenecked several times to the present combined capacity of 486 MM lb/yr. Phenol and acetone are produced using Allied Chemical technology based on the oxidation of cumene. This technology which has been widely licensed in the United States is based on the following:

1. Cumene is received by barge and transferred to storage tanks. It is then introduced into a series of reactors along with air to form cumene hydroperoxide (CHP).

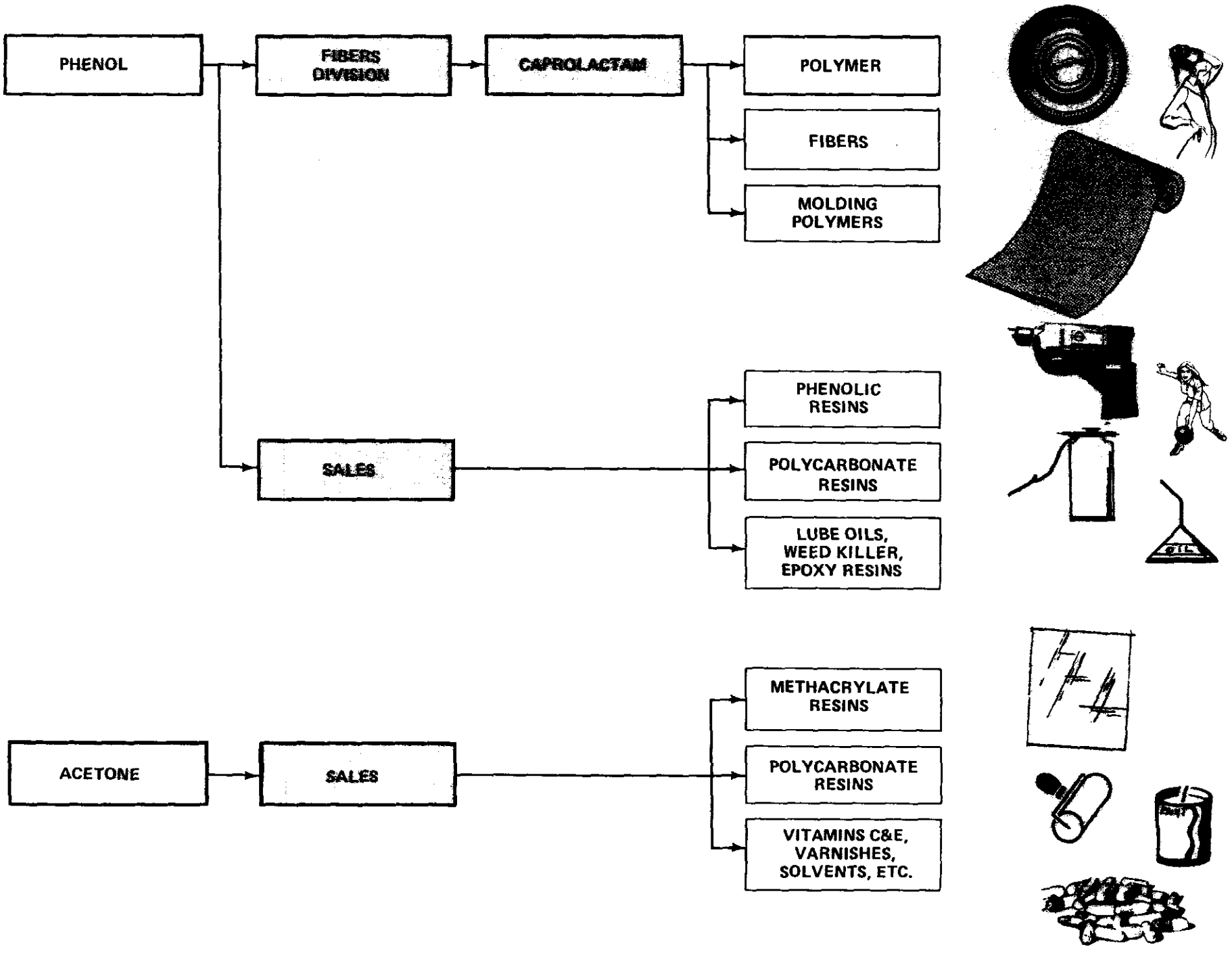


2. The CHP is concentrated and then decomposed under carefully controlled conditions in the presence of SO_2 catalyst to form phenol, acetone and some by-products.



3. The SO_2 catalyst is removed and the crude reaction mass is subsequently purified in a series of fractionations to produce refined phenol and acetone.

Uses of Phenol and Acetone



ATTACHMENT 3

ORIGINAL (Red)

CAMDEN WORKS PLANT

Attachment I
(1 of 2)

ORIGINAL (Red)

Allied Chemical

Industrial Chemicals Division
P.O. Box 1139R
Morristown, New Jersey 07960

April 6, 1979

Mr. Thomas Kulesza, Chief
Industrial Waste Unit
Water Pollution Control Division
1180 Municipal Services Building
Philadelphia, PA 19107

Re: ABM, Inc.

Dear Mr. Kulesza:

This is in reference to your phone call of several weeks ago to our Mr. L. A. Mattioli concerning our use of ABM inc. for waste disposal. This letter will also confirm Mr. Mattioli's phone call in response.

We believe that our former Camden, New Jersey facility utilized the services of ABM Inc. to remove trash and refuse. This belief is based on conversations with former employees at Camden. Since silicate production operations at Camden were terminated in May, 1975 and the facility sold in June, 1976, records are not readily available. Of the records reviewed, none indicate what type of material was removed by ABM Inc., or, indeed, even that ABM Inc. removed any material. However, as stated above, we feel that ABM Inc. was utilized in some trash and refuse removal from the Camden facility.

As Mr. Mattioli informed you, our "dead record" files have not been reviewed since we seriously doubt that these records would reveal any substantive information concerning the nature of the materials removed by ABM Inc. Therefore, we do not intend to extend our investigation into these files. In addition, we wish to point out that it is our belief that any information in these files would be limited to copies of purchase orders similar in content to those which you found in ABM Inc.'s records.

During our review of the records mentioned above, we found evidence that ABM Inc. was used for disposal of waste from our Claymont, Delaware plant. Our records indicate that in January and February, 1973 three bulk shipments were consigned to ABM Inc. These shipments were composed of sodium sulfite/sulfate liquors, an oil/water mix from a sluiceway and an oil/wastewater mix from a hydrofluoric acid operation. We have found no information indicating which dumpsite was used by ABM Inc. for these shipments.

Attachment I
(2 of 2)

Should you have further questions regarding this matter, please contact me.

Very truly yours,

J. M. DeVoe

J. M. DeVoe
Assistant Director
Environmental Services

/ss

cc: L. A. Mattioli

(1)

Atlantic Disposal Service, Inc.

INDUSTRIAL — COMMERCIAL REFUSE REMOVAL

■ (609) 665-4644

■ ROUTE 73
CINNAMINSON, N.J. 08077

ALLIED CHEMICAL CORP.
INDUSTRIAL CHEMICALS DIV.
1100 LINE ST.
CAMDEN, N. J. 08103

DATE DEC 31 1971

TERMS: NET 10 DAYS

P.O.# DDP-16299-1

This is your invoice for all services performed this month and also is a statement of your account.

Detach and Return This Stub With Your Remittance. Canceled Check is Your Receipt

DATE	DESCRIPTION	INVOICE NO.	CHARGES	✓	CREDITS	BALANCE
NOV 30 1971	BALANCE FORWARD					43 00
12/31/71	Dec. Serv.		43 00			86 00
12/17/71	CR# 43 CR-317 2127				43 00	43 00

PAY THIS INVOICE

ATLANTIC DISPOSAL SERVICE, INC.
CINNAMINSON, N.J. 08077

PLEASE PAY LAST AMOUNT SHOWN

CAMDEN — 035

DISCOUNT Net % BY 2/1/72 ENTRY NO.

PRICE O. K. K.

QUAN. & COND. O. K. As Shown

GEN'L. APPROVAL R A Adams

Charge to 60% 952-14611-9633-2580
30% 093 12.90
10% 800 4.30

Date 1-6-72

NOT FOR PAYMENT

(2)

Atlantic Disposal Service, Inc.

INDUSTRIAL – COMMERCIAL REFUSE REMOVAL

■ (609) 665-4644
■ ROUTE 73
CINNAMINSON, N.J. 08077

ALLIED CHEMICAL CORP.
INDUSTRIAL CHEMICALS DIV.
1100 LINE ST.
CAMDEN, N. J. 08103

DATE JAN 3 1 1972

TERMS: NET 10 DAYS

DDP-16299-1

This is your invoice for all services performed this month and also is a statement of your account.

Detach and Return This Stub With Your Remittance. Canceled Check is Your Receipt

DATE	DESCRIPTION	INVOICE NO.	CHARGES	✓	CREDITS	BALANCE
DEC 3 1 1971	BALANCE FORWARD					43 00
1/31/72	Jan. Serv.		43 00			86 00
1/21/72	Ck # 458257 CR-363				43 00	43 00

093-14611-96333-12.90
952-14611-96333 25.80
952-14611-99071 25.80
71520-96333 25.80
800-14611 4.30
14611-99005 4.30
05368 4.30

Charged [illegible]
Date 2-4-72
NOT FOR PAYMENT

ATLANTIC DISPOSAL SERVICE, INC.
CINNAMINSON, N.J. 08077

PLEASE PAY LAST AMOUNT SHOWN

CAMDEN

DISCOUNT Net % | BY 3/2/72 | ENTRY NO.

PRICE O. K. | O. K.

QUAN. & COL. | As Shown

[illegible] R. A. Adams

(3)

Atlantic Disposal Service, Inc.

INDUSTRIAL — COMMERCIAL REFUSE REMOVAL

■ (609) 665-4644
■ ROUTE 73
CINNAMINSON, N.J. 08077

ALLIED CHEMICAL CORP.
INDUSTRIAL CHEMICALS DIV.
1100 LINE ST.
CAMDEN, N. J. 08103

DATE FEB 29 1972

TERMS: NET 10 DAYS

P.O.# DDP-16299-1

This is your invoice for all services performed this month and also is a statement of your account.

Detach and Return This Stub With Your Remittance. Canceled Check is Your Receipt

DATE	DESCRIPTION	INVOICE NO.	CHARGES	✓	CREDITS	BALANCE
JAN 31 1972	BALANCE FORWARD					43 00
2/29/72	Feb. Serv.		43 00			86 00
2/24/72	CR# 480367 CK-417				43 00	43 00

Charged to

Date

NOT FOR PAYMENT

CAMDEN — 085

DISCOUNT 1.5% BY 3/31/72 ENTRY NO.
PRICE O. K. EXT. O. K.
QUAN. & COND. O. K. DATE
GEN'L. APPROVAL

ATLANTIC DISPOSAL SERVICE, INC.
CINNAMINSON, N.J. 08077

PLEASE PAY LAST AMOUNT SHOWN

(4)

Atlantic Disposal Service, Inc.

■ (609) 665-4644

■ ROUTE 73
CINNAMINSON, N.J. 08077

INDUSTRIAL – COMMERCIAL REFUSE REMOVAL

ALLIED CHEMICAL CORP.
INDUSTRIAL CHEMICALS DIV.
1100 LINE ST.
CAMDEN, N. J. 08103

DATE MAR 3 1 1972

TERMS: NET 10 DAYS
P.O.#DDP-16299-1

This is your invoice for all services performed this month and also is a statement of your account.

Detach and Return This Stub With Your Remittance. Canceled Check is Your Receipt

DATE	DESCRIPTION	INVOICE NO.	CHARGES	✓	CREDITS	BALANCE
FEB 29 1972	BALANCE FORWARD					43 00
3/20/72	Ck #499959 CR-445				43 00	-0-
3/31/72	March Serv.		43 00			43 00

PAY THIS INVOICE

Charged to

Date

NOT FOR PAYMENT

CAMDEN – 085

DISCOUNT	BY	ENTRY NO.
1.1-%	4/12/72	

PRICE O. K. | EXT. O. K.

ATLANTIC DISPOSAL SERVICE, INC.

QUAN. & CORD. O. K. | DATE

GEN'L. APPROVAL

PLEASE PAY LAST AMOUNT SHOWN

(5)

Atlantic Disposal Service, Inc.

INDUSTRIAL – COMMERCIAL REFUSE REMOVAL

(609) 665-4644
ROUTE 73
CINNAMINSON, N.J. 08077

ALLIED CHEMICAL CORP.
INDUSTRIAL CHEMICALS DIV.
1100 LINE ST.
CAMDEN, N. J. 08103

DATE APR 30 1972

TERMS: NET 10 DAYS
P.O.# DDP-16299-1

This is your invoice for all services performed this month and also is a statement of your account.

Detach and Return This Stub With Your Remittance. Canceled Check is Your Receipt

DATE	DESCRIPTION	INVOICE NO.	CHARGES	✓	CREDITS	BALANCE
MAR 31 1972	BALANCE FORWARD					43 00
4/12/72	St.	22723	28 50			71 50
4/13/72	St.	22738	28 50			100 00
4/14/72	St.	22756	28 50			128 50
4/17/72	St.	22154	28 50			157 00
4/30/72	Apr. Serv.		43 00			200 00
4/18/72	St.	22335	28 50			228 50
4/19/72	St.	22338	28 50			257 00
4/20/72	St.	22341	28 50			285 50
4/21/72	St.	22937	28 50			314 00
4/25/72	St.	22881	28 50			342 50
4/26/72	Cr. #519233 CR-506				43 00	299 50

95400
$256.50

092 14611 95400
093 - 14611 - 96333 -
952 - 14611 96333
952 14611 99071
- 71510 -
800 14611 - 96333
800 - 14611 99005
- 05216

256.50
12.90
25.80
25.80
25.80
4.30
4.30
4.30

Charged to

Date

NOT FOR PAYMENT

PAY INVOICE

ATLANTIC DISPOSAL SERVICE, INC.
CINNAMINSON, N.J. 08077

PLEASE PAY LAST AMOUNT SHOWN

Ref. 5/31/72

April (As Shown)

R. A. Adams

(6)

Atlantic Disposal Service, Inc.

INDUSTRIAL – COMMERCIAL REFUSE REMOVAL

■ (609) 665-4644
■ ROUTE 73
CINNAMINSON, N.J. 08077

ALLIED CHEMICAL CORP.
INDUSTRIAL CHEMICALS DIV.
1100 LINE ST.
CAMDEN, N. J. 08103

DATE MAY 31 1972

TERMS: NET 10 DAYS

P.O.#22P-16299-1

This is your invoice for all services performed this month and also is a statement of your account.

Detach and Return This Stub With Your Remittance. Canceled Check is Your Receipt

DATE	DESCRIPTION	INVOICE NO.	CHARGES	✓	CREDITS	BALANCE
APR 30 1972	BALANCE FORWARD					299 50
5/4/72	St.	23135	28 50			328 00
5/17/72	St.	23308	28 50			356 50
5/31/72	May Serv.		43 00			399 50
5/22/72	CR #544743 CR-27				299 50	100 00
5/22/72	St.	23426	28 50			128 50

60% - 952
30% - 093
10% - 800

PAY THIS INVOICE

CAMDEN – 085

DISCOUNT	BY	ENTRY NO.
1 1/2%	6/9/72	
PRICE O. K.	EXT. O. K.	
QUAN. & COND. O. K.	DATE	
GEN'L. APPROVAL	PLEASE PAY	

ATLANTIC DISPOSAL SERVICE, INC.
CINNAMINSON, N.J. 08077

05368 - 96333 - 12 85
71520 - 38 55
71461 - 092 - 96333 77 10

Charged to

Date 6-2-72

NOT FOR PAYMENT

7

Atlantic Disposal Service, Inc.

INDUSTRIAL — COMMERCIAL REFUSE REMOVAL

■ (609) 665-4644

■ ROUTE 73
CINNAMINSON, N.J. 08077

ALLIED CHEMICAL CORP.
INDUSTRIAL CHEMICALS DIV.
1100 LINE ST.
CAMDEN, N. J. 08103

DATE JUN 30 1972

TERMS: NET 10 DAYS

P.O.# DDP-16299-1

This is your invoice for all services performed this month and also is a statement of your account.

Detach and Return This Stub With Your Remittance. Canceled Check is Your Receipt

DATE	DESCRIPTION	INVOICE NO.	CHARGES	✓	CREDITS	BALANCE
MAY 31 1972	BALANCE FORWARD					128 50
6/7/72	St.	23704	28 50			157 00
6/14/72	CE #1563756 CF-62				128 50	28 50
6/30/72	June Serv.		43 00			71 50

CAMDEN — 088

DISCOUNT 2 % BY 4/19/72 ENTRY NO.

PRICE O. K. EXT. O. K.

QUAN. & COND. O. K. DATE As Shown

GEN'L APPROVAL [signature]

96333

14611 - 093 - 30% - 093

71520 - 60% - 952

05368 - 10% - 800

96333

Charged to

Date 7-13-72

NOT FOR PAYMENT

ATLANTIC DISPOSAL SERVICE, INC.
CINNAMINSON, N.J. 08077

PLEASE PAY LAST AMOUNT SHOWN

(8)

Atlantic Disposal Service, Inc.

INDUSTRIAL – COMMERCIAL REFUSE REMOVAL

■ (609) 665-4644
■ ROUTE 73
CINNAMINSON, N.J. 08077

ALLIED CHEMICAL CORP.
INDUSTRIAL CHEMICALS DIV.
1100 LINE ST.
CAMDEN, N. J. 08103

DATE JUL 31 1972

TERMS: NET 10 DAYS
P.O.# DDP-16299-1

This is your invoice for all services performed this month and also is a statement of your account.

Detach and Return This Stub With Your Remittance. Canceled Check is Your Receipt

DATE	DESCRIPTION	INVOICE NO.	CHARGES	✓	CREDITS	BALANCE
JUN 30 1972	BALANCE FORWARD					71 50
7/5/72	St.	24158	28 50			100 00
7/14/72	St	24208	28 50			128 50
7/18/72	St.	24430	28 50			157 00
7/31/72	July Serv.		43 00			200 00
7/27/72	Ck# 592401 CR-137				71 50	128 50

30% - 093 - 14611 - 96333
60% 453 71520 - 96332
10% 802 65368
8-10-72

Charged to
Date

NOT FOR PAYMENT

PAY THIS INVOICE

CAMDEN - 085

DISCOUNT Net % | BY 8/15/72 | ENTRY NO.
PRICE O. K. | EXT. O. K.
QUAN. & COND. O. K. | DATE As Shown
GROSS APPROVAL

ATLANTIC DISPOSAL SERVICE, INC.
CINNAMINSON, N.J. 08077

PLEASE PAY LAST AMOUNT SHOWN

(9)

Atlantic Disposal Service, Inc.

INDUSTRIAL – COMMERCIAL REFUSE REMOVAL

(609) 234-4000

CHURCH & SPRINGDALE ROADS
MT. LAUREL, N. J. 08057

ALLIED CHEMICAL CORP.
INDUSTRIAL CHEMICALS DIV.
1100 LINE ST.
CAMDEN, N. J. 08103

DATE AUG 3 1 1972

TERMS: NET 10 DAYS

P.O # DDP-16299-1

This is your invoice for all services performed this month and also is a statement of your account.

Detach and Return This Stub With Your Remittance. Canceled Check is Your Receipt

DATE	DESCRIPTION	INVOICE NO.	CHARGES	✓	CREDITS	BALANCE
JUL 3 1 1972	BALANCE FORWARD					128 50
8/1/72	St.	24241	28 50			157 00
8/3/72	St.	24664	28 50			185 50
8/10/72	St.	24857	28 50			214 00
8/31/72	Aug. Serv.		43 00			257 00
8/17/72	St.	25002	28 50			285 50
8/23/72	Ck # 610 CR-187				128 50	157 00
8/25/72	St.	25738	28 50			185 50

CAMDEN – 085

DISCOUNT Net % BY 10/3/72 ENTRY NO.

PRICE O. K. EXT. O. K.

QUAN. & COND. O. K. DATE As Shown

GEN'L. APPROVAL [signature]

ATLANTIC DISPOSAL SERVICE, INC.
MT. LAUREL, N. J. 08057

PLEASE PAY LAST AMOUNT SHOWN

14611-093-96333- 30%
60%
71520- 10%
Charged To 603368-800 96333

Date 9-8-72

NOT FOR PAYMENT

(10)

Atlantic Disposal Service Inc.

INDUSTRIAL – COMMERCIAL REFUSE REMOVAL

(609) 234-4000

CHURCH & SPRINGDALE ROADS
MT. LAUREL, N. J. 08057

ALLIED CHEMICAL CORP.
INDUSTRIAL CHEMICALS DIV.
1100 LINE ST.
CAMDEN, N. J. 08103

DATE SEP 30 1972

TERMS: NET 10 DAYS

P.O.# DDP-16299-1

This is your invoice for all services performed this month and also is a statement of your account.

Detach and Return This Stub With Your Remittance. Canceled Check is Your Receipt

DATE	DESCRIPTION	INVOICE NO.	CHARGES	✓	CREDITS	BALANCE
AUG 31 1972	BALANCE FORWARD					185 50
9/7/72	St.	25292	28 50			214 00
9/13/72	St.	25420	28 50			242 50
9/14/72	St.	25[illegible]	28 50			271 00
9/18/72	St.	25453	28 50			299 50
9/19/72	St.	25408	28 50			328 00
9/19/72	St.	25474	28 50			356 50
9/30/72	Sep. Serv.		43 00			399 50
9/20/72	St.	25410	28 50			428 00
9/21/72	St.	25553	28 50			456 50
9/22/72	St.	25593	28 50			485 00
9/25/72	St.	25559	28 50			513 50
9/27/72	St.	25678	28 50			542 00
9/28/72	St.	25666	28 50			570 50
			Less Any Bill			
			Approved		9/8	185 50
						385 00

30%
1461-093-96333
60%
71520-
10%
[redacted] 96333
03368-

CAMDEN – 085

ATLANTIC DISPOSAL SERVICE, INC.

PLEASE PAY
LAST AMOUNT
PURCHASE

Charged to

Date 10-6-72

DISCOUNT Net %	BY 10/10/72	ENTRY NO.
PRICE O. K.		EXT. O. K.
QUAN. & COND. O. K.		DATE Eo Shown
GEN'L. APPROVAL	R. A. Adams	

NOT FOR PAYMENT

Atlantic Disposal Service, Inc.

INDUSTRIAL – COMMERCIAL REFUSE REMOVAL

(609) 234-4000

CHURCH & SPRINGDALE ROADS
MT. LAUREL, N. J. 08057

ALLIED CHEMICAL CORP.
INDUSTRIAL CHEMICALS DIV.
1100 LINE ST.
CAMDEN, N. J. 08103

DATE: OCT 31 1972

TERMS: NET 10 DAYS

P.C.# DDP-16299-1

This is your invoice for all services performed this month and also is a statement of your account.

Detach and Return This Stub With Your Remittance. Canceled Check is Your Receipt

DATE	DESCRIPTION	INVOICE NO.	CHARGES	✓	CREDITS	BALANCE
SEP 30 1972	BALANCE FORWARD					570 50
10/4/72	Ck # 19181 CR-259				185 50	385 00
10/4/72	St.	25748	28 50			413 50
10/9/72	St.	25842	28 50			442 00
10/31/72	Ext. Serv.		43 00			485 00
10/17/72	St.	25860	28 50			513 50
10/20/72	Ck # 32672 CR-280				385 00	128 50
10/24/72	St.	25866	28 50			157 00

3020
14611 - 093 96333 4%
1070
05368 093 - 96333 15.
6970
71520 9%

$157.00

ATLANTIC DISPOSAL SERVICE, INC.
MT. LAUREL, N. J. 08057

CAMDEN – 085

PLEASE PAY LAST AMOUNT DUE

DISCOUNT BY	ENTRY NO.
Net 11-13-72	1130
PRICE O.K.	EXT. O.K.
QUAN. & COND. O.K.	DATE 11-2-72
GEN'L APPROVAL	

Charged to

Date 11-3-72

NOT FOR PAYMENT

(12)

Atlantic Disposal Service, Inc.

INDUSTRIAL – COMMERCIAL REFUSE REMOVAL

■ (609) 234-4000
■ CHURCH & SPRINGDALE ROADS
MT. LAUREL, N. J. 08057

ALLIED CHEMICAL CORP.
INDUSTRIAL CHEMICALS DIV.
1100 LINE ST.
CAMDEN, N. J. 08103

DATE NOV 30 1972

TERMS: NET 10 DAYS
P.O. # DDP-16299-1

This is your invoice for all services performed this month and also is a statement of your account.

Detach and Return This Stub With Your Remittance. Canceled Check is Your Receipt

DATE	DESCRIPTION	INVOICE NO.	CHARGES	✓	CREDITS	BALANCE
OCT 31 1972	BALANCE FORWARD					157 00
11/2/72	St.	26150	28 50			185 50
11/30/72	New Serv.		43 00			228 50
11/16/72	CR #49509 CR-336				157 00	71 50
11/20/72	St.	26505	28 50			100 00
			100 00			
			30%		14611-093-96333	-✓ $30.00
			10%		05368-093-96333	✓ 10.00
			60%		71520	✓ 60.00
						$100.00

ATLANTIC DISPOSAL SERVICE, INC.
MT. LAUREL, N. J. 08057

PLEASE PAY LAST AMOUNT

CAMDEN

DISCOUNT BY 12-19-72	ENTRY NO. 1201
PRICE O.K.	
QUAN. & COND. O.K.	DATE 12-4-72
GEN'L APPROVAL	

N/A

Charged to
Date 12-4-72

NOT FOR PAYMENT

(13)

Atlantic Disposal Service, Inc.

(609) 234-4000

CHURCH & SPRINGDALE ROADS
MT. LAUREL, N. J. 08057

INDUSTRIAL COMMERCIAL REFUSE REMOVAL

ALLIED CHEMICAL CORP.
INDUSTRIAL CHEMICALS DIV.
1100 LINE ST.
CAMDEN, N. J. 08103

DATE DEC 31 1972

TERMS: NET 10 DAYS

P.O.# DDP-16299-1

This is your invoice for all services performed this month and also is a statement of your account.

Detach and Return This Stub With Your Remittance. Canceled Check is Your Receipt

DATE	DESCRIPTION	INVOICE NO.	CHARGES	✓	CREDITS	BALANCE
NOV 30 1972	BALANCE FORWARD					100 00
12/6/72	St.	26796	7 50			107 50
12/31/72	Dec. Serv.		43 00			150 50
12/20/72	St.	26981	28 50			179 00
12/26/72	CR #74839 CR-395				100 00	79 00
12/26/72	St.	27045	28 50			107 50
12/27/72	St.	27148	28 50			136 00
12/27/72	St.	27147	28 50			164 50
12/28/72	St.	27154	28 50			193 00
12/28/72	St.	27152	28 50			221 50
12/29/72	St.	27137	28 50			250 00
12/29/72	St.	27133	28 50			278 50
			278 50			

30% 093-96300 - 83.55
10% 05368 - 27.85
~~093~~
800-
60% - 71520 167.10
952 $278.50

ATLANTIC DISPOSAL SERVICE, INC.

PLEASE PAY LAST AMOUNT

Charged to 14700
Date JAN 4 1973

NOT FOR PAYMENT

CAMDEN - 085

DISCOUNT	BY	ENTRY NO.
Net	1-30-73	0016
PRICE	DL	DL
QUAN. & CONT.	DL	12-4-73
GEN'L APPROVAL	D Isabelle	

Atlantic Disposal Service, Inc.

INDUSTRIAL – COMMERCIAL REFUSE REMOVAL

■ (609) 234-4000

■ CHURCH & SPRINGDALE ROADS

MT. LAUREL, N. J. 08057

(14)

ALLIED CHEMICAL CORP.
INDUSTRIAL CHEMICALS DIV.
1100 LINE ST.
CAMDEN, N. J. 08103

DATE JAN 31 1973

TERMS: NET 10 DAYS

P.O.# DOP-16299-1

This is your invoice for all services performed this month and also is a statement of your account.

Detach and Return This Stub With Your Remittance. Canceled Check is Your Receipt

DATE	DESCRIPTION	INVOICE NO.	CHARGES	✓	CREDITS	BALANCE
EC 31 1972	BALANCE FORWARD					278 50
3/73	St.	27141	28 50			307 00
5/73	St.	27289	28 50			335 50
10/73	St.	27300	28 50			364 00
17/73	St.	27529	28 50			392 50
31/73	Jan. Serv.		43 00			435 50
22/73	St.	27661	28 50			464 00
29/73	St.	27800	28 50			492 50
			314 00			

CAMDEN 085

DISCOUNT %	BY 3-15-23	ENTRY NO. 3093
PRICE O. K.		EXT. O. K.
QUAN. & CONT. O. K.		DATE 2-5-23
GEN'L. APPROVAL		

800 – 96300 – 9.98

ATLANTIC DISPOSAL SERVICE, INC.
MT. LAUREL, N. J. 08057

PLEASE PAY LAST AMOUNT SHOWN

900 – 96300 – 89.88

092 – 96300 – 72.76

Charged to 093 – 96300 – 47.08

Date MAR 1 1973

NOT FOR PAYMENT

Atlantic Disposal Service, Inc.

INDUSTRIAL – COMMERCIAL REFUSE REMOVAL

■ (609) 234-4000
■ CHURCH & SPRINGDALE ROADS
MT. LAUREL, N. J. 08057

(15)

ALLIED CHEMICAL CORP.
INDUSTRIAL CHEMICALS DIV.
1100 LINE ST.
CAMDEN, N. J. 08103

DATE: FEB 28 1973

TERMS: NET 10 DAYS

P.O.# DDP-16299-1

This is your invoice for all services performed this month and also is a statement of your account.

Detach and Return This Stub With Your Remittance. Canceled Check is Your Receipt

DATE	DESCRIPTION	INVOICE NO.	CHARGES	✓	CREDITS	BALANCE
JAN 31 1973	BALANCE FORWARD					492 50
2/2/73	Ck # 102730 CR-469				278 50	214 00
2/13/73	St.	28122	28 50			242 50
2/28/73	Feb. Serv.		43 00			285 50
2/23/73	St.	28381	28 50			314 00
1/31-2/6	Cont. Serv. Charge		15 00			329 00
2/14-2/20	Cont. Serv. Charge		15 00			344 00
			130 00			

PAY THIS INVOICE

800-96300 2.60
952-96300 54.60
092-96300 = 44.2
093-96300 = 28.6

$130.00
~~129~~

ATLANTIC DISPOSAL SERVICE, INC.
MT. LAUREL, N. J. 08057

CAMDEN 085

DISCOUNT	BY	ENTRY NOS
Net %	3-30-73	3045
PRICE O. K.		EXT. O. K.
QUAN. & COND. O. K.		DATE 3-2-73
GEN'L. APPROVAL		

PLEASE PAY LAST AMOUNT SHOWN

Charged to 14700

Date MAR 6 1973

NOT FOR PAYMENT

2957.80 (16)

Atlantic Disposal Service, Inc.

INDUSTRIAL – COMMERCIAL REFUSE REMOVAL

■ CHURCH & SPRINGDALE ROADS
MT. LAUREL, N. J. 08057

ALLIED CHEMICAL CORP.
INDUSTRIAL CHEMICALS DIV.
1100 LINE ST.
CAMDEN, N. J. 08103

DATE MAR 31 1973

TERMS: NET 10 DAYS

P.O.# DDP-16299-1

This is your invoice for all services performed this month and also is a statement of your account.

Detach and Return This Stub With Your Remittance. Canceled Check is Your Receipt

CAMDEN – 085

DATE	DESCRIPTION	INVOICE NO.	CHARGES	✓	CREDITS	BALANCE
FEB 28 1973	BALANCE FORWARD					1344 00
3/12/73	St.	28704	28 50			372 50
3/16/73	St.	28935	28 50			401 00
3/19/73	Ck #134079 CR-547				214 00	187 00
3/31/73	March Serv.		43 00			230 00
2/28-3/6	Cont. Serv. Charge		15 00			245 00
3/21-3/27	Cont. Serv. Charge		15 00			260 00
			$130 00			

DISCOUNT	BY	ENTRY NO.
Aut	4-30-73	4014
O. K.		EXT. O. K.
di		di
N. & COMP. O. K.		DATE
di		4-4-73
APPROVAL		

092 96330 $39.00
093 96330 13.00
950 -71520 78.00

Charged to APR 9 1973

Date

NOT FOR PAYMENT

ATLANTIC DISPOSAL SERVICE, INC.
MT. LAUREL, N. J. 08057

PLEASE PAY LAST AMOUNT SHOWN

(17)

Atlantic Disposal Service, Inc.

INDUSTRIAL – COMMERCIAL REFUSE REMOVAL

■ (609) 234-4000
■ CHURCH & SPRINGDALE ROADS
MT. LAUREL, N. J. 08057

ALLIED CHEMICAL CORP.
INDUSTRIAL CHEMICALS DIV.
1100 LINE ST.
CAMDEN, N. J. 08103

DATE APR 30 1973

TERMS: NET 10 DAYS
P.O.# DDP-16299-1

This is your invoice for all services performed this month and also is a statement of your account.

Detach and Return This Stub With Your Remittance. Canceled Check is Your Receipt

DATE	DESCRIPTION	INVOICE NO.	CHARGES	✓	CREDITS	BALANCE
MAR 31 1973	BALANCE FORWARD					260 00
4/2/73	CR #146867 CR-582				130 00	130 00
4/30/73	Apr. Serv.		43 00			173 00
4/25/73	St.	29885	28 50			201 50
3/28-4/3	Cont. Serv. Charge		15 00			216 50
4/4-4/10	Cont. Serv. Charge		15 00			231 50
4/11-4/17	Cont. Serv. Charge		15 00			246 50
4/18-4/24	Cont. Serv. Charge		15 00			261 50
			131 50			

PAY

CAMDEN — 085

ATLANTIC DISPOSAL SERVICE, INC.
MT. LAUREL, N. J. 08057

PLEASE PAY LAST AMOUNT SHOWN

DISCOUNT	BY	ENTRY NO.
Net %	5-14-73	5019
PRICE O. K.	EXT. O. K.	
DI	DI	
QUAN. & COND. O. K.	DATE	
DI	5-3-73	
GEN'L. APPROVAL		

Charged to 952 - 96 - 78.00
092 - 39.00
093 - 14.50

Date MAY 4 1973

NOT FOR PAYMENT

18

Atlantic Disposal Service, Inc.

INDUSTRIAL – COMMERCIAL REFUSE REMOVAL

■ (609) 234-4000
■ CHURCH & SPRINGDALE ROADS
MT. LAUREL, N. J. 08057

ALLIED CHEMICAL CORP.
INDUSTRIAL CHEMICALS DIV.
1100 LINE ST.
CAMDEN, N. J. 08103

DATE MAY 3 1 1973

TERMS: NET 10 DAYS
P.O.# DDP-16299-1

This is your invoice for all services performed this month and also is a statement of your account.

Detach and Return This Stub With Your Remittance. Canceled Check is Your Receipt

DATE	DESCRIPTION	INVOICE NO.	CHARGES	✓	CREDITS	BALANCE
APR 30 1973	BALANCE FORWARD					261 50
5/2/73	St	30006	28 50			290 00
5/3/73	Ck #167554 CR-4				130 00	160 00
5/8/73	St.	29472	28 50			188 50
5/10/73	St.	29564	28 50			217 00
5/11/73	St.	29479	28 50			245 50
5/15/73	St.	29617	28 50			274 00
5/16/73	Ck #177561 CR-23				131 50	142 50
5/31/73	May Serv.		43 00			185 50
5/17/73	St.	29483	28 50			214 00
5/21/73	St.	29758	28 50			242 50
5/25/73	St.	29488	28 50			271 00
			271 00			

PAY THIS INVOICE

092-96300 $92.51

CAMDEN – 085

ATLANTIC DISPOSAL SERVICE, INC.
MT. LAUREL, N. J. 08057

093-96300

PLEASE PAY LAST AMOUNT SHOWN 59.86

Charged to 952-96300 118.63

Date JUN 11 1973

DISCOUNT	BY	ENTRY NO.
Net	6-15-73	6025
PRICE O. K. Di	EXT. O. K. D	
QUAN. & COND. O. K. D	DATE 6-4-73	
GEN'L. APPROVAL [signature]		

NOT FOR PAYMENT

(19)

Atlantic Disposal Service, Inc.

INDUSTRIAL — COMMERCIAL REFUSE REMOVAL

■ (609) 234-4000
■ CHURCH & SPRINGDALE ROADS
MT. LAUREL, N. J. 08057

ALLIED CHEMICAL CORP.
INDUSTRIAL CHEMICALS DIV.
1100 LINE ST.
CAMDEN, N. J. 08103

DATE JUN 30 1973

TERMS: NET 10 DAYS

P.O.# DDP-16299-1

This is your invoice for all services performed this month and also is a statement of your account.

Detach and Return This Stub With Your Remittance. Canceled Check is Your Receipt

DATE	DESCRIPTION	INVOICE NO.	CHARGES	✓	CREDITS	BALANCE
MAY 31 1973	BALANCE FORWARD					271 00
6/5/73	✓ St.	30434	28 50	✓		299 50
6/13/73	St.	30595	28 50	✓		328 00
6/30/73	June Serv.		43 00	✓		371 00
6/20/73	St.	30789	28 50	✓		399 50
6/21/73	Ck #120520	Ck -93			271 00	128 50
6/26/73	St.	30863	28 50	✓		157 00
6/27/73	St.	30826	28 50	✓		185 50
6/28/73	St.	30828	28 50	✓		214 00
			214 00			
	092-96300		21 40	✓		
	093-96300		64 20			
	952-71520		128 40	✓		

PAID

ATLANTIC DISPOSAL SERVICE, INC.
MT. LAUREL, N. J. 08057

Charged to
Date JUL 3 1973

NOT FOR PAYMENT

PLEASE PAY NET AMOUNT SHOWN

CAMDEN 085

DISCOUNT Net %	BY 07-10-73	ENTRY NO. 7002
PRICE O. K.		EXT. O. K.
QUAN. & COND. O. K.		DATE 7-2-73
GEN'L APPROVAL		

(20)

Atlantic Disposal Service, Inc.
INDUSTRIAL – COMMERCIAL REFUSE REMOVAL

(609) 234-4000
CHURCH & SPRINGDALE ROADS
MT. LAUREL, N. J. 08057

ALLIED CHEMICAL CORP.
INDUSTRIAL CHEMICALS DIV.
1100 LINE ST.
CAMDEN, N. J. 08103

DATE JUL 31 1973

TERMS: NET 10 DAYS
P.O.#DDP-16299-1

This is your invoice for all services performed this month and also is a statement of your account.

Detach and Return This Stub With Your Remittance. Canceled Check is Your Receipt

DATE	DESCRIPTION	INVOICE NO.	CHARGES	✓	CREDITS	BALANCE
JUN 30 1973	BALANCE FORWARD					214 00
7/13/73	CR #219868 CR-136				214 00	-0-
7/18/73	St.	31304	28 50			28 50
7/31/73	July Serv.		43 00			71 50
7/20/73	St.	31461	28 50			100 00
7/23/73	St.	31493	28 50			128 50
7/25/73	St.	31524	28 50			157 00
7/26/73	St.	31525	28 50			185 50
7/27/73	St.	31481	28 50			214 00
7/30/73	St.	31683	28 50			242 50
			242.50			

PAY THIS INVOICE

CAMDEN – 085

DISCOUNT	BY	ENTRY NO.
Int	08-10-73	8003
PRICE O. K. D1	EXT. O. K. D1	
QUAN. & CONT. O. K. D1	DATE 08-1-73	
GEN'L. APPROVAL [signature]		

900-70520. 2.

96300952 80.00
96200093 80.00
71520092 80.00

Charged to

Date AUG 3 1973

NOT FOR PAYMENT

ATLANTIC DISPOSAL SERVICE, INC.
MT. LAUREL, N. J. 08057

PLEASE PAY LAST AMOUNT SHOWN

1

(21)

...antic Disposal Service, Inc.
INDUSTRIAL – COMMERCIAL REFUSE REMOVAL
■ (609) 234-4000
■ CHURCH & SPRINGDALE ROADS
MT. LAUREL, N. J. 08057

ALLIED CHEMICAL CORP.
INDUSTRIAL CHEMICALS DIV.
1100 LINE ST.
CAMDEN, N. J. 08103

DATE AUG 31 1973

TERMS: NET 10 DAYS
P.O. # DDP-16299-1

This is your invoice for all services performed this month and also is a statement of your account.

Detach and Return This Stub With Your Remittance. Canceled Check is Your Receipt

DATE	DESCRIPTION	INVOICE NO.	CHARGES	✓	CREDITS	BALANCE
1 1973	BALANCE FORWARD					242 50
2/73	St.	31793	28 50			271 00
13/73	CR-200 Ck # 239623				242 50	28 50
14/73	St.	31964	28 50			57 00
31/73	Aug. Serv.		43 00			100 00
23/73	St.	32128	28 50			128 50
			128 50			

PAY THIS INVOICE

CAMDEN – 085

DISCOUNT	BY	ENTRY NO.
Net %	09-15-73	9001.
PRICE O. K. D/	EXT. O. K. D/	
QUAN. & COND. O. K. D/	DATE 09-04-73.	
GEN'L. APPROVAL [signature]		

092 . 96300 : 42.80
093 . 96300 : 42.40
95 ✓ 71520 . 42.30

...arged to ..... SEP 6 1973 128 50
...ate .....

NOT FOR PAYMENT

ATLANTIC DISPOSAL SERVICE, INC.
MT. LAUREL, N. J. 08057

PLEASE PAY LAST AMOUNT SHOWN

Atlantic Disposal Service, Inc.

INDUSTRIAL – COMMERCIAL REFUSE REMOVAL

■ (609) 234-4000 (22)

■ CHURCH & SPRINGDALE ROADS
MT. LAUREL, N. J. 08057

ALLIED CHEMICAL CORP.
INDUSTRIAL CHEMICALS DIV.
1100 LINE ST.
CAMDEN, N. J. 08103

DATE: SEP 30 1973

TERMS: NET 10 DAYS

P.O.# DDP-16299-1

This is your invoice for all services performed this month and also is a statement of your account.

Detach and Return This Stub With Your Remittance. Canceled Check is Your Receipt

DATE	DESCRIPTION	INVOICE NO.	CHARGES	✓	CREDITS	BALANCE
AUG 31 1973	BALANCE FORWARD					128 50
9/13/73	St.	32673	28 50			157 00
9/19/73	Ck # 263639 CR-270				128 50	28 50
9/30/73	Sep. Serv.		43 00			71 50
8/29-9/4	Cont. Serv. Charge		12 00			83 50
9/5-9/11	Cont. Serv. Charge		15 00			98 50
9/19-9/25	Cont. Serv. Charge		15 00			113 50

PAY THIS INVOICE

ATLANTIC DISPOSAL SERVICE, INC.
MT. LAUREL, N. J. 08057

PLEASE PAY LAST AMOUNT SHOWN

CAMDEN – 085

DISCOUNT	BY	ENTRY NO.
Net %	10-12-73	1001
PRICE O. K.	EXT. O. K.	
QUAN. & COND. O. K.	DATE 10-02-73	
GEN'L APPROVAL		

952 - 96300 44% 50.0
092 - 96300 34% 38.5
093 - 96300 22% 24.91

Charged to

Date OCT 3 1973

NOT FOR PAYMENT

(23)

Atlantic Disposal Service, Inc.

■ (609) 234-4000

INDUSTRIAL – COMMERCIAL REFUSE REMOVAL

■ CHURCH & SPRINGDALE ROADS
MT. LAUREL, N. J. 08057

ALLIED CHEMICAL CORP.
INDUSTRIAL CHEMICALS DIV.
1100 LINE ST.
CAMDEN, N. J. 08103

DATE OCT 3 1 1973

TERMS: NET 10 DAYS
P.O.# DDP-16299-1

This is your invoice for all services performed this month and also is a statement of your account.

Detach and Return This Stub With Your Remittance. Canceled Check is Your Receipt

DATE	DESCRIPTION	INVOICE NO.	CHARGES	✓	CREDITS	BALANCE
	BALANCE FORWARD					113 50
SEP 30 1973 10/10/73	SA.	33262	28 50			142 00
10/15/73	CR #283268 CR-323				113 50	28 50
10/16/73	SA.	33379	28 50			57 00
10/31/73	Ord. Serv.		43 00			100 00
10/19/73	SA.	33211	28 50			128 50
10/26-10/2	Cont. Serv. Charge		15 00			143 50
10/24-10/30	Cont. Serv. Charge		15 00			158 50
			158 50			

PAID

ATLANTIC DISPOSAL SERVICE, INC.
MT. LAUREL, N. J. 08057

PLEASE PAY LAST AMOUNT SHOWN

11018

(24)

Atlantic Disposal Service, Inc.

INDUSTRIAL – COMMERCIAL REFUSE REMOVAL

■ (609) 234-4000
■ CHURCH & SPRINGDALE ROADS
MT. LAUREL, N. J. 08057

ALLIED CHEMICAL CORP.
INDUSTRIAL CHEMICALS DIV.
1100 LINE ST.
CAMDEN, N. J. 08103

DATE NOV 30 1973

TERMS: NET 10 DAYS
P.O.# DDP-16299-1

This is your invoice for all services performed this month and also is a statement of your account.

Detach and Return This Stub With Your Remittance. Canceled Check is Your Receipt

DATE	DESCRIPTION	INVOICE NO.	CHARGES		✓	CREDITS		BALANCE	
OCT 31 1973	BALANCE FORWARD							158	50
11-7-73	ST	33879	28	50				187	00
11-30-73	Nov SVC		43	00				230	00
11-21-73	ST	34144	28	50				258	50
11-23-73	CH 300501 CR 409					158	50	100	00
11-28-73	ST	34504	28	50				128	50
11/5-11/6	Cont. Serv. Charge		15	00				143	50
11/14-11/20	Cont. Serv. Charge		15	00				158	50
			158	50					

PAID

ATLANTIC DISPOSAL SERVICE, INC.
MT. LAUREL, N. J. 08057

PLEASE PAY LAST AMOUNT SHOWN

12002

Atlantic Disposal Service, Inc. (25)

(609) 234-4000

CHURCH & SPRINGDALE ROADS
MT. LAUREL, N. J. 08057

INDUSTRIAL – COMMERCIAL REFUSE REMOVAL

Allied Chemical Corp.
Industrial Chemicals Div.
1100 Line Street
Camden, N.J. 08103

DATE DEC 31 1973

TERMS: NET 10 DAYS
P.O.# 2LP-16299-1

This is your invoice for all services performed this month and also is a statement of your account.

Detach and Return This Stub With Your Remittance. Canceled Check is Your Receipt

DATE	DESCRIPTION	INVOICE NO.	CHARGES		✓	CREDITS		BALANCE	
DEC 30 1973	BALANCE FORWARD							158	50
12/3/73	ST	33887	28	50				187	00
12/4/73	ST	34398	28	50				215	5
12/10/73	ST	34468	28	50				244	0
12/12/73	CK 336350 CK 441					158	50	85	5
12/14/73	ST	34473	28	50				114	0
12/31/73	Lee Svc		43	00				157	0
			157	00					

ATLANTIC DISPOSAL SERVICE, INC.
MT. LAUREL, N. J. 08057

PLEASE PAY
LAST AMOUNT
SHOWN _____

1004

Atlantic Disposal Service, Inc. (26)

INDUSTRIAL – COMMERCIAL REFUSE REMOVAL

(609) 234-4000

CHURCH & SPRINGDALE ROADS
MT. LAUREL, N. J. 08057

ALLIED CHEMICAL CORP.
INDUSTRIAL CHEMICALS DIV.
1100 LINE ST.
CAMDEN, N. J. 08103

DATE JAN 31 1974

TERMS: NET 10 DAYS

P.O.# U6P-16299-1

This is your invoice for all services performed this month and also is a statement of your account.

Detach and Return This Stub With Your Remittance. Canceled Check is Your Receipt

DATE	DESCRIPTION	INVOICE NO.	CHARGES	✓	CREDITS	BALANCE
DEC 31 1973	BALANCE FORWARD					157 00
1-15-74	St	34797	28 50			185 50
1/31/74	January Serv		43 00			228 50
1-16-74	St	34729	28 50			257 00
1/18/74	St	34785	28 50			285 5
1/22/74	St	35434	28 50			314 0
1/23/74	Cr 44 Ck 363904				157 00	157 0
1/24/74	St	35516	28 50			185 5
1/28/74	St	35556	28 50			214 0
1/30/74	St	35598	28 50			242 5
1/31/74	St	35612	28 50			271 0
			271 00			

ATLANTIC DISPOSAL SERVICE, INC.
MT. LAUREL, N. J. 08057

PLEASE PAY LAST AMOUNT SHOWN ____

(21)

Atlantic Disposal Service, Inc.

INDUSTRIAL – COMMERCIAL REFUSE REMOVAL

(609) 234-4000

CHURCH & SPRINGDALE ROADS
MT. LAUREL, N. J. 08057

[illegible]
INDUSTRIAL [illegible]
[illegible] LINE [illegible]
[illegible], N. J. 08103

DATE FEB 28 1974

TERMS: NET 10 DAYS

P.O. #DDP-16299-1

This is your invoice for all services performed this month and also is a statement of your account.

Detach and Return This Stub With Your Remittance. Canceled Check Is Your Receipt

	DATE	DESCRIPTION	INVOICE NO.	CHARGES		✓	CREDITS		BALANCE	
	JAN 1 1974	BALANCE FORWARD							271	00
	2/4/74	St.	35216	28	50				299	50
	2/12/74	St	35731	28	50				328	00
	2/14/74	ST	35812	28	50				356	50
Re	2/28/74	Feb. Serv.		43	00				399	50
	2/15/74	ST	35893	28	50				428	00
	2/20/74	St	35883	28	50				456	50
	2/21/74	St	35886	28	50				485	00
	2/22/74	St.	35916	28	50				513	50
	2/25/74	Ck. # 386188 CR-101					271	00	242	50
	2/25/74	St.	35891	28	50				271	00
				271	00					

3001

ATLANTIC DISPOSAL SERVICE, INC.
MT. LAUREL, N. J. 08057

PLEASE PAY LAST AMOUNT SHOWN

Atlantic Disposal Service, Inc.

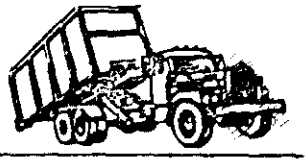
INDUSTRIAL – COMMERCIAL REFUSE REMOVAL

(6[illegible]) [illegible]34-4000

CHURCH & SPRINGDALE ROADS
MT. LAUREL, N. J. 08057

(28)

DEMPSTER-DINOSAUR



DEMPSTER DUMPSTER

№ 00032

ALLIED CHEMICAL CORP.
1100 LINE ST
CAMDEN, N J 08103

TERMS: NET 10 DAYS

This is your invoice for all services performed this month and also is a statement of your account.

Detach and Return This Stub With Your Remittance. Canceled Check is Your Receipt.

DATE	DESCRIPTION	CHARGES	CREDITS	BALANCE
				228.00
MAR 13 '74	398,465		228.00	.00
MAR 1 '74	36,018	28.50		28.50
MAR 12 '74	36,226	28.50		57.00
MAR 14 '74	36,294	28.50		85.50
MAR 18 '74	36,216	28.50		114.00
MAR 19 '74	36,220	28.50		142.50
MAR 19 '74	36,224	28.50		171.00
MAR 21 '74	36,384	28.50		199.50
MAR 22 '74	36,426	28.50		228.00
MAR 27 '74	36,495	28.50		256.50
		256.50		

Burroughs

ATLANTIC DISPOSAL SERVICE, INC.
MT. LAUREL, N. J. 08057

PLEASE PAY LAST AMOUNT SHOWN

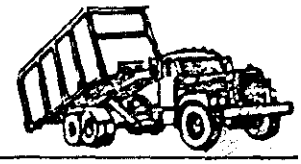
Atlantic Disposal Service, Inc.

INDUSTRIAL & COMMERCIAL REFUSE REMOVAL

234-4000

CHURCH & SPRINGDALE ROADS
MT. LAUREL, N. J. 08057

DEMPSTER-DINOSAUR



DEMPSTER DUMPSTER

№ 00033

P.O.# 22 P-162991

ALLIED CHEMICAL CORP.
1100 LINE ST
CAMDEN, N J 08103

TERMS: NET 10 DAYS

This is your invoice for all services performed this month and also is a statement of your account.

Detach and Return This Stub With Your Remittance. Canceled Check is Your Receipt.

DATE		DESCRIPTION	CHARGES	CREDITS	BALANCE
					43.00
MAR 13 '74	398,465			43.00	.00
MAR 31 '74	33	MONTHLY SERVICE	43.00		43.00

4002

Burroughs

ATLANTIC DISPOSAL SERVICE, INC.
MT. LAUREL, N. J. 08057

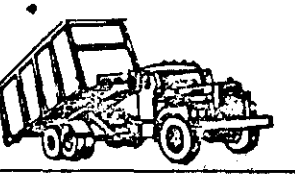
PLEASE PAY LAST AMOUNT SHOWN

INDUSTRIAL – COMMERCIAL REFUSE REMOVAL

CHURCH & SPRING[illegible]E ROADS
MT. LAUREL, N. J. 08057

(29)

DEMPSTER-CONSAL P



DEMPSTER-DUMPSTER

№ 00786

P.O. 4DDP-16299-1

ALLIED CHEMICAL CORP.
1100 LINE ST
CAMDEN, N J 08103

TERMS: NET 10 DAYS

This is your invoice for all services performed this month and also is a statement of your account.

Detach and Return This Stub With Your Remittance. Canceled Check is Your Receipt.

DATE		DESCRIPTION	CHARGES	CREDITS	BALANCE
					256.50
APR 10 '74	420,941			256.50	.00 ●
APR 5 '74	36,673		28.50		28.50 ●
APR 30 '74	37,044		28.50		57.00 ●
APR 10 '74		CONT SERV CHARGE	15.00		72.00 ●
APR 17 '74		CONT SERV CHARGE	15.00		87.00 ●

8

5021

Burroughs

ATLANTIC DISPOSAL SERVICE, INC.
MT. LAUREL, N. J. 08057

PLEASE PAY LAST AMOUNT SHOWN

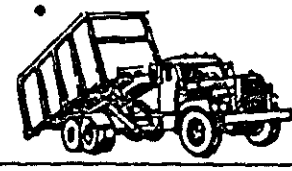
Atlantic Disposal Service, Inc.

INDUSTRIAL – COMMERCIAL REFUSE REMOVAL

(60[illegible]34-4000

CHURCH & SPRINGDALE ROADS
MT. LAUREL, N. J. 08057

DEMPSTER-DINOSAUR



DEMPSTER-DUMPSTER

№ 00787

P.O. #20P-16299-1

ALLIED CHEMICAL CORP.
1100 LINE ST
CAMDEN, N J 08103

TERMS: NET 10 DAYS

This is your invoice for all services performed this month and also is a statement of your account.

Detach and Return This Stub With Your Remittance. Canceled Check Is Your Receipt.

DATE	DESCRIPTION	CHARGES	CREDITS	BALANCE
				43.00
APR 31 '74 APR 30 '74	420,943 787 APRIL SERVICE	43.00	43.00	.00 ● 43.00 ●

8

Burroughs

ATLANTIC DISPOSAL SERVICE, INC.
MT. LAUREL, N. J. 08057

PLEASE PAY LAST AMOUNT SHOWN

Atlantic Disposal Service, Inc.

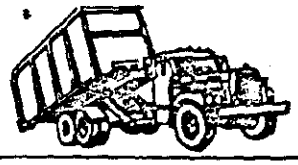
INDUSTRIAL – COMMERCIAL REFUSE REMOVAL

■ (8[illegible]) 234-4000

■ CHURCH & SPRINGDALE ROADS
MT. LAUREL, N. J. 08057

(30)

DEMPSTER-DINOSAUR



DEMPSTER-DUMPSTER

No. 02226

P.O.#DDP-16299-1

ALLIED CHEMICAL CORP
1100 LINE ST
CAMDEN, N J 08103

TERMS: NET 10 DAYS

This is your invoice for all services performed this month and also is a statement of your account.

Detach and Return This Stub With Your Remittance. Canceled Check is Your Receipt.

DATE	DESCRIPTION		CHARGES	CREDITS	BALANCE
					130.00
MAY 16'74	446,331			130.00	.00
MAY 13'74	37,256		28.50		28.50
MAY 31'74	0,226	MAY SERVICE	43.00		71.50
[illegible]	37,595		28.50		100.00
[illegible] 1'74		CONT.SERV.CHG	15.00		115.00
[illegible] 15'74		CONT.SERV.CHG	15.00		130.00

130 00

96350

6026

Burroughs

ATLANTIC DISPOSAL SERVICE, INC.
MT. LAUREL, N. J. 08057

PLEASE PAY LAST AMOUNT SHOWN

Atlantic Disposal Service, Inc.

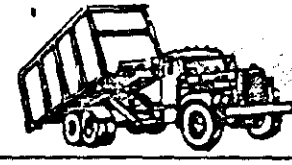
INDUSTRIAL - COMMERCIAL REFUSE REMOVAL

■ (60[illegible]34-4000

■ CHURCH & SPRINGDALE ROADS
MT. LAUREL, N. J. 08057

(31)

DEMPSTER-DINOSAUR



DEMPSTER-DUMPSTER

No. 02367

P.O.# 227-16299-1

ALLIED [illegible]
1100 LINE ST
CAMDEN, N. J. 08103

TERMS: NET 10 DAYS

This is your invoice for all services performed this month and also is a statement of your account.

Detach and Return This Stub With Your Remittance. Canceled Check is Your Receipt.

DATE	DESCRIPTION	CHARGES	CREDITS	BALANCE
				[illegible]
4	[illegible]	[illegible]		[illegible]
[illegible]	[illegible]	[illegible]		[illegible]
[illegible]	[illegible]	[illegible]		[illegible]
[illegible]	[illegible]	[illegible]		[illegible]
[illegible]	[illegible]	[illegible]		[illegible]
[illegible]	[illegible]	[illegible]	1[illegible]	[illegible]
[illegible]	[illegible]	[illegible]		[illegible]
[illegible]	JUN [illegible]	[illegible]		[illegible]
[illegible]	[illegible]	[illegible]		[illegible]
JUN 25 '74	38,260	28.50		242.50 ●
JUN 26 '74	38,268	28.50		271.00 ●
JUN 27 '74	38,092	28.50		299.50 ●
JUN 28 '74	38,296	28.50		328.00 ●

328.00

Burroughs

ATLANTIC DISPOSAL SERVICE, INC.
MT. LAUREL, N. J. 08057

PLEASE PAY LAST AMOUNT SHOWN

7025

Atlantic Disposal Service, Inc.

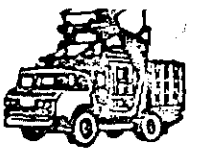
INDUSTRIAL - COMMERCIAL REFUSE REMOVAL

(609) 234-4000

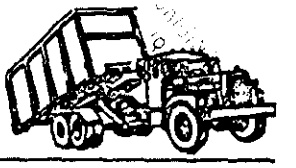
CHURCH & SPRINGDALE ROADS
MT. LAUREL, N. J. 08057

DUMPSTER

32



DEMPSTER-DINOSAUR



DEMPSTER-DUMPSTER

No. 03125

P.O.#DDP-16299-1

ALLIED CHEMICAL CORP
1100 LINE ST
CAMDEN, N J 08103

TERMS: NET 10 DAYS

This is your invoice for all services performed this month and also is a statement of your account.

Detach and Return This Stub With Your Remittance. Canceled Check is Your Receipt.

DATE	DESCRIPTION		CHARGES	CREDITS	BALANCE
					328.00
JUL 8 '74	38,436		28.50		356.50
JUL 8 '74	38,437		28.50		385.00
JUL 11 '74	38,546		28.50		413.50
JUL 22 '74	490,800			328.00	85.50
JUL 12 '74	38,565		28.50		114.00
JUL 19 '74	38,278		28.50		142.50
JUL 31 '74	3,125	JULY SERVICE	43.00		185.50
JUL 26 '74	38,791		28.50		214.00
JUL 30 '74	38,829		28.50		242.50

242.50

8005

Burroughs

ATLANTIC DISPOSAL SERVICE, INC.
MT. LAUREL, N. J. 08057

PLEASE PAY LAST AMOUNT SHOWN

Atlantic Disposal Service, Inc.

INDUSTRIAL - COMMERCIAL REFUSE REMOVAL

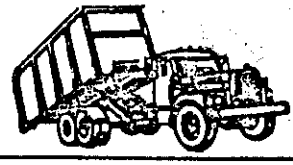
(9) 234-4000

CHURCH & SPRINGDALE ROADS
MT. LAUREL, N. J. 08057

DUMPMASTER

33

DEMPSTER-DINOSAUR



DEMPSTER-DUMPSTER

No. 03896

P.O.# DDP-162991

Allied Chemical Corp.
1100 Line St.
Camden, N.J. 08103

TERMS: NET 10 DAYS

This is your invoice for all services performed this month and also is a statement of your account.

Detach and Return This Stub With Your Remittance. Canceled Check is Your Receipt.

DATE	DESCRIPTION		CHARGES	CREDITS	BALANCE
					242.50
AUG 1 '74	38,771		28.50		271.00
AUG 2 '74	38,917		28.50		299.50
AUG 2 '74	38,920		28.50		328.00
AUG 6 '74	38,867		28.50		356.50
AUG 6 '74	38,869		28.50		385.00
AUG 7 '74	38,976		28.50		413.50
AUG 7 '74	38,978		28.50		442.00
AUG 8 '74	39,252		28.50		470.50
AUG 8 '74	38,979		28.50		499.00
AUG 9 '74	38,969		28.50		527.50
AUG 9 '74	39,243		28.50		556.00
AUG 12 '74	39,240		28.50		584.50
AUG 14 '74	39,310		28.50		613.00
AUG 15 '74	39,312		28.50		641.50
AUG 16 '74	39,318		28.50		670.00
AUG 31 '74	3,896	AUG SERVICE	43.00		713.00
AUG 20 '74	510,970			242.50	470.50
AUG 20 '74	39,391		28.50		499.00
AUG 27 '74	39,554		28.50		527.50
AUG 28 '74	39528		28.50		556.00

556.00

Burroughs

ATLANTIC DISPOSAL SERVICE, INC.
MT. LAUREL, N. J. 08057

PLEASE PAY LAST AMOUNT SHOWN

9026

Atlantic Disposal Service, Inc.

INDUSTRIAL / COMMERCIAL REFUSE REMOVAL

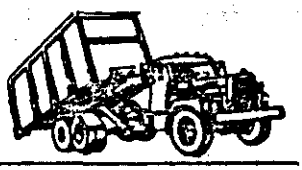
■ (609) 234-4000

■ CHURCH & SPRINGDALE ROADS
MT. LAUREL, N. J. 08057

DUMPMASTER

34

DEMPSTER-DINOSAUR



DEMPSTER-DUMPSTER

No. 04692

P.O.# DDP-16299-1

ALLIED CHEMICAL CORP
1100 LINE ST
CAMDEN NJ 08103

TERMS: NET 10 DAYS

This is your invoice for all services performed this month and also is a statement of your account.

Detach and Return This Stub With Your Remittance. Canceled Check is Your Receipt.

DATE		DESCRIPTION	CHARGES	CREDITS	BALANCE
					556.00
SEP 30 '74	4,692	SEP SERVICE	43.00		599.00
SEP 13 '74	39,759		28.50		627.50
SEP 17 '74	523,218			556.00	71.50
SEP 10 '74		1-6 YD SERVICE	15.00		86.50
SEP 24 '74		1-6 YD SERVICE	15.00		101.50

9088

Burroughs

ATLANTIC DISPOSAL SERVICE, INC.
MT. LAUREL, N. J. 08057

PLEASE PAY LAST AMOUNT SHOWN

Atlantic Disposal Service, Inc.

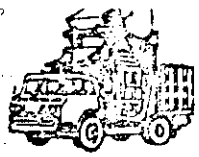
INDUSTRIAL – COMMERCIAL REFUSE REMOVAL

(609) 234-4000

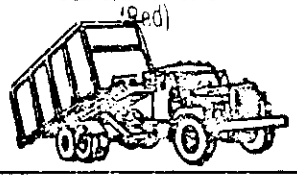
CHURCH & SPRINGDALE ROADS
MT. LAUREL, N. J. 08057

35

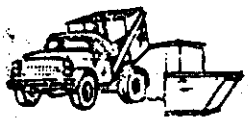
DUMPVASTEP



DEMPSTER-DINOSAUR



DEMPSTER-DUMPSTER



No. 05479

P.O.# 22P-16299-1

Detach and Return This Stub With Your Remittance. Canceled Check is Your Receipt.

DATE	DESCRIPTION	CHARGES	CREDITS	BALANCE
OCT 9 '74	40,427	28.50		158.50 ●
OCT 31 '74	5,479 OCT SERVICE	43.00		201.50 ●
OCT 21 '74	550,943		101.50	100.00 ●
OCT 21 '74	40,603	28.50		128.50 ●
OCT 23 '74	40,713	28.50		157.00 ●
OCT 24 '74	40,704	28.50		185.50 ●
OCT 25 '74	40,707	28.50		214.00 ●

9174

Burroughs

ATLANTIC DISPOSAL SERVICE, INC.
MT. LAUREL, N. J. 08057

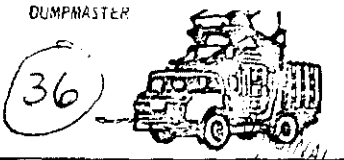
Atlantic Disposal Service, Inc.

INDUSTRIAL – COMMERCIAL REFUSE REMOVAL

(609) 234-[illegible]

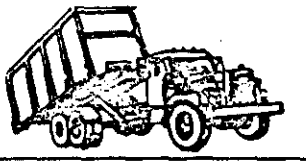
CHURCH & SPRINGDALE ROADS
MT. LAUREL, N. J. 08057

DUMPMASTER



(36)

DEMPSTER-DINOSAUR



DEMPSTER-DUMPSTER

No. 06969

P.O.# DDP-162994

Allied Chemical Corp
1100 Line St.
Camden, N.J. 08103

TERMS: NET 10 DAYS

[illegible] invoice to all services performed this month and also is a statement of your account.

Detach and Return This Stub With Your Remittance. Canceled Check is Your Receipt.

DATE		DESCRIPTION	CHARGES	CREDITS	BALANCE
					214.00
NOV 1 '74	40,814		28.50		242.50 ●
NOV 30 '74	6,969	NOV' SERVICE	43.00		285.50 ●
NOV 13 '74	565,783			214.00	71.50 ●
NOV 11 '74		1-6 YD SERVICE	15.00		86.50 ●
NOV 18 '74		1-6 YD SERVICE	15.00		101.50 ●
NOV 25 '74		1-6 YD SERVICE	15.00		116.50 ●

9257

Burroughs

ATLANTIC DISPOSAL SERVICE, INC.
MT. LAUREL, N. J. 08057

PLEASE PAY LAST AMOUNT SHOWN

ORIGINAL (Red)

DELAWARE VALLEY WORKS PLANT

Allied Chemical Corporation

Attachment III (1 of 2)

PURCHASE ORDER

AT DELAWARE DISTRICT PURCHASING, MARCUS HOOK, PA. 19061

SHIPPING SCHEDULE	DATE PROMISED	DATE REQUIRED	DATE OF ORDER	TERMS	NUMBER
	4/5/72		8/17/72	Net 10 days	DDP- 2117

F.O.B. DEFREIGHT 1 Week ARO

Our Plant

CHANGE NUMBER

SELLER

A.B.M. Disposal Service
329 N. Governor Printz Boulevard
Lester, Pennsylvania 19113

SHIP TO US AT

Industrial Chemicals Division
Delaware Works
Claymont, Delaware 19703

INSTRUCTIONS
IMPORTANT - SEND NUMBER OF COPIES INDICATED TO ADDRESS CHECKED OR INSERTED. IMPROPERLY ADDRESSED PAPERS MAY BE RETURNED FOR CORRECTION.

TO:	ACKNOWL. COPIES	SHIP. NOT.	B/L	INV.
ABOVE ADDRESS	1	1		
40 RECTOR ST., N.Y., N.Y. 10006				
"SHIP TO US AT" ADDRESS				

INVOICE, IN TRIPLICATE, ALLIED CH
TO ~~XXXXXXX~~ LOCATION-CORPORATE PR
P.O. Box 2105R, MORRISTOWN, N.J. 07

SHIP VIA & ROUTING
Your equipment and services

REQUISITION NUMBER
6-9666

ITEM	QUANTITY ORDERED	DESCRIPTION	PRICE	QUANTITY R
1	1 Lot	Services to remove total contents of Ponds as listed below and dispose of contents. (a) North Pond - Approx. 12,500 cu.ft. of 50% Phosphoric Acid and Phosphoric Muds (b) South Pond - Approx. 7,700 cu.ft. of 55% Phosphoric Acid and Phosphoric Muds Notes: Per Item No. 2, all material of both ponds will be contained in North Pond. A.B.M. will supply pump, labor, transport and dispose of all materials relieving Allied Chemical Corporation of all responsibility when trailers leave our Delaware Works. Seller shall not incur cost or perform work hereunder after total amount shall have aggregated $15,000.00 without prior written authorization by Owner's Purchasing Department.	$290.00 per trailer load NOT TO EXCEED $14,500.00 LUMP SUM	

5

VENDOR CODE

VOUCHER

MONTH | NUMBER E. H. CAHILL

AUTHORIZED SIGNATURE OF BUYER

PAGE 1 OF 2

PAYMENT DATE | RECEIVING REPORT NO. | PARTIAL | FINAL

GROSS | TARE | NET

ITEM	DIV. OR CO.	CONTROL CENTER MAJOR	CONTROL CENTER MINOR	COST CENTER	ACCOUNT	JOB, PROD., R/M CODE	QUANTITY	DISTRIB. AMOUNT	CASH DISC.	VENDOR REFERENCE* INVOICE NO.	VENDOR REFERENCE* INVOICE DATE

DATE REPORTED	CAR NO./CARRIER	F/B NO.	FREIGHT CHARGE	RECEIVED BY	APPROVED

EXTENSIONS CHECKED | PLANT ACCOUNTING SIGNATURE - DATE | VOUCHER APPROVED FOR PAYMENT - DATE

*SHOW INVOICE NUMBER AT ALL TIMES. U DATE ONLY WHEN NUMBER IS NOT AV

Corporation

Attachment III (2 of 2)

PURCHASE ORDE

AT

NUMBER DDP-21171

CHANGE NO

ITEM	QUANT'Y ORDERED	DESCRIPTION	PRICE	QUANTITY REC
		Contractor must comply with the terms and conditions of this purchase order and submit required certificates of insurance, in form satisfactory to the Buyer, to the undersigned prior to the start of work.		
		CONFIRMING		
		Remove contents of Phosphoric acid ponds 999-9010-559-510082-G25 Auth. Pickup		

5

Allied Chemical Corporation

Attachment IV (1 of 3)

AT DELAWARE DISTRICT PURCHASING, MARCUS HOOK, PA. 19061

PURCHASE ORDER

SHIPPING SCHEDULE	DATE PROMISED	DATE REQUIRED	DATE OF ORDER	TERMS	NUMBER
	Start 10-28		10-27-72	Net 10 days	DDP- 2349

F.O.B. & FREIGHT: Our Plant

CHANGE NUMBER:

SELLER:
ABX Disposal Service Company
329 North Governor Printz Boulevard
Lester, Pennsylvania 19113

SHIP TO US AT:
Industrial Chemicals Division
Delaware Works
Claymont, Delaware 19703

INSTRUCTIONS
IMPORTANT - SEND NUMBER OF COPIES INDICATED TO ADDRESS CHECKED OR INSERTED. IMPROPERLY ADDRESSED PAPERS MAY BE RETURNED FOR CORRECTION.

TO:	ACKNOWL. COPIES	SHIP. NOT.	B/L	INV.	CO
ABOVE ADDRESS	1	1			
40 RECTOR ST., N.Y., N.Y. 10006					
"SHIP TO US AT" ADDRESS					

INVOICE, IN TRIPLICATE, TO SHIPPING LOCATION

SHIP VIA & ROUTING: Your equipment and service

STOREHOUSE ORDER ATTACHED

REQUISITION NUMBER: 6-10192

ITEM	QUANTITY ORDERED	DESCRIPTION	PRICE	QUANTITY REC
1	1 Lot	Material, labor, supervision, insurance, tools and facilities to remove and dispose liquid contents of two storage tanks located in north east corner of unit #1 Building of the Phosphate Dept. Liquid contents include an estimated 140 tons of 71% phosphoric. Contractor to supply all necessary pumps, lines, or hoses, etc. and transport and dispose of all liquid contents relieving Allied Chemical Corp. of all reponsibility when trailers leave Delaware Works. Contractor shall comply with the attached "Plant Safety Regulations for Contractors." Contractor must comply with the terms and conditions of this purchase order and submit required certificates of insurance, in form satisfactory to the Buyer, to the undersigned prior to the start of work. C O N F I R M I N G	$20.00/ton	

5

CHEMICAL COMPANY ENVIRONMENTAL CONTROL
JUN 20 '82

	INFO.	ACT.		INFO.	ACT.
RS			GK		
EJS			KWM		
EFB			WFP		
GB			GBR		
JMD			WJS		
DRF					
FILE					
RET. TO					

Phos. Dismantle Unit #1, 998-9003-786-00--G25 Auth. 06-786-Wright

VENDOR CODE

VOUCHER: MONTH | NUMBER

AUTHORIZED SIGNATURE OF BUYER: E. N. [illegible]

PAGE __OF__

PAYMENT DATE | RECEIVING REPORT NO. | PARTIAL | FINAL

GROSS | TARE | NET

ITEM	DIV. OR CO.	CONTROL CENTER MAJOR	CONTROL CENTER MINOR	COST CENTER	ACCOUNT	JOB, PROD., R/M CODE	QUANTITY	DISTRIB. AMOUNT	CASH DISC.	VENDOR REFERENCE* INVOICE NO.	INVOICE DATE
		11-7-72			998-9003-786-02-			$1890		1451	

basis 92 tons at $30.00/ton

DATE UNLOADED	DATE REPORTED	CAR NO./CARRIER	F/B NO.	FREIGHT CHARGE	RECEIVED BY	APPROVED

WHERE PLACED	EXTENSIONS CHECKED	PLANT ACCOUNTING SIGNATURE - DATE	VOUCHER APPROVED FOR PAYMENT - DATE

*SHOW INVOICE NUMBER AT ALL TIMES. USE INVOICE DATE ONLY WHEN NUMBER IS NOT AVAILABLE

Corporation

AT

Attachment IV (2 of 3)

PURCHASE ORDER

SHIPPING SCHEDULE	DATE PROMISED	DATE REQUIRED	DATE OF ORDER	TERMS	NUMBER
					23499

F.O.B. & FREIGHT

CHANGE NUMBER

SELLER: ABM Disposal Service

SHIP TO US AT: Dr. Medio - Stoopes - Pollard

INSTRUCTIONS

IMPORTANT - SEND NUMBER OF COPIES INDICATED TO ADDRESS CHECKED OR INSERTED. IMPROPERLY ADDRESSED PAPERS MAY BE RETURNED FOR CORRECTION.

TO:	ACKNOWL. COPIES	SHIP. NOT.	B/L	INV.	COR
ABOVE ADDRESS					
40 RECTOR ST., N.Y., N.Y. 10006					
"SHIP TO US AT" ADDRESS					
R-I #877					

SHIP VIA & ROUTING: Their

REQUISITION NUMBER: 6-10192

ITEM	QUANTITY ORDERED	DESCRIPTION	PRICE	QUANTITY REC'D
	1 Lot	Labor, etc. to ~~dispose~~ remove and dispose of 92 tons of Ind. Waste from 2 Storage tanks N.E. Corner of Unit #1 Bldg		

OK - J Wright

Jsw

Auth 06-786

VENDOR CODE

VOUCHER	
MONTH	NUMBER

AUTHORIZED SIGNATURE OF BUYER

PAGE ___ OF ___

PAYMENT DATE	RECEIVING REPORT NO.	PARTIAL	FINAL
			✓

GROSS	
TARE	
NET	

ITEM	DIV. OR CO.	CONTROL CENTER MAJOR	CONTROL CENTER MINOR	COST CENTER	ACCOUNT	JOB, PROD., R/M CODE	QUANTITY	DISTRIB. AMOUNT	CASH DISC.	VENDOR REFERENCE* INVOICE NO.	VENDOR REFERENCE* INVOICE DATE	ENG COD
	C	11/6/72										

DATE UNLOADED	DATE REPORTED	CAR NO./CARRIER	F/B NO.	FREIGHT CHARGE	RECEIVED BY	APPROVED
					Coe	

WHERE PLACED	EXTENSIONS CHECKED	PLANT ACCOUNTING SIGNATURE - DATE	VOUCHER APPROVED FOR PAYMENT - DATE

C-3042 (9-68)

PARTIAL RECEIVING REPORT

*SHOW INVOICE NUMBER AT ALL TIMES. USE INVOICE DATE ONLY WHEN NUMBER IS NOT AVAILABLE.

ORIGINAL (Red)

DELAWARE VALLEY WORKS PLANT

Attachment I
(1 of 2)

Allied Chemical

Industrial Chemicals Division
P.O. Box 1139R
Morristown, New Jersey 07960

April 6, 1979

Mr. Thomas Kulesza, Chief
Industrial Waste Unit
Water Pollution Control Division
1180 Municipal Services Building
Philadelphia, PA 19107

Re: ABM, Inc.

Dear Mr. Kulesza:

This is in reference to your phone call of several weeks ago to our Mr. L. A. Mattioli concerning our use of ABM inc. for waste disposal. This letter will also confirm Mr. Mattioli's phone call in response.

We believe that our former Camden, New Jersey facility utilized the services of ABM Inc. to remove trash and refuse. This belief is based on conversations with former employees at Camden. Since silicate production operations at Camden were terminated in May, 1975 and the facility sold in June, 1976, records are not readily available. Of the records reviewed, none indicate what type of material was removed by ABM Inc., or, indeed, even that ABM Inc. removed any material. However, as stated above, we feel that ABM Inc. was utilized in some trash and refuse removal from the Camden facility.

As Mr. Mattioli informed you, our "dead record" files have not been reviewed since we seriously doubt that these records would reveal any substantive information concerning the nature of the materials removed by ABM Inc. Therefore, we do not intend to extend our investigation into these files. In addition, we wish to point out that it is our belief that any information in these files would be limited to copies of purchase orders similar in content to those which you found in ABM Inc.'s records.

During our review of the records mentioned above, we found evidence that ABM Inc. was used for disposal of waste from our Claymont, Delaware plant. Our records indicate that in January and February, 1973 three bulk shipments were consigned to ABM Inc. These shipments were composed of sodium sulfite/sulfate liquors, an oil/water mix from a sluiceway and an oil/wastewater mix from a hydrofluoric acid operation. We have found no information indicating which dumpsite was used by ABM Inc. for these shipments.

Attachment I
(2 of 2)

Should you have further questions regarding this matter, please contact me.

Very truly yours,

J. M. DeVoe

J. M. DeVoe
Assistant Director
Environmental Services

/ss

cc: L. A. Mattioli

Allied Chemical

Attachment II

Industrial Chemicals Division
P.O. Box 1139R
Morristown, New Jersey 07960

June 12, 1979

Mr. Thomas Kulesza, Chief
Industrial Waste Unit
Water Pollution Control Division
1180 Municipal Services Building
Philadelphia, PA 19107

Re: ABM, Inc.

Dear Mr. Kulesza:

This letter will confirm the information concerning shipments from Allied Chemical's Claymont Delaware Plant to ABM, Inc. that Mr. Leon Mattioli gave you by telephone yesterday.

Our letter of April 6, 1979 listed the shipments to ABM, Inc. indicated in plant records. Further searching of the records has uncovered a total of 1224 tons of Phosphoric Acid and phosphate residues shipped in bulk from the Claymont Delaware Plant to ABM, Inc. during 1972, 1973. We do not have information indicating which dumpsite was used by ABM, Inc. for these shipments.

If you have any further questions regarding these shipments, please contact me.

Very truly yours,

J. M. DeVoe
Assistant Director
Environmental Services

JMD:MCM:cc

Attachment IV
(3 of 3)

ABM [illegible] SERVICE
[illegible]
[illegible] PENNSYLVANIA 19103

INVOICE

2534

TO [illegible]

DATE [illegible]

CUSTOMER ORDER NO. [illegible]

SALESMAN [illegible]

VIA [illegible]

DUPLICATE NOT FOR PAYMENT

TERMS:

FIXED CAPITAL ITEM
06-786
G. R.

QUANTITY	DESCRIPTION	PRICE	AMOUNT
92	tons of industrial WASTE	20.00	1840.00

CHARGE TO 998-9003
786-02
DATE 11/7/72

NOV - 6 1972

REC'D DELAWARE NOV 3 1972
DISCOUNT ____ % BY ____ ENTRY NO. 1451
PRICE G. R. ____ EXT. G. R. ____
QUAN. & FORD'N G. R. ____ DATE ____

QUADRUPLICATE

Thank You!

FORM B: DISPOSAL SITE INFORMATION

|_|_|_|_|_|_|_|_| (1-8)
(DO NOT USE)

COMPLETE THIS FORM FOR EVERY SITE (INCLUDING THE LOCATION OF THIS FACILITY AS ONE SITE) USED FOR THE DISPOSAL OF PROCESS WASTES GENERATED BY THIS FACILITY SINCE 1950.

Company Name: Allied Chemical Corporation
Facility Name: Baker and Adamson Works
Name of Site: Kin Buc Landfill
Address of Site: Meadow Road
no. street

Edison NJ
city state zip code

Name of Owner (while used by facility): Scientific Chemical Treatment
Address: Scotch Plains, NJ
no. street

city state zip code

Current Owner (if different from above): don't know
Address:
no. street

city state zip code

1. Location (1= the property on which facility is located; 2= off-site) ..... |2| (10)
2. Ownership at time of use (1= company ownership; 2=private but not company ownership) 3=public ownership) ..... |2| (11)
3. Current status (1= closed; 2= still in use; 9=don't know) ..... |1| (12)
   IF CLOSED, specify year closed ..... 19|76| (13-14)
4. Year first used for process waste from this facility ..... 19|74| (15-16)
5. Year last used for process waste from this facility (enter "79" if still in use) ..... 19|76| (17-18)
6. Total amount of process waste from this facility disposed at site:
   thousand gallons ..... |_|_|_|_|_|_|_| (19-26)
   hundred tons ..... |_|_|_|_|_|_|34| (27-33)
   thousand cubic yards ..... |_|_|_|_|_|_|_| (34-41)
7. Specify type(s) of disposal method(s) used at site and whether method is still in use (1=currently in use; 2=no longer in use; 3=never used; 9=don't know)
   landfill, mono industrial waste ..... |1| (42)
   landfill, mixed industrial waste ..... |1| (43)
   landfill, drummed waste ..... |9| (44)
   landfill, municipal refuse co-disposed ... |9| (45)
   pits/ponds/lagoons ..... |9| (46)
   deep well injection ..... |9| (47)
   land farming ..... |9| (48)
   incineration ..... |9| (49)
   treatment (eg. neutralizing) ..... |9| (50)
   reprocessing/recycling ..... |9| (51)
   other (specify) ..... |9| (52)
8. Users of this site (1=this facility; 2=this facility and other company facilities only; 3=this company and others; 9=don't know) ..... |9| (53)

LIST NAMES AND ADDRESSES OF OTHER KNOWN USERS BELOW

The process wastes sent to the landfill averages approximately 75% water and 25% solids. The heavy metals and trace metals were present in minute quantities and were required to be listed as contained in the process waste.

The analysis of the water portion of the sludge for years 1974, 1975, 1976 are as follows:

Metal	Quantity
Arsenic	<0.03 ppm
Selenium	<0.17 ppm
Antimony	No analysis
Mercury	<.01 ppm
Iron	<4.8 ppm
Manganese	<1.5 ppm
Magnesium	<12.8 ppm
Zinc	<6.9 ppm
Cadmium	<0.11 ppm
Copper	<1 ppm
Chromium	<0.75 ppm
$Chromium^{+6}$	No analysis
Lead	<1.6 ppm
Organics	
Oil & Oil Sludge	<3.2 ppm

FORM B - Page 2

| | | | | | | | | (1-8) (DO NOT USE)

Company Name: Allied Chemical Corporation

Facility Name: Baker and Adamson Works

Site Name: Kin Buc

9. Components (or characteristics) of process waste from this facility disposed at site: (1=present in waste; 2=not present in waste; 9=don't know)

FILL IN EVERY BLOCK SPACE

Acid solutions, with pH<3	2	(10)
pickling liquor	2	(11)
metal plating waste	2	(12)
circuit etchings	2	(13)
inorganic acid manufacture	2	(14)
organic acid manufacture	2	(15)
Base solutions, with pH>~~10~~ 12	2	(16)
caustic soda manufacture	2	(17)
nylon and similar polymer generation	2	(18)
scrubber residual	2	(19)
Heavy metals & trace metals (bonded organically or inorganically)	1	(20)
arsenic, selenium, antimony	1	(21)
mercury	1	(22)
iron, manganese, magnesium	1	(23)
zinc, cadmium, copper, chromium (trivalent)	1	(24)
chromium (hexavalent)	1	(25)
lead	1	(26)
Radioactive residues, >50 pico curies/~~liter~~ gram	9	(27)
uranium residuals & residuals for UF_6 recycling	9	(28)
lathanide series elements and rare earth salts	9	(29)
phosphate slag	9	(30)
thorium	9	(31)
radium	9	(32)
other alpha, beta & gamma emitters	9	(33)
Organics	1	(34)
pesticides & intermediates	9	(35)
herbicides & intermediates	9	(36)
fungicides & intermediates	9	(37)
rodenticides & intermediates	9	(38)
halogenated aliphatics	9	(39)
halogenated aromatics	9	(40)
acrylates & latex emulsions	9	(41)
PCB/PBB's	9	(42)
amides, amines, imides	9	(43)
plastizers	9	(44)
resins	9	(45)
elastomers	9	(46)
solvents polar (except water)	9	(47)
carbontetrachloride	9	(48)
trichloroethylene	9	(49)
other solvents nonpolar	9	(50)
solvents halogenated aliphatic	9	(51)
solvents halogenated aromatic	9	(52)
oils and oil sludges	1	(53)
esters and ethers	9	(54)
alcohols	9	(55)
ketones & aldehydes	9	(56)
dioxins	9	(57)
Inorganics	1	(58)
salts	1	(59)
mercaptans	9	(60)
Misc.	9	(61)
pharmaceutical wastes	9	(62)
paints & pigments	9	(63)
catalysts (eg. vanadium, platinum, palladium)	9	(64)
asbestos	9	(65)
shock sensitive wastes (eg. nitrated toluenes)	2	(66)
air water reactive wastes (eg. P_4, aluminum chloride)	2	(67)
wastes with flash point below 100° F	9	(68)

Allied Chemical

ORIGIN (CHECK ONE BOX)
☐ CORPORATE ENGINEERING
P.O. BOX 2106 R
MORRISTOWN, N.J. 07960

☑ ENGINEERING
SPECIALTY CHEMICALS DIVISION
P.O. BOX 1087 R
MORRISTOWN, NEW JERSEY 07960

☐

SPEEDMEMO

MEMO NO. _____

TO R Sobel, atten J Gouck | FROM W R Blank

SUBJECT EZW, B&A Land fills | JOB NO. 73-405

☐ REPLY REQUIRED
☑ NO REPLY REQUIRED | DATE 5/28/7[illegible]

Attached is another (I gave you one earlier) newspaper article covering Edison's attempts to shut down the land fill operation which B&A uses and we propose to use for EZW wastes, perhaps via B&A.

It would appear that every effort should be taken to stay abreast of this situation.

AC-X-0/37

COPIES:
EXTRA COPY #1 TO D W Haberstroh w/att
EXTRA COPY #2 TO A J Rocko "
File HCM, BLO "

-1206(7/74)

Edison council moves to shut chemical dump

AC-X-0/38

By LAWRENCE NAGY

The Edison Township Coun-
cil last night approved an ordi-
nance giving officials the
power to shut down operations
at the only chemical waste
landfill in New Jersey.

The ordinance, limiting the
height of the mounds of gar-
bage at the Kin-Buc landfill to
[illegible] feet, is expected to be chal-
lenged in court by the opera-
tors of the facility, who con-
tend the State Department of
Environmental Protection
(DEP) and Public Utilities
Commission (PUC) have
exclusive jurisdiction over
landfills and municipal regula-
tions invalid.

Roland Winter, Edison
Township attorney who draft-
ed the measure at the request
of the township council, said
he expects the ordinance to be
challenged in court. He said
the ordinance would be defend-
able part of the municipal po-
lice power to protect the health
and safety of residents.

Winter said the measure
was drafted in response to
state, county and federal
"inaction" in forcing Kin-Buc to
shut down operations at the
[illegible] 30-acre site off Mead-
ow Road near the Raritan
River.

The Township Council
came under heavy criticism
from residents two weeks ago
when they complained that munici-
pal officials were not taking
strong enough measures
against the landfill.

"It was no secret Edison
wants Kin-Buc shut down.
We are going to send copies of
the ordinance to everyone
from the President of the
United States to the Middlesex
County Board of Freeholders,"
Winter said.

"We [illegible] feel 14 states
[illegible] dumping their poi-
sonous wastes in Edison. We
don't want to be the dump of
the Northeast," he said.

Portions of the landfill al-
ready exceed the 85-foot height
limit. Winter said the lim-
[illegible] was arrived at arbi-
trarily but designed to allow
landfill operations as soon as possi-
ble.

DEP regulations do not limit the height of landfills but the state agency does require engineering designs from landfill operators which include projections for the height, as well as life expectancy and total volumes of waste at the dumping sites.

• • •

Beatrice Tylutki, DEP director of solid waste administration, said the question of state and local jurisdiction over landfills "is not as clear as it should be."

She noted that under the 1970 state statutes regulating landfills DEP jurisdiction generally pre-empts local control. She said a municipality, for example, cannot pass zoning ordinances which simply exclude all landfills.

Winter cited the seepage of leachate from the chemical wastes dumped at the Kin-Buc site as a hazard which would enable the municipality to invoke its police power to protect citizens.

The Kin-Buc operators have been cited by the DEP for numerous environmental violations.

AC-X-0/39

Sel JAG

A. J. Cipolla
R. Sobel ✓

Kin Buc

Our solids disposal site is under fire.
What alternatives do we have?

J. F. Smigel
5/26/76

J. F. S.

THE STAR-LEDGER, Monday, May 24, 1976

MAY 26 1976

EASY DUMP: DEP official calls for stiffer rules on chemical landfill

By LAWRENCE NAGY

State environmental regulations governing chemical dumping at landfills need strengthening, according to the Department of Environmental Protection (DEP) official who heads the office charged with enforcing and formulating such rules.

Beatrice Tylutki, director of Solid Waste Administration of DEP, who is reviewing a proposal from the state's only chemical dump in Edison to shift operations to an adjacent site, said controls on the amount and types of chemicals allowed in landfills "haven't been adequately covered by rules and regulations so far."

The proposal being considered by Tylutki's office has raised the ire of Edison residents and officials, who contend the 30-acre Kin-Buc I chemical dumping site has become so harmful to the environment that plans for opening an adjacent 60-acre site should be dropped and the present site closed immediately.

Millions of gallons of industrial chemical wastes — including hazardous and toxic substances — are being dumped at the Kin-Buc I site near the Raritan River each week, officials have charged.

• • •

There are no DEP guidelines on how much chemical waste can be dumped at the site, no requirements for detailed reporting by the site operators of the kinds and amounts of chemicals deposited in the mounds of garbage, no prohibitions on dumping specific hazardous wastes and no way for DEP to accurately confirm the limited reports now received from the chemical landfill, said Tylutki.

"We do have a requirement but not enough muscle to meet what we'll need in the future," she said.

Chemical wastes brought into the landfill are required to be recorded only under vague classifications, Tylutki noted. Among the violations cited by DEP at Kin-Buc since January was the failure of the landfill operators to furnish DEP with a list of wastes falling under the hazardous category which were received during 1975.

DEP requires an engineering design for new landfills, showing the acreage, height and projected life of the dump. An environmental impact statement for a new landfill can also be required at the discretion of DEP officials, Tylutki noted.

• • •

Proposed regulations listing hazardous wastes that would be prohibited from landfills are pending, but Tylutki predicted the rules probably would not be adopted because of criticism of administration difficulties.

Tylutki noted that at a meeting with Edison officials last month on the Kin-Buc II proposal, her office would seek authorization to hire a consultant to formulate specific rules on dumping hazardous wastes.

DEP estimates based on a one-week inspection in March put the amount of liquid chemical waste being dumped at Kin-Buc I in excess of 20 million gallons a year. The same survey estimated the site is accepting 200,000 tons of solid waste annually.

"This survey frankly astonished a lot of people including us," Tylutki said.

One reason for the surprise, according to Tylutki, is "a tremendous increase" in the level of dumping at Kin-Buc over the last six months. She noted Kin-Buc officials did not deny a sharp increase.

"We have no doubt that the liquids are coming from more than the Northeastern states. We have no reason to dispute the contention that waste material is coming into the site from a considerable distance," she said. Chemical wastes may be flowing to the Edison site from 10 states, according to reports received by DEP officials.

Kin-Buc's virtual monopoly in chemical dumping in New Jersey came about because other landfills voluntarily stopped accepting chemical wastes or closed altogether and because DEP enforcement efforts closed landfills to chemical wastes where it was proven that environmental damage was occurring, Tylutki said.

Ironically, strong DEP regulation of new landfills since 1974 has been cited for the single site in the heart of densely populated Middlesex County.

Tylutki said no landfills have applied for permission to accept liquid chemical wastes since 1974.

Theodore O'Neill, Middlesex County solid waste management program administrator, has joined Edison officials who object to the concentration of chemical dumping in what they contend is the overburdened Kin-Buc site.

Kin-Buc officials assert they want to close the Kin-Buc I site and replace it with the Kin-Buc II operation. Edison officials contend the second site should not be opened, while O'Neill has called for strict controls limiting the new site and ensuring protection against future environmental damage from the inactive Kin-Buc I site.

Tylutki said she expects Kin-Buc to submit a revised plan for the new 60-acre site which would call for a combination processing facility and landfill. Only treated chemicals would be dumped into the new site under the plan which would allow Kin-Buc I to accept untreated chemical waste frozen at current levels until the second site is fully operational.

AC-X-0/08

EPS sludge - to Kin Buc Landfill Edison N.J.

Shipped sludge to Kin Buc from middle of December 1974 to week of July 26, 1976

1. All sludge boxes have a certain amount of return sludge in the form of solid cake.
2. Weight of 6 boxes weighed in Nov 1976 showed the following weight (difference between Tare + Field

weight of sludge

22,200
20,260
16 100
12 000
15 820
13 400
99780#

These boxes contained 10 to 12 inches of returned solids - ~~Takes~~ This is probably a good overall average.

$\frac{99780^{\#}}{6 \text{ boxes}} = 16,630^{\#}/\text{box}$

$16,630^{\#}/\text{box} \times 20\%$ solids $= 3324^{\#}$ solids/box.

3 Quantity shipped to Kin Buc

middle of Dec to Jan 1 — 10 boxes est
Jan 1 1975 to Dec 31 1975 — 285 actual
Jan 1 1976 to week of July 28 1976 — 346 actual
641 Total

3324 # solid/hour x 641 hours = 2130684 # solids

2130684 # x 90% CaF_2 (Reported) = 1917016 # CaF_2
2000 = 960 Tons

~~estimated 960 Tons CaF_2 to Kin Bee~~
Reported approximately 950 tons to
H. Robre MTO on 1/8/79 (by phone)
no follow up letter.

16630 x 641 Hours = 10,659,830
2000 = 5330 Tons

5530 Tons x 25% Solids = 1383

AC-X-0/09

1976
to Ken Bree

AC-X-0/10

1/5	5	
1/12	5	
1/19	19	
1/26	5	5/24 - 12
2/2	15	6/1 - 14
2/9	4	6/7 - 11
2/17	13	6/14 - 17
2/23	17	6/21 - 13
3/1	10	6/28 - 11
3/8	21	
3/15	14	
3/22	14	
3/29	8	
4/5	9	7/6 - 13
4/12	16	7/12 - 10
4/19	14	7/19 - 15
4/26	12	7/26 - 2
5/4	9	
5/10	6	Total 346
5/17	13	

~~12/25/74~~
~~12/25/75~~

Allied Chemical

MEMORANDUM

DATE: August 12, 1976

AC-X-0/27

TO: R. Sobel

SUBJECT: Chemical Sludge - B&A Works
Disposal in New Jersey

1. I spoke to Mr. Frank Coolick, NJ Bureau of Solid Waste Management on 8/10 in regard to a permit to resume dumping of sludge from B&A.

2. According to him, the Kin-Buc site in Edison is closed and will not be able to accept any chemical wastes. This ban will continue until Kin-Buc II is in operation - at least one year away.

3. If we could chem-fix the sludge with fly ash and some other material that would not have a contaminated leachate, a permit would be issued for use at the Kinsley Dump, Depford, NJ.

J. A. Gouck

JAG:jp
cc: R. L. Fawcett
L. A. Mattioli
A. J. Stewart

ALLIED CHEMICAL CORP. DELAWARE VALLEY WORKS
WASTE SHIPMENTS FROM NORTH PLANT, MARCUS HOOK, PA.

WASTE & DESCRIPTION	CARRIER	SHIPMENTS	
		WHERE	WHEN
Treatment Plant Sludge Containing primarily Boter, calcium, fluoride, heavy metals.	Eastern Industrial Corporation Deptford, N.J.	Keim Duc Landfill Edison, N.J.	1974 to 1976

AC-X-0/02

1A

SCIENTIFIC, INC.

Industrial Disposal Division • Chemical Waste Division

383 Meadow Road • Edison, New Jersey 08817 • Phone (201) 985-6602-03

RECEIVED

75 OCT 14 AM 10:53

Allied Chemical Corp.
Baker & Adamson Works
Marcus Hook, Pa. 19061
Attn: Mr. Edward N. Cahill

October 8, 1975

Gentlemen:

With reference to your letter dated Sept. 23, 1975 concerning the disposal of a miscellaneous accumilation of hazardous chemicals, we would like to offer the following proposal for your consideration. Based on the number of small containers it will be necessary to repackage them into 55 gallon drums containing a suitable absorbent. We have supplied your Mr. Bernie Zuks with copies of our standard packaging guide for laboratory chemicals. For ease of preparation of these waste chemicals we will accept those materials with weights greater than five pounds packed in cartons and then palletized conforming with normal ICC/DOT regulations. Please note that this does not include any gas cylinders, which must be packed in 55 gallon drums. Any water reactive metals (ie: Sodium Potassium) should be packaged in a separate drum.

Cost Analysis:

1) palletized miscellaneous chemicals	-	$400.00 per pallet
2) 55 gallon drum packaged lab chemicals and gas cylinders	-	$100.00 per drum
35 gallon drum packaged lab chemicals	-	$ 75.00 per drum
3) 55 gallon drum packaged water reactive metals	-	$125.00 per drum
4) 55 gallon drum fuming sulfuric acid	-	$ 75.00 per drum
5) 55 gallon drum potassium hydroxide	-	$ 45.00 per drum
6) 3x55 gallon drums nacconal 88SA	-	$ 30.00 per drum

To insure saftey in the transportation of the above chemicals we would require that the drums containing gas cylinders and water reactive metals be clearly designated. If this proposal meets with your approval, we will assign a code number which also must appear on each drum to identify Allied Chemicals waste chemicals.

We thank you for the opportunity of quoting on this project and look foward to beginning a long term working arrangement with the Baker & Adamson plant.

COMPANY CORRESPONDENCE

KINBUC

B&A Solid Wor

1A

TO DIV: Specialty Chemicals

FROM DIV: Specialty Chemicals

LOCATION: Morristown Office - CRL

LOCATION: B&A Works

ATT'N OF: Mr. J. A. Gouck
Mgr.-Environmental Control

DATE: February 6, 1975

SUBJECT: INCREASED SLUDGE COSTS

1. As indicated on the attached memo, sludge costs for hauling to Edison, N.J., are $185 per container. We have reduced the number of containers as a result of the Sulfuryl Fluoride plant shutdown to approximately 10 per week. Thus, the present cost of hauling is $1850 per week.

2. Radio reports in this area indicate continued opposition by the residents of Deptford Township, N.J., to dumping of chemical wastes. Even if the Kinsley landfill is approved by New Jersey EPA, the sludge hauling costs will run at $900 per week.

3. At our meeting of January 14, 1975, there was agreement that we should explore admixtures of our sludge with Delaware Works' material currently being sold to paving contractors. In view of the savings and possible profit involved, I would appreciate your expediting the investigation through Corporate channels. We will be glad to supply Delaware Works with any samples required.

L. A. Mattioli

L. A. Mattioli, Supv.
Environmental Control

LAM/eg

cc: Messrs. B. W. Garland
C. M. Strauss
E. N. Cahill
A. J. Cipolla

(9-63) PTD. IN U.S.A. (F)

1A

Allied Chemical

MEMORANDUM

DATE: June 14, 1976

TO: J. F. Smigel

SUBJECT: B&A Works
Solid Waste Disposal

1. Reference is made to the current publicity in the local papers with respect to solid waste disposal at the Edison, NJ site.

2. The Kin-Buc landfill to which our B&A sludge is hauled, is the only NJDEP approved site for the disposal of hazardous or chemical sludges. The present disposal system at the landfill site is to mix the chemical sludges and/or liquids with domestic trash and cover with dirt.

3. Gaess Environmental Services, owner and operator of the site, has indicated this is "election year politics" and any possible regulation would be faced with legal proceedings on their part.

4. The proposed new site, Kin-Buc II, is an adjacent 60-acre area where it is planned to have neutralization facilities, monitoring wells, clay-lined holding lagoons and clay-lined disposal sites for an up-to-date facility. This plan has had a preliminary review and verbal approval by the NJDEP. Even without the present local political action, it would be at least two years before this site would be ready.

5. With reference to another action that could affect B&A operations, the NJ Supreme Court has issued an injunction to delay the enforcement of a NJ regulation banning disposal of out-of-state wastes at NJ sites. The case is before the US Supreme Court and a decision is expected late 1977.

6. In view of the above situation, it is recommended that alternate sites be evaluated for possible disposal of B&A Works residues. The State of Pennsylvania has permitted 26 landfill sites; the location and type of waste acceptable at each should be determined by the Works.

7. We will assist if needed.

R. Sobel

RS:jp

cc: A. J. Cipolla
R. L. Fawcett
J. A. Gouck
A. J. Stewart
C. H. Strauss

ATTACHMENT RC-74
(31 pages)

| | | | | | (1-5)
(DO NOT USE)

FORM A: GENERAL FACILITY INFORMATION

Company Name: [illegible]

Facility Name: Delaware Works

Address: Route #13
No. Street

Claymont DE 19703
City State Zip Code

Name of Person Completing Form: David T. Murphy

Position: (Area) Manager-Environmental Control

Phone Number: (201) 455-4294

1. Year Facility Opened ..... 19 |2|0| (10-11)

2. Primary SIC Code ..... |2|8|1|9| (12-15)

3. Estimate the total amounts of process wastes (excluding wastes sold for use) generated by this facility during 1978:

   thousand gallons ..... |-|-|-|-|-|-|-|-| (16-24)

   hundred tons .Best estimate..... |-|-|-|-|-|1|0|6| (25-32)

   thousand cubic yards ..... |-|-|-|-|-|-|-|-| (33-41)

4. Estimate (in whole percents) how these process wastes generated in 1978 were disposed of:

   in landfill ..... |9|7| (42-44)

   in pit/pond/lagoon ..... |-|-|-| (45-47)

   in deep well ..... |-|-|-| (48-50)

   incinerated ..... |-|-|-| (51-53)

   reprocessed/recycled ..... |-|-|0| (54-56)

   evaporated ..... |-|-|-| (57-59)

   unknown ..... |-|-|3| (60-62)

   other (Specify: _____) ..... |-|-|-| (63-65)

5. What is the total number of known sites (including disposal on the property where this facility is located as one site) that have been used for the disposal of process wastes from this facility since 1950? ..... |-|-|4| (66-68)

   COMPLETE ONE FORM "B" FOR EACH OF THE SITES

6. Have any of the process wastes generated at this facility been hauled (removed) from this facility for disposal? (Yes=1; no=2) ..... |2| (69)

   IF YES, COMPLETE FORM "C"

7. Do you know the disposal site locations of all of the process waste hauled from your facility since 1950? (Yes=1; no=2) ..... |2| (70)

   IF NO, COMPLETE ONE FORM "D" FOR EACH FIRM OR CONTRACTOR WHO TOOK WASTE TO AN UNKNOWN LOCATION

8. Specify the earliest year represented by information from company or facility records supplied on this and other forms ..... 19|5|6| (71-72)

9. Specify the earliest year represented by information from employee knowledge supplied on this and other forms ..... 19|6|5| (73-74)

| | | | | | | | | (1-8)
(DO NOT USE)

FORM B: DISPOSAL SITE INFORMATION

COMPLETE THIS FORM FOR EVERY SITE (INCLUDING THE LOCATION OF THIS FACILITY AS ONE SITE) USED FOR THE DISPOSAL OF PROCESS WASTES GENERATED BY THIS FACILITY SINCE 1970.

Company Name: [illegible]
Facility Name: [illegible]
Name of Site: [illegible]
Address of Site: [illegible]
no. street

Malvern PA 19355
city state zip code

Name of Owner (while used by facility): ~~unknown~~ [illegible]
Address: P.O. Box [illegible]
no. street

Malvern Pa 19355
city state zip code

Current Owner (if different from above): ~~unknown~~ [illegible]
Address: P.O. Box [illegible]
no. street

Malvern Pa 19355
city state zip code

1. Location (1= the property on which facility is located; 2= off-site)..... [2] (10)
2. Ownership at time of use (1= company ownership; 2=private but not company ownership) 3=public ownership) ..... [2] (11)
3. Current status (1= closed; 2= still in use; 9=don't know) ..... [2] (12)
   IF CLOSED, specify year closed ..... 19[ ][ ] (13-14)
4. Year first used for process waste from this facility ..No idea..... 19[-][-] (15-16)
5. Year last used for process waste from this facility (enter "79" if still in use) ..... 19[7][9] (17-18)
6. Total amount of process waste from this facility disposed at site:
   thousand gallons ..... [ ][ ][ ][ ][ ][ ][-][-] (19-26)
   hundred tons ..... [ ][ ][ ][ ][ ][ ][8][7] (27-33)
   thousand cubic yards ..... [ ][ ][ ][ ][ ][ ][-][-] (34-41)
7. Specify type(s) of disposal method(s) used at site and whether method is still in use (1=currently in use; 2=no longer in use; 3=never used; 9=don't know)
   landfill, mono industrial waste ..... [9] (42)
   landfill, mixed industrial waste ..... [1] (43)
   landfill, drummed waste ..... [9] (44)
   landfill, municipal refuse co-disposed ... [9] (45)
   pits/ponds/lagoons ..... [9] (46)
   deep well injection ..... [9] (47)
   land farming ..... [9] (48)
   incineration ..... [9] (49)
   treatment (eg. neutralizing)..... [9] (50)
   reprocessing/recycling ..... [9] (51)
   other (specify) _____ .... [9] (52)
8. Users of this site (1=this facility; 2=this facility and other company facilities only; 3=this company and others; 9=don't know) ..... [3] (53)

LIST NAMES AND ADDRESSES OF OTHER KNOWN USERS BELOW

FORM B CONTINUED ON SECOND PAGE

FORM D - Page 2

| | | | | | | | | (1-8)
(DO NOT USE)

Company Name: Allied Chemical Corporation

Facility Name: Delaware Works

Site Name: Knickerbocker Sanitary Landfill

9. Components (or characteristics) of process waste from this facility disposed at site: (1=present in waste; 2=not present in waste; 9=don't know)

FILL IN EVERY BLOCK SPACE

Acid solutions, with pH<3	1	(10)
pickling liquor	2	(11)
metal plating waste	2	(12)
circuit etchings	2	(13)
inorganic acid manufacture	1	(14)
organic acid manufacture	2	(15)
Base solutions, with pH>12	2	(16)
caustic soda manufacture	2	(17)
nylon and similar polymer generation	2	(18)
scrubber residual	2	(19)
Heavy metals & trace metals (bonded organically & inorganically)	1	(20)
arsenic, selenium, antimony	1	(21)
mercury	2	(22)
iron, manganese, magnesium	1	(23)
zinc, cadmium, copper, chromium (trivalent)	1	(24)
chromium (hexavalent)	2	(25)
lead	1	(26)
Radioactive residues, >50 pico curies/liter	9	(27)
uranium residuals & residuals for UF_6 recycling	2	(28)
lathanide series elements and rare earth salts	2	(29)
phosphate slag	2	(30)
thorium	2	(31)
radium	2	(32)
other alpha, beta & gamma emitters	9	(33)
Organics	9	(34)
Insecticides & intermediates	9	(35)
herbicides & intermediates	9	(36)
fungicides & intermediates	9	(37)
rodenticides & intermediates	9	(38)
halogenated aliphatics	9	(39)
halogenated aromatics	9	(40)
acrylates & latex emulsions	9	(41)
PCB/PBB's	9	(42)
amides, amines, imides	9	(43)
plastizers	9	(44)
resins	9	(45)
elastomers	9	(46)
solvents polar (except water)	9	(47)
carbontetrachloride	9	(48)
trichloroethylene	9	(49)
other solvents nonpolar	9	(50)
solvents halogenated aliphatic	9	(51)
solvents halogenated aromatic	9	(52)
oils and oil sludges	9	(53)
esters and ethers	9	(54)
alcohols	9	(55)
ketones & aldehydes	9	(56)
dioxins	9	(57)
Inorganics	1	(58)
salts	1	(59)
mercaptans	2	(60)
Misc	9	(61)
pharmaceutical wastes	9	(62)
paints & pigments	9	(63)
catalysts (eg. vanadium, platinum, palladium)	9	(64)
asbestos	9	(65)
shock sensitive wastes (eg. nitrated toluenes)	2	(66)
air water reactive wastes (eg. P_4, aluminum chloride)	2	(67)
wastes with flash point below 100° F	9	(68)

2 (80)

FORM B: DISPOSAL SITE INFORMATION

(DO NOT USE) (1-9)

COMPLETE THIS FORM FOR EVERY SITE (INCLUDING THE LOCATION OF THIS FACILITY AS ONE SITE) USED FOR THE DISPOSAL OF PROCESS WASTES GENERATED BY THIS FACILITY SINCE 1950.

Company Name: Allied Chemical Corporation
Facility Name: Delaware Works
Name of Site: Pigeon Point Sanitary Landfill
Address of Site: None Pigeon Point
no. street

Wilmington DE
city state zip code

Name of Owner (while used by facility): New Castle County
Address: 2701 Capitol Trail
no. street

Newark De 19711
city state zip code

Current Owner (if different from above): Same
Address: Same
no. street

Same
city state zip code

1. Location (1= the property on which facility is located; 2= off-site)..... 2 (10)
2. Ownership at time of use (1= company ownership; 2=private but not company ownership) 3=public ownership) 3 (11)
3. Current status (1= closed; 2= still in use; 9=don't know) 2 (12)
   IF CLOSED, specify year closed ..... 19 - - (13-14)
4. Year first used for process waste from this facility No idea..... 19 - - (15-16)
5. Year last used for process waste from this facility (enter "79" if still in use) 19 7 9 (17-18)
6. Total amount of process waste from this facility disposed at site:
   thousand gallons ..... - - - - - - - - (19-26)
   hundred tons ..Estimate..... 1 1 1 1 1 1 5 (27-33)
   thousand cubic yards ..... - - - - - - - (34-41)
7. Specify type(s) of disposal method(s) used at site and whether method is still in use (1=currently in use; 2=no longer in use; 3=never used; 9=don't know)
   landfill, mono industrial waste 9 (42)
   landfill, mixed industrial waste 9 (43)
   landfill, drummed waste 9 (44)
   landfill, municipal refuse co-disposed ... 1 (45)
   pits/ponds/lagoons 9 (46)
   deep well injection 9 (47)
   land farming 9 (48)
   incineration 9 (49)
   treatment (eg. neutralizing)..... 9 (50)
   reprocessing/recycling 9 (51)
   other (specify)..... 9 (52)
8. Users of this site (1=this facility; 2=this facility and other company facilities only; 3=this company and others; 9=don't know) 3 (53)

LIST NAMES AND ADDRESSES OF OTHER KNOWN USERS BELOW

Domestic and Industrial Wastes.

FORM B CONTINUED ON SECOND PAGE

1 (80)

FORM B - Page 2

(DO NOT USE) (1-8)

Company Name: Allied Chemical Corporation

Facility Name: Delaware Works

Site Name: Pinson Point Sanitary Landfill

9. Components (or characteristics) of process waste from this facility disposed at site: (1=present in waste; 2=not present in waste; 9=don't know)

FILL IN EVERY BLOCK SPACE

Acid solutions, with pH<3	9	(10)
pickling liquor	2	(11)
metal plating waste	2	(12)
circuit etchings	2	(13)
inorganic acid manufacture	9	(14)
organic acid manufacture	2	(15)
Base solutions, with pH>12	2	(16)
caustic soda manufacture	2	(17)
nylon and similar polymer generation	2	(18)
scrubber residual	2	(19)
Heavy metals & trace metals (bonded organically & inorganically)	1	(20)
arsenic, selenium, antimony	1	(21)
mercury	2	(22)
iron, manganese, magnesium	1	(23)
zinc, cadmium, copper, chromium (trivalent)	1	(24)
chromium (hexavalent)	2	(25)
lead	1	(26)
Radioactive residues, > 50 pico curies/liter	9	(27)
uranium residuals & residuals for UF_6 recycling	2	(28)
lathanide series elements and rare earth salts	2	(29)
phosphate slag	2	(30)
thorium	2	(31)
radium	2	(32)
other alpha, beta & gamma emitters	9	(33)
Organics	9	(34)
Insecticides & intermediates	9	(35)
herbicides & intermediates	9	(36)
fungicides & intermediates	9	(37)
rodenticides & intermediates	9	(38)
halogenated aliphatics	9	(39)
halogenated aromatics	9	(40)
acrylates & latex emulsions	9	(41)
PCB/PBB's	9	(42)
amides, amines, imides	9	(43)
plastizers	9	(44)
resins	9	(45)
elastomers	9	(46)
solvents polar (except water)	9	(47)
carbontetrachloride	9	(48)
trichloroethylene	9	(49)
other solvents nonpolar	9	(50)
solvents halogenated aliphatic	9	(51)
solvents halogenated aromatic	9	(52)
oils and oil sludges	9	(53)
esters and ethers	9	(54)
alcohols	9	(55)
ketones & aldehydes	9	(56)
dioxins	9	(57)
Inorganics	1	(58)
salts	1	(59)
mercaptans	2	(60)
Misc	1	(61)
pharmaceutical wastes	9	(62)
paints & pigments	9	(63)
catalysts (eg. vanadium, platinum, palladium)	9	(64)
asbestos	1	(65)
shock sensitive wastes (eg. nitrated toluenes)	2	(66)
air water reactive wastes (eg. P_4, aluminum chloride)	2	(67)
wastes with flash point below 100° F	9	(68)

2 (80)

FORM B: DISPOSAL SITE INFORMATION

(DO NOT USE) (1-9)

COMPLETE THIS FORM FOR EVERY SITE (INCLUDING THE LOCATION OF THIS FACILITY AS ONE SITE) USED FOR THE DISPOSAL OF PROCESS WASTES GENERATED BY THIS FACILITY SINCE 1950.

Company Name: Allied Chemical Corporation
Facility Name: Solvay Plant
Name of Site: Solvay Plant
Address of Site: Route #13
no. street

Claymont DE 19703
city state zip code

Name of Owner (while used by facility): Allied Chemical Corporation
Address: Columbia Road & Park Avenue
no. street

Morristown, N.J. 07960
city state zip code

Current Owner (if different from above): Same
Address: Same
no. street

Same
city state zip code

1. Location (1= the property on which facility is located; 2= off-site)..... [1] (10)
2. Ownership at time of use (1= company ownership; 2=private but not company ownership) 3=public ownership) ..... [1] (11)
3. Current status (1= closed; 2= still in use; 9=don't know) ..... [2] (12)
   IF CLOSED, specify year closed ..... 19[-][-] (13-14)
4. Year first used for process waste from this facility ..... 19[6][4] (15-16)
5. Year last used for process waste from this facility (enter "79" if still in use) ..... 19[7][9] (17-18)
6. Total amount of process waste from this facility disposed at site:
   thousand gallons ..... [ ][ ][ ][ ][-][-][-] (19-26)
   hundred tons ..... [ ][ ][ ][ ][6][1][5][3] (27-33)
   thousand cubic yards ..... [ ][ ][ ][ ][-][-][-] (34-41)
7. Specify type(s) of disposal method(s) used at site and whether method is still in use (1=currently in use; 2=no longer in use; 3=never used; 9=don't know)
   landfill, mono industrial waste ..... [1] (42)
   landfill, mixed industrial waste ..... [2] (43)
   landfill, drummed waste ..... [9] (44)
   landfill, municipal refuse co-disposed ... [3] (45)
   pits/ponds/lagoons ..... [2] (46)
   deep well injection ..... [3] (47)
   land farming ..... [3] (48)
   incineration ..... [3] (49)
   treatment (eg. neutralizing)..... [1] (50)
   reprocessing/recycling ..... [1] (51)
   → other (specify) _____ .... [ ] (52)
8. Users of this site (1=this facility; 2=this facility and other company facilities only; 3=this company and others; 9=don't know) ..... [2] (53)

LIST NAMES AND ADDRESSES OF OTHER KNOWN USERS BELOW

Baker & Adamson Works (No longer used).
(Allied Chemical Co.)

FORM B CONTINUED ON SECOND PAGE

[1] (80)

Company Name: Allied Chemical Corporation

Facility Name: Delaware Works

Site Name: Delaware Works

9. Components (or characteristics) of process waste from this facility disposed at site: (1=present in waste; 2=not present in waste; 9=don't know)

FILL IN EVERY BLOCK SPACE

Acid solutions, with pH<3	1	(10)
pickling liquor	2	(11)
metal plating waste	2	(12)
circuit etchings	2	(13)
inorganic acid manufacture	1	(14)
organic acid manufacture	2	(15)
Base solutions, with pH>12	2	(16)
caustic soda manufacture	2	(17)
nylon and similar polymer generation	2	(18)
scrubber residual	2	(19)
Heavy metals & trace metals (bonded organically & inorganically)	1	(20)
arsenic, selenium, antimony	1	(21)
mercury	1	(22)
iron, manganese, magnesium	1	(23)
zinc, cadmium, copper, chromium (trivalent)	1	(24)
chromium (hexavalent)	9	(25)
lead	1	(26)
Radioactive residues, >50pico curies/liter	9	(27)
uranium residuals & residuals for UF_6 recycling	2	(28)
lathanide series elements and rare earth salts	2	(29)
phosphate slag	2	(30)
thorium	2	(31)
radium	2	(32)
other alpha, beta & gamma emitters	9	(33)
Organics	9	(34)
Insecticides & intermediates	0	(35)
herbicides & intermediates	9	(36)
fungicides & intermediates	9	(37)
rodenticides & intermediates	0	(38)
halogenated aliphatics	9	(39)
halogenated aromatics	0	(40)
acrylates & latex emulsions	0	(41)
PCB/PBB's	0	(42)
amides, amines, imides	9	(43)
plastizers	0	(44)
resins	0	(45)
elastomers	0	(46)
solvents polar (except water)	0	(47)
carbontetrachloride	9	(48)
trichloroethylene	9	(49)
other solvents nonpolar	9	(50)
solvents halogenated aliphatic	9	(51)
solvents halogenated aromatic	9	(52)
oils and oil sludges	9	(53)
esters and ethers	9	(54)
alcohols	9	(55)
ketones & aldehydes	9	(56)
dioxins	9	(57)
Inorganics	1	(58)
salts	1	(59)
mercaptans	2	(60)
Misc	1	(61)
pharmaceutical wastes ..... Inorganic Salts	1	(62)
paints & pigments	9	(63)
catalysts (eg. vanadium, platinum, palladium)	9	(64)
asbestos	9	(65)
shock sensitive wastes (eg. nitrated toluenes)	2	(66)
air water reactive wastes (eg. P_4, aluminum chloride)	2	(67)
wastes with flash point below 100° F	9	(68)

(DO NOT USE)

FORM B: DISPOSAL SITE INFORMATION

COMPLETE THIS FORM FOR EVERY SITE (INCLUDING THE LOCATION OF THIS FACILITY AS ONE SITE) USED FOR THE DISPOSAL OF PROCESS WASTES GENERATED BY THIS FACILITY SINCE 1950.

Company Name: Allied Chemical Corporation
Facility Name: Delaware Works
Name of Site: American Recovery Company, Inc.
Address of Site: 1900 Birch Street
no. street

Baltimore MD 21226
city state zip code

Name of Owner (while used by facility): UNKNOWN
Address:
no. street

city state zip code

Current Owner (if different from above): Union Company
Address: Jones Street
no. street

Verona Pennsylvania 15147
city state zip code

1. Location (1= the property on which facility is located; 2= off-site)..... 2 (10)
2. Ownership at time of use (1= company ownership; 2=private but not company ownership) 3=public ownership) 2 (11)
3. Current status (1= closed; 2= still in use; 9=don't know) 2 (12)
   IF CLOSED, specify year closed ..... 19 - - (13-14)
4. Year first used for process waste from this facility ...Estimated.... 19 7 7 (15-16)
5. Year last used for process waste from this facility (enter "79" if still in use) 19 7 8 (17-18)
6. Total amount of process waste from this facility disposed at site:
   thousand gallons Estimate... 3 5 (19-26)
   hundred tons ..... - - (27-33)
   thousand cubic yards ..... - - (34-41)
7. Specify type(s) of disposal method(s) used at site and whether method is still in use (1=currently in use; 2=no longer in use; 3=never used; 9=don't know)
   landfill, mono industrial waste 9 (42)
   landfill, mixed industrial waste 9 (43)
   landfill, drummed waste 9 (44)
   landfill, municipal refuse co-disposed ... 9 (45)
   pits/ponds/lagoons 9 (46)
   deep well injection 9 (47)
   land farming 9 (48)
   incineration 9 (49)
   treatment (eg. neutralizing)..... 9 (50)
   reprocessing/recycling 9 (51)
   other (specify)_____.... 9 (52)
8. Users of this site (1=this facility; 2=this facility and other company facilities only; 3=this company and others; 9=don't know) 3 (53)

LIST NAMES AND ADDRESSES OF OTHER KNOWN USERS BELOW

FORM B CONTINUED ON SECOND PAGE

(DO NOT USE) (1-8)

Company Name: Allied Chemical Corporation

Facility Name: Delaware Works

Site Name: American Recovery Company, Inc.

9. Components (or characteristics) of process waste from this facility disposed at site: (1=present in waste; 2=not present in waste; 9=don't know)

FILL IN EVERY BLOCK SPACE

Acid solutions, with pH<3	1	(10)
pickling liquor	2	(11)
metal plating waste	2	(12)
circuit etchings	2	(13)
inorganic acid manufacture	1	(14)
organic acid manufacture	2	(15)
Base solutions, with pH>12	2	(16)
caustic soda manufacture	2	(17)
nylon and similar polymer generation	2	(18)
scrubber residual	2	(19)
Heavy metals & trace metals (bonded organically & inorganically)	1	(20)
arsenic, selenium, antimony	9	(21)
mercury	2	(22)
iron, manganese, magnesium	1	(23)
zinc, cadmium, copper, chromium (trivalent)	1	(24)
chromium (hexavalent)	2	(25)
lead	1	(26)
Radioactive residues, >50pico curies/liter	2	(27)
uranium residuals & residuals for UF_6 recycling	2	(28)
lathanide series elements and rare earth salts	2	(29)
phosphate slag	2	(30)
thorium	2	(31)
radium	2	(32)
other alpha, beta & gamma emitters	2	(33)
Organics	1	(34)
Insecticides & intermediates	2	(35)
herbicides & intermediates	2	(36)
fungicides & intermediates	2	(37)
rodenticides & intermediates	2	(38)
halogenated aliphatics	2	(39)
halogenated aromatics	2	(40)
acrylates & latex emulsions	2	(41)
PCB/PBB's	2	(42)
amides, amines, imides	2	(43)
plastizers	2	(44)
resins	2	(45)
elastomers	2	(46)
solvents polar (except water)	2	(47)
carbontetrachloride	2	(48)
trichloroethylene	2	(49)
other solvents nonpolar	2	(50)
solvents halogenated aliphatic	2	(51)
solvents halogenated aromatic	2	(52)
oils and oil sludges	1	(53)
esters and ethers	2	(54)
alcohols	2	(55)
ketones & aldehydes	2	(56)
dioxins	2	(57)
Inorganics	1	(58)
salts	1	(59)
mercaptans	2	(60)
Misc	2	(61)
pharmaceutical wastes	2	(62)
paints & pigments	2	(63)
catalysts (eg. vanadium, platinum, palladium)	2	(64)
asbestos	2	(65)
shock sensitive wastes (eg. nitrated toluenes)	2	(66)
air water reactive wastes (eg. P_4, aluminum chloride)	2	(67)
wastes with flash point below 100° F	2	(68)

2 (80)

FORM C: HAULER INFORMATION

(DO NOT USE) (1-5)

PROVIDE A COMPLETE LIST OF ALL FIRMS AND INDEPENDENT CONTRACTORS, INCLUDING THE COMPANY AND ITS AFFILIATES AND SUBSIDIARIES, USED TO REMOVE PROCESS WASTES FROM THIS FACILITY SINCE 1950.

Company Name: ALLIED CHEMICAL CORPORATION

Facility Name: DELAWARE WORKS

	Name of Firm or Contractor	Address	ICC # (If Known)	Years Used
✓1.	Culpepper Corporation	1310 North Second Street, Philadelphia, PA 19122		1977-78
✓2.	Process Industries, Inc.	100 Fairview Avenue, New Castle, DE 19720		1977-79
✓3.	Hummel Engineering Corporation	1418 South Front Street, Philadelphia, PA 19147		1977-78
✓4.	M. Davis & Sons	3316 Silverside Road, Wilmington, DE 19810		1977-78
✓5.	Gene Banta, Flower Street and Old Concord Road	P. O. Box 59, Chester, PA.		1973-79
✓6.	East Coast Pollution Control, Inc.	Box 275, Cenco Boulevard, Clayton, N.J. 08312		1976-79
✓7.	Browning-Ferris Industries	P. O. Drawer C, Pedricktown, N.J. 08067		1973-79
✓8.	American Dredging Company	P. O. Box 328, Fort Washington, PA 19034		1966-68
✓9.	(Former) Pennsylvania Railroad	Edgemoor Office, Edgemoor, DE		1950-72
✓10.	Cleveland Wrecking Company	702 Chester Pike, Sharon Hill, PA 19079.		1972-73
✓11.	AEM Disposal Service	329 North Governor Printz Boulevard, Lester, PA 19113		1972-76
✓12.	Globe Dismantling Corporation	Glassport, PA.		1958
✓13.	ABSCO, Incorporated	1310 North 2nd Street, Philadelphia, PA 19122		1965-73
✓14.	Kulzer Roofing, Inc.	3334-40 North 10th Street, Philadelphia, PA 19140		1976-78
✓15.	Northern Construction Company	2626 Sherwood Drive, Wilmington, DE 19808		1976-78
✓16.	Cropper and Thomas, Inc.	P. O. Box 3013, Wilmington, DE 19804		1972
✓17.	International Chimney Corporation	Box 203, 55 South Long Street, Buffalo, N.Y. 14221		197
✓18.	Mobile Dredging & Pumping Company	Box 237, 344 Pottstown Road, Exton, PA 19341		1977-78
✓19.	Kershaw Excavating Company	Box 3225, Wilmington, DE 19804		1975-79
✓20.	Del-Mar-Va Pollution Control	Box 340, 2 Naamans Road, Claymont, DE 19703		1976-77
✓21.	Wright Construction Company	6515 Governor Printz Boulevard, Wilmington, DE 19809		1972-7

FORM D: SUPPLEMENTAL HAULER INFORMATION

COMPLETE THIS FORM FOR EACH FIRM OR INDIVIDUAL CONTRACTOR (INCLUDING YOUR OWN COMPANY, ITS AFFILIATES & SUBSIDIARIES) WHO REMOVED PROCESS WASTE FROM THIS FACILITY SINCE 1950 AND TOOK IT TO AN UNKNOWN LOCATION	(1-5) (DO NOT USE)

Company Name: Allied Chemical Corporation
Facility Name: Delaware Works
Name of Hauling Firm/Contractor: Unknown Contractor
Address: (no.) 1310 (street) North Second Street
(city) Philadelphia (state) PA (zip code) 19122

1. Year first used (on record) 19 7 7 (10-11)
2. Year last used (enter "79" if still in use) 19 7 9 (12-13)
3. Total amount of process waste hauled from this facility:
   thousand gallons ..... (14-21)
   Demolition rubble — hundred tons 9 (22-28)
   thousand cubic yards ..... (29-36)
4. Components (or characteristics) of process waste from this facility disposed at site: (1=present in waste; 2=not present in waste; 9=don't know):
   FILL IN EVERY BLOCK SPACE

Acid solutions, with pH<3	9	(37)
pickling liquor	2	(38)
metal plating waste	2	(39)
circuit etchings	2	(40)
inorganic acid manufacture	9	(41)
organic acid manufacture	2	(42)
Base solutions, with pH>12	2	(43)
caustic soda manufacture	2	(44)
nylon and similar polymer generation	2	(45)
scrubber residual	2	(46)
Heavy metals & trace metals (bonded organically & inorganically)	9	(47)
arsenic, selenium, antimony	9	(48)
mercury	9	(49)
iron, manganese, magnesium	9	(50)
zinc, cadmium, copper, chromium (trivalent)	9	(51)
chromium (hexavalent)	9	(52)
lead	9	(53)
Radioactive residues, >50pico curies/liter	9	(54)
uranium residuals & residuals for UF_6 recycling	2	(55)
lathanide series elements and rare earth salts	2	(56)
phosphate slag	2	(57)
thorium	2	(58)
radium	2	(59)
other alpha, beta & gamma emitters	9	(60)
Organics	9	(61)
Insecticides & intermediates	9	(62)
herbicides & intermediates	9	(63)
fungicides & intermediates	9	(64)
rodenticides & intermediates	9	(65)
halogenated aliphatics	9	(66)
halogenated aromatics	9	(67)
acrylates & latex emulsions	9	(68)
PCB/PBB's	9	(69)
amides, amines, imides	9	(70)
plastizers	9	(71)
resins	9	(72)
elastomers	9	(73)
solvents polar (except water)	9	(74)
carbontetrachloride	9	(75)
trichloroethylene	9	(76)
other solvents nonpolar	9	(77)
solvents halogenated aliphatic	9	(78)
solvents halogenated aromatic	9	(79) 1 KBC
oils and oil sludges	9	(10)
esters and ethers	9	(11)
alcohols	9	(12)
ketones & aldehydes	9	(13)
dioxins	9	(14)
Inorganics	1	(15)
salts	1	(16)
mercaptans	2	(17)
Misc.	1	(18)
pharmaceutical wastes	2	(19)
paints & pigments	9	(20)
catalysts (eg. vanadium, platinum, palladium)	2	(21)
asbestos	1	(22)
shock sensitive wastes (eg. nitrated toluenes)	2	(23)
air water reactive wastes (eg. P_4, aluminum chloride)	2	(24)
wastes with flash point below 100° F	9	(25) 2 KB

FORM D: SUPPLEMENTAL HAULER INFORMATION

COMPLETE THIS FORM FOR EACH FIRM OR INDEPENDENT CONTRACTOR (INCLUDING YOUR OWN COMPANY, ITS AFFILIATES & SUBSIDIARIES) WHO REMOVED PROCESS WASTE FROM THIS FACILITY SINCE 1950 AND TOOK IT TO AN UNKNOWN LOCATION

| | | | | | | | | (1-9)
(DO NOT USE)

Company Name: Allied Chemical Corporation
Facility Name: Delaware Works
Name of Hauling Firm/Contractor: Process Industries, Inc.
Address: (no.) 100 (street) Thirteenth Avenue
(city) New Castle (state) DE (zip code) 19720

1. Year first used ..... On record 19 7 7 (10-11)
2. Year last used (enter "79" if still in use) 19 7 9 (12-13)
3. Total amount of process waste hauled from this facility:
   thousand gallons ..... (14-21)
   hundred tons ..... (22-28)
   thousand cubic yards ..... (29-36)
4. Components (or characteristics) of process waste from this facility disposed at site: (1=present in waste; 2=not present in waste; 9=don't know):
   FILL IN EVERY BLOCK SPACE

Acid solutions, with pH<3	2	(37)
pickling liquor	2	(38)
metal plating waste	2	(39)
circuit etchings	2	(40)
inorganic acid manufacture	2	(41)
organic acid manufacture	2	(42)
Base solutions, with pH>12	2	(43)
caustic soda manufacture	2	(44)
nylon and similar polymer generation	2	(45)
scrubber residual	1	(46)
Heavy metals & trace metals (bonded organically & inorganically)	2	(47)
arsenic, selenium, antimony	2	(48)
mercury	2	(49)
iron, manganese, magnesium	1	(50)
zinc, cadmium, copper, chromium (trivalent)	2	(51)
chromium (hexavalent)	2	(52)
lead	2	(53)
Radioactive residues, >50pico curies/liter	2	(54)
uranium residuals & residuals for UF_6 recycling	2	(55)
lathanide series elements and rare earth salts	2	(56)
phosphate slag	2	(57)
thorium	2	(58)
radium	2	(59)
other alpha, beta & gamma emitters	2	(60)
Organics	2	(61)
Insecticides & intermediates	2	(62)
herbicides & intermediates	2	(63)
fungicides & intermediates	2	(64)
rodenticides & intermediates	2	(65)
halogenated aliphatics	2	(66)
halogenated aromatics	2	(67)
acrylates & latex emulsions	2	(68)
PCB/PBB's	2	(69)
amides, amines, imides	2	(70)
plastizers	2	(71)
resins	2	(72)
elastomers	2	(73)
solvents polar (except water)	2	(74)
carbontetrachloride	2	(75)
trichloroethylene	2	(76)
other solvents nonpolar	2	(77)
solvents halogenated aliphatic	2	(78)
solvents halogenated aromatic	2	(79) 1 (80)
oils and oil sludges	2	(10)
esters and ethers	2	(11)
alcohols	2	(12)
ketones & aldehydes	2	(13)
dioxins	2	(14)
Inorganics	2	(15)
salts	2	(16)
mercaptans	2	(17)
Misc.	2	(18)
pharmaceutical wastes	2	(19)
paints & pigments	2	(20)
catalysts (eg. vanadium, platinum, palladium)	2	(21)
asbestos	2	(22)
shock sensitive wastes (eg. nitrated toluenes)	2	(23)
air water reactive wastes (eg. P_4, aluminum chloride)	2	(24)
wastes with flash point below 100° F	2	(25) 2 (80)

FORM D: SUPPLEMENTAL HAULER INFORMATION

COMPLETE THIS FORM FOR EACH FIRM OR INDEPENDENT CONTRACTOR (INCLUDING YOUR OWN COMPANY, ITS AFFILIATES & SUBSIDIARIES) WHO REMOVED PROCESS WASTE FROM THIS FACILITY SINCE 1950 AND TOOK IT TO AN UNKNOWN LOCATION

| | | | | | | | | (1-8)
(DO NOT USE)

Company Name: Allied Chemical Corporation
Facility Name: Delaware Works
Name of Hauling Firm/Contractor: Hummel Engineering Corporation
Address: (no.) 1419 (street) South Front Street
(city) Philadelphia (state) PA (zip code) 19147

1. Year first used 19 7 7 (10-11)
2. Year last used (enter "79" if still in use) 19 7 6 (12-13)
3. Total amount of process waste hauled from this facility:
   thousand gallons ..... - - (14-21)
   hundred tons 0 (22-28)
   thousand cubic yards ..... - - (29-36)
4. Components (or characteristics) of process waste from this facility disposed at site: (1=present in waste; 2=not present in waste; 9=don't know):
   FILL IN EVERY BLOCK SPACE

Acid solutions, with pH<3	2	(37)
pickling liquor	2	(38)
metal plating waste	2	(39)
circuit etchings	2	(40)
inorganic acid manufacture	2	(41)
organic acid manufacture	2	(42)
Base solutions, with pH>12	2	(43)
caustic soda manufacture	2	(44)
nylon and similar polymer generation	2	(45)
scrubber residual	2	(46)
Heavy metals & trace metals (bonded organically & inorganically)	1	(47)
arsenic, selenium, antimony	2	(48)
mercury	2	(49)
iron, manganese, magnesium	1	(50)
zinc, cadmium, copper, chromium (trivalent)	2	(51)
chromium (hexavalent)	2	(52)
lead	2	(53)
Radioactive residues, >50pico curies/liter	2	(54)
uranium residuals & residuals for UF_6 recycling	2	(55)
lathanide series elements and rare earth salts	2	(56)
phosphate slag	2	(57)
thorium	2	(58)
radium	2	(59)
other alpha, beta & gamma emitters	2	(60)
Organics	2	(61)
Insecticides & intermediates	2	(62)
herbicides & intermediates	2	(63)
fungicides & intermediates	2	(64)
rodenticides & intermediates	2	(65)
halogenated aliphatics	2	(66)
halogenated aromatics	2	(67)
acrylates & latex emulsions	2	(68)
PCB/PBB's	2	(69)
amides, amines, imides	2	(70)
plastizers	2	(71)
resins	2	(72)
elastomers	2	(73)
solvents polar (except water)	2	(74)
carbontetrachloride	2	(75)
trichloroethylene	2	(76)
other solvents nonpolar	2	(77)
solvents halogenated aliphatic	2	(78)
solvents halogenated aromatic	2	(79) 1 (80)
oils and oil sludges	2	(10)
esters and ethers	2	(11)
alcohols	2	(12)
ketones & aldehydes	2	(13)
dioxins	2	(14)
Inorganics	2	(15)
salts	2	(16)
mercaptans	2	(17)
Misc.	2	(18)
pharmaceutical wastes	2	(19)
paints & pigments	2	(20)
catalysts (eg. vanadium, platinum, palladium)	2	(21)
asbestos	2	(22)
shock sensitive wastes (eg. nitrated toluenes)	2	(23)
air water reactive wastes (eg. P_4, aluminum chloride)	2	(24)
wastes with flash point below 100° F	2	(25) 2 (80)

FORM D: SUPPLEMENTAL HAULER INFORMATION

COMPLETE THIS FORM FOR EACH FIRM OR INDEPENDENT CONTRACTOR (INCLUDING YOUR OWN COMPANY, ITS AFFILIATES & SUBSIDIARIES) WHO REMOVED PROCESS WASTE FROM THIS FACILITY SINCE 1950 AND TOOK IT TO AN UNKNOWN LOCATION	||||||||| (1-8) (DO NOT USE)

Company Name: Allied Chemical Corporation
Facility Name: Delaware Works
Name of Hauling Firm/Contractor: W. Lewis & Sons
Address: (no.) 2316 (street) Silverside Road
(city) Wilmington (state) DE (zip code) 19810

1. Year first used ..On record..... 19|7|7| (10-11)
2. Year last used (enter "79" if still in use) ..... 19|7|8| (12-13)
3. Total amount of process waste hauled from this facility:
   thousand gallons ..... |\|\|\|\|\|\|-|-| (14-21)
   hundred tons..... |\|\|\|\|\|\|1| (22-28)
   thousand cubic yards ..... |\|\|\|\|\|\|-|-| (29-36)
4. Components (or characteristics) of process waste from this facility disposed at site: (1=present in waste; 2=not present in waste; 9=don't know):
   FILL IN EVERY BLOCK SPACE

Acid solutions, with pH<3	2	(37)
pickling liquor	2	(38)
metal plating waste	2	(39)
circuit etchings	2	(40)
inorganic acid manufacture	2	(41)
organic acid manufacture	2	(42)
Base solutions, with pH>12	2	(43)
caustic soda manufacture	2	(44)
nylon and similar polymer generation	2	(45)
scrubber residual	2	(46)
Heavy metals & trace metals (bonded organically & inorganically)	1	(47)
arsenic, selenium, antimony	2	(48)
mercury	2	(49)
iron, manganese, magnesium	1	(50)
zinc, cadmium, copper, chromium (trivalent)	2	(51)
chromium (hexavalent)	2	(52)
lead	2	(53)
Radioactive residues, >50pico curies/liter	2	(54)
uranium residuals & residuals for UF_6 recycling	2	(55)
lathanide series elements and rare earth salts	2	(56)
phosphate slag	2	(57)
thorium	2	(58)
radium	2	(59)
other alpha, beta & gamma emitters	2	(60)
Organics	2	(61)
Insecticides & intermediates	2	(62)
herbicides & intermediates	2	(63)
fungicides & intermediates	2	(64)
rodenticides & intermediates	2	(65)
halogenated aliphatics	2	(66)
halogenated aromatics	2	(67)
acrylates & latex emulsions	2	(68)
PCB/PBB's	2	(69)
amides, amines, imides	2	(70)
plastizers	2	(71)
resins	2	(72)
elastomers	2	(73)
solvents polar (except water)	2	(74)
carbontetrachloride	2	(75)
trichloroethylene	2	(76)
other solvents nonpolar	2	(77)
solvents halogenated aliphatic	2	(78)
solvents halogenated aromatic	2	(79) 1 (80)
oils and oil sludges	2	(10)
esters and ethers	2	(11)
alcohols	2	(12)
ketones & aldehydes	2	(13)
dioxins	2	(14)
Inorganics	2	(15)
salts	2	(16)
mercaptans	2	(17)
Misc.	2	(18)
pharmaceutical wastes	2	(19)
paints & pigments	2	(20)
catalysts (eg. vanadium, platinum, palladium)	2	(21)
asbestos	2	(22)
shock sensitive wastes (eg. nitrated toluenes)	2	(23)
air water reactive wastes (eg. P_4, aluminum chloride)	2	(24)
wastes with flash point below 100° F	2	(25) 2 (50)

FORM D: SUPPLEMENTAL HAULER INFORMATION

COMPLETE THIS FORM FOR EACH FIRM OR INDEPENDENT CONTRACTOR (INCLUDING YOUR OWN COMPANY, ITS AFFILIATES & SUBSIDIARIES) WHO REMOVED PROCESS WASTE FROM THIS FACILITY SINCE 1950 AND TOOK IT TO AN UNKNOWN LOCATION

| | | | | | | | | | (1-8)
(DO NOT USE)

Company Name: Allied Chemical Corporation
Facility Name: Delaware Works
Name of Hauling Firm/Contractor: Gene Banta
Address: (no.) P.O.Box 59 (street) Flower Street & Old Concord Road
(city) Chester (state) Pa. (zip code)

1. Year first used ...No record..... 19 7 3 (10-11)
2. Year last used (enter "79" if still in use) 19 7 9 (12-13)
3. Total amount of process waste hauled from this facility:
   thousand gallons ..... - - (14-21)
   hundred tons..... 5 (22-28)
   thousand cubic yards ..... - - (29-36)
4. Components (or characteristics) of process waste from this facility disposed at site: (1=present in waste; 2=not present in waste; 9=don't know):
   FILL IN EVERY BLOCK SPACE

Acid solutions, with pH<3	1	(37)
pickling liquor	2	(38)
metal plating waste	2	(39)
circuit etchings	2	(40)
inorganic acid manufacture	1	(41)
organic acid manufacture	2	(42)
Base solutions, with pH>12	2	(43)
caustic soda manufacture	2	(44)
nylon and similar polymer generation	2	(45)
scrubber residual	2	(46)
Heavy metals & trace metals (bonded organically & inorganically)	1	(47)
arsenic, selenium, antimony	1	(48)
mercury	2	(49)
iron, manganese, magnesium	1	(50)
zinc, cadmium, copper, chromium (trivalent)	1	(51)
chromium (hexavalent)	2	(52)
lead	1	(53)
Radioactive residues, >50pico curies/liter	9	(54)
uranium residuals & residuals for UF_6 recycling	2	(55)
lathanide series elements and rare earth salts	2	(56)
phosphate slag	2	(57)
thorium	2	(58)
radium	2	(59)
other alpha, beta & gamma emitters	9	(60)
Organics	9	(61)
Insecticides & intermediates	9	(62)
herbicides & intermediates	9	(63)
fungicides & intermediates	9	(64)
rodenticides & intermediates	9	(65)
halogenated aliphatics	9	(66)
halogenated aromatics	9	(67)
acrylates & latex emulsions	9	(68)
PCB/PBB's	9	(69)
amides, amines, imides	9	(70)
plastizers	9	(71)
resins	9	(72)
elastomers	9	(73)
solvents polar (except water)	9	(74)
carbontetrachloride	9	(75)
trichloroethylene	9	(76)
other solvents nonpolar	9	(77)
solvents halogenated aliphatic	9	(78)
solvents halogenated aromatic	9	(79) 1 (80)
oils and oil sludges	9	(10)
esters and ethers	9	(11)
alcohols	9	(12)
ketones & aldehydes	9	(13)
dioxins	9	(14)
Inorganics	1	(15)
salts	1	(16)
mercaptans	2	(17)
Misc.	1	(18)
pharmaceutical wastes ..Inorganic chemicals	1	(19)
paints & pigments	9	(20)
catalysts (eg. vanadium, platinum, palladium)	9	(21)
asbestos	9	(22)
shock sensitive wastes (eg. nitrated toluenes)	2	(23)
air water reactive wastes (eg. P_4, aluminum chloride)	2	(24)
wastes with flash point below 100° F	2	(25) 2 (80)

FORM D: SUPPLEMENTAL HAULER INFORMATION

COMPLETE THIS FORM FOR EACH FIRM OR INDEPENDENT CONTRACTOR (INCLUDING YOUR OWN COMPANY, ITS AFFILIATES & SUBSIDIARIES) WHO REMOVED PROCESS WASTE FROM THIS FACILITY SINCE 1950 AND TOOK IT TO AN UNKNOWN LOCATION

| | | | | | | | | (1-8)
(DO NOT USE)

Company Name: Allied Chemical Corporation
Facility Name: Delaware Works
Name of Hauling Firm/Contractor: East Coast Pollution Control, Inc.
Address: (no.) Box 275 (street) Cenco Boulevard
(city) Clayton (state) N.J. (zip code) 08312

1. Year first used ....On record 19 7 6 (10-11)
2. Year last used (enter "79" if still in use) 19 7 9 (12-13)
3. Total amount of process waste hauled from this facility:
   thousand gallons ..... | | | | | 3 1 2 | (14-21)
   hundred tons..... | | | | | - - - | (22-28)
   thousand cubic yards ..... | | | | | - - - | (29-36)
4. Components (or characteristics) of process waste from this facility disposed at site: (1=present in waste; 2=not present in waste; 9=don't know):
   FILL IN EVERY BLOCK SPACE

Acid solutions, with pH<3	1	(37)
pickling liquor	2	(38)
metal plating waste	2	(39)
circuit etchings	2	(40)
inorganic acid manufacture	1	(41)
organic acid manufacture	2	(42)
Base solutions, with pH>12	2	(43)
caustic soda manufacture	2	(44)
nylon and similar polymer generation	2	(45)
scrubber residual	2	(46)
Heavy metals & trace metals (bonded organically & inorganically)	9	(47)
arsenic, selenium, antimony	9	(48)
mercury	2	(49)
iron, manganese, magnesium	9	(50)
zinc, cadmium, copper, chromium (trivalent)	9	(51)
chromium (hexavalent)	2	(52)
lead	9	(53)
Radioactive residues, >50pico curies/liter	2	(54)
uranium residuals & residuals for UF_6 recycling	2	(55)
lathanide series elements and rare earth salts	2	(56)
phosphate slag	2	(57)
thorium	2	(58)
radium	2	(59)
other alpha, beta & gamma emitters	2	(60)
Organics	2	(61)
Insecticides & intermediates	2	(62)
herbicides & intermediates	2	(63)
fungicides & intermediates	2	(64)
rodenticides & intermediates	2	(65)
halogenated aliphatics	2	(66)
halogenated aromatics	2	(67)
acrylates & latex emulsions	2	(68)
PCB/PBB's	2	(69)
amides, amines, imides	2	(70)
plastizers	2	(71)
resins	2	(72)
elastomers	2	(73)
solvents polar (except water)	2	(74)
carbontetrachloride	2	(75)
trichloroethylene	2	(76)
other solvents nonpolar	2	(77)
solvents halogenated aliphatic	2	(78)
solvents halogenated aromatic	2	(79) 1 (80
oils and oil sludges	1	(10)
esters and ethers	2	(11)
alcohols	2	(12)
ketones & aldehydes	2	(13)
dioxins	2	(14)
Inorganics	2	(15)
salts	2	(16)
mercaptans	2	(17)
Misc.	2	(18)
pharmaceutical wastes	2	(19)
paints & pigments	2	(20)
catalysts (eg. vanadium, platinum, palladium)	2	(21)
asbestos	2	(22)
shock sensitive wastes (eg. nitrated toluenes)	2	(23)
air water reactive wastes (eg. P_4, aluminum chloride)	2	(24)
wastes with flash point below 100° F	2	(25) 2 (6

FORM D: SUPPLEMENTAL HAULER INFORMATION

COMPLETE THIS FORM FOR EACH FIRM OR INDEPENDENT CONTRACTOR (INCLUDING YOUR OWN COMPANY, ITS AFFILIATES & SUBSIDIARIES) WHO REMOVED PROCESS WASTE FROM THIS FACILITY SINCE 1950 AND TOOK IT TO AN UNKNOWN LOCATION

| | | | | | | | | (1-8)
(DO NOT USE)

Company Name: Allied Chemical Corporation
Facility Name: Delaware Works
Name of Hauling Firm/Contractor: Browning-Ferris Industries
Address: (no.) P.O.Drawer C (street)
(city) Pedricktown (state) N.J. (zip code) 08067

1. Year first used On record 19 7 3 (10-11)
2. Year last used (enter "79" if still in use) 19 7 0 (12-13)
3. Total amount of process waste hauled from this facility:
   thousand gallons 1 1 1 1 1 1 2 7 (14-21)
   hundred tons 1 1 1 1 1 1 0 (22-28)
   thousand cubic yards ..... 1 1 1 1 1 1 - - (29-36)
4. Components (or characteristics) of process waste from this facility disposed at site: (1=present in waste; 2=not present in waste; 9=don't know):
   FILL IN EVERY BLOCK SPACE

Acid solutions, with pH<3	1	(37)
pickling liquor	2	(38)
metal plating waste	2	(39)
circuit etchings	2	(40)
inorganic acid manufacture	2	(41)
organic acid manufacture	2	(42)
Base solutions, with pH>12	1	(43)
caustic soda manufacture	2	(44)
nylon and similar polymer generation	2	(45)
scrubber residual	2	(46)
Heavy metals & trace metals (bonded organically & inorganically)	9	(47)
arsenic, selenium, antimony	9	(48)
mercury	9	(49)
iron, manganese, magnesium	9	(50)
zinc, cadmium, copper, chromium (trivalent)	9	(51)
chromium (hexavalent)	9	(52)
lead	9	(53)
Radioactive residues, >50pico curies/liter	9	(54)
uranium residuals & residuals for UF_6 recycling	2	(55)
lathanide series elements and rare earth salts	2	(56)
phosphate slag	2	(57)
thorium	2	(58)
radium	2	(59)
other alpha, beta & gamma emitters	9	(60)
Organics	9	(61)
Insecticides & intermediates	9	(62)
herbicides & intermediates	9	(63)
fungicides & intermediates	9	(64)
rodenticides & intermediates	9	(65)
halogenated aliphatics	9	(66)
halogenated aromatics	9	(67)
acrylates & latex emulsions	9	(68)
PCB/PBB's	9	(69)
amides, amines, imides	9	(70)
plastizers	9	(71)
resins	9	(72)
elastomers	9	(73)
solvents polar (except water)	9	(74)
carbontetrachloride	9	(75)
trichloroethylene	9	(76)
other solvents nonpolar	9	(77)
solvents halogenated aliphatic	9	(78)
solvents halogenated aromatic	9	(79) 1 (80
oils and oil sludges	9	(10)
esters and ethers	9	(11)
alcohols	9	(12)
ketones & aldehydes	9	(13)
dioxins	9	(14)
Inorganics	1	(15)
salts	1	(16)
mercaptans	2	(17)
Misc.	1	(18)
pharmaceutical wastes	2	(19)
paints & pigments	2	(20)
catalysts (eg. vanadium, platinum, palladium)	2	(21)
asbestos	2	(22)
shock sensitive wastes (eg. nitrated toluenes)	2	(23)
air water reactive wastes (eg. P_4, aluminum chloride)	2	(24)
wastes with flash point below 100° F	2	(25) 2 (8

FORM D: SUPPLEMENTAL HAULER INFORMATION

COMPLETE THIS FORM FOR EACH FIRM OR INDEPENDENT CONTRACTOR (INCLUDING YOUR OWN COMPANY, ITS AFFILIATES & SUBSIDIARIES) WHO REMOVED PROCESS WASTE FROM THIS FACILITY SINCE 1950 AND TOOK IT TO AN UNKNOWN LOCATION

| | | | | | | | | (1-8)
(DO NOT USE)

Company Name: Allied Chemical Corporation
Facility Name: Delaware Works
Name of Hauling Firm/Contractor: American Dredging Company
Address: (no.) P.O.Box 328 (street)
(city) Fort Washington (state) PA (zip code) 19034

1. Year first used ..... Estimated..... 1966 (10-11)
2. Year last used (enter "79" if still in use) ..... Estimated..... 1968 (12-13)
3. Total amount of process waste hauled from this facility:
   thousand gallons ..... | | | | | | | | (14-21)
   hundred tons..... | | | | 1 7 7 4 | (22-28)
   thousand cubic yards ..... | | | | | | | | (29-36)
4. *Components (or characteristics) of process waste from this facility disposed at site: (1=present in waste; 2=not present in waste; 9=don't know):*
   FILL IN EVERY BLOCK SPACE

Acid solutions, with pH<3	1	(37)
pickling liquor	2	(38)
metal plating waste	2	(39)
circuit etchings	2	(40)
inorganic acid manufacture	1	(41)
organic acid manufacture	2	(42)
Base solutions, with pH>12	2	(43)
caustic soda manufacture	2	(44)
nylon and similar polymer generation	2	(45)
scrubber residual	2	(46)
Heavy metals & trace metals (bonded organically & inorganically)	9	(47)
arsenic, selenium, antimony	9	(48)
mercury	9	(49)
iron, manganese, magnesium	9	(50)
zinc, cadmium, copper, chromium (trivalent)	9	(51)
chromium (hexavalent)	9	(52)
lead	9	(53)
Radioactive residues, >50 pico curies/liter	9	(54)
uranium residuals & residuals for UF_6 recycling	2	(55)
lathanide series elements and rare earth salts	2	(56)
phosphate slag	2	(57)
thorium	2	(58)
radium	2	(59)
other alpha, beta & gamma emitters	9	(60)
Organics	9	(61)
Insecticides & intermediates	9	(62)
herbicides & intermediates	9	(63)
fungicides & intermediates	9	(64)
rodenticides & intermediates	9	(65)
halogenated aliphatics	9	(66)
halogenated aromatics	9	(67)
acrylates & latex emulsions	9	(68)
PCB/PBB's	9	(69)
amides, amines, imides	9	(70)
plastizers	9	(71)
resins	9	(72)
elastomers	9	(73)
solvents polar (except water)	9	(74)
carbontetrachloride	9	(75)
trichloroethylene	9	(76)
other solvents nonpolar	9	(77)
solvents halogenated aliphatic	9	(78)
solvents halogenated aromatic	9	(79) 1 (80
oils and oil sludges	9	(10)
esters and ethers	9	(11)
alcohols	9	(12)
ketones & aldehydes	9	(13)
dioxins	9	(14)
Inorganics	1	(15)
salts	1	(16)
mercaptans	2	(17)
Misc.	2	(18)
pharmaceutical wastes	2	(19)
paints & pigments	2	(20)
catalysts (eg. vanadium, platinum, palladium)	2	(21)
asbestos	2	(22)
shock sensitive wastes (eg. nitrated toluenes)	2	(23)
air water reactive wastes (eg. P_4, aluminum chloride)	2	(24)
wastes with flash point below 100° F	2	(25) 2 (8

FORM D: SUPPLEMENTAL HAULER INFORMATION

COMPLETE THIS FORM FOR EACH FIRM OR INDEPENDENT CONTRACTOR (INCLUDING YOUR OWN COMPANY, ITS AFFILIATES & SUBSIDIARIES) WHO REMOVED PROCESS WASTE FROM THIS FACILITY SINCE 1950 AND TOOK IT TO AN UNKNOWN LOCATION

| | | | | | | | | (1-8)
(DO NOT USE)

Company Name: Allied Chemical Corporation
Facility Name: Delaware Works
Name of Hauling Firm/Contractor: Pennsylvania Railroad (Former name)
Address: (no.) Edgemoor Office (street)
(city) Edgemoor (state) DE (zip code)

1. Year first used .....Estimated..... 19 6 0 (10-11)
2. Year last used (enter "79" if still in use) ....Estimated..... 19 7 2 (12-13)
3. Total amount of process waste hauled from this facility:
   thousand gallons ..... (14-21)
   hundred tons..... 1 3 9 4 1 (22-28)
   thousand cubic yards ..... (29-36)
4. Components (or characteristics) of process waste from this facility disposed at site: (1=present in waste; 2=not present in waste; 9=don't know):
   FILL IN EVERY BLOCK SPACE

Acid solutions, with pH<3	1	(37)
pickling liquor	2	(38)
metal plating waste	2	(39)
circuit etchings	2	(40)
inorganic acid manufacture	1	(41)
organic acid manufacture	2	(42)
Base solutions, with pH>12	2	(43)
caustic soda manufacture	2	(44)
nylon and similar polymer generation	2	(45)
scrubber residual	2	(46)
Heavy metals & trace metals (bonded organically & inorganically)	1	(47)
arsenic, selenium, antimony	9	(48)
mercury	9	(49)
iron, manganese, magnesium	1	(50)
zinc, cadmium, copper, chromium (trivalent)	1	(51)
chromium (hexavalent)	2	(52)
lead	1	(53)
Radioactive residues, >50pico curies/liter	9	(54)
uranium residuals & residuals for UF_6 recycling	2	(55)
lathanide series elements and rare earth salts	2	(56)
phosphate slag	2	(57)
thorium	2	(58)
radium	2	(59)
other alpha, beta & gamma emitters	9	(60)
Organics	2	(61)
Insecticides & intermediates	2	(62)
herbicides & intermediates	2	(63)
fungicides & intermediates	2	(64)
rodenticides & intermediates	2	(65)
halogenated aliphatics	2	(66)
halogenated aromatics	2	(67)
acrylates & latex emulsions	2	(68)
PCB/PBB's	2	(69)
amides, amines, imides	2	(70)
plastizers	2	(71)
resins	2	(72)
elastomers	2	(73)
solvents polar (except water)	2	(74)
carbontetrachloride	2	(75)
trichloroethylene	2	(76)
other solvents nonpolar	2	(77)
solvents halogenated aliphatic	2	(78)
solvents halogenated aromatic	2	(79) 1 K80
oils and oil sludges	2	(10)
esters and ethers	2	(11)
alcohols	2	(12)
ketones & aldehydes	2	(13)
dioxins	2	(14)
Inorganics	1	(15)
salts	1	(16)
mercaptans	2	(17)
Misc.	2	(18)
pharmaceutical wastes	2	(19)
paints & pigments	2	(20)
catalysts (eg. vanadium, platinum, palladium)	2	(21)
asbestos	2	(22)
shock sensitive wastes (eg. nitrated toluenes)	2	(23)
air water reactive wastes (eg. P_4, aluminum chloride)	2	(24)
wastes with flash point below 100° F	2	(25) 2 K5

FORM D: SUPPLEMENTAL HAULER INFORMATION

COMPLETE THIS FORM FOR EACH FIRM OR INDEPENDENT CONTRACTOR (INCLUDING YOUR OWN COMPANY, ITS AFFILIATES & SUBSIDIARIES) WHO REMOVED PROCESS WASTE FROM THIS FACILITY SINCE 1950 AND TOOK IT TO AN UNKNOWN LOCATION

| | | (1-8)
(DO NOT USE)

Company Name: Allied Chemical Corporation
Facility Name: Delaware Works
Name of Hauling Firm/Contractor: Cleveland Wrecking Company
Address: (no.) 702 (street) Chester Pike
(city) Sharon Hill (state) PA (zip code) 19079

1. Year first used .... On record 19 7 2 (10-11)
2. Year last used (enter "79" if still in use) .. Estimated 19 7 3 (12-13)
3. Total amount of process waste hauled from this facility:
   thousand gallons ..... | | | | | | | | (14-21)
   hundred tons ..... | | | | | | 5 6 (22-28)
   thousand cubic yards ..... | | | | | | | | (29-36)
4. Components (or characteristics) of process waste from this facility disposed at site: (1=present in waste; 2=not present in waste; 9=don't know):
   FILL IN EVERY BLOCK SPACE

Acid solutions, with pH<3	1	(37)
pickling liquor	2	(38)
metal plating waste	2	(39)
circuit etchings	2	(40)
inorganic acid manufacture	1	(41)
organic acid manufacture	2	(42)
Base solutions, with pH>12	2	(43)
caustic soda manufacture	2	(44)
nylon and similar polymer generation	2	(45)
scrubber residual	2	(46)
Heavy metals & trace metals (bonded organically & inorganically)	9	(47)
arsenic, selenium, antimony	9	(48)
mercury	9	(49)
iron, manganese, magnesium	9	(50)
zinc, cadmium, copper, chromium (trivalent)	9	(51)
chromium (hexavalent)	9	(52)
lead	9	(53)
Radioactive residues, >50 pico curies/liter	9	(54)
uranium residuals & residuals for UF_6 recycling	2	(55)
lathanide series elements and rare earth salts	2	(56)
phosphate slag	2	(57)
thorium	2	(58)
radium	2	(59)
other alpha, beta & gamma emitters	9	(60)
Organics	9	(61)
Insecticides & intermediates	9	(62)
herbicides & intermediates	9	(63)
fungicides & intermediates	9	(64)
rodenticides & intermediates	9	(65)
halogenated aliphatics	9	(66)
halogenated aromatics	9	(67)
acrylates & latex emulsions	9	(68)
PCB/PBB's	9	(69)
amides, amines, imides	9	(70)
plastizers	9	(71)
resins	9	(72)
elastomers	9	(73)
solvents polar (except water)	9	(74)
carbontetrachloride	9	(75)
trichloroethylene	9	(76)
other solvents nonpolar	9	(77)
solvents halogenated aliphatic	9	(78)
solvents halogenated aromatic	9	(79) 1 (80
oils and oil sludges	9	(10)
esters and ethers	9	(11)
alcohols	9	(12)
ketones & aldehydes	9	(13)
dioxins	9	(14)
Inorganics	1	(15)
salts	1	(16)
mercaptans	2	(17)
Misc.	9	(18)
pharmaceutical wastes	2	(19)
paints & pigments	9	(20)
catalysts (eg. vanadium, platinum, palladium)	2	(21)
asbestos	9	(22)
shock sensitive wastes (eg. nitrated toluenes)	2	(23)
air water reactive wastes (eg. P_4, aluminum chloride)	2	(24)
wastes with flash point below 100° F	2	(25) 2 (8

FORM D: SUPPLEMENTAL HAULER INFORMATION

| | | | | | | | | | (1-8)
(DO NOT USE)

COMPLETE THIS FORM FOR EACH FIRM OR INDEPENDENT CONTRACTOR (INCLUDING YOUR OWN COMPANY, ITS AFFILIATES & SUBSIDIARIES) WHO REMOVED PROCESS WASTE FROM THIS FACILITY SINCE 1950 AND TOOK IT TO AN UNKNOWN LOCATION

Company Name: Allied Chemical Corporation
Facility Name: Delaware Works
Name of Hauling Firm/Contractor: ABM Disposal Service
Address: (no.) 329 (street) North Governor Printz Boulevard
(city) Lester (state) PA (zip code) 19113

1. Year first used ..... Estimated 19 7 2 (10-11)
2. Year last used (enter "79" if still in use) . Estimated 19 7 6 (12-13)
3. Total amount of process waste hauled from this facility:
   thousand gallons ..... | | | | | | 3 (14-21)
   hundred tons ..... | | | | | 1 2 (22-28)
   thousand cubic yards ..... | | | | | - - (29-36)
4. Components (or characteristics) of process waste from this facility disposed at site: (1=present in waste; 2=not present in waste; 9=don't know):
   FILL IN EVERY BLOCK SPACE

Acid solutions, with pH<3	1	(37)
pickling liquor	2	(38)
metal plating waste	2	(39)
circuit etchings	2	(40)
inorganic acid manufacture	1	(41)
organic acid manufacture	2	(42)
Base solutions, with pH> 12	2	(43)
caustic soda manufacture	2	(44)
nylon and similar polymer generation	2	(45)
scrubber residual	2	(46)
Heavy metals & trace metals (bonded organically & inorganically)	9	(47)
arsenic, selenium, antimony	9	(48)
mercury	9	(49)
iron, manganese, magnesium	1	(50)
zinc, cadmium, copper, chromium (trivalent)	9	(51)
chromium (hexavalent)	9	(52)
lead	9	(53)
Radioactive residues, >50pico curies/liter	9	(54)
uranium residuals & residuals for UF_6 recycling	2	(55)
lathanide series elements and rare earth salts	2	(56)
phosphate slag	2	(57)
thorium	2	(58)
radium	2	(59)
other alpha, beta & gamma emitters	9	(60)
Organics	9	(61)
Insecticides & intermediates	9	(62)
herbicides & intermediates	9	(63)
fungicides & intermediates	9	(64)
rodenticides & intermediates	9	(65)
halogenated aliphatics	9	(66)
halogenated aromatics	9	(67)
acrylates & latex emulsions	9	(68)
PCB/PBB's	9	(69)
amides, amines, imides	9	(70)
plastizers	9	(71)
resins	9	(72)
elastomers	9	(73)
solvents polar (except water)	9	(74)
carbontetrachloride	9	(75)
trichloroethylene	9	(76)
other solvents nonpolar	9	(77)
solvents halogenated aliphatic	9	(78)
solvents halogenated aromatic	9	(79)
oils and oil sludges	1	(10)
esters and ethers	9	(11)
alcohols	9	(12)
ketones & aldehydes	9	(13)
dioxins	9	(14)
Inorganics	1	(15)
salts	1	(16)
mercaptans	2	(17)
Misc.	2	(18)
pharmaceutical wastes	2	(19)
paints & pigments	2	(20)
catalysts (eg. vanadium, platinum, palladium)	2	(21)
asbestos	2	(22)
shock sensitive wastes (eg. nitrated toluenes)	2	(23)
air water reactive wastes (eg. P_4, aluminum chloride)	2	(24)
wastes with flash point below 100° F	2	(25)

1 (80
2 (81

FORM D: SUPPLEMENTAL HAULER INFORMATION

| | | | | | | | | (1-8)
(DO NOT USE)

COMPLETE THIS FORM FOR EACH FIRM OR INDEPENDENT CONTRACTOR (INCLUDING YOUR OWN COMPANY, ITS AFFILIATES & SUBSIDIARIES) WHO REMOVED PROCESS WASTE FROM THIS FACILITY SINCE 1950 AND TOOK IT TO AN UNKNOWN LOCATION

Company Name: Allied Chemical Corporation
Facility Name: [illegible]
Name of Hauling Firm/Contractor: Globe Dismantling Corporation
Address: (no.) — (street)
(city) Glassport (state) PA (zip code)

1. Year first used ..... Estimated 19 5 8 (10-11)
2. Year last used (enter "79" if still in use) .. Estimated 19 7 9 (12-13)
3. Total amount of process waste hauled from this facility:
   thousand gallons ..... | | | | | | - - (14-21)
   hundred tons ..... | | | | | | 2 (22-28)
   thousand cubic yards ..... | | | | | | - - (29-36)
4. Components (or characteristics) of process waste from this facility disposed at site: (1=present in waste; 2=not present in waste; 9=don't know):
   FILL IN EVERY BLOCK SPACE

Acid solutions, with pH<3	2	(37)
pickling liquor	2	(38)
metal plating waste	2	(39)
circuit etchings	2	(40)
inorganic acid manufacture	2	(41)
organic acid manufacture	2	(42)
Base solutions, with pH>12	2	(43)
caustic soda manufacture	2	(44)
nylon and similar polymer generation	2	(45)
scrubber residual	2	(46)
Heavy metals & trace metals (bonded organically & inorganically)	9	(47)
arsenic, selenium, antimony	9	(48)
mercury	9	(49)
iron, manganese, magnesium	9	(50)
zinc, cadmium, copper, chromium (trivalent)	9	(51)
chromium (hexavalent)	9	(52)
lead	9	(53)
Radioactive residues, >50 pico curies/liter	9	(54)
uranium residuals & residuals for UF_6 recycling	2	(55)
lathanide series elements and rare earth salts	2	(56)
phosphate slag	2	(57)
thorium	2	(58)
radium	2	(59)
other alpha, beta & gamma emitters	9	(60)
Organics	2	(61)
Insecticides & intermediates	2	(62)
herbicides & intermediates	2	(63)
fungicides & intermediates	2	(64)
rodenticides & intermediates	2	(65)
halogenated aliphatics	2	(66)
halogenated aromatics	2	(67)
acrylates & latex emulsions	2	(68)
PCB/PBB's	2	(69)
amides, amines, imides	2	(70)
plastizers	2	(71)
resins	2	(72)
elastomers	2	(73)
solvents polar (except water)	2	(74)
carbontetrachloride	2	(75)
trichloroethylene	2	(76)
other solvents nonpolar	2	(77)
solvents halogenated aliphatic	2	(78)
solvents halogenated aromatic	2	(79) 1 K80
oils and oil sludges	2	(10)
esters and ethers	2	(11)
alcohols	2	(12)
ketones & aldehydes	2	(13)
dioxins	2	(14)
Inorganics	2	(15)
salts	2	(16)
mercaptans	2	(17)
Misc.	1	(18)
pharmaceutical wastes	2	(19)
paints & pigments	2	(20)
catalysts (eg. vanadium, platinum, palladium)	2	(21)
asbestos	1	(22)
shock sensitive wastes (eg. nitrated toluenes)	2	(23)
air water reactive wastes (eg. P_4, aluminum chloride)	2	(24)
wastes with flash point below 100° F	2	(25) 2 K80

FORM D: SUPPLEMENTAL HAULER INFORMATION

COMPLETE THIS FORM FOR EACH FIRM OR INDEPENDENT CONTRACTOR (INCLUDING YOUR OWN COMPANY, ITS AFFILIATES & SUBSIDIARIES) WHO REMOVED PROCESS WASTE FROM THIS FACILITY SINCE 1950 AND TOOK IT TO AN UNKNOWN LOCATION

| | | | | | | | | (1-8)
(DO NOT USE)

Company Name: Allied Chemical Corporation
Facility Name: Delaware Works
Name of Hauling Firm/Contractor: ABSCO Incorporated
Address: (no.) 1310 (street) North 2nd Street
(city) Philadelphia (state) Pa (zip code) 19122

1. Year first used .....Estimated..... 19 6 5 (10-11)
2. Year last used (enter "79" if still in use) .....Estimated..... 19 7 9 (12-13)
3. Total amount of process waste hauled from this facility:
   thousand gallons ..... | | | | | | - - | (14-21)
   hundred tons..... | | | | | 2 1 | (22-28)
   thousand cubic yards ..... | | | | | | - - | (29-36)
4. Components (or characteristics) of process waste from this facility disposed at site: (1=present in waste; 2=not present in waste; 9=don't know):
   FILL IN EVERY BLOCK SPACE

Acid solutions, with pH<3	1	(37)
pickling liquor	2	(38)
metal plating waste	2	(39)
circuit etchings	2	(40)
inorganic acid manufacture	1	(41)
organic acid manufacture	2	(42)
Base solutions, with pH>12	2	(43)
caustic soda manufacture	2	(44)
nylon and similar polymer generation	2	(45)
scrubber residual	2	(46)
Heavy metals & trace metals (bonded organically & inorganically)	1	(47)
arsenic, selenium, antimony	1	(48)
mercury	9	(49)
iron, manganese, magnesium	1	(50)
zinc, cadmium, copper, chromium (trivalent)	1	(51)
chromium (hexavalent)	9	(52)
lead	1	(53)
Radioactive residues, >50pico curies/liter	9	(54)
uranium residuals & residuals for UF_6 recycling	2	(55)
lathanide series elements and rare earth salts	2	(56)
phosphate slag	2	(57)
thorium	2	(58)
radium	2	(59)
other alpha, beta & gamma emitters	9	(60)
Organics	2	(61)
Insecticides & intermediates	2	(62)
herbicides & intermediates	2	(63)
fungicides & intermediates	2	(64)
rodenticides & intermediates	2	(65)
halogenated aliphatics	2	(66)
halogenated aromatics	2	(67)
acrylates & latex emulsions	2	(68)
PCB/PBB's	2	(69)
amides, amines, imides	2	(70)
plastizers	2	(71)
resins	2	(72)
elastomers	2	(73)
solvents polar (except water)	2	(74)
carbontetrachloride	2	(75)
trichloroethylene	2	(76)
other solvents nonpolar	2	(77)
solvents halogenated aliphatic	2	(78)
solvents halogenated aromatic	2	(79) 1 K80
oils and oil sludges	2	(10)
esters and ethers	2	(11)
alcohols	2	(12)
ketones & aldehydes	2	(13)
dioxins	2	(14)
Inorganics	2	(15)
salts	2	(16)
mercaptans	2	(17)
Misc.	9	(18)
pharmaceutical wastes	2	(19)
paints & pigments	9	(20)
catalysts (eg. vanadium, platinum, palladium)	9	(21)
asbestos	9	(22)
shock sensitive wastes (eg. nitrated toluenes)	2	(23)
air water reactive wastes (eg. P_4, aluminum chloride)	2	(24)
wastes with flash point below 100° F	2	(25) 2 K81

FORM D: SUPPLEMENTAL HAULER INFORMATION

COMPLETE THIS FORM FOR EACH FIRM OR INDEPENDENT CONTRACTOR (INCLUDING YOUR OWN COMPANY, ITS AFFILIATES & SUBSIDIARIES) WHO REMOVED PROCESS WASTE FROM THIS FACILITY SINCE 1950 AND TOOK IT TO AN UNKNOWN LOCATION

(DO NOT USE) (1-8)

ORIGINAL

Company Name: Allied Chemical Corporation
Facility Name: Delaware Works
Name of Hauling Firm/Contractor: Sulzer Roofing, Inc.
Address: (no.) 3334-40 (street) North 10th Street
(city) Philadelphia (state) PA (zip code) 19140

1. Year first used ..... Estimated 19 76 (10-11)
2. Year last used (enter "79" if still in use) 19 78 (12-13)
3. Total amount of process waste hauled from this facility:
   thousand gallons ..... (14-21)
   hundred tons ..... (22-28)
   thousand cubic yards ..... (29-36)
4. Components (or characteristics) of process waste from this facility disposed at site: (1=present in waste; 2=not present in waste; 9=don't know):
   FILL IN EVERY BLOCK SPACE

Acid solutions, with pH<3	2	(37)
pickling liquor	2	(38)
metal plating waste	2	(39)
circuit etchings	2	(40)
inorganic acid manufacture	2	(41)
organic acid manufacture	2	(42)
Base solutions, with pH>12	2	(43)
caustic soda manufacture	2	(44)
nylon and similar polymer generation	2	(45)
scrubber residual	2	(46)
Heavy metals & trace metals (bonded organically & inorganically)	2	(47)
arsenic, selenium, antimony	2	(48)
mercury	2	(49)
iron, manganese, magnesium	2	(50)
zinc, cadmium, copper, chromium (trivalent)	2	(51)
chromium (hexavalent)	2	(52)
lead	2	(53)
Radioactive residues, >50pico curies/liter	2	(54)
uranium residuals & residuals for UF_6 recycling	2	(55)
lathanide series elements and rare earth salts	2	(56)
phosphate slag	2	(57)
thorium	2	(58)
radium	2	(59)
other alpha, beta & gamma emitters	2	(60)
Organics	2	(61)
Insecticides & intermediates	2	(62)
herbicides & intermediates	2	(63)
fungicides & intermediates	2	(64)
rodenticides & intermediates	2	(65)
halogenated aliphatics	2	(66)
halogenated aromatics	2	(67)
acrylates & latex emulsions	2	(68)
PCB/PBB's	2	(69)
amides, amines, imides	2	(70)
plastizers	2	(71)
resins	2	(72)
elastomers	2	(73)
solvents polar (except water)	2	(74)
carbontetrachloride	2	(75)
trichloroethylene	2	(76)
other solvents nonpolar	2	(77)
solvents halogenated aliphatic	2	(78)
solvents halogenated aromatic	2	(79) 1 (80
oils and oil sludges	2	(10)
esters and ethers	2	(11)
alcohols	2	(12)
ketones & aldehydes	2	(13)
dioxins	2	(14)
Inorganics	2	(15)
salts	2	(16)
mercaptans	2	(17)
Misc.		(18)
pharmaceutical wastes	2	(19)
paints & pigments	2	(20)
catalysts (eg. vanadium, platinum, palladium)	2	(21)
asbestos	2	(22)
shock sensitive wastes (eg. nitrated toluenes)	2	(23)
air water reactive wastes (eg. P_4, aluminum chloride)	2	(24)
wastes with flash point below 100° F	2	(25) 2 (26

FORM D: SUPPLEMENTAL HAULER INFORMATION

COMPLETE THIS FORM FOR EACH FIRM OR INDEPENDENT CONTRACTOR (INCLUDING YOUR OWN COMPANY, ITS AFFILIATES & SUBSIDIARIES) WHO REMOVED PROCESS WASTE FROM THIS FACILITY SINCE 1950 AND TOOK IT TO AN UNKNOWN LOCATION	(DO NOT USE) (1-5)

Company Name: Allied Chemical Corporation
Facility Name: Delaware Works
Name of Hauling Firm/Contractor: Northern Construction Company
Address: (no.) 2626 (street) Sherwood Drive
(city) Wilmington (state) DE (zip code) 19808

1. Year first used ....., Estimated 19 7 6 (10-11)
2. Year last used (enter "79" if still in use) 19 7 9 (12-13)
3. Total amount of process waste hauled from this facility:
   thousand gallons ..... - - (14-21)
   hundred tons.. Estimate 1 4 (22-28)
   thousand cubic yards ..... - - (29-36)
4. Components (or characteristics) of process waste from this facility disposed at site: (1=present in waste; 2=not present in waste; 9=don't know):
   FILL IN EVERY BLOCK SPACE

Acid solutions, with pH<3	2	(37)
pickling liquor	2	(38)
metal plating waste	2	(39)
circuit etchings	2	(40)
inorganic acid manufacture	2	(41)
organic acid manufacture	2	(42)
Base solutions, with pH>12	2	(43)
caustic soda manufacture	2	(44)
nylon and similar polymer generation	2	(45)
scrubber residual	2	(46)
Heavy metals & trace metals (bonded organically & inorganically)	9	(47)
arsenic, selenium, antimony	9	(48)
mercury	9	(49)
iron, manganese, magnesium	9	(50)
zinc, cadmium, copper, chromium (trivalent)	9	(51)
chromium (hexavalent)	9	(52)
lead	9	(53)
Radioactive residues, >50 pico curies/liter	9	(54)
uranium residuals & residuals for UF_6 recycling	2	(55)
lathanide series elements and rare earth salts	2	(56)
phosphate slag	2	(57)
thorium	2	(58)
radium	2	(59)
other alpha, beta & gamma emitters	9	(60)
Organics	2	(61)
Insecticides & intermediates	2	(62)
herbicides & intermediates	2	(63)
fungicides & intermediates	2	(64)
rodenticides & intermediates	2	(65)
halogenated aliphatics	2	(66)
halogenated aromatics	2	(67)
acrylates & latex emulsions	2	(68)
PCB/PBB's	2	(69)
amides, amines, imides	2	(70)
plastizers	2	(71)
resins	2	(72)
elastomers	2	(73)
solvents polar (except water)	2	(74)
carbontetrachloride	2	(75)
trichloroethylene	2	(76)
other solvents nonpolar	2	(77)
solvents halogenated aliphatic	2	(78)
solvents halogenated aromatic	2	(79) 1 (80)
oils and oil sludges	2	(10)
esters and ethers	2	(11)
alcohols	2	(12)
ketones & aldehydes	2	(13)
dioxins	2	(14)
Inorganics	1	(15)
salts	1	(16)
mercaptans	2	(17)
Misc.	9	(18)
pharmaceutical wastes	2	(19)
paints & pigments	9	(20)
catalysts (eg. vanadium, platinum, palladium)	9	(21)
asbestos	9	(22)
shock sensitive wastes (eg. nitrated toluenes)	2	(23)
air water reactive wastes (eg. P_4, aluminum chloride)	2	(24)
wastes with flash point below 100° F	2	(25) 2 (80)

FORM D: SUPPLEMENTAL HAULER INFORMATION

COMPLETE THIS FORM FOR EACH FIRM OR INDEPENDENT CONTRACTOR (INCLUDING YOUR OWN COMPANY, ITS AFFILIATES & SUBSIDIARIES) WHO REMOVED PROCESS WASTE FROM THIS FACILITY SINCE 1950 AND TOOK IT TO AN UNKNOWN LOCATION

(DO NOT USE) (1-8)

Company Name: Allied Chemical Corporation
Facility Name: Delaware Works
Name of Hauling Firm/Contractor: Cropper and Thomas, Inc.
Address: (no.) P.O.Box 3013 (street)
(city) Wilmington (state) DE (zip code) 19804

1. Year first used .....Estimated..... 1972 (10-11)
2. Year last used (enter "79" if still in use) ....Estimated..... 1972 (12-13)
3. Total amount of process waste hauled from this facility:
   thousand gallons ..... (14-21)
   hundred tons..... 76 (22-28)
   thousand cubic yards ..... (29-36)
4. Components (or characteristics) of process waste from this facility disposed at site: (1=present in waste; 2=not present in waste; 9=don't know): FILL IN EVERY BLOCK SPACE

Acid solutions, with pH<3	1	(37)
pickling liquor	2	(38)
metal plating waste	2	(39)
circuit etchings	2	(40)
inorganic acid manufacture	1	(41)
organic acid manufacture	2	(42)
Base solutions, with pH>12	2	(43)
caustic soda manufacture	2	(44)
nylon and similar polymer generation	2	(45)
scrubber residual	2	(46)
Heavy metals & trace metals (bonded organically & inorganically)	9	(47)
arsenic, selenium, antimony	9	(48)
mercury	9	(49)
iron, manganese, magnesium	9	(50)
zinc, cadmium, copper, chromium (trivalent)	9	(51)
chromium (hexavalent)	9	(52)
lead	9	(53)
Radioactive residues, >50 pico curies/liter	2	(54)
uranium residuals & residuals for UF_6 recycling	2	(55)
lathanide series elements and rare earth salts	2	(56)
phosphate slag	2	(57)
thorium	2	(58)
radium	2	(59)
other alpha, beta & gamma emitters	2	(60)
Organics	2	(61)
Insecticides & intermediates	2	(62)
herbicides & intermediates	2	(63)
fungicides & intermediates	2	(64)
rodenticides & intermediates	2	(65)
halogenated aliphatics	2	(66)
halogenated aromatics	2	(67)
acrylates & latex emulsions	2	(68)
PCB/PBB's	2	(69)
amides, amines, imides	2	(70)
plastizers	2	(71)
resins	2	(72)
elastomers	2	(73)
solvents polar (except water)	2	(74)
carbontetrachloride	2	(75)
trichloroethylene	2	(76)
other solvents nonpolar	2	(77)
solvents halogenated aliphatic	2	(78)
solvents halogenated aromatic	2	(79) 1 (80
oils and oil sludges	2	(10)
esters and ethers	2	(11)
alcohols	2	(12)
ketones & aldehydes	2	(13)
dioxins	2	(14)
Inorganics	2	(15)
salts	2	(16)
mercaptans	2	(17)
Misc.	2	(18)
pharmaceutical wastes	2	(19)
paints & pigments	2	(20)
catalysts (eg. vanadium, platinum, palladium)	2	(21)
asbestos	2	(22)
shock sensitive wastes (eg. nitrated toluenes)	2	(23)
air water reactive wastes (eg. P_4, aluminum chloride)	2	(24)
wastes with flash point below 100° F	2	(25) 2 (80

FORM D: SUPPLEMENTAL HAULER INFORMATION

COMPLETE THIS FORM FOR EACH FIRM OR INDEPENDENT CONTRACTOR (INCLUDING YOUR OWN COMPANY, ITS AFFILIATES & SUBSIDIARIES) WHO REMOVED PROCESS WASTE FROM THIS FACILITY SINCE 1950 AND TOOK IT TO AN UNKNOWN LOCATION

| | | | | | | | | (1-8)
(DO NOT USE)

Company Name: Allied Chemical Corporation
Facility Name: Delaware Works
Name of Hauling Firm/Contractor: International Chimney Corporation
Address: (no.) Box 203, 55 (street) South Long Street
(city) Buffalo (state) N.Y. (zip code) 14221

1. Year first used .....On record..... 19 7 2 (10-11)
2. Year last used (enter "79" if still in use) 19 7 2 (12-13)
3. Total amount of process waste hauled from this facility:
   thousand gallons ..... (14-21)
   hundred tons..... (22-28)
   thousand cubic yards ..... (29-36)
4. Components (or characteristics) of process waste from this facility disposed at site: (1=present in waste; 2=not present in waste; 9=don't know):
   FILL IN EVERY BLOCK SPACE

Acid solutions, with pH<3..... 2 (37)
- pickling liquor 2 (38)
- metal plating waste 2 (39)
- circuit etchings 2 (40)
- inorganic acid manufacture 2 (41)
- organic acid manufacture 2 (42)

Base solutions, with pH>12 ..... 2 (43)
- caustic soda manufacture 2 (44)
- nylon and similar polymer generation 2 (45)
- scrubber residual 2 (46)

Heavy metals & trace metals (bonded organically & inorganically) 1 (47)
- arsenic, selenium, antimony 2 (48)
- mercury 2 (49)
- iron, manganese, magnesium 1 (50)
- zinc, cadmium, copper, chromium (trivalent) 2 (51)
- chromium (hexavalent) 2 (52)
- lead 2 (53)

Radioactive residues, >50 pico curies/liter 2 (54)
- uranium residuals & residuals for UF_6 recycling 2 (55)
- lathanide series elements and rare earth salts 2 (56)
- phosphate slag 2 (57)
- thorium 2 (58)
- radium 2 (59)
- other alpha, beta & gamma emitters 2 (60)

Organics..... 2 (61)
- Insecticides & intermediates 2 (62)
- herbicides & intermediates 2 (63)
- fungicides & intermediates 2 (64)
- rodenticides & intermediates 2 (65)
- halogenated aliphatics 2 (66)
- halogenated aromatics 2 (67)
- acrylates & latex emulsions 2 (68)
- PCB/PBB's 2 (69)
- amides, amines, imides 2 (70)
- plastizers 2 (71)
- resins 2 (72)
- elastomers 2 (73)
- solvents polar (except water) 2 (74)
- carbontetrachloride 2 (75)
- trichloroethylene 2 (76)
- other solvents nonpolar 2 (77)
- solvents halogenated aliphatic..... 2 (78)
- solvents halogenated aromatic 2 (79) 1 (80
- oils and oil sludges 2 (10)
- esters and ethers 2 (11)
- alcohols 2 (12)
- ketones & aldehydes 2 (13)
- dioxins 2 (14)

Inorganics 2 (15)
- salts 2 (16)
- mercaptans 2 (17)

Misc..... 2 (18)
- pharmaceutical wastes 2 (19)
- paints & pigments 2 (20)
- catalysts (eg. vanadium, platinum, palladium) 2 (21)
- asbestos 2 (22)
- shock sensitive wastes (eg. nitrated toluenes) 2 (23)
- air water reactive wastes (eg. P_4, aluminum chloride) 2 (24)
- wastes with flash point below 100° F..... 2 (25) 2 (80

FORM D: SUPPLEMENTAL HAULER INFORMATION

| | | | | | | | | (1-8)
(DO NOT USE)

COMPLETE THIS FORM FOR EACH FIRM OR INDEPENDENT CONTRACTOR (INCLUDING YOUR OWN COMPANY, ITS AFFILIATES & SUBSIDIARIES) WHO REMOVED PROCESS WASTE FROM THIS FACILITY SINCE 1950 AND TOOK IT TO AN UNKNOWN LOCATION

Company Name: Allied Chemical Corporation
Facility Name: Delaware Works
Name of Hauling Firm/Contractor: Mobile Dredging & Pumping Company
Address: (no.) Box 237, 344 (street) Pottstown Road
(city) Exton (state) Pa. (zip code) [illegible]

1. Year first used ....On record.... 19 [ ][ ] (10-11)
2. Year last used (enter "79" if still in use) .... 19 [7][9] (12-13)
3. Total amount of process waste hauled from this facility:
   thousand gallons ..... [ ][ ][ ][ ][ ][ ][ ][ ] (14-21)
   hundred tons..... [ ][ ][ ][ ][ ][ ][ ] (22-28)
   thousand cubic yards ..... [ ][ ][ ][ ][ ][ ][ ] (29-36)
4. Components (or characteristics) of process waste from this facility disposed at site: (1=present in waste; 2=not present in waste; 9=don't know):
   FILL IN EVERY BLOCK SPACE

Acid solutions, with pH<3	[1]	(37)
pickling liquor	[2]	(38)
metal plating waste	[2]	(39)
circuit etchings	[2]	(40)
inorganic acid manufacture	[1]	(41)
organic acid manufacture	[2]	(42)
Base solutions, with pH>12	[2]	(43)
caustic soda manufacture	[2]	(44)
nylon and similar polymer generation	[2]	(45)
scrubber residual	[2]	(46)
Heavy metals & trace metals (bonded organically & inorganically)	[9]	(47)
arsenic, selenium, antimony	[9]	(48)
mercury	[9]	(49)
iron, manganese, magnesium	[9]	(50)
zinc, cadmium, copper, chromium (trivalent)	[9]	(51)
chromium (hexavalent)	[9]	(52)
lead	[9]	(53)
Radioactive residues, >50 pico curies/liter	[2]	(54)
uranium residuals & residuals for UF_6 recycling	[2]	(55)
lathanide series elements and rare earth salts	[2]	(56)
phosphate slag	[2]	(57)
thorium	[2]	(58)
radium	[2]	(59)
other alpha, beta & gamma emitters	[2]	(60)
Organics	[1]	(61)
Insecticides & intermediates	[2]	(62)
herbicides & intermediates	[2]	(63)
fungicides & intermediates	[2]	(64)
rodenticides & intermediates	[2]	(65)
halogenated aliphatics	[2]	(66)
halogenated aromatics	[2]	(67)
acrylates & latex emulsions	[2]	(68)
PCB/PBB's	[2]	(69)
amides, amines, imides	[2]	(70)
plastizers	[2]	(71)
resins	[2]	(72)
elastomers	[2]	(73)
solvents polar (except water)	[2]	(74)
carbontetrachloride	[2]	(75)
trichloroethylene	[2]	(76)
other solvents nonpolar	[2]	(77)
solvents halogenated aliphatic	[2]	(78)
solvents halogenated aromatic	[2]	(79) [1] (80)
oils and oil sludges	[1]	(10)
esters and ethers	[2]	(11)
alcohols	[2]	(12)
ketones & aldehydes	[2]	(13)
dioxins	[2]	(14)
Inorganics	[1]	(15)
salts	[1]	(16)
mercaptans	[2]	(17)
Misc.	[2]	(18)
pharmaceutical wastes	[2]	(19)
paints & pigments	[2]	(20)
catalysts (eg. vanadium, platinum, palladium)	[2]	(21)
asbestos	[2]	(22)
shock sensitive wastes (eg. nitrated toluenes)	[2]	(23)
air water reactive wastes (eg. P_4, aluminum chloride)	[2]	(24)
wastes with flash point below 100° F.	[2]	(25) [2] (8

FORM D: SUPPLEMENTAL HAULER INFORMATION

COMPLETE THIS FORM FOR EACH FIRM OR INDEPENDENT CONTRACTOR (INCLUDING YOUR OWN COMPANY, ITS AFFILIATES & SUBSIDIARIES) WHO REMOVED PROCESS WASTE FROM THIS FACILITY SINCE 1950 AND TOOK IT TO AN UNKNOWN LOCATION	(DO NOT USE) (1-8)

Company Name: Allied Chemical Corporation
Facility Name: Delaware Works
Name of Hauling Firm/Contractor: Hanshaw Excavating Company
Address: (no.) Box 2225 (street)
(city) Wilmington (state) DE (zip code) 19804

1. Year first used ..... Estimated 19 7 5 (10-11)
2. Year last used (enter "79" if still in use) 19 7 9 (12-13)
3. Total amount of process waste hauled from this facility:
   thousand gallons ..... (14-21)
   hundred tons...Estimate..... 5 (22-28)
   thousand cubic yards ..... (29-36)
4. Components (or characteristics) of process waste from this facility disposed at site: (1=present in waste; 2=not present in waste; 9=don't know):
   FILL IN EVERY BLOCK SPACE

Acid solutions, with pH<3	2	(37)
pickling liquor	2	(38)
metal plating waste	2	(39)
circuit etchings	2	(40)
inorganic acid manufacture	2	(41)
organic acid manufacture	2	(42)
Base solutions, with pH>12	2	(43)
caustic soda manufacture	2	(44)
nylon and similar polymer generation	2	(45)
scrubber residual	2	(46)
Heavy metals & trace metals (bonded organically & inorganically)	2	(47)
arsenic, selenium, antimony	2	(48)
mercury	2	(49)
iron, manganese, magnesium	2	(50)
zinc, cadmium, copper, chromium (trivalent)	2	(51)
chromium (hexavalent)	2	(52)
lead	2	(53)
Radioactive residues, >50 pico curies/liter	2	(54)
uranium residuals & residuals for UF_6 recycling	2	(55)
lathanide series elements and rare earth salts	2	(56)
phosphate slag	2	(57)
thorium	2	(58)
radium	2	(59)
other alpha, beta & gamma emitters	2	(60)
Organics	2	(61)
Insecticides & intermediates	2	(62)
herbicides & intermediates	2	(63)
fungicides & intermediates	2	(64)
rodenticides & intermediates	2	(65)
halogenated aliphatics	2	(66)
halogenated aromatics	2	(67)
acrylates & latex emulsions	2	(68)
PCB/PBB's	2	(69)
amides, amines, imides	2	(70)
plastizers	2	(71)
resins	2	(72)
elastomers	2	(73)
solvents polar (except water)	2	(74)
carbontetrachloride	2	(75)
trichloroethylene	2	(76)
other solvents nonpolar	2	(77)
solvents halogenated aliphatic	2	(78)
solvents halogenated aromatic	2	(79) 1 (80)
oils and oil sludges	2	(10)
esters and ethers	2	(11)
alcohols	2	(12)
ketones & aldehydes	2	(13)
dioxins	2	(14)
Inorganics	1	(15)
salts	1	(16)
mercaptans	2	(17)
Misc.	2	(18)
pharmaceutical wastes	2	(19)
paints & pigments	2	(20)
catalysts (eg. vanadium, platinum, palladium)	2	(21)
asbestos	2	(22)
shock sensitive wastes (eg. nitrated toluenes)	2	(23)
air water reactive wastes (eg. P_4, aluminum chloride)	2	(24)
wastes with flash point below 100° F	2	(25) 2 (50)

FORM D: SUPPLEMENTAL HAULER INFORMATION

								(1-8)
								(DO NOT USE)

COMPLETE THIS FORM FOR EACH FIRM OR INDEPENDENT CONTRACTOR (INCLUDING YOUR OWN COMPANY, ITS AFFILIATES & SUBSIDIARIES) WHO REMOVED PROCESS WASTE FROM THIS FACILITY SINCE 1950 AND TOOK IT TO AN UNKNOWN LOCATION

Company Name: Allied Chemical Corporation
Facility Name: Delaware Works
Name of Hauling Firm/Contractor: Tri-State Pollution Control
Address: (no.) Box 340 (street) 2 Clearance Road
(city) Claymont (state) DE (zip code) 19703

1. Year first used .....Estimated..... 19 7 6 (10-11)
2. Year last used (enter "79" if still in use) 19 7 7 (12-13)
3. Total amount of process waste hauled from this facility:
   thousand gallons ..... | | | | | | | | (14-21)
   hundred tons..... | | | | | | | | (22-28)
   thousand cubic yards ..... | | | | | | | | (29-36)
4. Components (or characteristics) of process waste from this facility disposed at site: (1=present in waste; 2=not present in waste; 9=don't know):
   FILL IN EVERY BLOCK SPACE

Acid solutions, with pH<3	2	(37)
pickling liquor	2	(38)
metal plating waste	2	(39)
circuit etchings	2	(40)
inorganic acid manufacture	2	(41)
organic acid manufacture	2	(42)
Base solutions, with pH>12	2	(43)
caustic soda manufacture	2	(44)
nylon and similar polymer generation	2	(45)
scrubber residual	2	(46)
Heavy metals & trace metals (bonded organically & inorganically)	1	(47)
arsenic, selenium, antimony	2	(48)
mercury	2	(49)
iron, manganese, magnesium	1	(50)
zinc, cadmium, copper, chromium (trivalent)	2	(51)
chromium (hexavalent)	2	(52)
lead	2	(53)
Radioactive residues, >50 pico curies/liter	2	(54)
uranium residuals & residuals for UF_6 recycling	2	(55)
lathanide series elements and rare earth salts	2	(56)
phosphate slag	2	(57)
thorium	2	(58)
radium	2	(59)
other alpha, beta & gamma emitters	2	(60)
Organics	1	(61)
Insecticides & intermediates	2	(62)
herbicides & intermediates	2	(63)
fungicides & intermediates	2	(64)
rodenticides & intermediates	2	(65)
halogenated aliphatics	2	(66)
halogenated aromatics	2	(67)
acrylates & latex emulsions	2	(68)
PCB/PBB's	2	(69)
amides, amines, imides	2	(70)
plastizers	2	(71)
resins	2	(72)
elastomers	2	(73)
solvents polar (except water)	2	(74)
carbontetrachloride	2	(75)
trichloroethylene	2	(76)
other solvents nonpolar	2	(77)
solvents halogenated aliphatic	2	(78)
solvents halogenated aromatic	2	(79) 1 (80)
oils and oil sludges	1	(10)
esters and ethers	2	(11)
alcohols	2	(12)
ketones & aldehydes	2	(13)
dioxins	2	(14)
Inorganics	2	(15)
salts	2	(16)
mercaptans	2	(17)
Misc.	2	(18)
pharmaceutical wastes	2	(19)
paints & pigments	2	(20)
catalysts (eg. vanadium, platinum, palladium)	2	(21)
asbestos	2	(22)
shock sensitive wastes (eg. nitrated toluenes)	2	(23)
air water reactive wastes (eg. P_4, aluminum chloride)	2	(24)
wastes with flash point below 100° F	2	(25) 2 (80)

FORM D: SUPPLEMENTAL HAULER INFORMATION

								(1-8)
								(DO NOT USE)

COMPLETE THIS FORM FOR EACH FIRM OR INDEPENDENT CONTRACTOR (INCLUDING YOUR OWN COMPANY, ITS AFFILIATES & SUBSIDIARIES) WHO REMOVED PROCESS WASTE FROM THIS FACILITY SINCE 1950 AND TOOK IT TO AN UNKNOWN LOCATION

Company Name: Allied Chemical Corporation
Facility Name: Delaware Works
Name of Hauling Firm/Contractor: Wright Construction Company
Address: (no.) 6515 (street) Governor Printz Boulevard
(city) Wilmington (state) DE (zip code) 19809

1. Year first used ..... On record
2. Year last used (enter "79" if still in use) 19 7 2 (10-11)
3. Total amount of process waste hauled from this facility:
   thousand gallons ..... | | | | | | - - | (14-21)
   hundred tons. Estimate ..... | | | | | | 5 | (22-28)
   thousand cubic yards ..... | | | | | | - - | (29-36)
4. Components (or characteristics) of process waste from this facility disposed at site: (1=present in waste; 2=not present in waste; 9=don't know):
   FILL IN EVERY BLOCK SPACE

Acid solutions, with pH<3	1	(37)
pickling liquor	2	(38)
metal plating waste	2	(39)
circuit etchings	2	(40)
inorganic acid manufacture	1	(41)
organic acid manufacture	2	(42)
Base solutions, with pH>12	2	(43)
caustic soda manufacture	2	(44)
nylon and similar polymer generation	2	(45)
scrubber residual	2	(46)
Heavy metals & trace metals (bonded organically & inorganically)	9	(47)
arsenic, selenium, antimony	9	(48)
mercury	9	(49)
iron, manganese, magnesium	9	(50)
zinc, cadmium, copper, chromium (trivalent)	9	(51)
chromium (hexavalent)	9	(52)
lead	9	(53)
Radioactive residues, >50pico curies/liter	2	(54)
uranium residuals & residuals for UF_6 recycling	2	(55)
lathanide series elements and rare earth salts	2	(56)
phosphate slag	2	(57)
thorium	2	(58)
radium	2	(59)
other alpha, beta & gamma emitters	2	(60)
Organics	9	(61)
Insecticides & intermediates	9	(62)
herbicides & intermediates	9	(63)
fungicides & intermediates	9	(64)
rodenticides & intermediates	9	(65)
halogenated aliphatics	9	(66)
halogenated aromatics	9	(67)
acrylates & latex emulsions	9	(68)
PCB/PBB's	9	(69)
amides, amines, imides	9	(70)
plastizers	9	(71)
resins	9	(72)
elastomers	9	(73)
solvents polar (except water)	9	(74)
carbontetrachloride	9	(75)
trichloroethylene	9	(76)
other solvents nonpolar	9	(77)
solvents halogenated aliphatic	9	(78)
solvents halogenated aromatic	9	(79) 1 (80)
oils and oil sludges	9	(10)
esters and ethers	9	(11)
alcohols	9	(12)
ketones & aldehydes	9	(13)
dioxins	9	(14)
Inorganics	9	(15)
salts	9	(16)
mercaptans	2	(17)
Misc.	9	(18)
pharmaceutical wastes	2	(19)
paints & pigments	9	(20)
catalysts (eg. vanadium, platinum, palladium)	2	(21)
asbestos	9	(22)
shock sensitive wastes (eg. nitrated toluenes)	2	(23)
air water reactive wastes (eg. P_4, aluminum chloride)	2	(24)
wastes with flash point below 100° F	2	(25) 2 (6

ORIGINAL (Red)

FRANKFORD PLANT

| 1 | | | | (1-5)
(DO NOT USE)

FORM A: GENERAL FACILITY INFORMATION

Company Name: ALLIED CHEMICAL CORPORATION

Facility Name: FRANKFORD PLANT

Address: MARGARET & BERMUDA STREETS
No. Street

PHILADELPHIA, PA 19137
City State Zip Code

Name of Person Completing Form: S. L. ELISHEWITZ

Position: MANAGER - TECHNICAL DEPARTMENT

Phone Number: (215) 533 - 3000 EXT. 311

1. Year Facility Opened ..... 19 |2|0| (10-11)

2. Primary SIC Code ..... |2|8|6|5| (12-15)

3. Estimate the total amounts of process wastes (excluding wastes sold for use) generated by this facility during 1978:

   thousand gallons ..... | | | | | | | | (16-24)

   hundred tons ..... | | | | | | |2| (25-32)

   thousand cubic yards ..... | | | | | | | | (33-41)

4. Estimate (in whole percents) how these process wastes generated in 1978 were disposed of:

   in landfill ..... |1|0|0| (42-44)

   in pit/pond/lagoon ..... | | |-| (45-47)

   in deep well ..... | | |-| (48-50)

   incinerated ..... | | |-| (51-53)

   reprocessed/recycled ..... | | |-| (54-56)

   evaporated ..... | | |-| (57-59)

   unknown ..... | | |-| (60-62)

   other (Specify _____) ..... | | |-| (63-65)

5. What is the total number of known sites (including disposal on the property where this facility is located as one site) that have been used for the disposal of process wastes from this facility since 1950?..... | | |7| (66-68)

   COMPLETE ONE FORM "B" FOR EACH OF THE SITES

6. Have any of the process wastes generated at this facility been hauled (removed) from this facility for disposal? (Yes=1; no=2) ..... |1| (69)

   IF YES, COMPLETE FORM "C"

7. Do you know the disposal site locations of all of the process waste hauled from your facility since 1950? (Yes=1; no=2) ..... |2| (70)

   IF NO, COMPLETE ONE FORM "D" FOR EACH FIRM OR CONTRACTOR WHO TOOK WASTE TO AN UNKNOWN LOCATION

8. Specify the earliest year represented by information from company or facility records supplied on this and other forms .....19|5|8| (71-72)

9. Specify the earliest year represented by information from employee knowledge supplied on this and other forms .....19|5|0| (73-74)

(DO NOT USE) (1-8)

FORM B: DISPOSAL SITE INFORMATION

COMPLETE THIS FORM FOR EVERY SITE (INCLUDING THE LOCATION OF THIS FACILITY AS ONE SITE) USED FOR THE DISPOSAL OF PROCESS WASTES GENERATED BY THIS FACILITY SINCE 1950.

Company Name: ALLIED CHEMICAL CORPORATION
Facility Name: FRANKFORD PLANT
Name of Site: QUICKWAY TRASH REMOVAL COMPANY
Address of Site: 1900 SOUTH ORTRODOX STREET
no. street

PHILADELPHIA, PA 19137
city state zip code

Name of Owner (while used by facility): ROBERT HAWTHORNE
Address: 1900 SOUTH ORTRODOX STREET
no. street

PHILADELPHIA, PA 19137
city state zip code

Current Owner (if different from above):
Address:
no. street

city state zip code

1. Location (1= the property on which facility is located; 2= off-site)..... 2 (10)
2. Ownership at time of use (1= company ownership; 2=private but not company ownership) 3=public ownership) 2 (11)
3. Current status (1= closed; 2= still in use; 9=don't know) 2 (12)
   IF CLOSED, specify year closed 19 (13-14)
4. Year first used for process waste from this facility ...ESTIMATED... 19 3 3 (15-16)
5. Year last used for process waste from this facility (enter "79" if still in use) 19 7 9 (17-18)
6. Total amount of process waste from this facility disposed at site:
   thousand gallons ..... (19-26)
   hundred tons 0 0 0 0 0 0 0 (27-33)
   thousand cubic yards ..... (34-41)
7. Specify type(s) of disposal method(s) used at site and whether method is still in use (1=currently in use; 2=no longer in use; 3=never used; 9=don't know)
   landfill, mono industrial waste 9 (42)
   landfill, mixed industrial waste 1 (43)
   landfill, drummed waste 9 (44)
   landfill, municipal refuse co-disposed ... 9 (45)
   pits/ponds/lagoons 9 (46)
   deep well injection 3 (47)
   land farming 3 (48)
   incineration 9 (49)
   treatment (eg. neutralizing)..... 9 (50)
   reprocessing/recycling 9 (51)
   other (specify)..... 9 (52)
8. Users of this site (1=this facility; 2=this facility and other company facilities only; 3=this company and others; 9=don't know) 3 (53)

LIST NAMES AND ADDRESSES OF OTHER KNOWN USERS BELOW

FORM B CONTINUED ON SECOND PAGE

1 (80)

(DO NOT USE)

Company Name: ALLIED CHEMICAL CORPORATION

Facility Name: FRANKFORD PLANT

Site Name: QUICKWAY TRASH REMOVAL

9. Components (or characteristics) of process waste from this facility disposed at site: (1=present in waste; 2=not present in waste; 9=don't know)

FILL IN EVERY BLOCK SPACE

Acid solutions, with pH<3		(10)
pickling liquor		(11)
metal plating waste		(12)
circuit etchings		(13)
inorganic acid manufacture		(14)
organic acid manufacture		(15)
Base solutions, with pH>10		(16)
caustic soda manufacture		(17)
nylon and similar polymer generation		(18)
scrubber residual		(19)
Heavy metals & trace metals (bonded organically & inorganically)		(20)
arsenic, selenium, antimony		(21)
mercury		(22)
iron, manganese, magnesium		(23)
zinc, cadmium, copper, chromium (trivalent)		(24)
chromium (hexavalent)		(25)
lead		(26)
Radioactive residues, >5 pico curies/liter		(27)
uranium residuals & residuals for UF_6 recycling		(28)
lanthanide series elements and rare earth salts		(29)
phosphate slag		(30)
thorium		(31)
radium		(32)
other alpha, beta & gamma emitters		(33)
Organics		(34)
pesticides & intermediates		(35)
herbicides & intermediates		(36)
fungicides & intermediates		(37)
rodenticides & intermediates		(38)
halogenated aliphatics		(39)
halogenated aromatics		(40)
acrylates & latex emulsions		(41)
PCB/PBB's		(42)
amides, amines, imides		(43)
plasticers		(44)
resins		(45)
elastomers		(46)
solvents polar (except water)		(47)
carbontetrachloride		(48)
trichloroethylene		(49)
other solvents nonpolar		(50)
solvents halogenated aliphatic		(51)
solvents halogenated aromatic		(52)
oils and oil sludges		(53)
esters and ethers		(54)
alcohols		(55)
ketones & aldehydes		(56)
dioxins		(57)
Inorganics		(58)
salts		(59)
mercaptans		(60)
Misc.		(61)
pharmaceutical wastes		(62)
paints & pigments		(63)
catalysts (eg. vanadium, platinum, palladium)		(64)
asbestos		(65)
shock sensitive wastes (eg. nitrated toluenes)		(66)
air water reactive wastes (eg. P_4, aluminum chloride)		(67)
wastes with flash point below 100° F		(68)

FORM 8: 012 ALL SITE INFORMATION (DO NOT USE)

COMPLETE THIS FORM FOR EVERY SITE (INCLUDING THE LOCATION OF THIS FACILITY AS ONE SITE) USED FOR THE DISPOSAL OF PROCESS WASTES GENERATED BY THIS FACILITY SINCE 1950.

Company Name: ALLIED CHEMICAL CORPORATION
Facility Name: FRANKFORD PLANT
Name of Site: FRANKFORD PLANT
Address of Site: MARGARET AND BERMUDA STREETS
no. street

PHILADELPHIA, PA 19137
city state zip code

Name of Owner (while used by facility): ALLIED CHEMICAL CORPORATION
Address: P. O. BOX 2006 R
no. street

MORRISTOWN, NJ 07960
city state zip code

Current Owner (if different from above): _____
Address: _____
no. street

_____
city state zip code

1. Location (1= the property on which facility is located; 2= off-site) ..... [1] (10)
2. Ownership at time of use (1= company ownership; 2=private but not company ownership) 3=public ownership) ..... [1] (11)
3. Current status (1= closed; 2= still in use; 9=don't know) ..... [1] (12)
   IF CLOSED, specify year closed ..... 19[6][6] (13-14)
4. Year first used for process waste from this facility ..... 19[3][7] (15-16)
5. Year last used for process waste from this facility (enter "79" if still in use) ..... 19[6][6] (17-18)
6. Total amount of process waste from this facility disposed at site:
   thousand gallons ..... [ ][ ][ ][ ][ ][ ][ ] (19-26)
   hundred tons ..... [ ][ ][ ][ ][ ][ ][7] (27-33)
   thousand cubic yards ..... [ ][ ][ ][ ][ ][ ][ ] (34-41)
7. Specify type(s) of disposal method(s) used at site and whether method is still in use (1=currently in use; 2=no longer in use; 3=never used; 9=don't know)
   landfill, some industrial waste ..... [2] (42)
   landfill, mixed industrial waste ..... [2] (43)
   landfill, drummed waste ..... [2] (44)
   landfill, municipal refuse co-disposed ... [3] (45)
   pits/ponds/lagoons ..... [2] (46)
   deep well injection ..... [3] (47)
   land farming ..... [3] (48)
   incineration ..... [3] (49)
   treatment (eg. neutralizing)..... [3] (50)
   reprocessing/recycling ..... [3] (51)
   other (specify) _____.... [3] (52)
8. Users of this site (1=this facility; 2=this facility and other company facilities only; 3=this company and others; 9=don't know) ..... [1] (53)

LIST NAMES AND ADDRESSES OF OTHER KNOWN USERS BELOW

FORM 8 CONTINUED ON SECOND PAGE

[3] (30)

Company Name: ALLIED CHEMICAL CORPORATION

Facility Name: FRANKFORD PLANT

Site Name: FRANKFORD PLANT

9. Components (or characteristics) of process waste from this facility disposed at site: (1=present in waste; 2=not present in waste; 9=don't know)

FILL IN EVERY BLOCK SPACE

Acid solutions, with pH<3		(10)
pickling liquor		(11)
metal plating waste		(12)
circuit etchings		(13)
inorganic acid manufacture		(14)
organic acid manufacture		(15)
Base solutions, with pH>10		(16)
caustic soda manufacture		(17)
nylon and similar polymer generation		(18)
scrubber residual		(19)
Heavy metals & trace metals (bonded organically & inorganically)		(20)
arsenic, selenium, antimony		(21)
mercury		(22)
iron, manganese, magnesium		(23)
zinc, cadmium, copper, chromium (trivalent)		(24)
chromium (hexavalent)		(25)
lead		(26)
Radioactive residues, >5 pico curies/liter		(27)
uranium residuals & residuals for UF_6 recycling		(28)
lanthanide series elements and rare earth salts		(29)
phosphate slag		(30)
thorium		(31)
radium		(32)
other alpha, beta & gamma emitters		(33)
Organics		(34)
pesticides & intermediates		(35)
herbicides & intermediates		(36)
fungicides & intermediates		(37)
rodenticides & intermediates		(38)
halogenated aliphatics		(39)
halogenated aromatics		(40)
acrylates & latex emulsions		(41)
PCB/PBB's		(42)
amides, amines, imides		(43)
plasticers		(44)
resins		(45)
elastomers		(46)
solvents polar (except water)		(47)
carbontetrachloride		(48)
trichloroethylene		(49)
other solvents nonpolar		(50)
solvents halogenated aliphatic		(51)
solvents halogenated aromatic		(52)
oils and oil sludges		(53)
esters and ethers		(54)
alcohols		(55)
ketones & aldehydes		(56)
dioxins		(57)
Inorganics		(58)
salts		(59)
mercaptans		(60)
Misc.		(61)
pharmaceutical wastes		(62)
paints & pigments		(63)
catalysts (eg. vanadium, platinum, palladium)		(64)
asbestos		(65)
shock sensitive wastes (eg. nitrated toluenes)		(66)
air water reactive wastes (eg. P_4, aluminum chloride)		(67)
wastes with flash point below 100° F		(68)

FORM 3: DISPOSAL SITE INFORMATION

(DO NOT USE)

COMPLETE THIS FORM FOR EVERY SITE (INCLUDING THE LOCATION OF THIS FACILITY AS ONE SITE) USED FOR THE DISPOSAL OF PROCESS WASTES GENERATED BY THIS FACILITY SINCE 1950.

Company Name: ALLIED CHEMICAL CORPORATION
Facility Name: FRANKFORD PLANT
Name of Site: SANITARY LANDFILL, INC.
Address of Site: 1012 UNION LANDING ROAD
no. street

CINNAMINSON, NJ -
city state zip code

Name of Owner (while used by facility): RHETT D. RAGSDALE (WASTE RESOURCES CORP.)
Address: P. O. BOX 180
no. street.

MORRISVILLE, PA 19067
city state zip code

Current Owner (if different from above): _____
Address: _____
no. street

_____
city state zip code

1. Location (1= the property on which facility is located; 2= off-site) 2 (10)
2. Ownership at time of use (1= company ownership; 2=private but not company ownership) 3=public ownership) 2 (11)
3. Current status (1= closed; 2= still in use; 9=don't know) 2 (12)
   IF CLOSED, specify year closed ..... 19 | | (13-14)
4. Year first used for process waste from this facility 19 7 2 (15-16)
5. Year last used for process waste from this facility (enter "79" if still in use) 19 7 7 (17-18)
6. Total amount of process waste from this facility disposed at site:
   thousand gallons ..... | | | | | | | | (19-26)
   hundred tons ..... | | | | | | | 7 (27-33)
   thousand cubic yards ..... | | | | | | | | (34-41)
7. Specify type(s) of disposal method(s) used at site and whether method is still in use (1=currently in use; 2=no longer in use; 3=never used; 9=don't know)
   landfill, none industrial waste 9 (42)
   landfill, mixed industrial waste 1 (43)
   landfill, drummed waste 9 (44)
   landfill, municipal refuse co-disposed ... 9 (45)
   pits/ponds/lagoons 9 (46)
   deep well injection 3 (47)
   land farming 3 (48)
   incineration 9 (49)
   treatment (eg. neutralizing)..... 9 (50)
   reprocessing/recycling 9 (51)
   other (specify) _____ 9 (52)
8. Users of this site (1=this facility; 2=this facility and other company facilities only; 3=this company and others; 9=don't know) 3 (53)

LIST NAMES AND ADDRESSES OF OTHER KNOWN USERS BELOW

FORM 3 CONTINUED ON SECOND PAGE

Company Name: ALLIED CHEMICAL CORPORATION

Facility Name: FRANKFORD PLANT

Site Name: SANITARY LANDFILL, INC.

9. Components (or characteristics) of process waste from this facility disposed at site: (1=present in waste; 2=not present in waste; 9=don't know)

FILL IN EVERY BLOCK SPACE

Acid solutions, with pH<3		(10)
pickling liquor		(11)
metal plating waste		(12)
circuit etchings		(13)
inorganic acid manufacture		(14)
organic acid manufacture		(15)
Base solutions, with pH>10		(16)
caustic soda manufacture		(17)
nylon and similar polymer generation		(18)
scrubber residual		(19)
Heavy metals & trace metals (bonded organically & inorganically)		(20)
arsenic, selenium, antimony		(21)
mercury		(22)
iron, manganese, magnesium		(23)
zinc, cadmium, copper, chromium (trivalent)		(24)
chromium (hexavalent)		(25)
lead		(26)
Radioactive residues, >5 pico curies/liter		(27)
uranium residuals & residuals for UF_6 recycling		(28)
lathanide series elements and rare earth salts		(29)
phosphate slag		(30)
thorium		(31)
radium		(32)
other alpha, beta & gamma emitters		(33)
Organics		(34)
pesticides & intermediates		(35)
herbicides & intermediates		(36)
fungicides & intermediates		(37)
rodenticides & intermediates		(38)
halogenated aliphatics		(39)
halogenated aromatics		(40)
acrylates & latex emulsions		(41)
PCB/PBB's		(42)
amides, amines, imides		(43)
plasticers		(44)
resins		(45)
elastomers		(46)
solvents polar (except water)		(47)
carbontetrachloride		(48)
trichloroethylene		(49)
other solvents nonpolar		(50)
solvents halogenated aliphatic		(51)
solvents halogenated aromatic		(52)
oils and oil sludges		(53)
esters and ethers		(54)
alcohols		(55)
ketones & aldehydes		(56)
dioxins		(57)
Inorganics		(58)
salts		(59)
mercaptans		(60)
Misc.		(61)
pharmaceutical wastes		(62)
paints & pigments		(63)
catalysts (eg. vanadium, platinum, palladium)		(64)
asbestos		(65)
shock sensitive wastes (eg. nitrated toluenes)		(66)
air water reactive wastes (eg. P_4, aluminum chloride)		(67)
wastes with flash point below 100° F		(68)

FORM 3: DISPOSAL SITE INFORMATION (DO NOT USE)

COMPLETE THIS FORM FOR EVERY SITE (INCLUDING THE LOCATION OF THIS FACILITY AS ONE SITE) USED FOR THE DISPOSAL OF PROCESS WASTES GENERATED BY THIS FACILITY SINCE 1950.

Company Name: ALLIED CHEMICAL CORPORATION
Facility Name: FRANKFORD PLANT
Name of Site: ROLLINS ENVIRONMENTAL SERVICE
Address of Site: P. O. BOX 221
no. street

BRIDGEPORT, NJ 08014
city state zip code

Name of Owner (while used by facility): ROLLINS ENVIRONMENTAL SERVICES, INC.
Address: ONE ROLLINS PLAZA
no. street

WILMINGTON, DELAWARE 19899
city state zip code

Current Owner (if different from above): _____
Address: _____
no. street

_____
city state zip code

1. Location (1= the property on which facility is located; 2= off-site) ..... [2] (10)
2. Ownership at time of use (1= company ownership; 2=private but not company ownership) 3=public ownership) ..... [2] (11)
3. Current status (1= closed; 2= still in use; 9=don't know) ..... [2] (12)
   IF CLOSED, specify year closed ..... 19[ ] (13-14)
4. Year first used for process waste from this facility ..... 19[71] (15-16)
5. Year last used for process waste from this facility (enter "79" if still in use) ..... 19[79] (17-18)
6. Total amount of process waste from this facility disposed at site:
   thousand gallons ..... [ ] (19-26)
   hundred tons ..... [4] (27-33)
   thousand cubic yards ..... [ ] (34-41)
7. Specify type(s) of disposal method(s) used at site and whether method is still in use (1=currently in use; 2=no longer in use; 3=never used; 9=don't know)
   landfill, some industrial waste ..... [9] (42)
   landfill, mixed industrial waste ..... [ ] (43)
   landfill, drummed waste ..... [ ] (44)
   landfill, municipal refuse co-disposed ... [3] (45)
   pits/ponds/lagoons ..... [ ] (46)
   deep well injection ..... [3] (47)
   land farming ..... [3] (48)
   incineration ..... [ ] (49)
   treatment (eg. neutralizing) ..... [ ] (50)
   reprocessing/recycling ..... [9] (51)
   other (specify) _____ .... [9] (52)
8. Users of this site (1=this facility; 2=this facility and other company facilities only; 3=this company and others; 9=don't know) ..... [3] (53)

LIST NAMES AND ADDRESSES OF OTHER KNOWN USERS BELOW

FORM 3 CONTINUED ON SECOND PAGE

(DO NOT USE)

Company Name: ALLIED CHEMICAL CORPORATION

Facility Name: FRANKFORD PLANT

Site Name: ROLLINS ENVIRONMENTAL SERVICES

9. Components (or characteristics) of process waste from this facility disposed at site: (1=present in waste; 2=not present in waste; 9=don't know)

FILL IN EVERY BLOCK SPACE

Acid solutions, with pH<3		(10)
pickling liquor		(11)
metal plating waste		(12)
circuit etchings		(13)
inorganic acid manufacture		(14)
organic acid manufacture		(15)
Base solutions, with pH>10		(16)
caustic soda manufacture		(17)
nylon and similar polymer generation		(18)
scrubber residual		(19)
Heavy metals & trace metals (bonded organically & inorganically)		(20)
arsenic, selenium, antimony		(21)
mercury		(22)
iron, manganese, magnesium		(23)
zinc, cadmium, copper, chromium (trivalent)		(24)
chromium (hexavalent)		(25)
lead		(26)
Radioactive residues, >5 pico curies/liter		(27)
uranium residuals & residuals for UF_6 recycling		(28)
lathanide series elements and rare earth salts		(29)
phosphate slag		(30)
thorium		(31)
radium		(32)
other alpha, beta & gamma emitters		(33)
Organics		(34)
pesticides & intermediates		(35)
herbicides & intermediates		(36)
fungicides & intermediates		(37)
rodenticides & intermediates		(38)
halogenated aliphatics		(39)
halogenated aromatics		(40)
acrylates & latex emulsions		(41)
PCB/PBB's		(42)
amides, amines, imides		(43)
plasticers		(44)
resins		(45)
elastomers		(46)
solvents polar (except water)		(47)
carbontetrachloride		(48)
trichloroethylene		(49)
other solvents nonpolar		(50)
solvents halogenated aliphatic		(51)
solvents halogenated aromatic		(52)
oils and oil sludges		(53)
esters and ethers		(54)
alcohols		(55)
ketones & aldehydes		(56)
dioxins		(57)
Inorganics		(58)
salts		(59)
mercaptans		(60)
Misc.		(61)
pharmaceutical wastes		(62)
paints & pigments		(63)
catalysts (eg. vanadium, platinum, palladium)		(64)
asbestos		(65)
shock sensitive wastes (eg. nitrated toluenes)		(66)
air water reactive wastes (eg. P_4, aluminum chloride)		(67)
wastes with flash point below 100° F		(68)

FORM 3: DISPOSAL SITE INFORMATION

(DO NOT USE)

COMPLETE THIS FORM FOR EVERY SITE (INCLUDING THE LOCATION OF THIS FACILITY AS ONE SITE) USED FOR THE DISPOSAL OF PROCESS WASTES GENERATED BY THIS FACILITY SINCE 1950.

Company Name: ALLIED CHEMICAL CORPORATION
Facility Name: FRANKFORD PLANT
Name of Site: REGAL PETROLEUM PRODUCTS CORPORATION
Address of Site: P. O. BOX 61
no. street

BRIDGEPORT, NJ -
city state zip code

Name of Owner (while used by facility): REGAL PETROLEUM PRODUCTS CORP.
Address: P. O. BOX 61
no. street

BRIDGEPORT NJ -
city state zip code

Current Owner (if different from above): _____
Address: _____
no. street

_____
city state zip code

1. Location (1= the property on which facility is located; 2= off-site) ..... [2] (10)
2. Ownership at time of use (1= company ownership; 2=private but not company ownership) 3=public ownership) ..... [2] (11)
3. Current status (1= closed; 2= still in use; 9=don't know) ..... [2] (12)
   IF CLOSED, specify year closed ..... 19[ ][ ] (13-14)
4. Year first used for process waste from this facility ..... 19[61] (15-16)
5. Year last used for process waste from this facility (enter "79" if still in use) ..... 19[61] (17-18)
6. Total amount of process waste from this facility disposed at site:
   thousand gallons ..... [ ][ ][ ][ ][ ][ ][5] (19-26)
   hundred tons ..... [ ][ ][ ][ ][ ][ ][ ] (27-33)
   thousand cubic yards ..... [ ][ ][ ][ ][ ][ ][ ] (34-41)
7. Specify type(s) of disposal method(s) used at site and whether method is still in use (1=currently in use; 2=no longer in use; 3=never used; 9=don't know)
   landfill, none industrial waste ..... [9] (42)
   landfill, mixed industrial waste ..... [9] (43)
   landfill, drummed waste ..... [9] (44)
   landfill, municipal refuse co-disposed ... [9] (45)
   pits/ponds/lagoons ..... [9] (46)
   deep well injection ..... [9] (47)
   land farming ..... [9] (48)
   incineration ..... [9] (49)
   treatment (eg. neutralizing)..... [9] (50)
   reprocessing/recycling ..... [9] (51)
   other (specify) _____ .... [9] (52)
8. Users of this site (1=this facility; 2=this facility and other company facilities only; 3=this company and others; 9=don't know) ..... [9] (53)

LIST NAMES AND ADDRESSES OF OTHER KNOWN USERS BELOW

FORM 3 CONTINUED ON SECOND PAGE

Company Name: ALLIED CHEMICAL CORPORATION

Facility Name: FRANKFORD PLANT

Site Name: REGAL PETROLEUM PRODUCTS CORP.

9. Components (or characteristics) of process waste from this facility disposed at site: (1=present in waste; 2=not present in waste; 9=don't know)

FILL IN EVERY BLOCK SPACE

Acid solutions, with pH<3	2	(10)
pickling liquor	2	(11)
metal plating waste	2	(12)
circuit etchings	2	(13)
inorganic acid manufacture	2	(14)
organic acid manufacture	2	(15)
Base solutions, with pH>10	2	(16)
caustic soda manufacture	2	(17)
nylon and similar polymer generation	2	(18)
scrubber residual	2	(19)
Heavy metals & trace metals (bonded organically & inorganically)		(20)
arsenic, selenium, antimony	2	(21)
mercury	2	(22)
iron, manganese, magnesium	2	(23)
zinc, cadmium, copper, chromium (trivalent)	2	(24)
chromium (hexavalent)	2	(25)
lead	2	(26)
Radioactive residues, >5 pico curies/liter	2	(27)
uranium residuals & residuals for UF_6 recycling	2	(28)
lathanide series elements and rare earth salts	2	(29)
phosphate slag	2	(30)
thorium	2	(31)
radium	2	(32)
other alpha, beta & gamma emitters	2	(33)
Organics		(34)
pesticides & intermediates	2	(35)
herbicides & intermediates	2	(36)
fungicides & intermediates	2	(37)
rodenticides & intermediates	2	(38)
halogenated aliphatics	2	(39)
halogenated aromatics	2	(40)
acrylates & latex emulsions	2	(41)
PCB/PBB's	2	(42)
amides, amines, imides	2	(43)
plastizers	2	(44)
resins	2	(45)
elastomers	2	(46)
solvents polar (except water)	2	(47)
carbontetrachloride	2	(48)
trichloroethylene	2	(49)
other solvents nonpolar	2	(50)
solvents halogenated aliphatic	2	(51)
solvents halogenated aromatic	2	(52)
oils and oil sludges	2	(53)
esters and ethers	2	(54)
alcohols	2	(55)
ketones & aldehydes	2	(56)
dioxins	2	(57)
Inorganics	2	(58)
salts	2	(59)
mercaptans	2	(60)
Misc.	2	(61)
pharmaceutical wastes	2	(62)
paints & pigments	2	(63)
catalysts (eg. vanadium, platinum, palladium)	2	(64)
asbestos	2	(65)
shock sensitive wastes (eg. nitrated toluenes)	2	(66)
air water reactive wastes (eg. P_4, aluminum chloride)	2	(67)
wastes with flash point below 100° F	2	(68)

FORM 3: DI. AL SITE INFORMATION (DO NOT USE)

COMPLETE THIS FORM FOR EVERY SITE (INCLUDING THE LOCATION OF THIS FACILITY AS ONE SITE) USED FOR THE DISPOSAL OF PROCESS WASTES GENERATED BY THIS FACILITY SINCE 1950.

Company Name: ALLIED CHEMICAL CORPORATION
Facility Name: FRANKFORD PLANT
Name of Site: G.R.O.W.S. LANDFILL
Address of Site: NEWFORD ROAD
no. street

NORRISVILLE, PA 19067
city state zip code

Name of Owner (while used by facility): MR. RHETT D. RAGSDALE, JR.
Address: P. O. BOX 180
no. street

NORRISVILLE, PA 19067
city state zip code

Current Owner (if different from above):
Address:
no. street

city state zip code

1. Location (1= the property on which facility is located; 2= off-site) ..... [2] (10)
2. Ownership at time of use (1= company ownership; 2=private but not company ownership) 3=public ownership) ..... [2] (11)
3. Current status (1= closed; 2= still in use; 9=don't know) ..... [2] (12)
   IF CLOSED, specify year closed ..... 19[ ] (13-14)
4. Year first used for process waste from this facility ..... 19[71] (15-16)
5. Year last used for process waste from this facility (enter "79" if still in use) ..... 19[79] (17-18)
6. Total amount of process waste from this facility disposed at site:
   thousand gallons ..... [ ] (19-26)
   hundred tons ..... [6] (27-33)
   thousand cubic yards ..... [ ] (34-41)
7. Specify type(s) of disposal method(s) used at site and whether method is still in use (1=currently in use; 2=no longer in use; 3=never used; 9=don't know)
   landfill, some industrial waste ..... [9] (42)
   landfill, mixed industrial waste ..... [1] (43)
   landfill, drummed waste ..... [9] (44)
   landfill, municipal refuse co-disposed ... [9] (45)
   pits/ponds/lagoons ..... [9] (46)
   deep well injection ..... [3] (47)
   land farming ..... [3] (48)
   incineration ..... [9] (49)
   treatment (eg. neutralizing)..... [9] (50)
   reprocessing/recycling ..... [9] (51)
   other (specify) ..... [9] (52)
8. Users of this site (1=this facility; 2=this facility and other company facilities only; 3=this company and others; 9=don't know) ..... [3] (53)

LIST NAMES AND ADDRESSES OF OTHER KNOWN USERS BELOW

FORM 3 CONTINUED ON SECOND PAGE

[1] (80)

FORM 5 - PA

(DO NOT USE) (1-8)

Company Name: ALLIED CHEMICAL CORPORATION

Facility Name: FRANKFORD PLANT

Site Name: G.R.O.W.S. LANDFILL

9. Components (or characteristics) of process waste from this facility disposed at site: (1=present in waste; 2=not present in waste; 9=don't know)

FILL IN EVERY BLOCK SPACE

Acid solutions, with pH<3	2	(10)
pickling liquor	2	(11)
metal plating waste	2	(12)
circuit etchings	2	(13)
inorganic acid manufacture	2	(14)
organic acid manufacture	2	(15)
Base solutions, with pH>10	2	(16)
caustic soda manufacture	2	(17)
nylon and similar polymer generation	2	(18)
scrubber residual	2	(19)
Heavy metals & trace metals (bonded organically & inorganically)	1	(20)
arsenic, selenium, antimony	2	(21)
mercury	2	(22)
iron, manganese, magnesium	1	(23)
zinc, cadmium, copper, chromium (trivalent)	1	(24)
chromium (hexavalent)	1	(25)
lead	9	(26)
Radioactive residues, >5 pico curies/liter	2	(27)
uranium residuals & residuals for UF_6 recycling	2	(28)
lathanide series elements and rare earth salts	2	(29)
phosphate slag	2	(30)
thorium	2	(31)
radium	2	(32)
other alpha, beta & gamma emitters	2	(33)
Organics	1	(34)
pesticides & intermediates	2	(35)
herbicides & intermediates	2	(36)
fungicides & intermediates	2	(37)
rodenticides & intermediates	2	(38)
halogenated aliphatics	2	(39)
halogenated aromatics	2	(40)
acrylates & latex emulsions	2	(41)
PCB/PBB's	2	(42)
amides, amines, imides	2	(43)
plastizers	2	(44)
resins	2	(45)
elastomers	2	(46)
solvents polar (except water)	2	(47)
carbontetrachloride	2	(48)
trichloroethylene	2	(49)
other solvents nonpolar	2	(50)
solvents halogenated aliphatic	2	(51)
solvents halogenated aromatic	2	(52)
oils and oil sludges	2	(53)
esters and ethers	2	(54)
alcohols	2	(55)
ketones & aldehydes	2	(56)
dioxins	2	(57)
Inorganics	2	(58)
salts	2	(59)
mercaptans	2	(60)
Misc.	1	(61)
pharmaceutical wastes	2	(62)
paints & pigments	2	(63)
catalysts (eg. vanadium, platinum, palladium)	2	(64)
asbestos	1	(65)
shock sensitive wastes (eg. nitrated toluenes)	2	(66)
air water reactive wastes (eg. P_4, aluminum chloride)	2	(67)
wastes with flash point below 100° F	2	(68)

FORM B: DISPOSAL SITE INFORMATION

(DO NOT USE) (1-8)

COMPLETE THIS FORM FOR EVERY SITE (INCLUDING THE LOCATION OF THIS FACILITY AS ONE SITE) USED FOR THE DISPOSAL OF PROCESS WASTES GENERATED BY THIS FACILITY SINCE 1950.

Company Name: ALLIED CHEMICAL CORPORATION
Facility Name: FRANKFORD PLANT
Name of Site: NEMCO CHEMICAL WASTE SYSTEMS
Address of Site: 4626 ROYAL AVE
no. street

NIAGARA FALLS, NY 14303
city state zip code

Name of Owner (while used by facility): NEMCO CHEMICAL WASTE SYSTEMS, Inc.
Address: 5647 NORTH 56th STREET
no. street

NIAGARA FALLS, NY 14303
city state zip code

Current Owner (if different from above):
Address:
no. street

city state zip code

1. Location (1= the property on which facility is located; 2= off-site) 2 (10)
2. Ownership at time of use (1= company ownership; 2=private but not company ownership) 3=public ownership) 2 (11)
3. Current status (1= closed; 2= still in use; 9=don't know) 2 (12)
   IF CLOSED, specify year closed ..... 19__ (13-14)
4. Year first used for process waste from this facility 19 71 (15-16)
5. Year last used for process waste from this facility (enter "79" if still in use) 19 79 (17-18)
6. Total amount of process waste from this facility disposed at site:
   thousand gallons ..... (19-26)
   hundred tons ..... (27-33)
   thousand cubic yards ..... (34-41)
7. Specify type(s) of disposal method(s) used at site and whether method is still in use (1=currently in use; 2=no longer in use; 3=never used; 9=don't know)
   landfill, mono industrial waste 9 (42)
   landfill, mixed industrial waste 1 (43)
   landfill, drummed waste 1 (44)
   landfill, municipal refuse co-disposed ... 9 (45)
   pits/ponds/lagoons 9 (46)
   deep well injection 9 (47)
   land farming 9 (48)
   incineration 9 (49)
   treatment (eg. neutralizing) 9 (50)
   reprocessing/recycling 9 (51)
   other (specify) 9 (52)
8. Users of this site (1=this facility; 2=this facility and other company facilities only; 3=this company and others; 9=don't know) 9 (53)

LIST NAMES AND ADDRESSES OF OTHER KNOWN USERS BELOW

FORM B CONTINUED ON SECOND PAGE

FORM 8 - Page 2

| | | | | | | | | (1-8)
(DO NOT USE)

Company Name: ALLIED CHEMICAL CORPORATION

Facility Name: FRANKFORD PLANT

Site Name: NEWCO CHEMICAL WASTE SYSTEMS

9. Components (or characteristics) of process waste from this facility disposed at site: (1=present in waste; 2=not present in waste; 9=don't know)

FILL IN EVERY BLOCK SPACE

Acid solutions, with pH<3	2	(10)
pickling liquor	2	(11)
metal plating waste	2	(12)
circuit etchings	2	(13)
inorganic acid manufacture	2	(14)
organic acid manufacture	2	(15)
Base solutions, with pH>10	2	(16)
caustic soda manufacture	2	(17)
nylon and similar polymer generation	2	(18)
scrubber residual	2	(19)
Heavy metals & trace metals (bonded organically & inorganically)	1	(20)
arsenic, selenium, antimony	2	(21)
mercury	2	(22)
iron, manganese, magnesium	1	(23)
zinc, cadmium, copper, chromium (trivalent)	2	(24)
chromium (hexavalent)	2	(25)
lead	2	(26)
Radioactive residues, >5 pico curies/liter	2	(27)
uranium residuals & residuals for UF_6 recycling	2	(28)
lathanide series elements and rare earth salts	2	(29)
phosphate slag	2	(30)
thorium	2	(31)
radium	2	(32)
other alpha, beta & gamma emitters	2	(33)
Organics	1	(34)
pesticides & intermediates	2	(35)
herbicides & intermediates	2	(36)
fungicides & intermediates	2	(37)
rodenticides & intermediates	2	(38)
halogenated aliphatics	2	(39)
halogenated aromatics	2	(40)
acrylates & latex emulsions	2	(41)
PCB/PBB's	1	(42)
amides, amines, imides	1	(43)
plastizers	2	(44)
resins	1	(45)
elastomers	2	(46)
solvents polar (except water)	1	(47)
carbontetrachloride	2	(48)
trichloroethylene	2	(49)
other solvents nonpolar	2	(50)
solvents halogenated aliphatic	2	(51)
solvents halogenated aromatic	2	(52)
oils and oil sludges	1	(53)
esters and ethers	2	(54)
alcohols	2	(55)
ketones & aldehydes	1	(56)
dioxins	2	(57)
Inorganics	2	(58)
salts	2	(59)
mercaptans	2	(60)
Misc.	2	(61)
pharmaceutical wastes	2	(62)
paints & pigments	2	(63)
catalysts (eg. vanadium, platinum, palladium)	2	(64)
asbestos	2	(65)
shock sensitive wastes (eg. nitrated toluenes)	2	(66)
air water reactive wastes (eg. P_4, aluminum chloride)	2	(67)
wastes with flash point below 100° F	2	(68)

FORM C: HAULER INFORMATION

(DO NOT USE) (1-5)

PROVIDE A COMPLETE LIST OF ALL FIRMS AND INDEPENDENT CONTRACTORS, INCLUDING THE COMPANY AND ITS AFFILIATES AND SUBSIDIARIES, USED TO REMOVE PROCESS WASTES FROM THIS FACILITY SINCE 1950.

Company Name: ALLIED CHEMICAL CORPORATION

Facility Name: FRANKFORD PLANT

Name of Firm or Contractor	Address	ICC # (If Known)	Years Used
QUICKWAY TRASH REMOVAL CO.	3900 SOUTH ORTHODOX ST Philadelphia, PA 19137	-	1950 (Estimated) - PRESENT
MATLACK, INC.	10 WEST BALTIMORE AVE. LANSDOWNE, PA 19050	-	1963 (ESTIMATED) - PRESENT
LORBER TRUCKING	1140 MILITARY ROAD BUFFALO, NY 14217	-	1979
KT TRUCKING	29 PLEASANT VALLEY ROAD WHIPPANY, NJ	-	1978 - 1979
D & J TRUCKING	107 - 7th NORTH ST. LIVERPOOL, NY 13088	-	1979
MOBIL HYDRO HYDRAULICS, INC.	SPRING MILL ROAD DEVAULT, PA 19432	-	1976
SCHIADO			1950 - 1952
ARMSTRONG (FORMERLY) MOBIL DREDGING (PRESENTLY)	ARAMINGO AND CASTOR AVE. PHILADELPHIA, PA 19137		1973 - 1975

FORM 01 SUP [illegible] INFORMATION

COMPLETE THIS FORM FOR EACH FIRM OR INDEPENDENT CONTRACTOR (INCLUDING YOUR OWN COMPANY, ITS AFFILIATES & SUBSIDIARIES) WHO REMOVED PROCESS WASTE FROM THIS FACILITY SINCE 1950 AND TOOK IT TO AN UNKNOWN LOCATION

(DO NOT USE) (1-8)

Company Name: ALLIED CHEMICAL CORPORATION
Facility Name: FRANKFORD PLANT
Name of Hauling Firm/Contractor: ARMSTRONG- PRESENTLY KNOWN AS MOBIL DREDGING, CO.
Address: (no.) (street) ARAMINGO AND CASTOR AVE.
(city) PHILADELPHIA (state) PA (zip code) 19137

1. Year first used 19 7 3 (10-11)
2. Year last used (enter "79" if still in use) 19 7 5 (12-13)
3. Total amount of process waste hauled from this facility:
   thousand gallons ..... (14-21)
   hundred tons 4 (22-28)
   thousand cubic yards ..... (29-36)
4. Components (or characteristics) of process waste from this facility disposed at site: (1=present in waste; 2=not present in waste; 9=don't know):
   FILL IN EVERY BLOCK SPACE

Acid solutions, with pH<3	9	(37)
pickling liquor	2	(38)
metal plating waste	2	(39)
circuit etchings	2	(40)
inorganic acid manufacture	2	(41)
organic acid manufacture	1	(42)
Base solutions, with pH>10	2	(43)
caustic soda manufacture	2	(44)
nylon and similar polymer generation	2	(45)
scrubber residual	2	(46)
Heavy metals & trace metals (bonded organically & inorganically)	2	(47)
arsenic, selenium, antimony	2	(48)
mercury	2	(49)
iron, manganese, magnesium	2	(50)
zinc, cadmium, copper, chromium (trivalent)	2	(51)
chromium (hexavalent)	2	(52)
lead	2	(53)
Radioactive residues, >3 pico curies/liter	2	(54)
uranium residuals & residuals for UF_6 recycling	2	(55)
lathanide series elements and rare earth salts	2	(56)
phosphate slag	2	(57)
thorium	2	(58)
radium	2	(59)
other alpha, beta & gamma emitters	2	(60)
Organics	1	(61)
pesticides & intermediates	2	(62)
herbicides & intermediates	2	(63)
fungicides & intermediates	2	(64)
rodenticides & intermediates	2	(65)
halogenated aliphatics	2	(66)
halogenated aromatics	2	(67)
acrylates & latex emulsions	2	(68)
PCB/PBB's	2	(69)
amides, amines, imides	2	(70)
plastizers	2	(71)
resins	2	(72)
elastomers	2	(73)
solvents polar (except water)	1	(74)
carbontetrachloride	2	(75)
trichloroethylene	2	(76)
other solvents nonpolar	2	(77)
solvents halogenated aliphatic	2	(78)
solvents halogenated aromatic	2	(79) 1 (80)
oils and oil sludges	1	(10)
esters and ethers	2	(11)
alcohols	2	(12)
ketones & aldehydes	1	(13)
dioxins	2	(14)
Inorganics	2	(15)
salts	2	(16)
mercaptans	2	(17)
Misc.	2	(18)
pharmaceutical wastes	2	(19)
paints & pigments	2	(20)
catalysts (eg. vanadium, platinum, palladium)	2	(21)
asbestos	2	(22)
shock sensitive wastes (eg. nitrated toluenes)	2	(23)
air water reactive wastes (eg. P_4, aluminum chloride)	2	(24)
wastes with flash point below 100° F	2	(25) 2 (80)

HAZARDOUS WASTE DISPOSAL SURVEY

- Facility FRANKFORD PLANT
- Description of Hazardous Waste IRON - CHROMIUM HYDROXIDE SLUDGE
- Average Amount Disposed of Per Year 53,000 gallons
- Is this waste presently disposed of on site? NO
- If Yes, where?
- How? (including any treatment or subsequent corrective measure)
- If not presently disposed of on site, was this previously done? NO
- If yes, where? when?

  Total amount previously disposed of on site
- How? (including any treatment or subsequent corrective measures)
- Is this waste presently disposed of off-site? YES
- If yes, where? GROWS LANDFILL Morrisville, PA.
- Have we determined this off-site facility has appropriate permits and/or regulatory Agency approvals? YES
- Have we obtained copies of such permits and/or approvals? YES
- Have we inspected the facility? YES
- If yes, when? 1977 by whom? L.A. Mattioli
- Was this waste previously disposed of off-site? (at a location other than that presently used) NO
- If yes, where?
- For how long was this previous off-site disposal used? N/A

  Approximately how much of this waste was disposed of in this previously used off-site facility? N/A

Are there any presently known indications that ground water or surface storm water run-off may be affected by our present or past disposal of this waste? YES

Cr^{+3} soluble in H_2O

HAZARDOUS WASTE DISPOSAL SURVEY

- Facility FRANKFORD PLANT
- Description of Hazardous Waste Spent Filter Elements Containing Cumene and Cumene Hydroperoxide (CHP), and Phenol
- Average Amount Disposed of Per Year 8400 elements
- Is this waste presently disposed of on site? No
- If Yes, where? Stored in 17H Drums in a hazardous waste stg area
- How? (including any treatment or subsequent corrective measure) Plant is studying methods to remove the CHP so that material can be transported to DISPOSAL SITE.
- If not presently disposed of on site, was this previously done? NO
- If yes, where? _____ when? _____

Total amount previously disposed of on site _____

- How? (including any treatment or subsequent corrective measures) _____

- Is this waste presently disposed of off-site? NO
- If yes, where? _____
- Have we determined this off-site facility has appropriate permits and/or regulatory Agency approvals? _____
- Have we obtained copies of such permits and/or approvals? _____
- Have we inspected the facility? _____
- If yes, when? _____ by whom? _____
- Was this waste previously disposed of off-site? (at a location other than that presently used) YES
- If yes, where? Sanitary Landfill in Cinnaminson, NJ, Philadelphia, PA. & Possibly other unknown locations.
- For how long was this previous off-site disposal used? 1954 - 1978

Approximately how much of this waste was disposed of in this previously used off-site facility? ?

Are there any presently known indications that ground water or surface storm water run-off may be affected by our present or past disposal of this waste? YES

[illegible] possible problem CHP decomposed to phenol. Elutriation

HAZARDOUS WASTE DISPOSAL SURVEY

- Facility Frankford Plant
- Description of Hazardous Waste Spent Foundry Catalyst
- Average Amount Disposed of Per Year 2 cubic yards
- Is this waste presently disposed of on site? NO
- If Yes, where?
- How? (including any treatment or subsequent corrective measure)
- If not presently disposed of on site, was this previously done? NO
- If yes, where? when?
  Total amount previously disposed of on site
- How? (including any treatment or subsequent corrective measures)
- Is this waste presently disposed of off-site? YES
- If yes, where? NEWCO Chemical Waste Systems Niagara Falls, N.Y.
- Have we determined this off-site facility has appropriate permits and/or regulatory Agency approvals? YES
- Have we obtained copies of such permits and/or approvals? YES
- Have we inspected the facility? YES
- If yes, when? ? by whom? Corp. Env. Services
- Was this waste previously disposed of off-site? (at a location other than that presently used) YES
- If yes, where? Sanitary Landfill in Cinnaminson, N.J. Philadelphia, Pa. & Possibly other unknown Locations
  For how long was this previous off-site disposal used? 1958 - 1978
  Approximately how much of this waste was disposed of in this previously used off-site facility? ?

Are there any presently known indications that ground water or surface storm water run-off may be affected by our present or past disposal of this waste? YES
Phenol elutriation.

HAZARDOUS WASTE DISPOSAL SURVEY

- Facility Frankford Plant
- Description of Hazardous Waste Tank Cleaning Solids
- Average Amount Disposed of Per Year 25 cubic yards
- Is this waste presently disposed of on site? NO
- If Yes, where?
- How? (including any treatment or subsequent corrective measure)
- If not presently disposed of on site, was this previously done? YES
- If yes, where? North + South of BLDG 8934 when? 1976 and earlier
- Total amount previously disposed of on site ?
- How? (including any treatment or subsequent corrective measures) Underground burial
- Is this waste presently disposed of off-site? YES
- If yes, where? NEWCO Chemical Waste Systems Niagara Falls, NY
- Have we determined this off-site facility has appropriate permits and/or regulatory Agency approvals? YES
- Have we obtained copies of such permits and/or approvals? YES
- Have we inspected the facility? YES
- If yes, when? ? by whom? Corp Env Services
- Was this waste previously disposed of off-site? (at a location other than that presently used) YES
- If yes, where? Sanitary Landfill in Cinnaminson, N.J., Philadelphia, Pa. & possibly other unknown locations.
- For how long was this previous off-site disposal used? 1955 To 10/77
- Approximately how much of this waste was disposed of in this previously used off-site facility? ?

Are there any presently known indications that ground water or surface storm water run-off may be affected by our present or past disposal of this waste? YES
Phenol Elutriation

HAZARDOUS WASTE DISPOSAL SURVEY

- Facility Frankford Plant
- Description of Hazardous Waste Process and Laboratory Bottles
- Average Amount Disposed of Per Year 146,000 bottles
- Is this waste presently disposed of on site? NO
- If Yes, where?
- How? (including any treatment or subsequent corrective measure)
- If not presently disposed of on site, was this previously done? NO
- If yes, where? when?
- Total amount previously disposed of on site
  How? (including any treatment or subsequent corrective measures)
- Is this waste presently disposed of off-site? YES
- If yes, where? Sanitary Landfill in Cinnaminson, NJ, Philadelphia, Pa. & possibly other unknown locations.
- Have we determined this off-site facility has appropriate permits and/or regulatory Agency approvals? NO
- Have we obtained copies of such permits and/or approvals? NO
- Have we inspected the facility? NO
- If yes, when? by whom?
  PLANT will wash bottles before disposal.
- Was this waste previously disposed of off-site? (at a location other than that presently used) N/A
- If yes, where?

For how long was this previous off-site disposal used? 1954 to Present
Approximately how much of this waste was disposed of in this previously used off-site facility? ?

Are there any presently known indications that ground water or surface storm water run-off may be affected by our present or past disposal of this waste? ?

HAZARDOUS WASTE DISPOSAL SURVEY

- Facility FRANKFORD PLANT
- Description of Hazardous Waste OIL/WATER SEPARATOR SLUDGE
- Average Amount Disposed of Per Year 10 cubic yards
- Is this waste presently disposed of on site? NO
- If Yes, where?
- How? (including any treatment or subsequent corrective measure)
- If not presently disposed of on site, was this previously done? NO
- If yes, where? when?

  Total amount previously disposed of on site
- How? (including any treatment or subsequent corrective measures)
- Is this waste presently disposed of off-site? YES
- If yes, where? We plan to incinerate this material at CANNON ENGINEERING IN BRIDGEWATER, MASS.
- Have we determined this off-site facility has appropriate permits and/or regulatory Agency approvals? Application now pending
- Have we obtained copies of such permits and/or approvals? SEE Above
- Have we inspected the facility? ?
- If yes, when? by whom?
- Was this waste previously disposed of off-site? (at a location other than that presently used) YES
- If yes, where? HAWTHORNE LANDFILL IN Philadelphia, Pa.

For how long was this previous off-site disposal used? 1957 to 1973

Approximately how much of this waste was disposed of in this previously used off-site facility? ?

Are there any presently known indications that ground water or surface storm water run-off may be affected by our present or past disposal of this waste? NO

HAZARDOUS WASTE DISPOSAL SURVEY

- Facility FRANKFORD PLANT
- Description of Hazardous Waste Spent Ion Exchange Resin
- Average Amount Disposed of Per Year 54 drums
- Is this waste presently disposed of on site? NO
- If Yes, where?
- How? (including any treatment or subsequent corrective measure)
- If not presently disposed of on site, was this previously done? NO
- If yes, where? when?
- Total amount previously disposed of on site
  How? (including any treatment or subsequent corrective measures)
- Is this waste presently disposed of off-site? YES
- If yes, where? NENCO Chemical Waste Systems Niagara Falls, NY
- Have we determined this off-site facility has appropriate permits and/or regulatory Agency approvals? YES
- Have we obtained copies of such permits and/or approvals? YES
- Have we inspected the facility? YES
- If yes, when? ? by whom? Corp Env. Services
- Was this waste previously disposed of off-site? (at a location other than that presently used) YES
- If yes, where? Sanitary Land Fill in Cinnaminson, NJ Philadelphia, Pa. & possibly other unknown locations.
- For how long was this previous off-site disposal used? 1954 to 1977
- Approximately how much of this waste was disposed of in this previously used off-site facility? ?

Are there any presently known indications that ground water or surface storm water run-off may be affected by our present or past disposal of this waste? YES

If yes, describe potential problem. Phenol Elutriation

HAZARDOUS WASTE DISPOSAL SURVEY

- Facility Frankford Plant
- Description of Hazardous Waste Spill Clean-up Materials (phenolic, fuel oil, cumene)
- Average Amount Disposed of Per Year 100 drums
- Is this waste presently disposed of on site? NO
- If Yes, where? Phenol Sumps
- How? (including any treatment or subsequent corrective measure)
- If not presently disposed of on site, was this previously done? YES
- If yes, where? Phenol Sumps when? 1955 - 1978
- Total amount previously disposed of on site 100 cubic yards
  How? (including any treatment or subsequent corrective measures) Material was washed into phenol sumps which are connected to our phenolic sewer system.
- Is this waste presently disposed of off-site? YES
- If yes, where? NEWCO Chemical Waste Systems Niagara Falls, NY
- Have we determined this off-site facility has appropriate permits and/or regulatory Agency approvals? YES
- Have we obtained copies of such permits and/or approvals? YES
- Have we inspected the facility? YES
- If yes, when? ? by whom? Corp. Env. Services
- Was this waste previously disposed of off-site? (at a location other than that presently used) YES
- If yes, where? Sanitary Landfill in Cinnaminson, NY, Philadelphia, Pa. & possibly other unknown locations.
  For how long was this previous off-site disposal used? 1950 to 10/77
  Approximately how much of this waste was disposed of in this previously used off-site facility? ?

Are there any presently known indications that ground water or surface storm water run-off may be affected by our present or past disposal of this waste? YES
Phenol Elutriation

HAZARDOUS WASTE DISPOSAL SURVEY

- Facility Frankford Plant
- Description of Hazardous Waste Maintenance Department Wastes (hydraulic cutting oil waste, latex sludge, waste solvent sludge, alkaline cleaner waste, waste paint, varnish remover)
- Average Amount Disposed of Per Year UNKNOWN
- Is this waste presently disposed of on site? NO
- If Yes, where?
- How? (including any treatment or subsequent corrective measure)
- If not presently disposed of on site, was this previously done? NO
- If yes, where? when?
- Total amount previously disposed of on site
  How? (including any treatment or subsequent corrective measures)
- Is this waste presently disposed of off-site? YES
- If yes, where? Sanitary Land Fill in Cinnaminson, N.J., Philadelphia, Pa. & possibly other UNKNOWN locations.
- Have we determined this off-site facility has appropriate permits and/or regulatory Agency approvals? NO
- Have we obtained copies of such permits and/or approvals? NO
- Have we inspected the facility? NO
- If yes, when? by whom?
- Was this waste previously disposed of off-site? (at a location other than that presently used) YES
- If yes, where? As above
- For how long was this previous off-site disposal used? 1954 to 1978
  Approximately how much of this waste was disposed of in this previously used off-site facility? UNKNOWN

Are there any presently known indications that ground water or surface storm water run-off may be affected by our present or past disposal of this waste? NO

HAZARDOUS WASTE DISPOSAL SURVEY

- Facility Frankford Plant
- Description of Hazardous Waste Napthalene Sludge
- Average Amount Disposed of Per Year 10 cubic yards - one time
- Is this waste presently disposed of on site? NO
- If Yes, where?
- How? (including any treatment or subsequent corrective measure)
- If not presently disposed of on site, was this previously done? NO
- If yes, where? when?

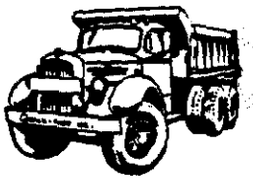
  Total amount previously disposed of on site

  How? (including any treatment or subsequent corrective measures)
- Is this waste presently disposed of off-site? NO
- If yes, where?
- Have we determined this off-site facility has appropriate permits and/or regulatory Agency approvals?
- Have we obtained copies of such permits and/or approvals?
- Have we inspected the facility?
- If yes, when? by whom?
- Was this waste previously disposed of off-site? (at a location other than that presently used) YES
- If yes, where? Grows Landfill Morrisville, ~~NJ~~ PA
- For how long was this previous off-site disposal used? one time disposal - 1978

  Approximately how much of this waste was disposed of in this previously used off-site facility? 10 cubic yards

Are there any presently known indications that ground water or surface storm water run-off may be affected by our present or past disposal of this waste? NO

READY • WILLING • ABLE



Quick-way inc.

S. E. CORNER BATH & ORTHODOX STREETS • PHILADELPHIA, PA. 19137 • PIONEER 3-2507

51597
55H

November 25, 1975

Allied Chemical Company
Plastics Division
Margaret & Bermuda Streets
Philadelphia, Penna. 19137

Attn: Mr. J. Maracani
Purchasing Department

Sir:

Here is our proposal in reference to your inquiry No. 76-46.

A. 5 and 10 yard Containers.
$42.40 each Monday thru Friday 7 AM to 5:30 PM.

B. Saturday service or call back after 5:30 PM or before 7 AM Monday thru Friday. Hourly rate of 1½ time with (4) four hour minimum. Or minimum of 4 containers removed with added cost of $5.50 to each container.

C. Sunday or Holiday - Minimum of 8 hours at premium rate. Or minimum of (4) four containers removed with added cost of $18.00 to each container.

These rates are based on disposal in New Jersey. If their are any changes in cost caused by Federal, State or Local Laws they will be added to the removal cost.

Very truly yours,

Al Hawthorne
Operational Executive

AH/mc

3650/5 & 10 yd
containers

RUBBISH REMOVED ON A CONTAINER, LOAD
MONTHLY OR CONTRACT BASIS

TRUCKS ETC. FOR HIRE

ALLIED CHEMICAL CORPORATION

Corporation

ATTACHMENT B

PURCHASE ORDER

AT P.O. BOX 70, MORRISTOWN, NEW JERSEY

SHIPPING SCHEDULE	DATE PROMISED	DATE REQUIRED	DATE OF ORDER	TERMS	NUMBER
			1/27/65	NET 15 DAYS	CPM- 31563

F.O.B. & FREIGHT: Freight Both Ways

CHANGE NUMBER:

SELLER:
Galaxy Chemicals, Incorporated
Rt. 5 Providence
Elkton, Maryland
Attn: Mr. Paul J. Mraz

SHIP TO US AT:
Plastics Division
Allied Chemical Corporation
Margaret & Bermuda Streets
Philadelphia 37, Pennsylvania

INSTRUCTIONS
IMPORTANT - SEND NUMBER OF COPIES INDICATED TO ADDRESS CHECKED OR INSERTED. IMPROPERLY ADDRESSED PAPERS MAY BE RETURNED FOR CORRECTION.

TO:	ACKNOWL. COPIES	SHIP. NOT.	B/L	INV.	CORR
ABOVE ADDRESS					
40 RECTOR ST., N. Y. 6, N. Y.				2	
"SHIP TO US AT" ADDRESS					

SHIP VIA & ROUTING:

REQUISITION NUMBER: PTD-2510

ITEM	QUANTITY ORDERED	DESCRIPTION	PRICE	
		GALAXY CHEMICALS, INC. WILL:		
		1. Recover and ship to Union Carbide's plant in South Charleston, West Virginia, the methyl "Cellosolve" fraction from and contained in Plastics Division's crude Solvent "G" mixture at a cost including transportation from Philadelphia to Providence, Maryland of.....	$ 0.065	LB.
		and freight to South Charleston, West Virginia at.....	0.011	LB.
		(Approx. 200,000 gals. Solvent "G" Mixture)		
		2. Recover and return to Plastics Division's Frankford Plant the xylene fraction from and contained in Plastics Division's crude "N" Solvent mixture at a cost of, including freight both ways.....	0.13	GAL.
		(Approx. 220,000 gals. Solvent "N" mixture)		
		3. Purchase the combined Teritary Butyl Alcohol and Methylethyl Ketone content of Plastics Division's crude Solvent		

THIS ORDER IS SUBJECT TO TERMS ON FACE AND REVERSE HEREOF AND PAGES, IF ANY, ATTACHED.

BY E. J. Etchells
AUTHORIZED SIGNATURE

PAGE 1 OF 2

ITEM	DIV. OR CO.	CONTROL MAJOR	CENTER MINOR	COST CENTER	ACCOUNT	JOB, PROD., R/M CODE

INCLUDE PACKING LIST WITH SHIPMENT UNLESS OTHERWISE INSTRUCTED.

SHOW REQUISITION AND PURCHASE ORDER NUMBER ON ALL SHIPPING PAPERS, PACKAGES AND INVOICES.

008637

Corporation

AT

PURCHASE ORD

NUMBER CDM 31563

CHANGE N

ITEM	QUANT'Y ORDERED		DESCRIPTION	PRICE	
			"N" mixture at a price of, including freight.....	$ 0.0125	LB.
			All of the above in accordance with the attached agreement and Galaxy Chemicals, Inc's quotations dated 6/29/64 and 9/3/64.		
			Plastics Division will furnish to Galaxy Chemicals, Inc. the net weight and analyses of crude solvent mixtures (noted above), specifying the quantities of methyl "Cellosolve", Xylene, Teriary Butyl Alcohol, and Methylethyl Ketone contained therein.		
			For average compositions of Solvents "G" and Solvent "N" mixtures, see attachment.		

008638

C-371-9 PT.

ALLIED CHEMICAL CORPORATION

Corporation

AT P.O. BOX 70, MORRISTOWN, NEW JERSEY

PURCHASE ORDER

NUMBER CPM-31563

DATE PROMISED	DATE REQUIRED	DATE OF ORDER	TERMS
		1/27/65	NET 15 DAYS

CHANGE NUMBER

FREIGHT

Freight Both Ways

Galaxy Chemicals, Incorporated
Rt. 5 Providence
Elkton, Maryland
Attn: Mr. Paul J. Mraz

Plastics Division
Allied Chemical Corporation
Margaret & Bermuda Streets
Philadelphia 37, Pennsylvania

INSTRUCTIONS

IMPORTANT - SEND NUMBER OF COPIES INDICATED TO ADDRESS CHECKED OR INSERTED. IMPROPERLY ADDRESSED PAPERS MAY BE RETURNED FOR CORRECTION.

TO

ABOVE ADDRESS

40 RECTOR ST., N. Y. 6, N. Y.

"SHIP TO US-AT" ADDRESS

REQUISITION NUMBER PTD-2510

VIA & ROUTING

QUANTITY ORDERED		DESCRIPTION	PRICE	
		GALAXY CHEMICALS, INC. WILL:		
	1.	Recover and ship to Union Carbide's plant in South Charleston, West Virginia the methyl "Cellosolve" fraction from and contained in Plastics Division's crude Solvent "G" mixture at a cost including transportation from Philadelphia to Providence, Maryland of.....	$ 0.065	LB.
		and freight to South Charleston, West Virginia at..... (Approx. 200,000 gals. Solvent "G" Mixture)	0.011	LB.
	2.	Recover and return to Plastics Division's Frankford Plant the xylene fraction from and contained in Plastics Division's crude "N" Solvent mixture at a cost of, including freight both ways..... (Approx. 220,000 Gals. Solvent "N" mixture)	0.13	GAL.
	3.	Purchase the combined Teritary Butyl Alcohol and Methylethyl Ketone content of Plastics Division's crude Solvent		

BY E. J. Etchells
AUTHORIZED SIGNATURE

PAGE 1 OF 2

THIS ORDER IS SUBJECT TO TERMS ON FACE AND REVERSE HEREOF AND PAGES, IF ANY, ATTACHED.

M	DIV. OR CO.	CONTROL CENTER MAJOR	CONTROL CENTER MINOR	COST CENTER	ACCOUNT	JOB, PROD., R/M CODE

INCLUDE PACKING LIST WITH SHIPMENT UNLESS OTHERWISE INSTRUCTED.

SHOW REQUISITION AND PURCHASE ORDER NUMBER ON ALL SHIPPING PAPERS, PACKAGES AND INVOICES.

DEPOSITION EXHIBIT #413 -27-85

008637

01441

Allied Chemical Corporation

AT

CONTINUATION SI
PURCHASE OF

NUMBER CPM 31563

ITEM	QUANTITY ORDERED		DESCRIPTION	PRICE	
			"N" mixture at a price of, including freight	$ 0.0125	LB
			All of the above in accordance with the attached agreement and Galaxy Chemicals, Inc.'s quotations dated 5/29/64 and [illegible]		
			Plastics Division will furnish to Galaxy Chemicals, Inc. the net weight and analyses of crude solvent mixtures (noted above), specifying the quantities of methyl "Cellosolve", Xylene, Tertiary Rutyl Alcohol, and Methylethyl Ketone contained therein.		
			For average compositions of Solvent "G" and Solvent "N" mixtures, see attachment.		

008638

01441

ALLIED CHEMICAL CORPORATION

ATTACHMENT C

Corporation

PLASTICS DIVISION

PURCHASE ORDER

AT P.O. BOX 70, MORRISTOWN, NEW JERSEY

SHIPPING SCHEDULE	DATE PROMISED	DATE REQUIRED	DATE OF ORDER	TERMS	NUMBER
			2/17/65	—	CPM- 31563

F.O.B. & FREIGHT —

CHANGE NUMBER #1

SELLER:
Galaxy Chemicals, Incorporated
Rt. 5 Providence
Elkton, Maryland
Attn: Mr. Paul J. Mraz

SHIP TO US AT:
Plastics Division
Allied Chemical Corporation
Margaret & Bermuda Streets
Philadelphia 37, Pennsylvania

INSTRUCTIONS
IMPORTANT - SEND NUMBER OF COPIES INDICATED TO ADDRESS CHECKED OR INSERTED. IMPROPERLY ADDRESSED PAPERS MUST BE RETURNED FOR CORRECTION.

TO:	ACKNOWL. COPIES	SHIP NOT.	B/L	INV.
ABOVE ADDRESS				
40 RECTOR ST., N.Y. 6, N.Y.				
"SHIP TO US AT" ADDRESS				

orig. order dated Jan 27, 1965

SHIP VIA & ROUTING —

REQUISITION NUMBER PTD-2510

ITEM	QUANTITY ORDERED	DESCRIPTION	PRICE
		Refer to our order CPM-31563, dated 1/27/65 and change the following:	

FROM:

(Page 1 of 6)

Item 2. Seller will fractionate the crude Solvent "G" mixture at Seller's plant in Providence, Maryland, to recover methyl "Cellosolve" meeting the following specifications:

Water (by Karl Fisher)	0.2%
Color, Pt-Co	10 max.
Sulfuric Acid Test	18 Pt-Co. max.
Xylene	Nondetectable
Boiling	123.5 - 125.5°C
Acidity	0.01% by wt. max. calculated as acetic acid
Specific Gravity 20//20°C	0.964 - 0.967

Product is to be neutral (free of Ammonia), water white, and stable.

Determinations will be made in accordance with Union Carbide's published methods of analysis

THIS ORDER IS SUBJECT TO TERMS ON FACE AND REVERSE HEREOF AND PAGES, IF ANY, ATTACHED.

BY E. J. Etchells
AUTHORIZED SIGNATURE
E. J. Etchells

PAGE 1 OF 2

DIV. OR CO.	CONTROL CENTER MAJOR	MINOR	COST CENTER	ACCOUNT	JOB, PROD., R/M CODE

INCLUDE PACKING LIST WITH SHIPMENT UNLESS OTHERWISE INSTRUCTED.

SHOW REQUISITION AND PURCHASE ORDER NUMBER ON ALL SHIPPING PAPERS, PACKAGES AND INVOICES.

DEPOSITION EXHIBIT #414 Mraz 3-27-85

008635

01442

Corporation

AT

PURCHASE ORDER

NUMBER CPM-31563 | CHANGE NO. #I

QUANTITY ORDERED	DESCRIPTION	PRICE
To:		
page 1 of 6)		
Item 2.	Seller will fractionate the crude Solvent "G" mixture at Seller's plant in Providence, Maryland, to recover methyl "cellosolve" meeting the following specifications:	
	Water (by Karl Fisher) 0.1% max.	
	Color, Pt-Co. 10 max.	
	Sulfuric Acid Test 18 Pt-Co. max.	
	Xylene Nondetectable	
	Boiling 123.5 - 125.5°C	
	Acidity 0.01% by wt. max. calculated as acetic acid	
	Specific Gravity 20//20°C 0.964 - 0.967	
	Product is to be neutral (free of Ammonia), water white, and stable.	
	Determinations will be made in accordance with Union Carbide's published methods of analysis	

008636

PAGE 2 OF 2

01442

ALLIED CHEMICAL CORPORATION

Corporation

PLASTICS DIVISION

AT P.O. BOX 70, MORRISTOWN, NEW JERSEY

PURCHASE ORDER

SHIPPING SCHEDULE	DATE PROMISED	DATE REQUIRED	DATE OF ORDER	TERMS	NUMBER
			2/17/65	----	CPM- 31563

F.O.B. & FREIGHT: ---

CHANGE NUMBER: #1

jf

SELLER:
Galaxy Chemicals, Incorporated
Rt. 5 Providence
Elkton, Maryland
Attn: Mr. Paul J. Mraz

SHIP TO US AT:
Plastics Division
Allied Chemical Corporation
Margaret & Bermuda Streets
Philadelphia 37, Pennsylvania

INSTRUCTIONS
IMPORTANT - SEND NUMBER OF COPIES INDICATED TO ADDRE CHECKED OR INSERTED. IMPROPERLY ADDRESSED PAPERS M. BE RETURNED FOR CORRECTION.

TO:	ACKNOWL. COPIES	SHIP. NOT.	B/L	INV.	CO
ABOVE ADDRESS					
40 RECTOR ST., N. Y. 6, N. Y.					
"SHIP TO US AT" ADDRESS					

orig. order dated Jan 27, 1965

SHIP VIA & ROUTING: ---

REQUISITION NUMBER: PTD-2510

ITEM	QUANTITY ORDERED	DESCRIPTION	PRICE
		Refer to our order CPM-31563, dated 1/27/65 and change the following:	
		FROM:	
		(Page 1 of 6)	
		Item 2. Seller will fractionate the crude Solvent "G" mixture at Seller's plant in Providence, Maryland, to recover methyl "Cellosolve" meeting the following specifications:	
		Water (by Karl Fisher) 0.2% Color, Pt-Co 10 max. Sulfuric Acid Test 18 Pt-Co. max. Xylene Nondetectable Boiling 123.5 - 125.5°C Acidity 0.01% by wt. max. calculated as acetic acid Specific Gravity 20°/20°C 0.964 - 0.967	
		Product is to be neutral (free of Ammonia), water white, and stable.	
		Determinations will be made in accordance with Union Carbide's published methods of analysis	

THIS ORDER IS SUBJECT TO TERMS ON FACE AND REVERSE HEREOF AND PAGES, IF ANY, ATTACHED.

BY: E. J. Etchells
AUTHORIZED SIGNATURE

PAGE 1 OF 2

ITEM	DIV. OR CO.	CONTROL CENTER MAJOR	CONTROL CENTER MINOR	COST CENTER	ACCOUNT	JOB, PROD., R/M CODE

INCLUDE PACKING LIST WITH SHIPMENT UNLESS OTHERWISE INSTRUCTED.

SHOW REQUISITION AND PURCHASE ORDER NUMBER ON ALL SHIPPING PAPERS, PACKAGES AND INVOICES.

008635

Corporation

AT

PURCHASE ORDE

NUMBER CPM-31563

CHANGE NO #1

ITEM	QUANT'Y ORDERED	DESCRIPTION	PRICE

To:

(Page 1 of 6)

Item 2. Seller will fractionate the crude Solvent "G" mixture at Seller's plant in Providence, Maryland, to recover methyl "Cellosolve" meeting the following specifications:

Water (by Karl Fisher)	0.1% max.
Color, Pt-Co.	10 max.
Sulfuric Acid Test	18 Pt-Co. max.
Xylene	Nondetectable
Boiling	123.5 - 125.5°C
Acidity	0.01% by wt. max. calculated as acetic acid
Specific Gravity 20//20°C	0.964 - 0.967

Product is to be neutral (free of Ammonia), water white, and stable.

Eterminations will be made in accordance with Union Carbide's published methods of analysis

008636

G-271-13 PT.

Corporation

AT

PURCHASE ORDE

NUMBER CPM 31563

CHANGE NO

ITEM	QUANT'Y ORDERED		DESCRIPTION	PRICE
			Attachment to order CPM 31563 to Galaxy Chemicals, Inc.	
		1.	Seller will pick up the crude Solvent "G" mixture from Plastics Division's Frankford Plant and ship the recovered methyl "Cellosolve" in Seller's stainless steel tankwagon equipment to Union Carbide in South Charleston, West Virginia.	
		2.	Seller will fractionate the crude Solvent "G" mixture at Seller's plant in Providence, Maryland, to recover methyl "Cellosolve" meeting the following specifications:	

Water (by Karl Fisher)	0.2%
Color, Pt-Co	10 max.
Sulfuric Acid Test	18 Pt-Co max.
Xylene	Nondetectable
Boiling	123.5 - 125.5°C.
Acidity	0.01% by wt. max. calculated as acetic acid
Specific Gravity 20/20°C	0.964 - 0.967

Product is to be neutral (free of Ammonia), water white, and stable.

Determinations will be made in accordance with Union Carbide's published methods of analysis.

3. In the event the recovered methyl "Cellosolve" does not meet the above specifications based on Union Carbide's analysis on delivery, Seller will have the option either to:

(1) return the shipment to its Providence, Maryland plant for reprocessing at no cost to Plastics Division; or

(2) transfer the shipment to Union Carbide which in turn will reprocess at a penalty to Plastics Division, in which case said penalty of not more than $0.02# of Methyl "Cellosolve" will be back-charged to Seller.

008639

C-371-8 PT.

Allied Chemical Corporation

AT

PURCHASE ORDE

NUMBER CPM 31563 | CHANGE N

ITEM	QUANT'Y ORDERED		DESCRIPTION	PRICE
			Attachment to order CPM 31563 to Galaxy Chemicals, Inc. - cont'd.	
			(2) cont'd Extent of this penalty will be negotiated between Plastics Division and Union Carbide.	
		4.	Net weight of each shipment along with a sample and Seller's analysis will be forwarded by Seller to Plastics Division's Frankford Plant.	
		5.	Seller guarantees to recover a minimum yield of 80% of the methyl "Cellosolve" content of the crude mixture received, and will return to Frankford material balance to account for losses. In the event the recovered yield is less than 80%, Seller will either recover at no cost to Plastics Division a quantity of additional methyl "Cellosolve" equivalent to the deficiency, based on a value of $0.085 per lb. methyl "Cellosolve", or reimburse Plastics Division in cash in the event additional solvent is not available for recovery. This value is the difference between the resale value of $0.150 per lb. and Seller's cost of recovery of $0.065 per lb. (For example, if deficiency is 1,000 lbs., then value = 1000 lbs. X $0.085 = $85.00 $85.00 / $0.065 per lb. recovery cost = 1307 lbs. of methyl "Cellosolve" to be recovered by Seller at no cost to Plastics Division.	
		6.	Seller will dispose of all solid and liquid wastes resulting from the recovery operation at its sole cost and expense.	
		7.	Seller will pick up the crude Solvent "N" mixture from Plastics Division's Frankford Plant and return the recovered xylene in Seller's stainless steel tankwagon equipment at a frequency consistent with Plastics Division's returned material needs.	

008640

C-371-9 PT.

Corporation

AT

PURCHASE ORDE

NUMBER CPM 31563

CHANGE NO

ITEM	QUANT'Y ORDERED		DESCRIPTION	PRICE
			Attachment to order CPM 31563 to Galaxy Chemicals, Inc. - cont'd	
		8.	Seller will fractionate the crude Solvent "N" mixture at Seller's plant in Providence, Maryland to recover xylene meeting the following specifications:	
			Acidity — No Free Acid Sulfur Compounds — Free from H_2S and SO_2 Color, Pt-Co — 5 max. Boiling Range — 2.5°C. max. Specific gravity, 15.5°C — 0.860 - 0.870 Copper Corrosion Test — No evidence of Irridescenc Wash test — W-5 max.	
			Product will be neutral (free of ammonia), water white, and stable.	
			Determinations will be made in accordance with Plastics Division's methods of analysis.	
		9.	Seller guarantees to recover a minimum yield of 90% of the xylene content of the crude mixture received, and will return to Frankford material balance to account for losses.	
			In the event the recovered yield is less than 90%, Seller will either recover at no cost to Plastics Division a quantity of additional xylene equivalent to the deficiency, based on a value of $0.077/gal. xylene, or reimburse Plastics Division in cash in the event additional solvent is not available for recovery. This value is the difference between the resale value of $0.207/gal. and Seller's cost of recovery of $0.130/gal.	
		10.	Seller will pay Plastics Division at a rate of $0.0125/lb. of Contained Tertiary Butyl Alcohol and Methylethyl Ketone in the crude Solvent "N" mixture.	
		11.	Seller will dispose of all solid and liquid wastes resulting from the recovery operation at its sole cost and expense.	
		12.	Seller will provide 40,000 gals. reserved storage for crude solvent and 12,000 gals. reserved storage for the recovered solvent at Seller's Providence plant.	

008641

C-371-9 PT.

Corporation

AT

PURCHASE ORDE

NUMBER CPM 31563

CHANGE N

ITEM	QUANT'Y ORDERED		DESCRIPTION	PRICE
			Attachment to order CPM 31563 to Galaxy Chemicals, Inc. - cont'd	
		13.	Seller will provide insurance coverage against loss of Plastics Division's material in transit from and to the respective plants of Plastics Division and Union Carbide and while on Seller's premises. Seller will obtain by insurance to protect itself and the respective plants of Plastics Division and Union Carbide from public liability and property damage resulting from handling of Plastics Division's materials. Seller shall indemnify, exonerate and hold Plastics Division harmless from and against any and all claims whatsoever for personal injury (including death) and property damage arising in any way from or growing out of the handling and processing of these materials both in transit and at seller's plant, including without limitation, the disposal of wastes. Seller in turn will no longer be responsible for the material that is accepted as having met specifications once it is delivered to Plastics Division or Union Carbide.	
		14.	Seller will test each lot of finished material prior to shipment and supply Plastics Division with the results of seller's analysis. Seller will instruct its driver to stand by at the respective plants of Plastics Division and Union Carbide at no penalty to Plastics Division to allow for analysis of the recovered xylene and methyl "Cellosolve" prior to unloading.	
		15.	Seller will be prepared to begin processing on acceptance of this order.	
		16.	Plastics Division will have an observer present at Seller's plant in Providence to witness the recovery operation.	
			Above is in accordance with Seller's quotations dated June 29, 1964 and September 3, 1964, which are attached hereto and made a part thereof. In case of any conflict between the foregoing and said quotations, the terms and	

008642

Corporation

AT

PURCHASE ORD

NUMBER CPM 31563

CHANGE NO

ITEM	QUANT'Y ORDERED		DESCRIPTION	PRICE
			Attachment to order CPM 31563 to Galaxy Chemicals, Inc. - Cont'd	
		16.	Cont'd conditions hereof shall govern.	
		17.	Seller is to submit invoice to cover cost of recovering materials shipped to Union Carbide and Frankford Plant to Plastics Division, Allied Chemical Corporation, Margaret & Bermuda Streets, Philadelphia 37, Pennsylvania (attn: Mr. C. Stephen Smith), on or before the 10th of each month. Each invoice should be supported by: (1) Quantities received, by materials, from Frankford. (2) Quantities consumed, by materials, by Seller. (3) Quantities produced (by recoverable products). (4) Quantities shipped to Union Carbide, Frankford, or retained by Seller, by Products. (5) Quantities remaining in inventory at Seller's plant by product and/or material. Invoice is to cover shipment to Union Carbide, or to Frankford, multiplied by respective toll charge, as indicated in this order. Plastics will bill Seller for combined TBA and MEK content, after review of inventory data (approximately the 20th of each month.).	

SOLVENT "G"

CONPOSITE ANALYSIS

17.5 %	Water
68.5 %	Methyl "Cellosolve"
2.0 %	Xylene
12.0 %	Dissolved Solids
100.0%	

008643

C-871.0 PT.

Corporation

AT

PURCHASE ORDER

NUMBER CPM 31563

CHANGE NO

ITEM	QUANT'Y ORDERED		DESCRIPTION	PRICE
			Attachment to order CPM 31563 to Galaxy Chemicals, Inc. - cont'd.	
			SOLVENT "N"	
			62.5 % Xylene	
			26.9 % Tertiary Butyl Alcohol	
			3.4 % Methylethyl Ketone	
			0.8 % Water	
			6.4 % Solids	
			100.0 %	

008644

PAGE 6 OF 6

C-371-9 PT.

ATTACHMENT D

PLASTICS DIVISION

Corporation

P. O. BOX 365 • MORRISTOWN, N.J. 07960 • JEFFERSON 8-8000
COLUMBIA ROAD AND PARK AVENUE • MORRIS TOWNSHIP, N.J.

May 20, 1966

Galaxy Chemicals, Incorporated
Route 5 Providence
Elkton, Maryland

Attention: Mr. Paul G. Mraz
President

Dear Mr. Mraz:

This letter will evidence our agreement with respect to certain charges arising out of that certain contract dated January 27, 1965, between Galaxy Chemicals, Incorporated, (Galaxy) and Plastics Division, Allied Chemical Corporation, (Plastics) (Allied Chemical Purchase Order No. CPM-31563).

It is understood and agreed that Galaxy hereby releases, remises and forever discharges Plastics, its successors and assigns of and from all manner of actions, suits, debts, claims, judgments, executions and demands whatsoever, which against Plastics it ever had, now has or which it or its successors hereafter can, shall or may have for, upon or by reason of any matter, cause or thing whatsoever arising out of the storage by Galaxy of certain of crude solvent mixture, owned by Plastics, under the aforesaid contract.

It is further understood and agreed that Plastics hereby releases, remises and forever discharges Galaxy, its successors and assigns of and from all manner of actions, suits, debts, claims, judgments, executions, and demands whatsoever, which against Galaxy it ever had, now has or which it or its successors hereafter can, shall or may have for, upon or by reason of any matter, cause or thing whatsoever arising out of certain penalty charges incurred by Galaxy and payable to Plastics under the aforesaid contract.

If the foregoing meets with your approval, kindly so indicate your acceptance thereto by signing and returning to me the enclosed duplicate copy hereof.

Sincerely yours,

Howard H. Malkin
Technical Supervisor

ACCEPTED AND AGREED TO:
GALAXY CHEMICALS, INCORPORATED

By_____

TRUCK ☐ FREIGHT ☐

Received of the carrier described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Official, Southern, Western, Illinois Territory, or Pacific Coast Freight Bureau Tariffs, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

ATTACHMENT

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

From: Allied Chemical

At: P.O. Box [illegible]

(Mail or street address of consignee—for purposes of notification only.)

CONSIGNEE AND DESTINATION: Peoples Liquid Gas Co. Elkton, Maryland

DATE: Oct 17 1975

SHIPPER'S NO.:

CARRIER'S NO.:

CARRIER BY: Subway Chem

ROUTE:

DELIVERING CARRIER: S. Burta

CAR OR VEHICLE INITIALS & NO.: Hac. 14 + T-11

NO. PACKAGES	DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	*WEIGHT (SUBJECT TO CORR.)	CLASS OR RATE	CHECK COLUMN
PVC 1401	259,000			
	62,100			
	196,900			
TOTAL PIECES				

Subject to Section 7 of conditions of applicable bill of lading, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

Per _____ (Signature of Consignor.)

If charges are to be prepaid, write or stamp here, "To be Prepaid."

Received $ _____ to apply in prepayment of the charges on the property described hereon.

Agent or Cashier.

Per _____ (The signature here acknowledges only the amount prepaid.)

Charges Advanced: $ _____

† The fibre boxes used for this shipment conform to the specifications set forth in the box maker's certificate thereon, and all other requirements of Rule 41, of the Consolidated Freight Classification.

† This is to certify that the above-named articles are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

* If the shipment moves between two ports by a carrier by water, the Law requires that the bill of lading shall state whether it is "carrier's or shipper's weight."

† Shipper's imprints in lieu of stamps, not a part of Bill of Lading approved by the Interstate Commerce Commission.

NOTE—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____

C. O. D. SHIPMENT

C. O. D. Amt. _____

Collection Fee _____

Total Charges _____

THIS SHIPMENT IS CORRECTLY DESCRIBED.

CORRECT WEIGHT IS _____ LBS.

Per _____ Shipper

Shipper, Per _____ Agent, Per _____

003030

Permanent post office address of shipper

FORM 1200, REGENT FORMS, PHILA., PA. 19120

BY TRUCK ☐ FREIGHT ☐

RECEIVED, subject to the classifications and tariffs in effect on the date of issue of this Original Bill of Lading, the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Official, Southern, Western and Illinois Freight Classifications in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

ATTACHMENT

From Allied Chemical

At Moore

(Mail or street address of consignee—For purposes of notification only.)

CONSIGNEE AND DESTINATION: Galaxy Chemical Inc. Elkton Maryland

DATE: 1-11 1976

SHIPPER'S NO.

CARRIER ▼

CARRIER'S NO.

BY Galaxy Chemical

ROUTE

DELIVERING CARRIER

CAR OR VEHICLE INITIALS & NO.

NO. PACKAGES	DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	*WEIGHT (SUBJECT TO CORR.)	CLASS OR RATE	CHECK COLUMN
	238 200			
	63 000			
	175 200			
TOTAL PIECES				

Subject to Section 7 of conditions of applicable bill of lading, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

Per _____ (Signature of Consignor.)

If charges are to be prepaid, write or stamp here, "To be Prepaid."

Received $ _____ to apply in prepayment of the charges on the property described hereon.

Agent or Cashier.

Per _____ (The signature here acknowledges only the amount prepaid.)

Charges Advanced: $ _____

† The fibre boxes used for this shipment conform to the specifications set forth in the box maker's certificate thereon, and all other requirements of Rule 41, of the Consolidated Freight Classification.

† This is to certify that the above-named articles are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

* If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight."

† Shipper's imprints in lieu of stamp; not a part of Bill of Lading approved by the Interstate Commerce Commission.

NOTE—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____

C. O. D. SHIPMENT

C. O. D. Amt _____

Collection Fee _____

Total Charges _____

THIS SHIPMENT IS CORRECTLY DESCRIBED.

CORRECT WEIGHT IS _____ LBS.

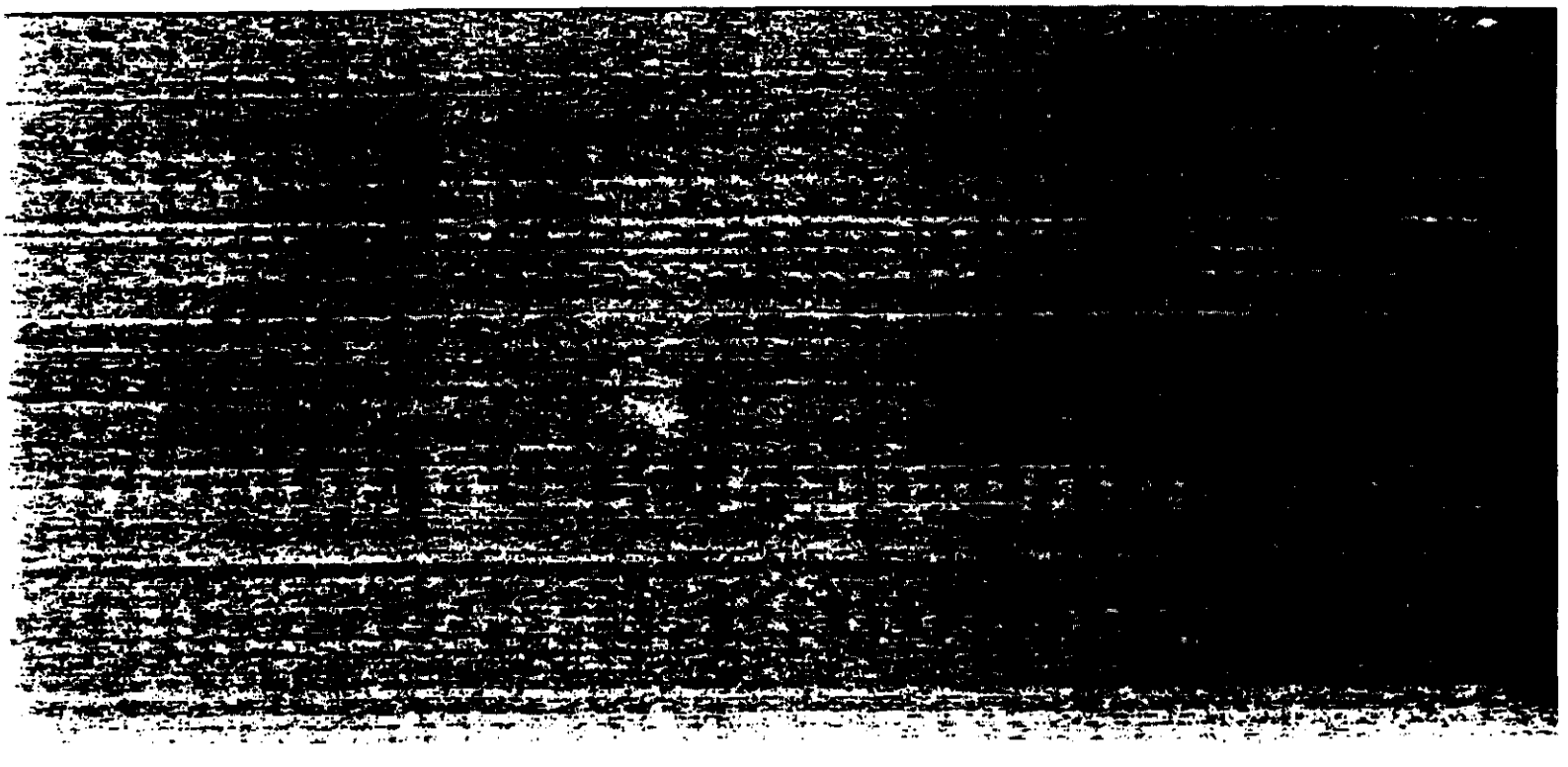
Per _____ Shipper

Shipper, Per _____ Agent, Per _____

Permanent post office address of shipper

FORM 1200. REGISTERED U.S.A. PAT. OFF. 10130

00.3021



Allied Chemical

ALLIED CHEMICAL CORPORATION

INQUIRY NO. 76-46

C-6061-5 (7-71)

Quickway, Inc.
3900 E. Orthodox Street
Phila., Pa. 19137

REQUEST FOR QUOTATION

THIS IS NOT AN ORDER

INSTRUCTIONS

PLEASE SUBMIT YOUR PROPOSAL IN TRIPLICATE FOR FURNISHING EQUIPMENT AND/OR SUPPLIES AS FOLLOWS:

1. IF YOU CAN MEET REQUIRED DELIVERY DATES AND SATISFY OTHER CONDITIONS OF PURCHASE, A FIRM PRICE PROPOSAL IS DESIRABLE AND WILL HAVE PREFERENCE OVER ONE WITH ESCALATION PROVISIONS.
2. IT IS PREFERRED THAT YOUR PROPOSED PRICE INCLUDE F.O.B. DELIVERY TO OUR PLANT.
3. YOUR PROPOSAL MUST BE IN OUR HANDS NOT LATER THAN DATE INDICATED.
4. PLEASE RETURN INQUIRY IF YOU DO NOT QUOTE.
5. OUR REFERENCE NUMBER MUST APPEAR ON ALL PROPOSALS AND ON ALL CORRESPONDENCE RELATED TO THIS INQUIRY.
6. PLEASE NOTE: PROPOSAL IS SUBJECT TO TERMS OF PURCHASE ON REVERSE SIDE HEREOF, OR ATTACHMENTS HEREOF.

MAIL THIS PROPOSAL TO:

SPEC.CHEM.DIV.ALLIED CHEM.CORP.
MARGARET & BERMUDA STS.PHILA.PA
19135 ASING SUPERVISOR J. P. MARACANI

DATE OF INQUIRY 11/13/75

DATE QUOTATION REQUIRED 11/21/75

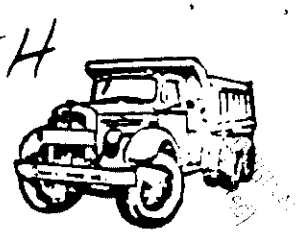
QUANTITY	MATERIAL
	Furnish rubbish removal service for the period 1/1/76 to 12/31/76. Owner will notify contractor when containers are loaded and ready for removal. All material will become the property of the contractor when loaded onto trucks and responsibility for disposal will be vested in him exclusively.

receipt for disposal

EPA ID
631-2413

M.W.H.
S.L.E.
G.E.H.
E.L.H.
H.J. → M. Kujawa

READY • WILLING • ABLE S-5H



Quick-way inc.

S. E. CORNER BATH & ORTHODOX STREETS • PHILADELPHIA, PA. 19137 • PIONEER 3-2507

November 23, 1976

Allied Chemical Company
Margaret and Bermuda Street
Philadelphia, Penna. 19137

Attn: W. Turetsky
Enviromental Control

Sir:

Here is the price information on the tank container for the disposal operation we have been working on.

A. Container as per the drawings you have,
Rental Rate - $200.00 per/month for 36 months.

B. Container as per the drawings with the two changes you wanted made.
1. Double steam line run and add second set.
2. Change valve from 6" to 12".
Rental rate - $325.00 per/month for 36 months.

C. Removal Service. Pick-up, haul and return.
$160.00 per/trip. 1/4 hour loading and 1/4 hour unloading at grows landfill.

D. Disposal you are working out price with landfill. After it is settled you can pay direct or we can bill and then pay them for you.

E. We do have the required public rubbish vehicle licenses on our trucks. Some of the numbers are - 685443-294933-874379. We have a total of 41 license units.

The construction of this special container will take approximately 3 to 4 weeks. We can start when you sign our contract.

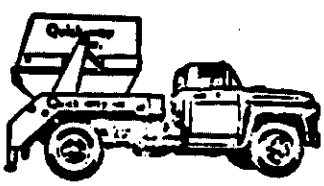
If you have any questions, please feel free to call on me.

Very truly yours,

Quick - Way, Inc.

Al Hawthorne
Operational Executive

AH/mc



RUBBISH REMOVED ON A CONTAINER, LOAD
MONTHLY OR CONTRACT BASIS

DUMP TRUCKS, STAKE BODY TRUCKS, ETC. FOR HIRE

Allied Chemical

SPECIALTY CHEMICALS DIVISION

MARGARET & BERMUDA STS., PHILADELPHIA, PA. 19137

Allied Chemical Corporation

Purchase Order

SHIPPING SCHEDULE	DATE PROMISED	DATE REQUIRED	DATE OF ORDER	TERMS	NUMBER
	1976		12/26/75	Net 10 days	53-7605

F.O.B. & FREIGHT

CHANGE NUMBER

SELLER

Quickway, Inc.
3900 S. Orthodox St.
Phila., Pa. 19137

SHIP TO US AT

Margaret & Bermuda Sts., Phila., Pa. 19137
Mark: P.O. 53-7605

INVOICING INSTRUCTIONS

SEND INVOICE IN TRIPLICATE TO:

SHIP TO ADDRESS.

C. A. Basinge

SUBJECT TO SALES TAX

☐ YES ☐ NO

SHIP VIA & ROUTING

REQUISITION NUMBER 51567

ITEM	QUANTITY ORDERED	DESCRIPTION	PRICE
		Furnish rubbish removal service for the period 1/1/76 to 12/31/76. Owner will notify contractor when containers are loaded and ready for removal. All material will become the property of the contractor when loaded onto trucks and responsibility for disposal will be vested in him exclusively. Normal pickup will be Monday thru Friday 7 AM to 5:30 PM. Saturday service will be at hourly rate of 1-1/2 time minimum of four hours or minimum of 4 containers removed at 48.00/container. Sunday or Holiday service will be a minimum 8 hrs. at Sunday/Holiday rate or a minimum of 4 containers at 60.50/container. Quotation dated 11/25/75.	48.00/ea 10 yd. container
	8-5-8		

BY J. P. HARCHEK
AUTHORIZED SIGNATURE OF BUYER
ALLIED CHEMICAL CORPORATION

PAGE 1 OF 1

VENDOR CODE			VOUCHER	
NUMBER	SUB	CR.	NO.	NUMBER

SEND ACKNOWLEDGMENT AND CORRESPONDENCE TO BUYER

DUE DATE	RECEIVING REPORT NO.	PART.	FINAL	GROSS	
				TARE	
				NET	

ITEM	DIV.	CONTROL CENTER MAJOR	MINOR	COST	GENERAL LEDGER ACCOUNT	PRODUCT CODE GROUP	JOB NO. CODE	CONT.	V	C	SUB	WEIGHT OR QUANTITY	NET DISTRIBUTION AMOUNT	CASH DIS-COUNT	* INVOICE NO.
	30	53	15		94742	250									
	30	53	34		94742	734									
	30	2700	33		36372										

SUBMITTING DIV. NO.	ORIGINATING LOC. NO	DATE UNLOADED	DATE REPORTED	F/B NO.	FREIGHT CHARGES	RECEIVED BY
REQUIRED ONLY IF DIFFERENT FROM ABOVE						

WHERE PLACED	EXTENSIONS CHECKED	PLANT ACCOUNTING SIGNATURE - DATE	VOUCHER APPROVED FOR PAYMENT - DATE

* LAST 8 CHARACTERS OF VENDORS INVOICE NO.
IF NONE USE INVOICE DATE

ALLIED CHEMICAL CORPORATION
ACCOUNTS PAYABLE DISTRIBUTION SHEET

PAGE ____ OF ____

STAPLE TO BACK OF INVOICE

VENDOR CODE		
NUMBER	SUB	CK.
14-19	20-22	23

VOUCHER		DUE DATE			PURCHASE ORDER OR RECEIVING REPORT
MO.	NUMBER	MO.	DAY	YR.	
24-25	26-31	32	33-34	35	36-43
06	002337	06	13	76	053-07604

LAST EIGHT CHARACTERS OF VENDOR'S INVOICE - IF NONE - USE INVOICE DATE

DIV.	CONTROL CENTER			GENERAL LEDGER ACCOUNT	PRODUCT CODE						WEIGHT OR QUANTITY	NET DISTRIBUTION AMOUNT	* CASH DISCOUNT	INVOICE NUMBER
	MAJOR	MINOR	COST		GROUP	JOB NO. CODE	JOB NO. CONT.	V	C	SUB				
44-45	47-49	51-53	54-56	57-62	63-65	66-74		75	76	77-81	82-91	92-100	101-106	107-114
30	053			14700		14791					53009-400	8353 22	+	9181
											50995			

SUBMITTING DIVISION NO.	ORIGINATING LOCATION NO.
30	053

REQUIRED ONLY IF DIFFERENT FROM DIV. AND MAJOR CODING ABOVE

F
DP

* EARNED CASH DISCOUNTS MUST BE SHOWN NEXT TO APPLICABLE INVOICE NUMBER.

APPROVAL SIGNATURE

ATTACHMENT A

MOBILE HYDRO HYDRAULIC INC.
DeVault, Pennsylvania 19432
Area Code 215-647-6611

NO. 9181
DATE May 19, 1976
OUR JOB NO.
YOUR ORDER NO. P.O. #53-7644 & P.O. #53-7644/1
AUTHORITY
TERMS—NET 30 DAYS

INVOICE TO Allied Chemical Corp.
Margaret & Bermuda Sts.
Philadelphia, Pa. 19137

Billing For

P.O. #53-7644
Req. #51336

Services rendered at your plant.
52,281 gallons of liquid waste @ $.12/gal. = $6,273.72

SUBTOTAL ---------- $6,273.72

P.O. #53-7644/1
Req. #45858

High Pressure Rig

ATTACHMENT A

5/5/76 -- 8 hrs. @ $62.00/hr. = $496.00
½ hr. @ $75.00/hr. -- 37.50

5/6/76 -- 8 hrs. @ $62.00/hr. = $496.00
1 hr. @ $75.00/hr. -- 75.00

SUBTOTAL ---------- $1104.50-$1104.50

Vacuum Rig

5/7/76 -- 9 hrs. @ $75.00/hr. = $675.00

5/10/76 -- 4 hrs. @ $75.00/hr. = $300.00
(Min. charge)

SUBTOTAL ---------- $975.00--$975.00

TOTAL BILL ---------- $8,353.22

Terms: Net 30 days

APPROVED FOR PAYMENT: TMA
DATE: 6-3-76

Area Code 215-647-6611

ATTACHMENT B

MOBILE HYDRO HYDRAULIC INC.

DeVault, Pennsylvania 19432

May 3, 1976

O.K. RCF 5/7/76

Allied Chemical Co.
Margaret & Bermuda Sts.
Philadelphia, Pa. 19137

Attn: James Marcani

With regards to your request, we wish to submit the following proposal.

SCOPE OF WORK To clean storage tanks with High Pressure Water Equipment.

Mobile Hydro Hydraulics To Supply: Necessary equipment, water tools and personnel so this job can be done in an efficient manner.

The Customer To Supply: Access, rights-of-way, water supply and assistance so this work can be done in an efficient manner.

PRICE: The cleaning will be done on a regular (8 hr. work day) rate of Sixty-two Dollars ($62.00) per hour. The overtime and week-end rate would be Seventy-five Dollars ($75.00) per hour.

TERMS: Net 30 days

We hope this meets with your approval and we can be of service to you.

Respectfully submitted,

MOBILE HYDRO HYDRAULICS, INC.

Frank Starr

Frank Starr

FS/cad

Copies of documents from purchasing dept. 1976 files. Files prior to 1976 have been disposed of.

ROBT. STOKES

Allied Chemical

AT

ATTACHMENT B

PURCHASE REQUISITION No. 45658

DATE	REQ. BY	BUYER
5-3-76	MACNEAL	J.P. MARACANO

SHIPPING SCHEDULE	DATE PROMISED	DATE REQUIRED	DATE ORDERED	TERMS	P.O. NUMBER
		5/4			53-7644

F.O.B. & FREIGHT

CHANGE NUMBER: SUB #1

SELLER: MOBILE HYDRO HYDRAULICS

MAILING INSTRUCTIONS - PLEASE ENTER NUMBER OF COPIES

TO:	ACKN. COPIES	SHIP. NOT.	B/L	INV.	CORR.
ABOVE ADDRESS					
"SHIP TO US AT" ADDRESS					

ENGINEERING PROJECTS

INQUIRY NO.

PLANT: Frankford

PROJECT: GD 53009

EQUIPMENT

TOTAL PRICE $

AUTHORIZED $

SHIP TO US AT

SHIP VIA & ROUTING

ITEM	QUANTITY ORD.	DESCRIPTION	PRICE
		Amend P.O. #53-7644 As Follows:-	
		Add Item #2 - Furnish Hi-Pressure Wash Equipment	
2.		FURNISH SERVICE OF HI-PRESSURE WATER EQUIPMENT TO BREAKUP SOLID SLUDGE IN STORAGE TANKS.	62 @/HR REG. TIME 75 @/HR. OVERTIME
3.		FURNISH SERVICES OF VACUUM TRUCK UNIT TO CLEAN UP LARGE CHUNKS OF SLUDGE IN STORAGE TANKS.	75 @/HR REG. RATE

REMARKS (JUSTIFICATION, PACKAGING, ETC.)

APPROVE HERE: TAM 5/3/76; S.P. [illegible] 5/4; JMM 5/5/76; R.C. Fedor 5/6/

CLAUSES

ITEM	DIV. OR CO.	CONTROL CENTER MAJOR	MINOR	CO. CENTER	ACCOUNT	JOB. PROD., R/M CODE	QUANTITY	DISTR. AMNT.	ENGRG. CODE
	30	53	71		1474				

LAST LOT ORDERED	DATE	P.O. NUMBER	QUANTITY	VENDOR	BY	ON HAND NOW

ENGINEERING PRINTS REQUIRED — PRELIMINARY NO. — DATE — NUMBER — CERTIFIED DATE — EXPEDITE: JMM 5/5/76

SEND PRINTS — INSPECTION REQUIRED BEFORE SHIPMENT

Area Code 215-647-6611

ATTACHMENT D

MOBILE HYDRO HYDRAULIC INC.

DeVault, Pennsylvania 19432

ORIGINAL (Red)

April 20, 1976

Allied Chemical Co.
Margaret & Bermuda Sts.
Philadelphia, Pa. 19137

S-5H
51336

Attn: James Marcani
Copies: Sam Popowcer
J. McBride

In regards to our visit to your plant, we wish to submit the following proposal.

Mobile Hydro Hydraulics, Inc. will provide tanker and transportation to remove sludge from your tanks as listed.

A Firm Price of Eight Cents ($.08) per gallon will be charged plus Sixty-two Dollars ($62.00) per hour regular time and Seventy-five Dollars ($75.00) overtime and weekends. (non certified)

An additional Two Cents ($.02) per gallon will be charged for certified.

Approximate time for this job would be 4 to 5 days.

Our terms are Net 30 days.

We hope this meets with your approval and we are looking forward to doing business with you.

Respectfully submitted,

MOBILE HYDRO HYDRAULICS, INC.

Frank Starr

FS/cad

REMOVAL
.12/GAL.
CERTIFIED

15MONTHS

647-6611
NATE JEFFERSON

ATTACHMENT B.

Allied Chemical

AT

PURCHASE REQUISITION No.

DATE	REQ. BY	BUYER	No.
4-22-76	MACNEAL	J.P. MARACANI	51336

SHIPPING SCHEDULE	DATE PROMISED	DATE REQUIRED	DATE ORDERED	TERMS	P.O. NUMBER
	4/29/76	[illegible]			53-[illegible]

F.O.B. & FREIGHT

CHANGE NUMBER

SELLER: [illegible] HYDRO HYDRAULIC INC
DEVAULT, PA 19432

SHIP TO US AT

MAILING INSTRUCTIONS - PLEASE ENTER NUMBER OF COPIES

TO	ACKN COPIES	SHIP. NOT.	B/L	INV.	CORR.
ABOVE ADDRESS					
"SHIP TO US AT" ADDRESS					

ENGINEERING PROJECTS

INQUIRY NO

PLANT: Frankford

PROJECT: GO 53009

EQUIPMENT

TOTAL PRICE $

AUTHORIZED $

SHIP VIA & ROUTING

Contract #76-37

ITEM	QUANTITY ORD.	DESCRIPTION	PRICE
		Furnish Service of Contractor To Remove & Dispose of Liquid Waste Material In Idle Tanks @ Frankford Plant. (Approx. 45,000 Gal.)	
		MATERIAL MUST BE DISPOSED AT A CERTIFIED DUMP. ALL DISPOSED MAT'L. TO BE AS PER SAMPLES SUBMITTED. CONTRACTOR TO EXERCISE ALL PRECAUTIONS FOR HAZARDOUS MATERIALS, CERTIFICATION OF INSURANCE MUST BE SUBMITTED PRIOR TO COMMENCEMENT OF JOB. [illegible] DUMP TO SUBMIT RELEASE [illegible]	.12/GAL.

REMARKS (JUSTIFICATION, PACKAGING, ETC.)

[illegible]

C - Mr Jefferson

CLAUSES

APPROVE HERE: [illegible] 4/22/76; S.P.E. 4/23/76; [illegible] 4/27/76; R [illegible] 4/26/76

ITEM	DIV. OR CO.	CONTROL CENTER MAJOR	CONTROL CENTER MINOR	COST CENTER	ACCOUNT	JOB, PROD., R/M CODE	QUANTITY	DISTR. AMNT.	ENGRG. CODE
	30	53	17		14791	GO 53009	WO# 58995		400

LAST LOT ORDERED	DATE	P.O. NUMBER	QUANTITY	VENDOR	BY	ON HAND NOW

ENGINEERING PRINTS REQUIRED — PRELIMINARY NO. — DATE — NUMBER — CERTIFIED DATE — EXPEDITE

SEND PRINTS TO: S-S-H

INSPECTION REQUIRED BEFORE SHIPMENT: [illegible] 4/27/76 APPROX 5400.

Allied Chemical

ATTACHMENT

SPECIALTY CHEMICALS DIVISION

Allied Chemical Corporation

Purchase Order

INTERCHEM - BUCKNER RD., PHILADELPHIA, PA. 19137

SHIPPING SCHEDULE	DATE PROMISED	DATE REQUIRED	DATE OF ORDER	TERMS	NUMBER
			5/12/76		053 53-7[illegible]

F.O.B. & FREIGHT

CHANGE NUMBER 21

SELLER: Mobile Hydro Hydraulic, Inc.
[illegible] Pa. 19422

SHIP TO US AT: Morgan & Lamotte St. Phila., Pa. 19137
Mark: P.O. [illegible]

INVOICING INSTRUCTIONS

SEND INVOICE IN TRIPLICATE TO:

Ship to Atta.

T. Hach-Gal

SUBJECT TO SALES TAX: ☐ YES ☐ NO

SHIP VIA & ROUTING

REQUISITION NUMBER 45950

CONTRACT 876-37

ITEM	QUANTITY ORDERED	DESCRIPTION	PRICE
		This amendment is issued to add the following:	
2.		Furnish services of hi-pressure water equipment to break-up solid sludge in storage tanks.	
		Regular Time	62.00/hr.
		Overtime Rate	75.00/hr.
3.		Furnish services of vacuum truck unit to clean up large chunks of sludge in storage tanks.	
		Regular Rate	75.00/hr.
		CONTINUING - NO. START	
	S-S-N		

9

Original in GO 53009 file

BY _____ AUTHORIZED SIGNATURE OF BUYER
ALLIED CHEMICAL CORPORATION

PAGE 1 OF 1

VENDOR CODE			VOUCHER	
NUMBER	SUB	CK	MO.	NUMBER

SEND ACKNOWLEDGMENT AND CORRESPONDENCE TO BUYER

DUE DATE	RECEIVING REPORT NO.	PART.	FINAL	GROSS
				TARE
				NET

ITEM	DIV.	CONTROL CENTER MAJOR	MINOR	COST	GENERAL LEDGER ACCOUNT	PRODUCT CODE GROUP	JOB NO. CODE	CONT.	V	C	SUB	WEIGHT OR QUANTITY	NET DISTRIBUTION AMOUNT	CASH DIS-COUNT	* INVOICE N
	30	53	17		147.11		[illegible]				5[illegible]				

SUBMITTING DIV. NO.	ORIGINATING LOC. NO	DATE UNLOADED	DATE REPORTED	F/B NO.	FREIGHT CHARGES	RECEIVED BY
REQUIRED ONLY IF DIFFERENT FROM ABOVE						

WHERE PLACED	EXTENSIONS CHECKED	PLANT ACCOUNTING SIGNATURE - DATE	VOUCHER APPROVED FOR PAYMENT - DATE

* LAST 8 CHARACTERS OF VENDORS INVOICE NO. IF NONE USE INVOICE DATE

Allied Chemical

ATTACHMENT C

SECURITY & CHEMICALS DIVISION

[illegible] PHILADELPHIA, PA. 19107

Allied Chemical Corporation

Purchase Order

SHIPPING SCHEDULE	DATE PROMISED	DATE REQUIRED	DATE OF ORDER	TERMS	NUMBER
	[illegible]		[illegible]		53-7[illegible]

F.O.B. & FREIGHT

CHANGE NUMBER

SELLER: [illegible] Inc.
[illegible]

SHIP TO US AT: [illegible]
Mark P.O. [illegible]

INVOICING INSTRUCTIONS

SEND INVOICE IN TRIPLICATE TO:

Ship to Address

T. MacNeal

SUBJECT TO SALES TAX: ☐ YES ☐ NO

SHIP VIA & ROUTING: CONTRACT #76-37

REQUISITION NUMBER: 51336

ITEM	QUANTITY ORDERED	DESCRIPTION	PRICE
		Furnish service of contractor to remove and dispose of liquid waste material in idle tanks at Frankford Plant (approx. 45,000 gal.)	
		Material must be disposed at a certified dump. All disposed material to be as per samples submitted. Contractor to exercise all precautions for hazardous materials. Certification of insurance must be submitted prior to commencement of job. Certified dump to submit release papers to ~~xxxxx~~ owner.	.12/gal.
		CONFIRMING - MR. JEFFERSON	
	5-5-[illegible]		NT

9

Copy of document on Go 53009 file

BY J. P. [illegible]
AUTHORIZED SIGNATURE OF BUYER
ALLIED CHEMICAL CORPORATION

PAGE 1 OF 1

VENDOR CODE			VOUCHER	
NUMBER	SUB	CK	MO.	NUMBER

SEND ACKNOWLEDGMENT AND CORRESPONDENCE TO BUYER

DUE DATE	RECEIVING REPORT NO.	PART.	FINAL	GROSS	
				TARE	
				NET	

ITEM	DIV.	CONTROL CENTER MAJOR	MINOR	COST	GENERAL LEDGER ACCOUNT	PRODUCT CODE GROUP	JOB NO. CODE	CONT.	V	C	SUB	WEIGHT OR QUANTITY	NET DISTRIBUTION AMOUNT	CASH DISCOUNT	* INVOICE NO.
	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				

SUBMITTING DIV. NO.	ORIGINATING LOC. NO	DATE UNLOADED	DATE REPORTED	F/B NO.	FREIGHT CHARGES	RECEIVED BY

REQUIRED ONLY IF DIFFERENT FROM ABOVE

WHERE PLACED	EXTENSIONS CHECKED	PLANT ACCOUNTING SIGNATURE - DATE	VOUCHER APPROVED FOR PAYMENT - DATE

* LAST 8 CHARACTERS OF VENDORS INVOICE NO. IF NONE USE INVOICE DATE

C-3077 (8/75)

ATTACHMENT C

Allied Chemical

AT

PURCHASE REQUISITION No.

DATE	REQ. BY	BUYER	
[illegible]	[illegible]	[illegible]	[illegible]

SHIPPING SCHEDULE	DATE PROMISED	DATE REQUIRED	DATE ORDERED	TERMS	P.O. NUMBER
		[illegible] 4/26			

O.B. & FREIGHT

CHANGE NUMBER

ELLER

MAILING INSTRUCTIONS - PLEASE ENTER NUMBER OF COPIES

TO	ACKN. COPIES	SHIP NOT.	B/L	INV.	CORR.
ABOVE ADDRESS					
"SHIP TO US AT" ADDRESS					

ENGINEERING PROJECTS

INQUIRY NO.

PLANT [illegible]

PROJECT GO 53009

EQUIPMENT

TOTAL PRICE $

AUTHORIZED $

SHIP TO US AT

SHIP VIA & ROUTING

Contract #76-

ITEM	QUANTITY ORD.	DESCRIPTION	PRICE
		Furnish Service of Contractor To Remove & Dispose of Waste Material In Idle Tanks @ Frankford Plant (Approx [illegible] Gal.)	
		Original in GO 53009 file	

REMARKS (JUSTIFICATION, PACKAGING, ETC.)

APPROVE HERE [illegible]

S.P.

CLAUSES

ITEM	DIV. OR CC	CONTROL CENTER MAJOR	CONTROL CENTER MINOR	COST CENTER	ACCOUNT	JOB, PROD., R/M CODE	QUANTITY	DISTR. AMNT.	ENGRG. CODE
		[illegible]	17		[illegible]	[illegible]		[illegible]	400

LAST LOT ORDERED	DATE	P.O. NUMBER	QUANTITY	VENDOR	BY	ON HAND NOW

ENGINEERING PRINTS REQUIRED	PRELIMINARY NO.	DATE	NUMBER	CERTIFIED DATE	EXPEDITE

SEND PRINTS TO

INSPECTION REQUIRED BEFORE SHIPMENT

Copies of documents in Q.C. Lab files for 1976.

ATTACHMENT D

Nine (9) Storage Tanks To Be Demolished

Liquid

Th 289 Sprung Phenol

(1) % Phenol (2) % oil (3) % water

(4) pH (5) COD *

Th 291 Carbolic Acid

(1) % phenol (2) % oil (3) % water

(4) pH (5) COD *

Th 3472 Phenol Water

(1) ppm phenol (2) pH (3) COD *

Th 12998 Carbolate

(1) ppm Phenol (2) Alkalinity as NaOH

(3) pH (4) COD *

Sludge

Th 228 Calcium Carbonate

(1) ppm Phenol (2) ppm oil

(3) pH (4) COD *

Attachment D

Th 3471 Calcium Carbonate & Naphthalene
(1) ppm Phenol (2) ppm oil
(3) pH (4) COD *

Th 9549 Carbolate
(1) ppm Phenol (2) ppm Oil
(3) pH (4) COD *

Th 12358 Carbolic Acid Sludge
(1) ppm Phenol (2) ppm Oil
(3) pH (4) COD *

Th 12359 Hopewell Residue Sludge
(1) ppm Phenol (2) ppm Oil
(3) pH (4) COD *

* COD to be run by Waste Control Group using the Technicon

2/9/76
SLE/LJW/ENW

PLASTICS DIVISION
ALLIED CHEMICAL CORPORATION
FRANKFORD

Attachment V

LABORATORY REPORT

INBOUND | STOCK | SPECIAL

MATERIAL: Hopewell Residue Sludge

SAMPLE NO.

FROM / TO

SAMPLE REC'D. 2-11-76

CAR NO.: R 12359

TEST COMPLETED 2-16-76

	START	SP. GR.@	L. PT. OUT	IN
	5	H_2O	VOL.	
	10	COLOR	SODA SOL.	
	20	TAR AC.	H_2O SOL.	
	30	WASH (°AC.)	~~ACID~~ pH 9.9	
	40	H_2S	ALK. 0.8gm/100gm as NaOH	
	50	SO_2	PHENOL 3000 ppm	
	60	CU. CORR.	O. CRESOL	
	70	FL. PT.	M. CRESOL	
	80	M. P. (DRY)	ODOR	
	90	M. P. (WET)	CUMAR M.P.	
	95	PARAFFINS	ASH	
	D		O & N Trace	
			PYR.	
		BAR	NAPH.	
		BAR. CORR.		
		E.S. CORR.		
		TOTAL CORR.		

C-1002 (12-58) (F)

APPROVED

PLASTICS DIVISION
ALLIED CHEMICAL CORPORATION
FRANKFORD

LABORATORY REPORT

INBOUND | STOCK | SPECIAL

MATERIAL: Carbolic Acid Sludge

SAMPLE NO.

FROM / TO

SAMPLE REC'D. 2-11-76

CAR NO.: R 12358

TEST COMPLETED 2-16-76

	START	SP. GR.@	L. PT. OUT	IN
	5	H_2O	VOL.	
	10	COLOR	SODA SOL.	
	20	TAR AC.	H_2O SOL.	
	30	WASH (°AC.)	~~ACID~~ pH 9.5	
	40	H_2S	ALK. 0.6gm/100gm as NaOH	
	50	SO_2	PHENOL 6300 ppm	
	60	CU. CORR.	O. CRESOL	
	70	FL. PT.	M. CRESOL	
	80	M. P. (DRY)	ODOR	
	90	M. P. (WET)	CUMAR M.P.	
	95	PARAFFINS	ASH	
	D		O & N Trace	
			PYR.	
		BAR	NAPH.	
		BAR. CORR.		
		E.S. CORR.		
		TOTAL CORR.		

C-1002 (12-58) (F)

APPROVED

PLASTICS DIVISION
ALLIED CHEMICAL CORPORATION
FRANKFORD

LABORATORY REPORT

Attachment V

INBOUND | STOCK | SPECIAL

MATERIAL

FROM / TO / CAR NO. T-2256

SAMPLE NO.

SAMPLE REC'D.

TEST COMPLETED

	START	SP. GR.@	L. PT. OUT	IN
	5	H2O	VOL.	
	10	COLOR	SODA SOL.	
	20	TAR AC.	H2O SOL.	
	30	WASH (°AC.)	~~ACID~~	[illegible]
	40	H2S	ALK.	TRACE
	50	SO2	PHENOL	TRACE
	60	CU. CORR.	O. CRESOL	
	70	FL. PT.	M. CRESOL	
	80	M. P. (DRY)	ODOR	
	90	M. P. (WET)	CUMAR M.P.	
	95	PARAFFINS	ASH	
	D		O & N	TRACE
			PYR.	
		BAR	NAPH.	
		BAR. CORR.		
		E.S. CORR.		
		TOTAL CORR.		

C-1002 (12-58) (F)

APPROVED

PLASTICS DIVISION
ALLIED CHEMICAL CORPORATION
FRANKFORD

LABORATORY REPORT

INBOUND | STOCK | SPECIAL

MATERIAL Carbolate

FROM / TO / CAR NO. T 9549

SAMPLE NO.

SAMPLE REC'D. 2-11-76

TEST COMPLETED 2-16-76

	START	SP. GR.@	L. PT. OUT	IN
	5	H2O	~~VOL.~~	COD 85 [illegible]
	10	COLOR	SODA SOL.	
	20	TAR AC.	H2O SOL.	
	30	WASH (°AC.)	~~ACID~~	PH 9.0
	40	H2S	ALK.	[illegible]
	50	SO2	PHENOL	[illegible]
	60	CU. CORR.	O. CRESOL	
	70	FL. PT.	M. CRESOL	
	80	M. P. (DRY)	ODOR	
	90	M. P. (WET)	CUMAR M.P.	
	95	PARAFFINS	ASH	
	D		O & N	[illegible] 2TP [illegible] TRACE
			PYR.	
		BAR	NAPH.	
		BAR. CORR.		
		E.S. CORR.		
		TOTAL CORR.		

C-1002 (12-58) (F)

APPROVED

Attachment D

PLASTICS DIVISION
ALLIED CHEMICAL CORPORATION
FRANKFORD

LABORATORY REPORT

INBOUND | STOCK | SPECIAL

MATERIAL [illegible]

SAMPLE NO.

FROM / TO / CAR NO. [illegible]

SAMPLE REC'D. [illegible]

TEST COMPLETED 2-16-[illegible]

START	SP. GR. @	L. PT. OUT	IN
5	H2O	~~VOL.~~	[illegible]
10	COLOR	SODA SOL.	
20	TAR AC.	H2O SOL.	
30	WASH (°AC.)	~~ACID~~	11.6
40	H2S	ALK.	4.4 gm/100ml as NaOH
50	SO2	PHENOL	18.7%
60	CU. CORR.	O. CRESOL	
70	FL. PT.	M. CRESOL	
80	M. P. (DRY)	ODOR	
90	M. P. (WET)	CUMAR M.P.	
95	PARAFFINS	ASH	
D		Oil ~~[illegible]~~	[illegible] (APPROX)
		PYR.	
	BAR	NAPH.	1.3% (APPROX)
	BAR. CORR.		
	E.S. CORR.		
	TOTAL CORR.		

C-1002 (12-58) (F)

APPROVED

PLASTICS DIVISION
ALLIED CHEMICAL CORPORATION
FRANKFORD

LABORATORY REPORT

INBOUND | STOCK | SPECIAL

MATERIAL Carbolate

SAMPLE NO.

FROM / TO / CAR NO. R 12998

SAMPLE REC'D. 2-11-7[illegible]

TEST COMPLETED 2-16-7[illegible]

START	SP. GR. @	L. PT. OUT	IN
5	H2O	~~VOL.~~	COD 55,000 PPM (Technical)
10	COLOR	SODA SOL.	
20	TAR AC.	H2O SOL.	
30	WASH (°AC.)	~~ACID~~	PH 12.2
40	H2S	ALK.	[illegible] as NaOH
50	SO2	PHENOL	
60	CU. CORR.	O. CRESOL	
70	FL. PT.	M. CRESOL	
80	M. P. (DRY)	ODOR	
90	M. P. (WET)	CUMAR M.P.	
95	PARAFFINS	ASH	
D		Oil ~~[illegible]~~	[illegible] (APPROX)
		PYR.	
	BAR	NAPH.	[illegible] (APPROX)
	BAR. CORR.		
	E.S. CORR.		
	TOTAL CORR.		

C-1002 (12-58) (F)

APPROVED

PLASTICS DIVISION
ALLIED CHEMICAL CORPORATION
FRANKFORD

LABORATORY REPORT

INBOUND

MATERIAL [illegible]

FROM / TO / CAR NO. T 2[illegible]

SAMPLE NO.

SAMPLE REC'D.

TEST COMPLETED

START	SP. GR. @	L. PT. OUT	IN
5	H2O 89.7%	~~VOL.~~	[illegible]
10	COLOR	SODA SOL.	
20	TAR AC.	H2O SOL.	
30	WASH (°AC.)	~~ACID~~ pH [illegible]	
40	H2S	ALK.	[illegible]
50	SO2	PHENOL	5.5%
60	CU. CORR.	O. CRESOL	
70	FL. PT.	M. CRESOL	
80	M. P. (DRY)	ODOR	
90	M. P. (WET)	CUMAR M.P.	
95	PARAFFINS	ASH	
0		Oil ~~[illegible]~~	0.9% (APPROX)
		PYR.	
	BAR	NAPH.	0.2% (APPROX)
	BAR. CORR.		
	E.S. CORR.		
	TOTAL CORR.		

GPC

APPROVED

C-1002 (12-58) (F)

PLASTICS DIVISION
ALLIED CHEMICAL CORPORATION
FRANKFORD

LABORATORY REPORT

INBOUND | STOCK | ~~SPECIAL~~

MATERIAL Carbolic Acid

FROM / ~~TO~~ / CAR NO. T 291

SAMPLE NO.

SAMPLE REC'D. 2-11-7[illegible]

TEST COMPLETED 2-16-71

START	SP. GR. @	L. PT. OUT	IN
5	H2O 68.5%	~~VOL.~~	COD 545 [illegible]
10	COLOR	SODA SOL.	
20	TAR AC.	H2O SOL.	
30	WASH (°AC.)	~~ACID~~ pH 10.2	
40	H2S	ALK.	[illegible]
50	SO2	PHENOL	[illegible]
60	CU. CORR.	O. CRESOL	
70	FL. PT.	M. CRESOL	
80	M. P. (DRY)	ODOR	
90	M. P. (WET)	CUMAR M.P.	
95	PARAFFINS	ASH	
0		Oil ~~[illegible]~~	[illegible] (APPROX)
		PYR.	
	BAR	NAPH.	[illegible] (APPROX)
	BAR. CORR.		
	E.S. CORR.		
	TOTAL CORR.		

GPC

APPROVED

C-1002 (12-58) (F)

Allied Chemical

SPECIALTY CHEMICALS DIVISION

MARGARET & BERMUDA STS., PHILADELPHIA, PA. 19137

Allied Chemical Corporation

Purchase Order

SHIPPING SCHEDULE	DATE PROMISED	DATE REQUIRED	DATE OF ORDER	TERMS	NUMBER
	1/17/76		1/1[illegible]/76	1/10/[illegible]/30	53-7611

F.O.B. & FREIGHT: Attachment E

CHANGE NUMBER:

SELLER:
Mobile Hydro-Hydraulics, Inc.
De Vault, Pa. 19432

SHIP TO US AT:
Margaret & Bermuda Sts., Phila., Pa. 19137
Mark: P.O. ~~53-7611~~

INVOICING INSTRUCTIONS

SEND INVOICE IN TRIPLICATE TO:

SHIP TO ADDRESS

J. Hipple

SUBJECT TO SALES TAX: ☐ YES ☐ NO

SHIP VIA & ROUTING: CONTRACT NO. 76-4

REQUISITION NUMBER: 54271

ITEM	QUANTITY ORDERED	DESCRIPTION	PRICE
1.		Furnish services, as independent contractor, to remove the waste in the 3 sections of the oil and water separator. Estimated 12 - 18,000 gal. (max.)	.13/gal.
		Chemical analysis as follows: pH - 11.7 Phenolics - 12,814 ppm (approx.) COD (W.C.) - 240,000 Estimated Oils - Trace Susp. Solids - 16.4%	
		All material will become property of contractor when loaded onto trucks and responsibility will be vested in him exclusively.	
	S-5-B	Insurance Contractor must comply with the terms and conditions of this purchase order and submit required certificates of insurance in form satisfactory to the buyer, to the undersigned prior to start of work.	

Batch 1/17
3 42

8

BY J. F. MARRIOTT
AUTHORIZED SIGNATURE OF BUYER
ALLIED CHEMICAL CORPORATION

PAGE 1 OF 1

CONFIRMING - MR. MOODY - Work Completed

VENDOR CODE			VOUCHER	
NUMBER	SUB	CK	MO.	NUMBER

SEND ACKNOWLEDGMENT AND CORRESPONDENCE TO BUYER

DUE DATE	RECEIVING REPORT NO.	PART.	FINAL	GROSS	
				TARE	
				NET	

ITEM	DIV.	CONTROL CENTER MAJOR	MINOR	COST	GENERAL LEDGER ACCOUNT	PRODUCT CODE GROUP	JOB NO. CODE	CONT.	V	C.	SUB	WEIGHT OR QUANTITY	NET DISTRIBUTION AMOUNT	CASH DIS-COUNT	* INVOICE NO.
	~~30~~	~~55~~	~~54~~		~~56320~~										

SUBMITTING DIV. NO.	ORIGINATING LOC. NO	DATE UNLOADED	DATE REPORTED	F/B NO.	FREIGHT CHARGES	RECEIVED BY
REQUIRED ONLY IF DIFFERENT FROM ABOVE						

WHERE PLACED	EXTENSIONS CHECKED	PLANT ACCOUNTING SIGNATURE - DATE	VOUCHER APPROVED FOR PAYMENT - DATE

* LAST 8 CHARACTERS OF VENDORS INVOICE NO. IF NONE USE INVOICE DATE

C-3077 (8/75)

MOBILE HYDRO Hydraulics, Inc.
Spring Mill Rd., DeVault, Pennsylvania 19432
Area Code 215-647-6611

ATTACH TO P.6

2/2/76

January 21, 1976

Allied Chemical Corp.
Margaret & Bermuda Sts.
Philadelphia, Pa. 19137

Attn: Mr. Hipple

Enclosed please find a section from Rules and Regulations of Solid Waste Management, explaining consignment of hazardous waste.

We feel this information should be forwarded to your Purchasing Department and Legal Department.

If you have further questions, please contact our office.

Respectfully yours,

INDUSTRIAL & MUNICIPAL SERVICES
a subsidiary of MOBILE HYDRO HYDRAULICS, INC.

Jack Moody

Jack Moody

JM/cad

Attachment E

Attachment E

§ 75.204. [illegible] of buildings and grounds.

Housekeeping routines and grounds maintenance shall be performed regularly to assure that dust and dirt do not accumulate and that grounds are maintained free of litter or debris.

§ 75.205. Maintenance of floors.

(a) Floors shall be swept by dust collecting vacuum mechanisms or by manual means utilizing dust suppressing compounds.

(b) Floors shall be well drained and free of standing water.

§ 75.206. Maintenance of utility services.

All utility services shall be maintained properly.

Source

The provisions of Subchapter F (§§ 75.171 through 75.206) adopted March 16, 1972, effective April 8, 1972, 2 Pa. B. 508.

Subchapter G. HAZARDOUS SOLID WASTE

GENERAL

§ 75.211. General requirement.

Whenever hazardous waste is produced and alternate reclamation or reuse is not possible, the collection, transportation, processing and disposal shall be accomplished in accordance with the provisions of this Subchapter.

§ 75.212. Consignment of waste.

(a) No consignment of solid waste shall be made to another without the disclosure of its hazardous nature.

(b) No consignment of solid waste should be made to another without the assurance that subsequent handling and disposal shall be accomplished in a satisfactory manner and in accordance with the laws and regulations of this Commonwealth.

PROCESSING AND DISPOSAL OF WASTE

§ 75.221. Authorized sites and methods.

No receiver of hazardous solid waste shall use any other than sites or methods permitted pursuant to the act for hazardous waste processing or disposal.

§ 75.222. Transportation of waste.

The transportation of hazardous solid wastes shall not be done in a manner which will present a risk to the transporter or the general public or which may result in pollution of the environment.

§ 75.223. Processing of waste.

The processing of hazardous solid waste to [illegible] shall not be done in a manner or way which, in itself, [illegible] environmental pollution.

§ 75.224. Handling methods for [illegible]

No disposal site shall accept [illegible] for disposal without having

MOBILE HYDRO HYDRAULIC INC.
DeVault, Pennsylvania 19432
Area Code 215-647-6611

NO. 9053
DATE January 20, 1976
OUR JOB NO.
YOUR ORDER NO. P.O. #53 - 7611
AUTHORITY
TERMS—NET 30 DAYS

INVOICE TO Allied Chemical Corp.
Margaret & Bermuda Sts.
Philadelphia, Pa. 19137

Billing For

Service rendered to remove the waste in the 3 sections of the oil and water separator. 1/17/76

19,000 gals. @ $0.13/gal. = $2470.00

1% DISCOUNT 24.70

Terms: 1%/10, Net 30 days 2445.30

PLEASE NOTE: Disposal Slips Attached.

OK for Payment
1/23/76

Attachment E

SPRING MILL RD
EVAULT PA 19432

TYPE
1. COMP. REG.
2. OPEN REG.
3. WOOD
4. OTHER
5. SPECIAL "A"
6. SPECIAL "B"
7. SPECIAL "C"
8. SPECIAL "D"
9. LIQUID "E"
0. TIES "F"

MANUAL USE ONLY:

CUST. NO.	
DATE	
TRUCK	
QTY./TYPE	6,000 GALS
CASH SALE AMOUNT	

G.R.O.W.S. INC.
P.O. BOX 7879
PHILADELPHIA, PA. 19101

Signature Dick Lane

CUSTOMER'S COPY

CUST. NO.		MO DA Y DATE	TRUCK	QTY	TYPE	CASH SALE AMOUNT	TICKET NO. 89 25398

OBILE HYDRO HYDRAULIC
SPRING MILL RD
EVAULT PA 19432

TYPE
1. COMP. REG.
2. OPEN REG.
3. WOOD
4. OTHER
5. SPECIAL "A"
6. SPECIAL "B"
7. SPECIAL "C"
8. SPECIAL "D"
9. LIQUID "E"
0. TIES "F"

MANUAL USE ONLY:

CUST. NO.	
DATE	
TRUCK	
QTY./TYPE	7,000 GALS
CASH SALE AMOUNT	

G.R.O.W.S. INC.
P.O. BOX 7879
PHILADELPHIA, PA. 19101

Signature Ernest Sullivan Jr.

CUSTOMER'S COPY

CUST. NO.		MO DA Y DATE	TRUCK	QTY	TYPE	CASH SALE AMOUNT	TICKET NO. 89 25310

OBILE HYDRO HYDRAULIC
SPRING MILL RD
EVAULT PA 19432

TYPE
1. COMP. REG.
2. OPEN REG.
3. WOOD
4. OTHER
5. SPECIAL "A"
6. SPECIAL "B"
7. SPECIAL "C"
8. SPECIAL "D"
9. LIQUID "E"
0. TIES "F"

MANUAL USE ONLY:

CUST. NO.	
DATE	
TRUCK	
QTY./TYPE	6,000 GALS
CASH SALE AMOUNT	

G.R.O.W.S. INC.
P.O. BOX 7879
PHILADELPHIA, PA. 19101

Signature Dick Lane

CUSTOMER'S COPY

Attachment E

ALLIED CHEMICAL CORPORATION
ACCOUNTS PAYABLE DISTRIBUTION SHEET

PAGE ____ OF ____

STAPLE TO BACK OF INVOICE

VENDOR CODE		
NUMBER	SUB	CK.
14-19	20-22	23

VOUCHER		DUE DATE			PURCHASE ORDER OR RECEIVING REPORT
MO.	NUMBER	MO.	DAY	YR.	
24-25	26-31	32	33-34	35	36-43
01	000342	01	30	76	053-07611

LAST EIGHT CHARACTERS OF VENDOR'S INVOICE
– IF NONE –
USE INVOICE DATE

DIV.	CONTROL CENTER			GENERAL LEDGER ACCOUNT	PRODUCT CODE						WEIGHT OR QUANTITY	NET DISTRIBUTION AMOUNT	* CASH DISCOUNT	INVOICE NUMBER
	MAJOR	MINOR	COST		GROUP	JOB NO. CODE	JOB NO. CONT.	V	C	SUB				
44-45	46-49	50-53	54-56	57-62	63-65	66-74		75	76	77-81	82-91	92-100	101-106	107-114
30	053	54		96220								2445 30	24 70	9053

SUBMITTING DIVISION NO. 30 | ORIGINATING LOCATION NO. 153
REQUIRED ONLY IF DIFFERENT FROM DIV. AND MAJOR CODING ABOVE

Dp

JAN 23 1976

* EARNED CASH DISCOUNTS MUST BE SHOWN NEXT TO APPLICABLE INVOICE NUMBER.

APPROVAL SIGNATURE

Attachment E

Allied Chemical

Specialty Chemicals Division
Margaret and Bermuda Streets
Philadelphia, Pennsylvania 19137
JEfferson 3-3000

R.F.M.
AUG 18 1977

August 15, 1977

Mr. Stanley Laskowski
Enforcement Division
U.S. Environmental Protection Agency
Region III
6th and Walnut Streets
Philadelphia, Pennsylvania, 19106

SUBJECT: EPA Reference 3EN31

Dear Mr. Laskowski:

With reference to S. R. Wassersug's letter of July 11, 1977, we submit the attached information pertaining to the hauling and/or disposal of waste chemicals from the Frankford Plant. The following contractors have been employed for this purpose during the past two years:

1) Quickway Trash Removal Company
   3900 South Orthodox Street
   Philadelphia, Pennsylvania, 19137

2) Rollins Environmental Services
   P.O. Box 221
   Bridgeport, New Jersey 08014

3) Matlack, Inc.
   10 West Baltimore Avenue
   Lansdowne, Pennsylvania 19050

4) Mobil Hydro Hydraulics, Inc.
   Spring Mill Road
   Devault, Pennsylvania 19432

The chromium hydroxide sludge generated in the cooling tower blowdown waste treatment facility is hauled to the G.R.O.W.S. landfill in Morrisville, Pa. by the Quickway Trash Removal Company. It should be noted that the Pennsylvania Department of Environmental Resources' approval for disposal of this material at G.R.O.W.S. landfill was received on 12/9/76. As shown in Attachment 1, Quickway has removed 14,000 gallons of sludge to date.

Rollins Environmental Services has removed approximately 74,000 gallons of residue containing approximately 10% phenol during the period of 3/1/77 through 5/7/77. The dates and volumes of these shipments are provided in Attachment 2. At the request of Allied Chemical Corporation, Rollins has provided certificates stating that the residue was disposed of in accordance with all applicable federal, state, and local regulations. In addition, the corporation has the latest copies of all operating permits issued to Rollins Environmental Services.

Approximately 4,000 gallons of wash water containing small amounts of chromium hydroxide was transported to the G.R.O.W.S. landfill on 4/4/77 by Matlack, Inc.

A purchase order was issued to Mobil Hydro Hydraulics Inc. to dispose of approximately 52,000 gallons of liquid waste from idle storage and processing tanks during the period 4/29/76 through 5/11/76 (see Attachment 3). The contractor was directed (in the purchase order) to dispose of this material at a certified dump.

If you have any questions regarding this matter, please contact Mr. William S. Turetsky at 215-533-3000 (X - 314).

Very truly yours,

M. W. Hunt

M. W. HUNT
Plant Manager

MWH:md
attach.

bcc: R. F. Manning
T. E. Todd
R. L. Fawcett
L. A. Mattioli
S. L. Elishewitz
G. E. Hollenbach
C. M. Gilpin
W. S. Turetsky
E. N. Walczak

ATTACHMENT I

WASTE DISPOSED OF AT THE GROWS LANDFILL (1,2)

Date	Approximate Volume of Transaction, Gallons
4/4/77	4000 (3)
4/7/77	2000
4/27/77	2000
5/9/77	2000
5/27/77	2000
6/16/77	2000
6/29/77	2000
7/15/77	2000
Total	18,000

NOTES:

(1) Chromium Hydroxide Sludge, generated in the Cooling Tower Blowdown Waste Treatment Facility, is hauled to the GROWS Landfill (Morrisville, Pa.) by the Qucikway Trash Removal Company.

(2) Laboratory tests have indicated that Chromium Hydroxide Sludge is a non-toxic, non-corrosive substance. Approximate composition is as follows:

$Cr(OH)_3$	1.0%
$Fe(OH)_3$	16.2%
Dirt	6.5%
Water	76.3%

(3) Clarifier wash water was hauled to the GROWS Landfill by Matlack, Inc.

ATTACHEMENT 2

WASTE DISPOSAL BY ROLLINS ENVIRONMENTAL SERVICES

Date	Volume of Each Shipment
3/1/77	4,367
3/2/77	4,645
3/3/77	4,907
3/4/77	4,854
3/7/77	4,872
3/8/77	4,804
3/9/77	4,651
3/10/77	4,747
3/11/77	4,845
3/14/77	4,761
3/22/77	4,725
3/23/77	4,736
3/24/77	4,734
3/25/77	3,322
5/7/77	9,063 (1)
Total to Date	74,033

NOTE:

(1) Includes two shipments on the same day.

ATTACHMENT 3

WASTE MATERIAL REMOVED BY MOBIL HYDRO HYDRAULICS[1]

Date	Weight of Shipment, lbs.
4/29/76	59,320
4/29/76	42,790
4/29/76	32,960
4/30/76	38,260
4/30/76	27,920
5/3/76	38,720
5/3/76	34,480
5/4/76	35,080
5/5/76	30,080
5/7/76	32,440
5/7/76	17,080
5/8/76	860
5/10/76	2,040
5/11/76	50,980
5/11/76	17,640
Total	460,650

NOTE:

(1) Liquid waste contained approximately 13,000 ppm phenol and had a pH of 11.7.

Allied Chemical

COMPANY CORRESPONDENCE

ORIGINAL (Red)

To Div: CORPORATE

From Div: SPECIALTY CHEMICALS

Location: MORRISTOWN

Location: FRANKFORD

Att'n. Of: R. F. MANNING

Date: NOVEMBER 23, 1976

Subject: FRANKFORD BOILER FEED RESIDUES - DISPOSAL AT ROLLINS ENVIRONMENTAL

NOV 24 1976

The Frankford Works wishes to dispose of boiler residue at Rollins Environmental Services in Bridgeport, N.J.

Two trial loads are planned to establish burning characteristics and thereby establish price.

Rollins Environmental Services is licensed by the State of New Jersey to handle all wastes by virtue of permits granted by New Jersey Agencies. I have reconfirmed this by conversation on 11/23/76 with R. J. Buchanan, Chief, Hazardous and Chemical Wastes.

He advises that Rollins can accept wastes from all sources. They in turn notify the State of New Jersey via a log which they are required to maintain. Mr. Buchanan stated it is not necessary for Allied to obtain permission for disposal at Rollins. This does not apply however to all landfills or processors.

In view of the above, I am recommending Frankford issue a purchase requisition to dispose of the trial loads at Rollins. I will also prepare a confirming letter to Mr. Buchanan.

Attached are copies of the Rollins permits, purchase requisition, description of the boiler feed residue, and applicable correspondence.

L. A. Mattioli

L. A. MATTIOLI

LAM:md
attach.
cc: w/attach.
W. F. Blank
R. L. Fawcett
R. Sobel
M. W. Hunt
S. L. Elishewitz
G. E. Hollenbach
W. S. Turetsky

Allied Chemical

AT

PURCHASE REQUISITION NO.

DATE	REQ. BY	BUYER	No.
NOV. 22, 1976	William S. Turetsky		56962

SHIPPING SCHEDULE	DATE PROMISED	DATE REQUIRED	DATE ORDERED	TERMS	P.O. NUMBER

F.O.B. & FREIGHT	CHANGE NUMBER

SELLER
ROLLINS ENVIRONMENTAL SERVICES
P.O. BOX 221
BRIDGEPORT, NEW JERSEY
08014

MAILING INSTRUCTIONS - PLEASE ENTER NUMBER OF COPIES

TO:	ACKN COPIES	SHIP NOT	B/L	INV.	CORR.
ABOVE ADDRESS					
"SHIP TO US AT" ADDRESS					

ENGINEERING PROJECTS
INQUIRY NO
PLANT
PROJECT
EQUIPMENT
TOTAL PRICE $
AUTHORIZED $

SHIP TO US AT

SHIP VIA & ROUTING

ITEM	QUANTITY ORD.	DESCRIPTION	PRICE
℄	80,000 #	TWO (2) TRIAL LOADS (40,000 # each) OF BOILER FEED RESIDUE TO BE REMOVED FROM THE FRANKFORD PLANT. ROLLINS TO ~~and to be~~	$1176 PROVIDE
	CERTIFICATE STATING	MATERIAL HAS BEEN disposed of in accordance with all applicable federal, state, and local regulations.	
		Refer to Letter: Harry F Smith (Rollins) to William Turetsky (Allied) 11/12/76	
		The above quote on 11/12/76 was based on ~~[illegible]~~ compositions and properties supplied to Rollins on these phenolic residues (see Letter: M.W. Hunt to Harry F. Smith 10/25/76	$1176

REMARKS (JUSTIFICATION, PACKAGING, ETC.)

APPROVE HERE
GEH
SLE
MWH
MK

CLAUSES

ITEM	DIV. OR CO	CONTROL CENTER MAJOR	CONTROL CENTER MINOR	COST CENTER	ACCOUNT	JOB. PROD., R/M CODE	QUANTITY	DISTR. AMNT.	ENGRG. CODE

LAST LOT ORDERED	DATE	P.O. NUMBER	QUANTITY	VENDOR	BY	ON HAND NOW

ENGINEERING PRINTS REQUIRED	PRELIMINARY NO	DATE	NUMBER	CERTIFIED DATE	EXPEDITE

SEND PRINTS TO	INSPECTION REQUIRED BEFORE SHIPMENT

11/16/76

ROLLINS ENVIRONMENTAL SERVICES, INC.
P.O. Box 221, Bridgeport, New Jersey 08014 (609) 467-3100
Subsidiary of RLC Corp.

Rollins

November 12, 1976

Mr. William Turetsky
Allied Chemical Corporation
Frankford Plant
Margaret & Bermuda Streets
Philadelphia, Pa. 19137

Dear Bill:

Based on the telephone conversation we had on November 11, 1976, explaining our operation here at the plant and our pricing practices, we would like to propose the following on the material listed in my letter of November 11, 1976.

We would like to accept a minimum of two (2) trial loads of the various materials at a treatment price of $0.10 per gallon. Based on our experience with these trial loads, we will get back to you with a firm price to be used in negotiations for a long term contract. If the heat content of the stream stays at the indicated levels, we may be able to lower the price by a few more cents per gallon.

Bill, I appreciated the opportunity I had to discuss this matter in detail with you and hope that the current arrangements allow us to set up these trial loads.

If you have any questions, please don't hesitate to give me a call.

Sincerely,

Harry Smith

Harry F. Smith, Jr.
Technical Representative

HFS/skw

TRANSPORTATION SPECIALTY CHARGES

1. Trailer Spotting Charge.....$30.00 per day (first 2 days)
   $50.00 per day (thereafter)
2. Extra Hose Charge.....$0.40/foot over 36 feet
3. Pump Charge.....$4.00
4. Stainless Steel Fittings.....$8.00
5. Delay Charges:
   (a) Vacuum Truck - $30.00 per hour
   (b) Tank or Flatbed - $17.50 per hour over one hour
6. Bobtail Rate.....75% of normal rate
7. Weighing Charge, if required to be in compliance with state weight limitations.....$5.00

Allied Chemical

Specialty Chemicals Division
Margaret and Bermuda Streets
Philadelphia, Pennsylvania 19137
JEfferson 3-3000

October 25, 1976

Mr. Harry F. Smith, Jr.
Sales Representative
Rollins Environmental Services, Inc.
P. O. Box 221
Bridgeport, New Jersey 08014

Dear Mr. Smith:

This letter confirms your October 21, 1976 telephone conversation with Mr. William Turetsky of our Process Engineering Department and provides the information which you requested regarding our plant residue. As mentioned by Mr. Turetsky, this material because of its high BTU content (122,000 BTU/Gal.) is presently used as fuel for the plant boilers. Due to its high ash content, we are in the process of evaluating other means of disposing the material and would appreciate if you could determine your disposal costs.

Should any additional information be required regarding this matter, please contact Mr. James Maracani at 215/533-3000 (X-268).

Thank you for your interest and quick response.

Sincerely,

M W Hunt

M. W. Hunt
Plant Manager

MWH:dh
Attachments

bc: W. F. Blank
S. L. Elishewitz
G. E. Hollenbach
W. S. Turetsky ✓
T. H. Insinger
N. Gutzait
J. P. Maracani
E. N. Walczak

WASTE PRODUCT SURVEY FORM No. 1 10/25/76

1. Company name and plant location.

Allied Chemical Corporation
Frankford Plant
Margaret & Bermuda Streets
Philadelphia, Pa. 19137

2. Mailing address.

Same as above.

3. Description of waste and volume.

a) Volume

64,000 gallons - one spot sale.

b) Description

Boiler feed residue in Tank M-11711. The residue contains a maximum 1.77 Wt. % ash content with an average ash content of 1.5 Wt. %.

4. Packaging information (bulk, drums, or other).

The material will be in bulk form

5. Physical Properties.

a) Physical state at 70 degrees F - liquid.

b) Viscosity at 70 degrees F - 448 centipoise*

c) Specific gravity at 60 degrees F - 1.081

d) Flash Point - 200 degrees F - 250 degrees F

e) Heat Content - 13,610 BTU/Pound

6. Chemical analysis.

a) Organically bound chlorine - 0 Wt. %

b) pH - 7.97 after adding distilled water.

c) Toxicity (high, medium, low or unknown) - high (Phenol)

NOTES:

* Fed to the boiler at 120 degrees F. The viscosity at 120 degrees F = 30 cp.

d) Identify all known components

Wt. % Volatile Components	Wt. % Non-Volatile Components (1)
None	7.7% Acetophenone 5.7% Phenol 25.8% AMS Dimer(s) 23.7% Cumyl Phenol 37.1% Ultimate Residue

e) Identify all acids and alkalies.

None

f) Identify all salts.

Na_2SO_4, Fe_3O_4, NiO, MnO, ZnO

g) Identify all metallics.

Sodium, Iron, Nickel, Manganese, and Zinc.

h) Identify all cyanides or pesticides.

None

i) Identify all carcinogens.

Unknown

j) Identify all other hazardous toxics.

Phenol

k) Identify the sulfur content in Wt. %.

Organic Sulfur $<$ 5 ppm.

NOTES:

(1) Denotes that the vapor pressure is less than 1.5 psi at 90 degrees F.

WASTE PRODUCT SURVEY FORM No. 2 10/25/76

1. Company name and plant location.

Allied Chemical Corporation
Frankford Plant
Margaret & Bermuda Streets
Philadelphia, Pa. 19137

2. Mailing address.

Same as above.

3. Description of waste and volume.

a) Volume

44,000 gallons - one spot sale.

b) Description

Boiler feed residue in Tank M-1. The residue contains an ash content of 0.41 Wt. %.

4. Packaging information (bulk, drums, or other).

The material will be in bulk form

5. Physical Properties.

a) Physical state at 70 degrees F - liquid.

b) Viscosity at 70 degrees F - 45 centipoise*

c) Specific gravity at 60 degrees F - 1.067

d) Flash Point - 200 degrees F - 250 degrees F

e) Heat Content - 13,610 BTU/Pound

6. Chemical analysis.

a) Organically bound chlorine - 0 Wt. %

b) pH - 7.86 after adding distilled water

c) Toxicity (high, medium, low or unknown) - high (Phenol)

NOTES:

* Fed to the boiler at 120 degrees F. The viscosity at 120 degrees F = 8 cp.

d) Identify all known components

Wt. % Volatile Components	Wt. % Non-Volatile Components (1)
None	7.7% Acetophenone 5.7% Phenol 25.8% AMS Dimer(s) 23.7% Cumyl Phenol 37.1% Ultimate Residue

e) Identify all acids and alkalies.

None

f) Identify all salts.

Na_2SO_4

g) Identify all metallics.

Sodium

h) Identify all cyanides or pesticides.

None

i) Identify all carcinogens.

Unknown

j) Identify all other hazardous toxics.

Phenol

k) Identify the sulfur content in Wt. %.

Organic sulfur $<$ 5 ppm

NOTES:

(1) Denotes that the vapor pressure is less than 1.5 psi at 90 degrees F.

WASTE PRODUCT SURVEY FORM No. 3 10/25/76

1. Company name and plant location.

Allied Chemical Corporation
Frankford Plant
Margaret & Bermuda Streets
Philadelphia, Pa. 19137

2. Mailing address.

Same as above.

3. Description of waste and volume.

a) Volume

102,000 gallons - one spot sale.

b) Description

A blend of residue tanks M-1 and M-11711. The mixture will contain a 1.1 Wt. % ash content.

4. Packaging information (bulk, drums, or other).

The material will be in bulk form

5. Physical Properties.

a) Physical state at 70 degrees F - liquid.

b) Viscosity at 70 degrees F - 176 centipoise*

c) Specific gravity at 60 degrees F - 1.074

d) Flash Point - 200 degrees F - 250 degrees F

e) Heat Content - 13,610 BTU/Pound

6. Chemical analysis.

a) Organically bound chlorine - 0 Wt. %

b) pH - 7.97 after adding distilled water

c) Toxicity (high, medium, low or unknown) - high (Phenol)

NOTES:

* Fed to the boiler at 120 degrees F. The viscosity at 120 degrees F = 15 cp.

d) Identify all known components

Wt. % Volatile Components	Wt. % Non-Volatile Components (1)
None	7.7% Acetophenone 5.7% Phenol 25.8% AMS Dimer(s) 23.7% Cumyl Phenol 37.1% Ultimate Residue

e) Identify all acids and alkalies.

None

f) Identify all salts.

Na_2SO_4, Fe_3O_4, NiO, MnO, ZnO

g) Identify all metallics.

Sodium, Iron, Nickel, Manganese, and Zinc

h) Identify all cyanides or pesticides.

None

i) Identify all carcinogens.

Unknown

j) Identify all other hazardous toxics.

Phenol

k) Identify the sulfur content in Wt. %.

Organic sulfur $<$ 5 ppm

NOTE:

(1) Denotes that the vapor pressure is less than 1.5 psi at 90 degrees F.

WASTE PRODUCT SURVEY FORM No. 4 10/25/76

1. Company name and plant location.

Allied Chemical Corporation
Frankford Plant
Margaret & Bermuda Streets
Philadelphia, Pa. 19137

2. Mailing address.

Same as above.

3. Description of waste and volume.

a) Volume

Approximately 100,000 gallons/year.

b) Description

A sample of the Ultimate Batch Still, V-304A, residue taken on October 16, 1976.

4. Packaging information (bulk, drums, or other).

The material will be in bulk form

5. Physical Properties.

a) Physical state at 70 degrees F - liquid.

b) Viscosity at 70 degrees F - 12 centipoise*

c) Specific gravity at 60 degrees F - 1.077

d) Flash Point - 200 degrees F - 250 degrees F

e) Heat Content - 13,610 BTU/Pound

6. Chemical analysis.

a) Organically bound chlorine - 0 Wt. %

b) pH - 6.76 after adding distilled water

c) Toxicity (high, medium, low or unknown) - high (Phenol)

NOTES:

* Fed to the boiler at 120 degrees F. The viscosity of 120 degrees F = 8 cp.

d) Identify all known components

Wt. % Volatile Components	Wt. % Non-Volatile Components (1)
None	35.5% Acetophenone
	28.5% Phenol
	6.7% Alpha-Methylstyrene Dimer(s)
	2.4% Cumyl Phenol
	26.9% Ultimate Residue

e) Identify all acids and alkalies.

None

f) Identify all salts.

Na_2SO_4, Fe_3O_4, NiO, MnO, ZnO

g) Identify all metallics.

Sodium, Iron, Nickel, Manganese, and Zinc

h) Identify all cyanides or pesticides.

None

i) Identify all carcinogens.

Unknown

j) Identify all other hazardous toxics.

Phenol

k) Identify the sulfur content in Wt. %.

Organic Sulfur $<$ 5 ppm

NOTE:

(1) Denotes that the vapor pressure is less than 1.5 psi at 90 degrees F.

Rollins

Rollins Environmental Services, Inc.
P.O. Box 221, Bridgeport, New Jersey 08014 (609) 467-3100
Another of the Rollins International Companies

HARRY F. SMITH, JR.
TECHNICAL REPRESENTATIVE

Rollins Environmental Services, Inc.
P.O. Box 221, Bridgeport, New Jersey 08014 (609) 467-3100

For your information we are providing you with the various permit numbers that we currently possess.

1. New Jersey Department of Environmental Protection (NJDEP) #S-9-73-4725

2. National Pollutant Discharge Elimination System (NPDES) #NJ0005240

3. Delaware River Basin Commission (DRBC) Docket #D-69-152-3

4. New Jersey Bureau of Solid Waste Management Code #2200N2694

5. Federal Identification #231-070-4900

Should you have any further questions, please do not hesitate to contact us.

Sincerely,

Richard S. Sernyak/wjw

Richard S. Sernyak
Sales Manager

RSS/wjw

WP2
Dec. 73

STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION OF THE STATE OF NEW JERSEY

Permit No. S-9-73-4725

CERTIFICATION APPROVING APPLICATION OF
Rollins Environmental Services, Inc.
P. O. Box 221, Bridgeport, New Jersey

for permission to construct industrial waste treatment and disposal facilities (Off Highway #322, approximately one mile east of Bridgeport) (41,250 g.p.d.)

in the Township of Logan, New Jersey

Date March 5, 19 74

An application (*) having been duly made to the State Department of Environmental Protection of the State of New Jersey, pursuant to the applicable provisions of Title 58 of the Revised Statutes of New Jersey for the approval of conditions under which

Rollins Environmental Services, Inc.
P. O. Box 221, Bridgeport, New Jersey

proposes to construct industrial waste treatment and disposal facilities consisting of a series of raw waste collection and holding tanks, imperviously lined pretreatment and storage basins, thermal incinerator with stack scrubber, heated high-rate trickling filter with recirculation pump, activated sludge extended aeration basin with clarifier and return sludge pump, final reactor-clarifier, final holding and equalization basin with impervious lining, discharge pumps, flow meter and recorder, storm water runoff catch basin followed by settling and equalization ponds, sludge conditioning system and disposal area, with appurtenances to serve the aforementioned area as shown on white prints identified as "70 ft. Trickling Filter"; five in number; three dated November 28, 1973; and two dated November 29, 1973; all received November 30, 1973; and according to white prints identified as "Rollins-Purle Inc. Logan Township, New Jersey, Engineering Flow Diagram Scrubber Modification;" four in number; one dated September 13, 1973; one dated November 21, 1972; one dated August 27, 1973; one dated June 8, 1973; all received September 13, 1973; and approved by the Department of Environmental Protection of the State of

Permit No.: NJ 0005240

Name of Permittee: Rollins Environmental Services, Inc.

Effective Date: July 31, 1974

Expiration Date: July 31, 1979

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT

DISCHARGE PERMIT

In reference to the above application for a permit authorizing the discharge of pollutants in compliance with the provisions of the Federal Water Pollution Control Act, as amended by the Federal Water Pollution Control Act Amendments of 1972, P.L. 92-500, October 18, 1972 (33 U.S.C. §1251-1376) (hereinafter referred to as "the Act"), Rollins Environmental Services, Inc., P.O. Box 2349, Wilmington, Delaware 19899

(hereinafter referred to as "the permittee")

is authorized by the Regional Administrator, Region II, U. S. Environmental Protection Agency

to discharge from its Logan Plant located at Logan Township, Gloucester County, New Jersey

to Raccoon Creek and into the Delaware River

in accordance with the following conditions.

DELAWARE RIVER BASIN COMMISSION
P. O. BOX 360
TRENTON, N. J. 08603.

File

Project Review

NOTICE OF COMMISSION ACTION

June 19, 1975

Docket No. D-69-152-3(amended)

Project Sponsor: Rollins Environmental Services, Inc.
P.O. Box 221
Bridgeport, New Jersey 08014

Project Description: Waste treatment facilities at Logan plant site in Logan Township, Gloucester County, N.J.

Referred by: Direct

Action by Commission:

Approved amendment to docket action D-69-152-3 dated July 31, 1974.

Explanatory Note:

This action has been taken by the Commission in accordance with its responsibilities under Section 3.8 of the Delaware River Basin Compact. The Commission maintains a comprehensive water resources plan for the Delaware River Basin and reviews water resources projects proposed by other public and private agencies. Review of projects enables the Commission to prevent conflicts among water users and to protect the integrity of the Comprehensive Plan.

W. Brinton Whitall
W. Brinton Whitall, Secretary

enc.
cc: David J. Bardin

Received 6/23/75

VSW 001

NEW JERSEY STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF SOLID WASTE MANAGEMENT
P.O. BOX 2807 TRENTON, N.J. 08625

REGISTRATION STATEMENT FOR A SOLID WASTE FACILITY

Section A

INSTRUCTIONS – Read Carefully — Type or Print Only

1. Corrections to Section B are to be made in Section C. New applicants start in Section C.
2. Answer all questions on this and Operational Statement for a Solid Waste Facility.
3. Submit fee payable to "Treasurer, State of New Jersey". Refer to N.J.A.C. 7:26-4 for fee.
4. Send all completed forms and fee to:

New Jersey State Department of Environmental Protection
Bureau of Solid Waste Management
P.O. Box 2807 Trenton, New Jersey 08625

Section B

1. 0809D 609-467-3100
2.
3. ROLLINS PURLE INC.
4. P.O. BOX 221
4. LOGAN TWP.
5. BRIDGPORT NJ 08014

1. Registration Number — Telephone Number
2. Applicant's Name
3. Company or Trade Name
4. Street Address
5. City — State — Zip Code

Note – Above information was given by you last year. If corrections are to be made, correct the entire invalid line in Section C, below. If there are no corrections, go to Section D.

Section C

Corrections to Section B or New Applicants. Enter corrections on proper lines.

1. Registration Number ..... Telephone No. — 1. 08369001 (609) 467-3100
2. Applicants Name (Last First Init.) ..... — 2. Ashby, Cecil E.
3. Company or Trade Name ..... — 3. Rollins Environmental Services, I
4. Street Address ..... — 4. Rt. 322
5. City State Zip Code ..... — 5. Bridgeport, New Jersey 08014

Section D

1. Person having prime administrative authority or person to be contacted in an emergency.

1A. Name → Ashby, Jr. (LAST) Cecil (FIRST) E. (INIT.)

1B. Area Code – Telephone Number → (609) 467-3100

2. Check your type Organization. (Check only One)

→ 2A. ☐ Proprietor — 2B. ☐ Partnership
2C. ☒ Incorporated — 2D. ☐ Municipality
2E. ☐ County — 2F. ☐ Unit of State Government
2G. ☐ Authority — 2H. ☐ Other (Explain on Separate Sheet

Section E

1. Solid Waste Facility Data

1A. Facility Name → Rollins Environmental Services, Inc.
1B. Facility Street Address → P. O. Box 221 Rt 322
1C. Facility Municipality/City → Bridgeport, New Jersey 08014
1D. Facility County → Gloucester

2. Estimated Remaining Life of this Facility. (Answer All)

2A. Years → 25
2B. Tons → 99,000,000
2C. Acre/Feet →

FOR OFFICE USE

→ 3. This property is ☐ Owned or ☒ Leased by Applicant?
If Leased complete 3A thru 3C.

3A. Owner's Name → Prolanda Corporation (LAST) (FIRST) (INIT.)
3B. Owner's Address → 408 Route 70 East
3C. Owner's City State Zip → Cherry Hill, New Jersey 08034

4. Licensed by Public Utilities Commission → ☐ Yes ☒ No
If "Yes" give License Number →

NEW JERSEY STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF SOLID WASTE MANAGEMENT
P.O. BOX 2807 TRENTON, N.J. 08625

REGISTRATION STATEMENT FOR A SOLID/LIQUID WASTE COLLECTOR OR HAULER

ORIGINAL (Red)

Section A

INSTRUCTIONS – Read Carefully — **Type or Print Only**

1. Information in Section B is to be corrected in Section C. Correct entire line if information given is incorrect. New applicants start application in Section C.
2. Answer all questions in Section D. Incomplete applications will be returned.
3. Complete Vehicle Registration Statement and Operational Statement.
4. Submit fee payable to "Treasurer, State of New Jersey". Refer to N.J.A.C. 7:26-4 for fee schedule.
5. Send all completed forms and fee to:

Forms may be reproduced or additional forms available from:

New Jersey State Department of Environmental Protection
Bureau of Solid Waste Management
P.O. Box 2807 Trenton, New Jersey 08625

COMPLETE AND RETURN THIS FORM AT ONCE - DO NOT PAY UNTIL BILLED

Section B

Information in this Section was supplied by you last year. Correct in Section C.

1. 22002694
2. INCORPORATED
3.
   - 3A. NEW JERSEY GLOUCESTER
   - 3B. 03-20-69
   - 3C. UNITED STATES CORP
   - 3D. 60 WALL ST
   - 3E. NEW YORK NY 10005
   - 3F. 215-735-9595
4. FEID 231704900
5. ASHBY, CECIL E
6. ROLLINS ENVIRONMENTAL SERVICES
7. PO BOX 221
8. BRIDGEPORT NJ 08014
9. 609-467-3100

1. Bureau of Solid Waste Management Number
2. Type Organization *(See Below)
3. Corporate or Partnership Data (if any)
   - 3A. Registered in State County
   - 3B. Date of Filing
   - 3C. Agents Name (Last First Init.)
   - 3D. Agents Address
   - 3E. Agents City State Zip Code
   - 3F. Agents Area Code Telephone Number
4. Applicants Federal Employer ID or Soc. Sec. #
5. Applicants Name (Last First Init.)
6. Company or Trade Name
7. Street Address
8. City State Zip Code
9. Applicants Area Code Telephone No.

*If corrected it must be one of the following – proprietor, partnership, incorporated, municipality, county, state government, authority, Agent of Federal Government, homeowner or other.

Section C

Corrections to Section B or New Applicants. Enter corrections on proper lines.

1. Bureau of Solid Waste Management Number ..... 1. _____
2. Type or Organization *(See Below) ..... 2. _____
3. Corporate or Partnership Data (if any)..... 3. _____
   - 3A. Registered in State County..... 3A. _____
   - 3B. Date of Filing..... 3B. _____
   - 3C. Agents Name (Last First Init.)..... 3C. _____
   - 3D. Agents Address..... 3D. _____
   - 3E. Agents City State Zip Code ..... 3E. _____
4. Applicants Federal Employer ID or Soc. Security No.. 4. ☐ FEID or ☐ SS _____
5. Applicants Name (Last First Init.) ..... 5. _____
6. Company or Trade Name..... 6. _____
7. Street Address..... 7. _____
8. City State Zip Code ..... 8. _____
9. Applicants Area Code Telephone Number.... 9. _____

*If entered it must be one of the following – proprietor, partnership, incorporated, municipality, county, state government, authority, Agent of Federal Government, homeowner or other.

Office Use

NEW JERSEY DEPT. OF ENVIRONMENTAL PROTECTION
BUREAU OF SOLID WASTE MANAGEMENT

3978	XHF110	NJ
REGISTRATION NO.	LICENSE NO.	STATE

This is to certify that: 231704900

ASHBY, CECIL E
ROLLINS ENVIRONMENTAL SERVICES
PO BOX 221
BRIDGEPORT NJ 08014

has an approved registration for a Solid/Liquid Waste Collector/Hauler issued by N.J.D.E.P.

Bernhardt F. Lind

BUREAU OF SOLID WASTE MANAGEMENT

3978AC
CERT. NO.

COLLECTOR HAULER

6/30/77
EXPIRATION DATE

NEW JERSEY DEPT. OF ENVIRONMENTAL PROTECTION
BUREAU OF SOLID WASTE MANAGEMENT

3978 — REGISTRATION NO. | XHF98G — LICENSE NO. | NJ — STATE

This is to certify that: 231704900

ASHBY, CECIL E
ROLLINS ENVIRONMENTAL SERVICES
PO BOX 221
BRIDGEPORT NJ 08014

has an approved registration for a Solid/Liquid Waste Collector/Hauler issued by N.J.D.E.P.

Bernhardt F. Lis

FOR THE BUREAU OF SOLID WASTE MANAGEMENT

3978AB
CERT NO

COLLECTOR HAULER
6/30/77
EXPIRATION DATE

NEW JERSEY DEPT. OF ENVIRONMENTAL PROTECTION
BUREAU OF SOLID WASTE MANAGEMENT

3978 — REGISTRATION NO. | CL23688 — LICENSE NO. | NJ — STATE

This is to certify that: 231704900

ASHBY, CECIL E
ROLLINS ENVIRONMENTAL SERVICES
PO BOX 221
BRIDGEPORT NJ 08014

has an approved registration for a Solid/Liquid Waste Collector/Hauler issued by N.J.D.E.P.

Bernhardt F. Lis

FOR THE BUREAU OF SOLID WASTE MANAGEMENT

3978AD
CERT NO

COLLECTOR HAULER
6/30/77
EXPIRATION DATE

NEW JERSEY DEPT. OF ENVIRONMENTAL PROTECTION
BUREAU OF SOLID WASTE MANAGEMENT

3978 — REGISTRATION NO. | XF243H — LICENSE NO. | NJ — STATE

This is to certify that: 231704900

[illegible] CECIL [illegible]
[illegible] ENTAL SERVICES
[illegible]
[illegible] for a [illegible]d/Liquid Waste Collector/
[illegible]

Bernhardt F. Lis

FOR THE BUREAU OF SOLID WASTE MANAGEMENT

3978AA
CERT. NO.

COLLECTOR HAULER
[illegible]30/77
EXPIRATION DATE

NEW JERSEY DEPT. OF ENVIRONMENTAL PROTECTION
BUREAU OF SOLID WASTE MANAGEMENT

22002694	CL23688	NJ
REGISTRATION NO	LICENSE NO.	STATE

This is to certify that: 231704900

ASHBY, CECIL E
ROLLINS ENVIRONMENTAL SERVICES
PO BOX 2_1
BRIDGEPORT NJ 08014

has an approved registration for a Solid/Liquid Waste Collector/Hauler issued by N.J.D.E.P.

Bernhardt F. Lis

FOR THE BUREAU OF SOLID WASTE MANAGEMENT

07559
CERT. NO.

COLLECTOR HAULER

6/30/77
EXPIRATION DATE

ORIGINAL (Red)

ATTACHMENT 4

December 2, 1977

TO: Ms. Mary Burns - Record Center - CRL-G

SUBJECT: Camden Works

Returned herewith is the Record Center carton of Camden Works files that you were kind enough to send to me for review.

The following files, and my suggestions for retention are:

1.	Camden Shutdown	Retain for as long as Law decides.
2.	Bid Specification, Camden Demolition, Job #10188	Prepared by Corporate Engineering (Construction). Determine if they have on file; if so, I see no need to retain this copy.
3.	Budgets-1970, 71, 72, 73, 74	These are not the approved budgets. Determine if these Budgets are retained by ICD Controller; if so, I see no need to retain these copies.
4.	Insurance	Certificate of Insurance-year 1973-74. Determination to be made by Law/Insurance if necessary to retain.
5.	Annual Survey of Manufacturers	1972, 1973 replies to Corporate Controllers. Determine if in their files; if so, I see no need to retain this file.
6.	Surveys - Energy	Information in file appears to have been submitted to Corporate Purchasing. Determine if in their files; if so, I see no need to retain this file.

7.	License for Plant	Pencil copy; no other paperwork in file. See no need to retain.
8.	Profit Improvement Plan	Manual only in Camden file. I have discarded the file, as we have in file the POP manual.
9.	Functional Plan	Status Report 1st Quarter 1974. I see no need for this to be retained. Of course, it's your decision.
10.	Fixed Capital Register Fixed Capital Journal	1973-1974. Since the plant is inoperative, the contents are not of much value today. However, please check Corporate Controller for their decision on retention.
11.	OSHA	Discarded contents. Contained only Dept. of Labor instructions on preparation of forms.

If I can assist further, please call.

dd

Jean Martin

C437 (6-73)

RECORDS TRANSFER AND RETENTION SCHEDULE

DIVISION	DEPARTMENT	SECTION	SCHEDULE NO.	EFFECTIVE DATE
INDUSTRIAL CHEMICALS	CAMDEN WORKS		10-085	4-14-75

ITEM NO.	RECORD SERIES	RETENTION POLICY			SEE NOTE	OFFICE OF RECORD (IF OTHER THAN THIS OFFICE)		
		OFFICE	REC. CTR.	DESTROY		ITEM NO.	DEPARTMENT/SECTION	YEARS RETAINED
1.	BILLS OF LADING	1	1	2				
2.	BUDGETS	2	1	3				
3.	CALL REPORTS, SALESMEN'S	2	1	3				
4.	CANCELLED CHECKS	2	1/A	3/A				
5.	CATALOGS & BROCHURES	R	0	R				
6.	CORRESPONDENCE	2	1	3				
7.	COST SHEETS, MONTH END	2	1/A	3/A				
8.	COUPONS (REDEEMABLE & UNUSED)	*	0	*				
9.	CREDIT REPORTS	2	1/A	3/A				
10.	CUSTOMER'S CORRESPONDENCE	2	1	3				
11.	CUSTOMER ORDERS	2	1	3				
12.	DELIVERY SLIPS	1	1	2				
13.	DRAFTS, PAYMENT	2	1/A	3/A				
14.	DRIVERS LOGS, DAILY	1	1	2				
15.	EMPLOYEE EARNING REGISTER	3	7	10				

FOOTNOTES: Numerals refer to no. of years plus current unless stated otherwise

* = Destroy by shredding

APPROVED	DATE	APPROVED	DATE	APPROVED	DATE	LEGAL APPROVAL	DATE
L. MYNATT		Jovan Andel	12/9/74	E J MacKenzie	12/9/74	[illegible]	12/9/74

RETENTION CODES: A = Audit; P = Permanent; T = Termination; R = Revised, Superseded; S = Settlement, Cancellation; D = Disposal, Expiration

C437 (9-73)

DIVISION	DEPARTMENT	SECTION	SCHEDULE NO.	EFFECTIVE DATE
INDUSTRIAL CHEMICALS	CAMDEN WORKS		10-085	4-14-75

ITEM NO.	RECORD SERIES	RETENTION POLICY OFFICE	REC. CTR.	DESTROY	SEE NOTE	OFFICE OF RECORD (IF OTHER THAN THIS OFFICE) ITEM NO.	DEPARTMENT/SECTION	YEARS RETAINED
16.	EMPLOYEE RECORDS & FOLDERS	T+1	9	T+10				
17.	FORMS	R	0	R				
18.	FREIGHT BILLS	2	1	3				
19.	INVENTORY CARDS, MONTHLY STOCK	2	2/A	4/A				
20.	INVENTORY WORK SHEETS	2	1	3				
21.	INVOICES	2	1/A	3/A				
22.	LABORATORY NOTEBOOKS	2	P	P				
23.	MAJOR MEDICAL FILES	3	3	6				
24.	MANUALS	R	0	R				
25.	NATIONAL AIRLINE SHIPMENT NOTICES	2	1/A	3/A				
26.	PACKAGING COSTS	2	1	3				
27.	PACKAGING REPORTS	2	1	3				
28.	PAYROLL RECORDS	T+1	9	T+10				

FOOTNOTES: Numerals refer to no. of years plus current unless stated otherwise

APPROVED	DATE	APPROVED	DATE	APPROVED	DATE	LEGAL APPROVAL	DATE
		[signature]	12/9/74	[signature]	12/9/74	[signature]	12/9/74

RETENTION CODES: A = Audit; P = Permanent; T = Termination; R = Revised, Superseded; S = Settlement, Cancellation; D = Disposal, Expiration

C437 (9-73)

RECORDS TRANSFER AND RETENTION SCHEDULE

DIVISION	DEPARTMENT	SECTION	SCHEDULE NO.	EFFECTIVE DATE
INDUSTRIAL CHEMICALS	CAMDEN WORKS		10-085	4-14-75

ITEM NO.	RECORD SERIES	RETENTION POLICY			SEE NOTE	OFFICE OF RECORD (IF OTHER THAN THIS OFFICE)		
		OFFICE	REC. CTR.	DESTROY		ITEM NO.	DEPARTMENT/SECTION	YEARS RETAINED
29.	PERSONNEL LETTERS	3	3	6				
30.	POLICIES & PROCEDURES	R	0	R				
31.	PROPERTY ITEM CARDS	R+1	3	R+4				
32.	PURCHASE ORDERS	2	1	3				
33.	PURCHASE REQUISITIONS	1	1	2				
34.	RECEIVING REPORTS	2	1	3				
35.	RETURNS & ALLOWANCES	2	1	3				
36.	SAFETY MINUTES	R	0	R				
37.	SALES RECORDS	2	1	3				
38.	SHIPPING NOTICES	2	1	3				
39.	SHIPPING ORDERS	2	1	3				
40.	STATIONERY REQUISITIONS	1	1	2				
41.	STOCK ORDERS	1	1	2				
42.	STOCK TRANSFERS	2	1	3				
43.	STOCK TRANSFER VOUCHERS	2	1	3				

FOOTNOTES: Numerals refer to no. of years plus current unless stated otherwise

E J Malchenich 12/9/74

APPROVED	DATE	APPROVED	DATE	APPROVED	DATE	LEGAL APPROVAL	DATE
		[illegible]	12/9/74	[illegible]		[illegible]	12/9/74

RETENTION CODES: A = Audit; P = Permanent; T = Termination; R = Revised, Superseded; S = Settlement, Cancellation; D = Disposal, Expiration

Allied Chemical

RECORDS TRANSFER AND RETENTION SCHEDULE

C437 (9-73)

Page ___ of ___

DIVISION	DEPARTMENT	SECTION	SCHEDULE NO.	EFFECTIVE DATE
INDUSTRIAL CHEMICALS	CAMDEN WORKS		10-085	4-14-[illegible]

ITEM NO.	RECORD SERIES	RETENTION POLICY			SEE NOTE	OFFICE OF RECORD (IF OTHER THAN THIS OFFICE)		
		OFFICE	REC. CTR.	DESTROY		ITEM NO.	DEPARTMENT/SECTION	YEARS RETAINE
44.	STORE RECORDS	2	1	3				
45.	TELETYPES	1	0	1				
46.	TIME CARDS	1	1	2				
47.	TIME DISTRIBUTION REPORTS	2	1	3				
48.	TIME REPORTS	2	2	4				
49.	TRANSFER REQUEST	2	1	3				
50.	VENDORS' DELIVERY SLIPS	1	1	2				
51.	VENDORS' FILES	2	1	3				
52.	YIELDS	2	1	3				

FOOTNOTES: Numerals refer to no. of years plus current unless stated otherwise

E/Malkiewich

APPROVED	DATE	APPROVED	DATE	APPROVED	DATE	LEGAL APPROVAL	DATE
		K. Van Chodel	12/9/74	[signature]	12/9/74	[signature]	12/9/[illegible]

RETENTION [illegible]S: A = Audit; P = Permanent; T = Termination; R = Revised, Superseded; S = Settlement, Cancellation; D = Disposal, Expiration

RECORDS TRANSFER AND RETENTION SCHEDULE

DIVISION	DEPARTMENT	SECTION	SCHEDULE NO.	EFFECTIVE DATE
CORPORATE	CONTROLLER'S	SERVICES ACCOUNTING	~~01-870~~	7/2/75

ITEM NO.	RECORD SERIES	RETENTION POLICY: OFFICE	RETENTION POLICY: REC. CTR.	RETENTION POLICY: DESTROY	SEE NOTE	OFFICE OF RECORD (IF OTHER THAN THIS OFFICE): ITEM NO.	OFFICE OF RECORD: DEPARTMENT/SECTION	YEAR RETAIN
1.	ACCOUNTS PAYABLE	1	2/A	3/A	1			
2.	ACCOUNTS RECEIVABLE	1	2	3				
3.	ACTIVITY REPORTS	1	-	1				
4.	APPROPRIATION REQUESTS	2	4	6				
5.	BATCH CONTROL SLIPS	1	-	1				
6.	BILLINGS							
6.1	External	1	2/A	3/A				
6.2	Internal	1	2	3				
7.	BUDGET CONTROL SYSTEM REPORTS	1	-	1	2			
8.	BUDGET DETAIL WORKSHEETS-							
8.1	Standard Items	1	1	2				
8.2	Historic Items	-	P	P	3			
9.	BUDGETS	1	1	2				
10.	CHRONOLOGICAL FILES	1	-	1				
11.	FIXED CAPITAL HISTORICAL REGISTER	1	-	1		01-878-4.6	GENERAL ACCOUNTING	10

FOOTNOTES: Numerals refer to no. of years plus current unless stated otherwise

1. Supporting documentation is retained in this department & not sent to Accts. Payable Dept.
2. December cumulative reports retained for 5 years.
3. Review annually for reappraisal of continuing value.

APPROVED	DATE	APPROVED	DATE	APPROVED	DATE	LEGAL APPROVAL	DATE
L M Rocco	6/27/75	[illegible]	6/27/75	J Malsenick	7/2/75	[illegible]	6/27

RETENTION CODES: A = Audit; P = Permanent; T = Termination, Expiration; R = Revised, Superseded; S = Settlement, Cancellation; D = Disposal; W = While Active or Until Completed

ASI 01192
ADR/CFS

437 (2-75)

RECORDS TRANSFER AND RETENTION SCHEDULE

DIVISION	DEPARTMENT	SECTION	SCHEDULE NO.	EFFECTIVE DATE
CORPORATE	CONTROLLER'S	SERVICES ACCOUNTING	01-879	7/2/75

ITEM NO.	RECORD SERIES	RETENTION POLICY: OFFICE	RETENTION POLICY: REC. CTR.	RETENTION POLICY: DESTROY	SEE NOTE	OFFICE OF RECORD (IF OTHER THAN THIS OFFICE): ITEM NO.	DEPARTMENT/SECTION	YEARS RETAINED
2.	FIXED CAPITAL JOURNALS, ETC.	1	-	1		01-878-4.1	GENERAL ACCOUNTING	5/A
3.	GENERAL LEDGER - DETAIL/ SUMMARIES	1	-	1			CONSOLIDATED ACCTS.	
4.	JOURNAL VOUCHERS	1	1	2			CONSOLIDATED ACCTS.	
5.	LEASING							
15.1	Allied Motor Company - Summaries	1	2	3				
15.2	Bills/Credits	1	2/A	3/A				
15.3	Contracts (copies)	T + 1	-	T + 1	1			
15.4	Lease Register	1	2/A	3/A				
15.5	Mileage Statements	1	2/A	3/A				
6.	MAINTENANCE REPORTS	1	2	3				
7.	MANAGEMENT INFORMATION SYSTEM RESULTS (MONTHLY)	1	4	5				
8.	MANAGEMENT REPORTS	1	-	1				
9.	MONTHLY OCCUPANCY CHANGES	1	-	1				
10.	MOTOR OPERATIONS - FINANCIAL RESULTS/PERFORMANCE SUMMARIES	1	4	5				

FOOTNOTES: Numerals refer to no. of years plus current unless stated otherwise

If executed copies are received in this Department, they are forwarded to Law Department and other copies are kept for this Department's files.

APPROVED	DATE	APPROVED	DATE	APPROVED	DATE	LEGAL APPROVAL	DATE
[illegible]	6/26/75	[illegible]	6/27/75	[illegible]	7/2/75	[illegible]	6/27/75

RETENTION CODES: A = Audit; P = Permanent; T = Termination, Expiration; R = Revised, Superseded; S = Settlement, Cancellation; D = Disposal; W = While Active or Until Completed

ASI 01193
ADR/CFS

C437 (7-74)

RECORDS TRANSFER AND RETENTION SCHEDULE

DIVISION	DEPARTMENT	SECTION	SCHEDULE NO.	EFFECTIVE DATE
CORPORATE	CONTROLLER'S	SERVICES ACCOUNTING	01-879	7/2/75

ITEM NO.	RECORD SERIES	RETENTION POLICY: OFFICE	RETENTION POLICY: REC. CTR.	RETENTION POLICY: DESTROY	SEE NOTE	OFFICE OF RECORD (IF OTHER THAN THIS OFFICE): ITEM NO.	DEPARTMENT/SECTION	YEARS RETAINED
21.	PAID INVOICES	1	-	1			ACCTS. PAYABLE	
22.	PAYROLL REGISTERS	1	-	1			CENTRAL PAYROLL	
23.	PROJECT REPORTS	1	2	3				
24.	PURCHASE REQUESTS	1	-	1				
25.	RAIL CAR ACQUISITIONS	1	2/A	3/A				
26.	RAIL INFORMATION SYSTEM SUMMARIES	1	-	1			DISTRIBUTION DEPT.	
27.	SALARY PAYROLL DISTRIBUTION CARDS	1	-	1				
28.	STATE MILEAGE REPORTS	2	-	2			TAX DEPT.	
29.	SUPPORT FUNCTION REPORTS	1	2	3				
30.	TELECOMMUNICATION/TELEPHONE - USAGE AND BILLING REPORTS	1	-	1			COMMUNICATIONS DEPT.	
31.	VOYAGE RECORDS/TRIP TICKETS	1	2	3				
32.	WAREHOUSING							
32.1	Budgets	1	2	3				
32.2	Inventories	1	2/A	3/A				

FOOTNOTES: Numerals refer to no. of years plus current unless stated otherwise

ASI 01194
ADR/CFS

APPROVED	DATE	APPROVED	DATE	APPROVED	DATE	LEGAL APPROVAL	DATE
L M Rocco	6/26/75	J Van Audel	6/27/75	E J Stieniuk	7/2/75	[illegible]	6/17/75

RETENTION CODES: A = Audit; P = Permanent; T = Termination, Expiration; R = Revised, Superseded; S = Settlement, Cancellation; D = Disposal; W = While Active or Until Completed

DIVISION	DEPARTMENT	SECTION	SCHEDULE NO.	EFFECTIVE DATE
CORPORATE	CONTROLLER'S	SERVICES ACCOUNTING	01-879	11/4/76

ITEM NO.	RECORD SERIES	RETENTION POLICY OFFICE	REC. CTR.	DESTROY	SEE NOTE	OFFICE OF RECORD (IF OTHER THAN THIS OFFICE) ITEM NO.	DEPARTMENT/SECTION	YEA RETA
33.	ACCOUNT RECONCILIATIONS	1	2	3				
34.	CASH RECEIPTS	12 mos	-	12 mos	1		TREASURER'S DEPT.	
35.	GENERAL CORRESPONDENCE FILES (ALL SUBJECT INTERMIXED IN CHRONOLOGICAL SEQUENCE)	1	2	3				
36.	OCCUPANCY REPORTS	1	2	3				
37.	PROJECT PROPOSALS	1	2	3				
38.	SALARY DISTRIBUTION REPORTS-R&D	1	2	3				

ASI 01195
ADR/CFS

FOOTNOTES: Numerals refer to no. of years plus current unless stated otherwise

1. Transmittal memos to Treasurer's Dept. (and copies of checks for deposit); detailing accounts to be credited for amount of payment.

APPROVED	DATE	APPROVED	DATE	APPROVED	DATE	LEGAL APPROVAL	DATE
G Caras	10/26/76	[signature]	10/28/76	Mary J. Burns	11-4-76	[signature]	12/2[illegible]

RETENTION CODES: A = Audit; P = Permanent; T = Termination, Expiration; R = Revised, Superseded; S = Settlement, Cancellation; D = Disposal; W = While Active or Until Completed

Allied Chemical

RECORDS TRANSFER AND RETENTION SCHEDULE

DIVISION	DEPARTMENT	SECTION	SCHEDULE NO.	EFFECTIVE DATE
CORPORATE	CONTROLLER'S	CUSTOMER ACCOUNTING	01-877	8/23/77

ITEM NO.	RECORD SERIES	RETENTION POLICY: OFFICE	RETENTION POLICY: REC. CTR.	RETENTION POLICY: DESTROY	SEE NOTE	OFFICE OR RECORD (IF OTHER THAN THIS OFFICE): ITEM NO.	DEPARTMENT/SECTION	YEARS RETAINED
1.	ACCOUNTING INSTRUCTIONS	R	-	R			ISSUING SOURCE IN CORPORATE CONTROLLER'S DEPARTMENT	
2.	AUDITS	1	1	2				
3.	BILLING CONTROL (DAILY)	6 mos.	-	6 mos.				
4.	BILLING GUIDES	R	-	R	1			
5.	BILLS OF LADING/BILLS OF LADING MEMORANDUM	13 mos.	-	13 mos.			PLANTS	
6.	CHRONO (READING) FILES	1	-	1				
7.	COMPUTER INPUT - REPORT 3A	3 mos.	-	3 mos.				
8.	CONTAINER RECONCILIATIONS (102 B's)	13 mos.	-	13 mos.			PLANTS	
9.	CORRESPONDENCE FILES (BY ADDRESSEE)	3	-	3				
10.	CUSTOMER ANALYSIS							
10.1	Jan. - Nov.	2	-	2	2			
10.2	Dec.	5	-	5	2			
11.	CUSTOMER INVOICES	1	2/A	3/A				
12.	DOP'S BILLING REGISTER DAILY REPORT	13 mos.	-	13 mos.				
13.	ITEM DELETED 8/11/77							

ASI 01196
ADR/CFS

FOOTNOTES: NUMERALS REFER TO NO. OF YEARS PLUS CURRENT UNLESS STATED OTHERWISE, OR IF COMBINED WITH AN ALPHABETIC CODE.

1. Destroy at end of calendar year, upon receipt of new guides.
2. Retain in microfilm format (COM). Microfiche Effective Jan.'77.

APPROVED (FACILITIES AND SERVICES)	DATE	APPROVED (TAX DEPT.)	DATE	APPROVED (LAW DEPT.)	DATE
[signature]	8-22-77	[signature]	8/19/77	[signature]	8/18/77
APPROVED (FUNCTIONAL DEPT.)	DATE	APPROVED	DATE	APPROVED	DATE
[signature]	8/9/77				

C437 (9-76)

RETENTION COPIES: A = AUDIT; D = DISPOSAL; P = PERMANENT; R = REVISED, SUPERSEDED; S = SETTLEMENT, CANCELLATION; T = TERMINATION, EXPIRATION; W = WHILE ACTIVE OR UNTIL COMPLETE

Allied Chemical

SUPERSEDES SCHEDULE DATED 12-8-75

RECORDS TRANSFER AND RETENTION SCHEDULE

DIVISION	DEPARTMENT	SECTION	SCHEDULE NO.	EFFECTIVE DATE
CORPORATE	CONTROLLER'S	CUSTOMER ACCOUNTING	01-877	8/23/77

ITEM NO.	RECORD SERIES	RETENTION POLICY: OFFICE	RETENTION POLICY: REC. CTR.	RETENTION POLICY: DESTROY	SEE NOTE	OFFICE OR RECORD (IF OTHER THAN THIS OFFICE): ITEM NO.	OFFICE OR RECORD (IF OTHER THAN THIS OFFICE): DEPARTMENT/SECTION	YEA RETA
14.	FREIGHT DISTRIBUTION REGISTER	1	-	1				
15.	FREIGHT DRAFTS/ADJUSTMENTS	1	2/A	3/A				
16.	FREIGHT INPUT SHEETS (DAILY)	3 mos.	-	3 mos.				
17.	INVOICE CHARGEBACK (R.D.N.'S)	13 mos.	-	13 mos.		01-872/ 19	CENTRAL ACCTS. RECEIVABLE	3/
18.	LEGAL							
18.1	Lease Agreements (copies)	T+1	-	T+1	1			
18.2	Litigation	S	3/A	S+3/A				
19.	OPEN ORDER REORGANIZATION TOTALS - DAILY REPORT	1 mo.	-	1 mo.				
20.	PAVING (WEIGHT) TICKETS	13 mos.	-	13 mos.			PLANTS	
21.	PENDING CONSOLIDATED BILLING	2 mos.	-	2 mos.				
22.	PERSONNEL							
22.1	Absentee Report (Daily)	1	-	1				
22.2	Employees' Absence Summary	2	-	2				
22.3	Overtime Meal Allowance (copy)	1	-	1				
23.	RECORD CENTER LOG	R	-	R				

ASI 01197
ADR/CFS

FOOTNOTES: NUMERALS REFER TO NO. OF YEARS PLUS CURRENT UNLESS STATED OTHERWISE, OR IF COMBINED WITH AN ALPHABETIC CODE.

1. Executed copies are in Law Department.

APPROVED (FACILITIES AND SERVICES)	DATE	APPROVED (TAX DEPT.)	DATE	APPROVED (LAW DEPT.)	DATE
Mary J. Burke	8-22-77	[illegible]	8/19/77	[illegible]	8/19/77
APPROVED (FUNCTIONAL DEPT.)	DATE	APPROVED	DATE	APPROVED	DATE
[illegible] 8/9/77					

C437 (9-76)

RETENTION COPIES: A = AUDIT; D = DISPOSAL; P = PERMANENT; R = REVISED, SUPERSEDED; S = SETTLEMENT, CANCELLATION; T = TERMINATION [illegible]; W = WHILE ACTIVE OR UN COMPLETE

Allied Chemical

SUPERSEDES SCHEDULE DATED 12-8-75

RECORDS TRANSFER AND RETENTION SCHEDULE

DIVISION	DEPARTMENT	SECTION	SCHEDULE NO.	EFFECTIVE DATE
CORPORATE	CONTROLLER'S	CUSTOMER ACCOUNTING	01-877	8/23/77

ITEM NO.	RECORD SERIES	RETENTION POLICY: OFFICE	RETENTION POLICY: REC. CTR.	RETENTION POLICY: DESTROY	SEE NOTE	OFFICE OR RECORD (IF OTHER THAN THIS OFFICE): ITEM NO.	DEPARTMENT/SECTION	YEARS RETAINED
24.	REFERENCE MATERIAL	R	-	R				
25.	RETURNS AND ALLOWANCES							
25.1	Adjustments Other Than Plant Returns	3/A	-	3/A				
25.2	Plant Returns	13 mos.	-	13 mos.			Plants	
26.	SALES							
26.1	Sales Details Reconciliations	13 mos.	-	13 mos.				
26.2	Div. Prod. Sales Adj.	13 mos.	-	13 mos.				
26.3	Final Sales Detail (by month)	1	2/A	3/A	1			
26.4	Preliminary Sales Detail/ Sales Detail Error Listing	4 mos.	-	4 mos.				
26.5	Sales Statistics Worksheet	13 mos.	-	13 mos.				
27.	SHIPMENT DETAIL (102's)	13 mos.	-	13 mos.			PLANTS	
28.	SHIPPING ORDERS							
28.1	No. 3 Billing Copies	13 mos.	-	13 mos.			Plants	
28.2	Adjustment Billing	3/A	-	3/A				
28.3	Corporate Billing Medium	1	2/A	3/A				

ASI 01198
ADR/CFS

FOOTNOTES: NUMERALS REFER TO NO. OF YEARS PLUS CURRENT UNLESS STATED OTHERWISE, OR IF COMBINED WITH AN ALPHABETIC CODE.

1. Retain in microfilm format (COM). Microfiche Effective Jan.'77

APPROVED (FACILITIES AND SERVICES)	DATE	APPROVED (TAX DEPT.)	DATE	APPROVED (LAW DEPT.)	DATE
Mary J. Burns	8-22-77	[illegible]	8/19/77	[illegible]	8/19/77
APPROVED (FUNCTIONAL DEPT.)	DATE	APPROVED	DATE	APPROVED	DATE
[illegible]	8/7/77				

2437 (9-76)

RETENTION COPIES: A = AUDIT; D = DISPOSAL; P = PERMANENT; R = REVISED, SUPERSEDED; S = SETTLEMENT, CANCELLATION; T = TERMINATION, EXPIRATION; W = WHILE ACTIVE OR UNTIL COMPLETED

Allied Chemical

RECORDS TRANSFER AND RETENTION SCHEDULE

DIVISION	DEPARTMENT	SECTION	SCHEDULE NO.	EFFECTIVE DATE
CORPORATE	CONTROLLER'S	CUSTOMER ACCOUNTING	01-877	8/23/77

ITEM NO.	RECORD SERIES	RETENTION POLICY			SEE NOTE	OFFICE OR RECORD (IF OTHER THAN THIS OFFICE)		
		OFFICE	REC. CTR.	DESTROY		ITEM NO.	DEPARTMENT/SECTION	YEARS RETAINE
29.	WIRES	1	-	1				
30.	DAILY BILLS/CREDITS ADJUSTMENT REGISTER	13 mos.	-	13 mos.				
31.	MONTHLY FINAL BILLS & CREDITS REPORT	3/A	-	3/A				

ASI 01199
ADR/CFS

FOOTNOTES: NUMERALS REFER TO NO. OF YEARS PLUS CURRENT UNLESS STATED OTHERWISE, OR IF COMBINED WITH AN ALPHABETIC CODE.

APPROVED (FACILITIES AND SERVICES)	DATE	APPROVED (TAX DEPT.)	DATE	APPROVED (LAW DEPT.)	DATE
Mary J. Burns	8-22-77	[illegible]	8/19/77	[illegible]	8/19/77
APPROVED (FUNCTIONAL DEPT.)	DATE	APPROVED	DATE	APPROVED	DATE
[illegible] 8/9/77					

C437 (9-76)

RETENTION COPIES: A = AUDIT; D = DISPOSAL; P = PERMANENT; R = REVISED, SUPERSEDED; S = SETTLEMENT, CANCELLATION; T = TERMINATION, EXPIRATION; W = WHILE ACTIVE OR UNT COMPLETE

Environmental Affairs Bulletin

Allied Chemical Company

NO: 82-2

FROM: Director-Environmental Control

DATE: February 3, 1982

SUBJECT: POLLUTION CONTROL RECORDS RETENTION

TO: Attached Distribution Listing

Recommended Retention Periods

Recent requests by state and federal authorities, for detailed information and data on activities and events which took place in the past, indicate it will be prudent to retain certain records much longer than has been customary. The recommended minimum retention periods established by this bulletin are, therefore, quite conservative. They exceed the requirements imposed by various federal regulations for certain documents.

Attached is a list of the recommended minimum retention times for pollution control documents and records. Attachment A is the list arranged alphabetically. Attachment B is the same list categorized by the recommended retention period.

Retention of Superseded Documents

In a number of instances, it is recommended that certain documents be retained for a period of time after they have been superseded. To avoid potential confusion with the current version, it is suggested that all superseded documents being retained be clearly stamped or otherwise marked as "superseded".

Access to Retained Documents

The recommended retention periods do not imply that the documents involved should be kept in "active" files for the entire time. Rather, it means that when removed from the "active" files, they should be stored so that they may be retrieved within a day or two.

ASI 01202
ADR/CFS

Plant-Specific Documents

While comprehensive in nature, it is likely that the attached list does not address all appropriate categories of documents that may be on hand at one or more locations. Documents dealing with single plant specific subjects such as ocean dumping, on-site deepwell disposal, and mining are not listed.

Responsibility for Pollution Control Records Retention

All those with substantial pollution control duties who process the original or copies of the records covered by this instruction are responsible for their retention. While somewhat redundant, such a policy insures that one or more copies of all needed documents will be available if and when required by future events.

It is not the intent of this bulletin to change or modify the records retention practices of those employees or departments who are not directly involved in our pollution control programs.

Suggestions or Questions

Please contact Gail A. Boyle (ext. 3195) of this office if you wish to see the list expanded, or if you have any questions.

R. Sobel

R. Sobel

RS/EJS/lan
Attachments

ASI 01203
ADR/CFS

ALD 084

ATTACHMENT A

ALLIED CHEMICAL COMPANY

RECOMMENDED RETENTION PERIODS

POLLUTION CONTROL DOCUMENTS - ALPHABETICAL LISTING

(Includes all amendments, supplements, exemptions, variances, etc., related to basic document.)

CATEGORY	TYPICAL CONTENTS	SUBCATEGORY	RECOMMENDED RETENTION
Audits	Audits, inspections or reviews of Allied and non-Allied facilities. Related action plans and correspondence.	Agency	5 years
		Allied Chemical	
		Allied Corporation	
		Consultant	
		Location Self-Audit	
		Travelers	
Chronological Files	Copies of all typed documents on any subject originating from management or supervisory level employees with a substantial responsibility for pollution control matters.		10 years
Consultant Agreements and Correspondence			10 years
Contractor Agreements and Correspondence	Contracts, purchase orders, manifests, correspondence, invoices, payment drafts.	Solid Waste Disposal	50 years
		Other	10 years
General Correspondence	Pollution Control or related matters.	Allied Corporation	5 years
		Allied Chemical	
		Association (Professional, Trade)	3 years
		Customers	5 years
		Vendors, Suppliers, Other Companies	3 years
Historical Information	Old production data summaries, description of former operations.		50 years
Legal	Correspondence and documents concerning Consent Orders, Stipulations of Settlement, adjudicatory hearings, evidentiary hearings, and other legal or quasi-legal matters.	Adversarial Proceedings	10 years after related actions are completed.
		Bonds, Tax-Free	3 years after bonds are retired.
		General	5 years
		Secrecy Agreements	10 years
		Signatory Authorizations (Delegations of Authority)	5 years after superseded by revised version

ALD 085

ASI 01204
ADR/CFS

CATEGORY	TYPICAL CONTENTS	SUBCATEGORY	RECOMMENDED RETENTION
Maps	Maps, blueprints, diagrams, schematics	Aquifers	50 years
		Emission Point Sources	5 years after superseded by revised version.
		Insurance Map	
		Air or Wastewater Monitoring Stations	
		Monitoring Wells	50 years
		On-site Water Supply Wells, Surface Water Sources, Service Connections	5 years after superseded by revised version.
		Outfalls	
		PCB Items (Location Of)	
		Process Streams	
		Sewer System	
		Site Layout	
		Waste Areas (Abandoned or Active)	50 years
Monitoring Data	All source documents (e.g., pH charts, flow charts, lab analysts' log books) and derived documents such as reports and summaries.	Air	5 years
		Drinking Water (Incl.retesting)	20 years
		Groundwater	50 years
		PCBs	5 years after PCB use or storage ceases.
		Solid Waste Disposal	50 years
		Wastewater	5 years
Permits	Construction, operating, modification; local and state applications, approvals, registrations; compliance schedules, exemptions, variances.	Air	5 years after expiration of permit.
	Analytical lab state approval; construction, modifications, operating; exemptions, variances; operator certification for drinking water system.	Drinking Water	20 years
	Copy of PCB "servicer" exemption.	PCB	5 years after PCB use or storage ceases.
	Approvals for closure activities, reclamation activities, off-site disposal, on-site disposal, ponds/lagoons; hauler licenses.	Waste Disposal	50 years.

(CONTINUED NEXT PAGE)

EGORY	TYPICAL CONTENTS	SUBCATEGORY	RECOMMENDED RETENTION
Permits (CONTINUED FROM PAGE 2)	Local and state applications, permits, discharge to POTW; NPDES; construction, modification, operating; exemptions; variances; discharge of sanitary waste; operator certification for wastewater treatment plant.	Water	5 years after expiration of permit.
Plans & Programs		Abnormal Emissions Plan	5 years after superseded by new or revised version.
		Air Pollution Episode Plan	
		Analytical Quality Control Plan	
		Best Management Practices (BMP) Plan	
		Calibration (laboratory, monitoring, sampling equipment) Plan	
		Chemical Ldg/Unldg Programs	
		Chemical SPCC Plan	
		Draining & Cleaning Process	
		Emergency Action/ Disaster Plan	
		Emissions Analysis Program	
		Heels Disposal Program	
		Incident Reporting Plan	
		Internal Surveillance Program	
		Maintenance Program	
		Oil SPCC Plan	
		Oil Spill Response Team	
		PCB Decontamination Plan	
		PCB Disposal Program	
		PCB SPCC Plan	
	Include Related Cost Estimates	RCRA Facility Closure Plan	50 years
		RCRA Facility Post-Closure Plan	
		RCRA Facility Contingency Plan and all revisions	5 years after closure
		Sampling & Analysis Programs	5 years after superseded by revised version.

ASI 01206
ADR/CFS

ALD 087

TEGORY	TYPICAL CONTENTS	SUBCATEGORY	RECOMMENDED RETENTION
Pollution Control Equipment Logs	Dates, signatures of persons who calibrated, inspected or maintained: analytical instruments, sampling and monitoring equipment, composite sampling, continuous pH, flow-measuring, temperature.	Calibration	5 years
		Maintenance	5 years
Property and Real Estate	Leases, easements, covenants, property sales or purchases.	Land-Use Agreements	5 years after sale of property involved.
		Disclosure Documents	50 years
Regulations	National, state, local laws, regulations, standards, requirements.		3 years after superseded by new or revised version.
Reports	Complaints by neighbors and plant responses	Environmental Complaints	5 years
	Submittals to agencies and internal notices for abnormal emissions, discharges exceeding permitted limits, spills, etc.	Environmental Excursion/ Incident/Violation	10 years
	Submittals to agencies for air and wastewater.	Environmental Monitoring of Air & Wastewater	10 years
		Geological Studies	50 years
		Groundwater Studies	50 years
		Highlights (Weekly Environmental Affairs Newsletter)	3 years
		Plant Manufacturing Operations	10 years
		PCB Annual Documents-PCBs In-Service or Projected for Disposal 7/2/78 to present	10 years
		PCB Disposal	5 years after PCB use or storage cease
		PCB Annual Documents-Storage or Disposal Facility, 7/1/79 to present	10 years
		PCB Listing of Items	10 years
		RCRA Facility Operating Record	5 years after closure

EGORY	TYPICAL CONTENTS	SUBCATEGORY	RECOMMENDED RETENTION
Responses	Comments and replies submitted to corporate offices, trade associations or regulatory agencies regarding federal legislation; surveys, questionnaires, inventories submitted to government agencies and trade associations; task-specific replies to Corporate Environmental; includes Clean Water Act Section 308 requests; includes RCRA Eckhardt Survey.	Agency Requests	10 years
		All Others	5 years
Superfund	All pertinent information and data.	Reportable Releases	50 years
		Records of Pre-RCRA Hazardous Waste TSD Facilities	
Training	Plant instructions and directives; records of employees and contractor training and instruction.	RCRA TSD Facility Personnel	5 years after closure
		Other Personnel (Employees and contractual workers not involved with RCRA facility operation)	20 years

ALLIED CHEMICAL COMPANY

RECOMMENDED RETENTION PERIODS

POLLUTION CONTROL DOCUMENTS - LISTING BY LENGTH OF RETENTION PERIOD

(Includes all amendments, supplements, exemptions, variances, etc., related to basic document.)

RECOMMENDED RETENTION	CATEGORY	SUBCATEGORY
50 years	Contractor Agreements and Correspondence	Solid Waste Disposal
	Historical Information	
	Maps	Aquifers
		Monitoring Wells
		Waste Areas (Abandoned or Active)
	Monitoring Data	Groundwater
		Solid Waste Disposal
	Permits	Waste Disposal
	Plans & Programs	RCRA Facility Closure Plan (Including cost estimates)
		RCRA Facility Post-Closure Plan (Including cost estimates)
	Property and Real Estate	Disclosure Documents
	Reports	Geological Studies
		Groundwater Studies
	Superfund	Reportable Releases
		Records of Pre-RCRA Hazardous Waste TSD Facilities
20 years	Monitoring Data	Drinking Water (Incl. retesting)
	Training	Other Personnel (Employees and contractual workers not involved with RCRA facility operation)
	Permits	Drinking Water
10 years after related actions are completed	Legal	Legal (Adversarial Proceedings)

ASI 01209
ADR/CFS

ALD 090

ECOMMENDED RETENTION	CATEGORY	SUBCATEGORY
10 years (Continued)	Chronological Files	
	Consultant Agreements and Correspondence	
	Contractor Agreements and Correspondence	Other (excludes Solid Waste Disposal contract purchase orders, manifests, correspondence which are retained for 50 years)
	Reports	Environmental Excursion/Incident/Violation
		Environmental Monitoring of Air and Wastewater
		Plant Manufacturing Operations
		PCB Annual Documents - PCBs In-Service or Projected for Disposal 7/2/78 to present
		PCB Annual Documents - Storage or Disposal Facility, 7/1/79 to present
		PCB Listing of Items
	Responses	Agency Requests
	Legal	Secrecy Agreements
5 years after expiration of permit	Permits	Air
		Water
5 years after sale of property involved	Property or Real Estate	Land-Use Agreements
5 years after superseded by new or revised version	Legal	Signatory Authorizations (Delegations of Authority)
	Maps	Emission Point Sources
		Insurance Map
		Air or Wastewater Monitoring Stations
		On-site Water Supply Wells, Surface Water Sources, Service Connections
		Outfalls
		PCB Items (Location Of)
		Process Streams
		Sewer System
		Site Layout

RECOMMENDED RETENTION	CATEGORY	SUBCATEGORY
ears after superseded by ... or revised version (Continued)	Plans & Programs	Abnormal Emissions Plan
		Air Pollution Episode Plan
		Analytical Quality Control Plan
		Best Management Practices (BMP) Plan
		Calibration Plan (laboratory, monitoring, sampling equipment)
		Chemical Ldg/Unldg Programs
		Chemical SPCC Plan
		Draining & Cleaning Plan for Process Vessels & Lines
		Emergency Action/Disaster Plan
		Emissions Analysis Program
		Heels Disposal Program
		Incident Reporting Plan
		Internal Surveillance Program
		Maintenance Program
		Oil SPCC Plan
		Oil Spill Response Team
		PCB Decontamination Plan
		PCB Disposal Program
		PCB SPCC Plan
		Sampling & Analysis Program
5 years after PCB use or storage ceases	Reports	PCB Disposal
	Permits	PCB
	Monitoring Data	PCBs
5 years after closure	Plans & Programs	RCRA Facility Contingency Plan and all revisions
	Reports	RCRA Facility Operating Record
	Training	RCRA TSD Facility Personnel

ASI 01211
ADR/CFS

ALD 092

RECOMMENDED RETENTION	CATEGORY	SUBCATEGORY
5 years	Audits	Agency
		Allied Chemical
		Allied Corporation
		Consultant
		Location Self-Audit
		Travelers
	General Correspondence	Allied Corporation
		Allied Chemical
		Customers
	Legal	General [Excluding bonding (tax-free), Legal (Adversarial)Proceedings, Secrecy Agreements, Signatory Authorizations (Delegations of Authority)], which are listed elsewhere
	Monitoring Data	Air
		Wastewater
	Pollution Control Equipment Logs	Calibration
		Maintenance
	Reports	Environmental Complaints (neighbor complaints)
	Responses	All Others (other than agency requests)
3 years after superseded by new or revised version	Regulations	
4 years after bonds are retired	Legal	Bonding (tax-free)
3 years	General Correspondence	Association (Professional, Trade)
		Vendors, Suppliers, Other Companies
	Reports	Highlights (Weekly Environmental Affairs Newsletter)

ALLIEDSIGNAL INC.
RECORDS RETENTION GUIDELINES

May 1, 1995

ASI 01213
ADR/CFS

ALD 094

TABLE OF CONTENTS

Introduction	i
Abbreviations	ii
Accounting	2
Administration	2
Contracts	5
Engineering	7
Finance	8
Legal	12
Manufacturing	11
Marketing	12
Operations	14
Personnel	15
Research	18
Transportation	22
Corporate Policy 105	24

RECORDS RETENTION GUIDELINES

INTRODUCTION

In accordance with Corporate Policy 105, a copy of which is included at the end of this manual, we will retain only those records which are required for the effective running of our businesses and to meet our obligations to customers, employees, the government and our shareholders. Toward that end, the retention guidelines that follow provide the retention periods for all records - - - whether they are in a records retention center, a file room, a file cabinet or a computer tape.

Offices and record retention centers may use their own, individualized record retention manuals, provided they have been approved by the Law Department as being consistent with Corporate Policy 105 and these Records Retention Guidelines.

For ease of use, the Retention Schedule is organized alphabetically by types of documents and the period for retention. When documents with varying retention schedules are filed as a unit, the retention period is determined by the document with the longest requirement. Records stored for extended periods should be reviewed periodically to assure they remain and are in usable condition. Consideration should be given to conversion from paper to electronic imaging and storage for records which are scheduled for retention periods longer than 84 months.

Note that records will be discarded without further approval when the applicable retention period has expired. In any event, the "owner" of records should review them regularly and not less than annually to determine whether retention is still required. If exceptions are required due to litigation or government proceedings, the appropriate records center should be advised promptly so that the affected records will be retained until further notice. Tax records and audited financial statements are an exception and will be eliminated only after approval by the Tax Department.

Unedited files will not be accepted by records retention centers; i.e., it is the "owners" responsibility to eliminate information copies, drafts and all other unnecessary papers from the files before they are placed in a file storage.

The availability of computers has resulted in large quantities of information being stored on electronic media throughout the corporation. This can reduce storage costs, but can compound the even greater costs of record retrieval and reproduction. Thus, computerized data also should be reviewed to eliminate duplicative material and material that is no longer needed.

ASI 01215
ADR/CFS

ALD 096

The following abbreviations are used in the guidelines:

ACC	**AFTER CONTRACT CLOSEOUT**
AE	**AFTER EXPIRATION**
AO	**AT OPTION**
AS	**AFTER SETTLEMENT**
ATC	**AFTER TERMINATION OF COVERAGE**
ATE	**AFTER TERMINATION OF EMPLOYEE**
O	**ORIGINALS ONLY**
P	**PERMANENT**
UORS	**UNTIL OUTDATED/ REVISED/ SUPERSEDED/ UPDATED**
W	**WHILE USEFUL**

Any questions as well as recommendations should be addressed to the relevant records retention center or the Law Department.

ASI 01216
ADR/CFS

ALD 097

TYPE OF RECORD	RETENTION PERIOD/ YEARS
Accidents	
Claims	7 AS
Insurance Corres.	7
Record Card	7 AS
Reports	7 AS
Accounting	
Adjustments	5
Billing reports	1
Communications	1
Correspondence	5
Cost, Recaps	10
Reports, monthly	P
Tab Cards	2
Statistics	5
Working Papers	6
Accounts Payable	
Control Accounts	6
Invoices	7
Ledger Cards	P
Ledgers	P
Trial Balances	10
Vendors	2
Vouchers	7
Accounts Receivable	
Annual Review	3
Collections	7
Control Accounts	6
Control Sheets	1
Credit advices	3
Invoices	7
Ledgers	P
Registers	P
Trial Balances	7
Accounts Uncollectible, credit	7
Accumulative Balances	6
Accrual Records	2

TYPE OF RECORD	RETENTION PERIOD/ YEARS
Acquisitions	
Closing Documents	P
Disclosure	P
Drafts	UORS
Activity Reports, Salesmen	Current
Administration	
Agenda/schedules	3
Associations/memberships	10
Authorization tables	P
Bulletins/publications	7
Cafeteria	2
Calculations	2
Calendars	2
Catalogs	2
Chronological files	2
Committee meetings/ minutes	4
Consultants info	AO
Agreements	6 AE
Correspondence	6
Correspondence, Govt.	7
Correspondence, Investor	3
Correspondence, Stocks	30
Project management	2
Reading files	AO 1 or less
Receipts	AO 1 or less
Reports, monthly	AO 1 or less
Reports, year end	3
Special studies	4
Supplies	1
Advertising	
Clippings	10
Contracts	6 AE
Correspondence	5
Dept. Form Proofs	1 AO
Drawings & Art work	6
Estimates	3
Advertising	

ASI 01217
ADR/CFS

ALD 098

TYPE OF RECORD	RETENTION PERIOD/ YEARS
House Organs	P-O (Copies only as long as needed for reference)
Inquiries	1
Layouts	6
Market Data & Surveys	7
Service Reports	5
Advices, Credit or Debit	6
Agents Reports & Statements	7
Agreements (see Contracts & Agreements)	
Allocations of Expenses or Costs	7
Amortizations, Property	P
Analysis of Payroll	10
Annual Reports	P
Shareholder Relations	P
Applications, Employment (see Personnel)	
Applications for credit	5
Appraisal, Property	P
Appropriation Authorizations	20
Articles of Incorporation	P
Art work	
Appraisals	P
Provenance	P
Assignments, attachments & garnishments (see Personnel)	

TYPE OF RECORD	RETENTION PERIOD/ YEARS
Attendance records, (see Personnel)	
Audit reports	
External	P
Internal	P
Health,Safety, Environment	35 AS
Audit working papers	7
Authorizations	Generally upon obsolescence.
Badges, personnel identification	3
Balance sheets	P
Bank deposit/transfer records	7
Bank statements	6
payroll	2
Benefits, employer contributions	P
Bills of lading	3
Blueprints	P-O
Bonds (see also Securities, Stocks)	
Cancelled	P
Fidelity	P
Indemnity (Lost stock certificates)	7
Interest coupons, paid/unpaid	10
Bonds	
Ledgers	P
Registers	P
Sales or transfers	P

TYPE OF RECORD	RETENTION PERIOD/ YEARS
Stubs	P
Bonus authorization	1
Books, informational & technical	UORS
Budgets	
Allocation of costs and expenses	7
Annual cumulative reports	10
Cash reports	3
Comparison reports	2
Development	10
Forecasts	6
Master budget book & working papers	10
Planning	10
Statistical Analysis of expense	10
Summaries	5
Work sheets	5
Building & property records (see Real Estate)	—
By-laws	P
Cancelled checks (see checks, cancelled)	
Capital asset records	3 After disposal of asset
Capital equipment justification report	5
Car records, traffic	2
Cash disbursements	2 After IRS audit

TYPE OF RECORD	RETENTION PERIOD/ YEARS
Cash estimates	1
Cash payroll records	2 After IRS audit
Cash receipts	2 After IRS audit
Cash reports, daily	2 After IRS audit
Cash sales slips	2 After IRS audit
Cashiers correspondence	5
Certificates of title, vehicles	Until vehicle is sold or scrapped
Certificates of Incorporation	P
Certified checks, receipts for	2 After IRS audit
Change notices & orders	2 After completion of project
Charge slips	10
Charged off accounts, uncollectible	7
Charges & credits for construction & repairs, property	7
Check books, closed account	7
Check records	7
Check register	P
Checks, cancelled	10

TYPE OF RECORD	RETENTION PERIOD/ YEARS
Dividend	10
Payroll	7
Petty Cash	7
Vouchers	7
Chronological file	2
Cipher Books	P
City taxes, (see Taxes, City)	
Claims, closed	10 AS
Automobile	10
Freight	5
Insurance - CGL	30
Loss & damage in transit	7
Worker's compensation	30
Clippings, public relations	10
Collections, accounts receivable	7
Commissions	
Accrued	10
International	10
Commissions & sales, foreign	10
Commissions book	10
Commissions payable statement	3
Comparison of manufacturing expenses & budget	10
Compensation cases	30
Completed job folders	10
Complaints	
Customer	6

TYPE OF RECORD	RETENTION PERIOD/ YEARS
Community	10
Toxic Effects	30
Compliance reports	P
Company project, reactivated	10
Computer tapes	UORS
Construction estimates & bids	6
Consultants information	UORS
Contract progress reports	3 AE
Contract, release of	6
Contracts-General	
Advertising	6 AE
Corporate purchasing	6 AE
Customer	6 AE
Employees	6 ATE
Export	10
Land Use	30 AE
Licensing	6 AE
Loans	6 AE
Rentals	6 AE
Research	10 Unless Patent Involved
Sales	6 ATE
Service	10
Union	P
Vendor	20
Contracts-Government	
Contractual Data	4 ACC
Contracts, Government	
CDRL Information	4 ACC*

* Retain until destruction is approved by the Tax Department or 4 ACC, which ever is later.

TYPE OF RECORD	RETENTION PERIOD/ YEARS
Certifications	4 ACC*
Changes/CCPs/ECPs	
Mods	4 ACC*
Claims	4 ACC*
Contracts attachments	4 ACC*
Correspondence	4 ACC
Designs	P**
Drawings	P**
Inspection, Acceptance, Receiving and QA documents	4AC
Processes	P**
Property Records (Contract Specific)	4 ACC
Proposals	4 ACC
Request for Proposals	4 ACC
Shipping Documents	4 ACC
Specifications	P**
Subcontract Data	4 ACC
Test Data	6 ACC
Warranty Data	6 after warranty expires
Other Contractually Related Documents	4 ACC
Copyrights	2 AE
Corporate	
Acquisitions-Closing file	P
Board and Board Committee minutes	P
Corporate election ballots	20
Corporate election records	20
Corporate files	20
Corporate reports	P
Correspondence	
Accounting	5
Advertising	5
Cashiers	5

** Retain permanently if documents involve method of manufacture, overhaul or repair of a product or component. Otherwise discard in 6 yrs. ACC.

TYPE OF RECORD	RETENTION PERIOD/ YEARS
Credit	5
Engineering & technical	10
General	5
Insurance, group	2
Legal	5
Payroll	See Payroll
Pension	See Pension
Personnel	See Personnel
Production	5
Purchasing	2
Sales	3
Stock certificates, lost	P
Stock, other	10
Stores	4
Cost records & reports, contracts	2 Years after IRS audit
Costs, inventory	7
Coupons (see Financing Records)	
Credit	
Advices	6
Applications	6
Authorizations	6
Correspondence	5
Distribution summary	6
Memos, purchasing/ sales	6
Ratings & classifications	6
Reports	6
Slips	6
Daily bank statements	1
Data books, engineering	P
Debit	
Advices	6
Memos, purchasing	6
Memos, sales	6
Deeds	P

TYPE OF RECORD	RETENTION PERIOD/ YEARS
Delivery receipts & reports	3
Department form proofs	1
Departmental expense & budget statements	7
Deposit Books	7
Deposit slips	3
Depreciation schedules	P
Designs, engineering	P
Detail of charges records	6
Development authorizations	20
Direct Tracings	P
Disability & sick benefits records (see Personnel)	
Dividend checks	10
Dividend records	P
Drawings & art work, advertising	6
Drawings, engineering	P
Drivers reports	1
Earnings statements, year end	P
Easements	P
Education & training records, (see Personnel)	

TYPE OF RECORD	RETENTION PERIOD/ YEARS
Electronic data processing	
Documentation, design	4
Documentation, maintenance	AO
Documentation, program	4
Electronic data processing Instructions, operating	UORS
Employees, (see Personnel)	
Engineering	
Acceptance test results	38
Calculation files	38
Correspondence	10
Designs	P
Drawings	P-O Copies only as long as needed for reference
Log books	40
Manufacturing	20
Projects, abandoned	20
Projects, completed reports	P
Research & experiments	20
Scientific records	20
Specifications	P
Standards	UORS
Tracings	P-O
Engineering Literature	AO
Environmental	
Consultant/contractor agreements	6 AE
correspondence	10
Complaints, environmental	10
Envir. Protection Agency	13
Incidents	10
Reports	10
Spills	25
Superfund records	50
Violations	10

TYPE OF RECORD	RETENTION PERIOD/ YEARS
Maps, geological/ groundwater studies	50
Monitoring data	
Air data	25
Drinking water data	25
Groundwater data	25
Wastewater data	25
OSHA	
Citations	10
Correspondence	10
IH Monitoring	30 ATG
PCB Data	25
Permits, Air/Water	50
Plans, programs	5 AE
Pollution control	25
Waste records	50
Agreements	50
Hazardous waste	50
Permits	P
Sites	30
Transactions	50

TYPE OF RECORD	RETENTION PERIOD/ YEARS
Equipment leases	7 AE
Equipment movements, record of	4
Equipment order & sales contract	6 AE or final payment
Equipment, record of	Life of the equipment
Equipment repair	3
Estimates, advertising	3
Excise taxes (see Taxes, State)	
Expenses, departmental	5
Expenses reports individual	10

TYPE OF RECORD	RETENTION PERIOD/ YEARS
Export contracts (see Contracts)	
Export declarations	6
Export sales	7
Express receipts	4
Federal Insurance Contributions Act, (see Taxes, Federal)	
Federal taxes (see Taxes, Federal)	
Federal Trade Commission, quarterly reports	3 AO
Fidelity bonds, employees (see Insurance)	
Field Inventory (see Inventories)	
Finance	
Analyses/Studies	1
Budgets	
Authorizations	3
Control system	4
Cost reductions	2
Operating budgets	2
Performance analysis	1
Planning, budget	8
Research/development	1
Capital plan	
Appropriation request checklists	2 After IRS Audit
Expenditures	2 After IRS Audit
Construction	2 After IRS Audit

TYPE OF RECORD	RETENTION PERIOD/ YEARS
Cash management	2 After IRS audit
Cash books	P
Cash budget	2
Cash disbursements	2 After IRS audit
Cash receipts	2 After IRS audit
Cash slips	2 After IRS audit
Economic Analysis	2 After IRS audit
Investments	
Foundation	2 After IRS audit
Pension fund	2 After IRS audit
Performance studies	2 After IRS audit
Savings plans	2 After IRS audit
Sinking funds	2 After IRS audit
Letters of credit	2 AE
Reconciliation, bank	2 After IRS audit
Statements, bank	2 After IRS audit
Financial reports	
Annual	P
Balance sheet	P
Brokerage	6
Income statement	P
Financing records	P
Bond register	P
Bonds, cancelled	P
Bonds, sales or transfers	P
Financing records continued	
Capital stock	P
Applications for issuances	P
Certificates, cancelled	21

TYPE OF RECORD	RETENTION PERIOD/ YEARS
Sales or transfers	P
Transfer books or ledgers	P
Coupons, paid interest	P
Dividend records	P
Finished stock receipts	3
Fire damage reports	7
Fire inspection reports	6
Fixed assets	6 yrs. after disposition
Forecasts	6
Foreign accounts, monthly report	3
Foreign currency, conversion rates	3
Foreign liabilities & claims, reports to Federal Reserve Bank	P
Formulas, engineering & technical	P
Foundation, Corporate	
General	7
minutes	P
Foundation contributions	2 After IRS Audit
Franchises	10 AE
Franchise tax (see Taxes, State)	
Freight bills	5
Furnishings & fixtures, office	W

TYPE OF RECORD	RETENTION PERIOD/ YEARS
Group life & hospital insurance, (see Insurance)	
Health, Safety & Environmental Services	
Epidemiological studies	30
Health status reports	30 ATE
Inspections, audits	35 AS
OSHA logs	30
Permits	P
TSCA documents	30
TSCA allegations 8(c)	30
TSCA health studies 8(d)	30
TSCA reports 8(e)	30
Histories, businesses	P
House organs	P-O W
Identification passes & badges, (see Personnel)	
Information, sales products	30
Labels	P
MSDS	P
Information, vendors	2
Inquiries	5
Inspection reports, production & traffic	5
Instructions, service	Life of equipment.
Insurance, Policies	P
Insurance Applications & enrollment records	
Group	3 AE
Health & accident	P
Certificates	P
Claims, (see Claims)	
Collections & transmittal of premium	7
Correspondence	2
Data & statements	1
Periodic premium statements	7
Policies	P
Premiums	7
Releases	10 AS
Studies	10
Summary sheets	10
Survey	10
Interest coupons, paid & unpaid	7
Inventories	
Authorizations	3
Adjustments	3
Committee reports	3
Control records, stock	7
Costs	7
Equipment	3
Field	3
Materials	5 UORS
Physical	3
Plant & fixtures	P
Property	P
Recaps	7
Revaluation	6
Stock	3
Summaries	7
Journal entries	2 After IRS audit
Journals	
General	2 After IRS audit
Miscellaneous	2 After IRS audit
Notes receivable	2 After IRS

TYPE OF RECORD	RETENTION PERIOD/ YEARS
	audit
Payroll	2 After IRS audit
Purchase	2 After IRS audit
Sales	2 After IRS audit
Subsidiary	2 After IRS audit
U.S. savings bond	2 After IRS audit
Journal vouchers, employee expenses	2 After IRS audit
Labor analysis, direct & indirect	10
Labor distribution	6
Labor expenditure ledgers	15
Labor tickets, costs	2
Labor ticket tapes	4
Labor union contracts	P
Lading, bills of (see Bills of lading)	
Layouts	
Advertising	6
Machinery	UORS
Plant/office consolidation	UORS
Leases	
Equipment	7 AE or cancellation
Property	20 AE or cancellation
Ledger cards	
Accounts payable	P

TYPE OF RECORD	RETENTION PERIOD/ YEARS
Accounts receivable	6
Brokers	P
Capital assets	P
Closed out	6
Cost & control	7
Customers	P
Notes receivable	10
Ledgers	
Accounts payable	P
Accounts receivable	P
Bank	P
Bond	P
Capital assets	P
Capital stock	P
Closed out	3
Commissions	5
Cost & control	1
Credit union ledgers	P
Dividend	8
Expense	P
General	P
Leasing register	2
Note register	1
Payables	P
Payroll	50
Property account	P
Including buildings, furniture & office appliances, land, machinery, new construction machinery, new construction buildings & small tools	
Sales	1
Securities	P
Subsidiary	P
Ledger sheets, commissions	6
Ledger sheets, cost	7
Ledger sheets, notes receivable	10
Legal	
Consent Decrees, Decisions	

TYPE OF RECORD	RETENTION PERIOD/ YEARS
Injunctions, Orders	P
Contracts/agreements	
Land use	30
Licensing	6 AE
Partnership	6 AE
Secrecy	6 AE
Union, original	P
Contracts (see Contracts)	
Correspondence	6
Drafts	UORS
Intellectual Property	
Interferences	10 AE
Patents	10 AE
Trademarks	10 AE
Copyrights	P
Regulatory Affairs	6
Litigation & claims	
Complaint	P
Correspondence	6
Memorandum	W
Pleadings	6 After Final Disposition
Verdict/Decision	P
Final Order	P
Mergers & Acquisition	
Closing Papers	P
Legal correspondence	6
Legal reports	6
Library	W
Licenses	P
Licenses & permits tax (see Taxes, State)	
Liens	P
Loans, (see Contracts)	10 AE
Log Books	UORS

TYPE OF RECORD	RETENTION PERIOD/ YEARS
Lost business files	10
Machine ID Numbers	P
Mailing lists	P current lists
Maintenance, proposed	10
Maintenance, work	10
Management articles	1 AO
Managers & agents account records	8
Manuals, information and procedures	UORS
Manufactured stock records	6
Manufacturing	
Inventory	2
Labeling	6
Parts	2
Plant records, occupational health	30 ATE
Premanufacturing notification	20
Production control	
Planning	2
Scrap	2
Work orders	2
Tooling	2
Manufacturing schedules & summaries	6
Maps, engineering	P
Marketing (see Advertising)	
Business development	1
Product development	1

TYPE OF RECORD	RETENTION PERIOD/ YEARS
Distributors	2 AE
Market research	W
Market surveys	W
Presentations	2
Public relations	1
Consumer relations	2
Sales	
Cost estimates	3
Customer lists	UORS
Customer specification	6
Orders	AO
Price lists	AO
Sales reports	6
Sales slips	6
Material control analysis	3
Material requisitions, stores	3
Material & supply transfer records	3
Medical dispensary records	30 ATE
Meetings, planning	3
Meetings, strategy	3
Memo cards, accounting	Destroy after use
Memos	
Budgets	5
Construction Estimates	General 3
Engineering	20
Sales order scheduling	W
Mergers (see Acquisitions)	
Meter Applications	P
Meter readings	6
Microfilm	same retention as hard copy
Microfilm, unidentified or unreadable	destroy
Mill orders	6
Minute books	
Board of directors	P
Board Committees	P
Group meeting	5
Stockholders	P
Model folders, company product	UORS
Monthly reports, budgets	5
Mortgages	P
Negotiation file, engineering	7
Negotiations & proposals	5
Negotiations, union (working papers)	10
News releases	10
Newspaper clippings	10
Note registers	P
Notes, cancelled	15 AS
Notes, payable	15 AS
Notes receivable, schedule	15
Notes renewed, short term	15
Objectives, administrative	1
Open orders	6

TYPE OF RECORD	RETENTION PERIOD/ YEARS
Operations/Facilities	
Occupancy report	AO
Physical inventory	AO
Building operating/ test reports	3
Maintenance	3
Control system	AO
Work orders	AO
Maps	P
Building	P
Plant	P
Telephone closet wiring diagrams	UORS
Materials management	2
Scrap materials	2
Quality control	8
Testing	2
Options, property	P
Options, stock	6 AE
Order books	UORS
Order changes	6
Order copies	6
Order file, customer	6
Order records, sales	7
Order sheets	7
Order registers	7
Orders	
Acknowledgments	4
Customers	6
Parts	6
Purchase	6
Sales	6
Service	3
Work, manufacturing/ production	5
Organizational charts	UORS
Outstanding checks, records of	7
Packing instructions	3
Paid bills	8
Paid drafts	8
Parts books, vendors	UORS
Parts lists	w
Parts pricing cards	UORS
Passes, (see Personnel Identification Badges/Passes)	
Payroll	
Analysis	10
Balance reports	10
Cash	10
Census reports	1
Check listing	6
Check register	6
Checks, cancelled	7
Commissions	6 ATE
Correspondence	6
Deduction authorizations	6 ATE
Deduction, credit union	6 ATE
Distribution of taxes	10
Individual earnings	P
Journal	10
Ledger	50
Overtime reports	6
Pension payroll	6
Rate authorization	10
Register	10

TYPE OF RECORD	RETENTION PERIOD/ YEARS
Seniority & classification list	P
State reports	6
Summary	7
Tab cards	5
Taxes, (see Taxes, Payroll)	
Temporary & part-time employee records	6 ATE
Time reports (cards & sheets)	6
Unclaimed wages, list of employees	P
U.S. savings bond	6
Pension & retirement plans	P
Actuary's report	P
Annual report	5
Deduction control cards	P
Dividend records	P
Employee records	P
Insurance	8 AE
Payment authorizations	P
Settlement Register	P
Signature cards, endorsement verification	Until final settlement check is cashed.
Statements	P
Trust fund report	P
Permits	
Active use	UORS
Applications & correspondence	3
Controlled substances	6 AE
Construction	6 AE
Environmental	30
Hauling, excess loads	4 AE
Hauling, special	4 AE
Safety	10 AE
Personal property tax	
(see Taxes, State)	
Personnel	
Applications,	
Non-employee	6
In service	P
Aptitude tests	10
Assignments, attachment, garnishments	6 ATE
Attendance records	6 ATE
Benefits	
Contributions, employer	8
Distributions	10
Edits, final	P
Filings w/Gov't	5
Incentive plans	10
Loans, employee	8
Bond & stock purchase	11
Clock cards	4
Commissions/bonuses/ incentives	6 ATE
Correspondence	6
Credit cards	3
Credit union records, also Credit Union Records	
Payroll Deductions	6 ATE
Disability benefit records	6 ATE
Earnings records	6 ATE
Earnings summaries	P
Education & training	10 ATE
EEO affirmative action	AO
Applications, in-service	P
Applications, non-employee	6
AA Programs	7
Employee folders	6 ATE
Employee relations	2
Employment releases	P
Evaluations	10 ATE
Expense Authorization	6 ATE
Fidelity bonds, employees	3 ATE

TYPE OF RECORD	RETENTION PERIOD/ YEARS
Fingerprints	10 ATE
Garnishments	6 ATE
Group insurance records	P
Identification badges/ passes	3 ATE
Inactive records	4 ATE
Invention assignment forms	P
Job description	UORS
Medical histories	30 ATE
Memos	6
Military service	40
Miscellaneous file	AO
Pension records	P
Personnel, closed/sold plant	29
Physicals	30 ATE
Rate cards	4
Reports, benefits	
Account status	10
Balances, savings plan	10
Benefits	10
Close out	10
Error reports	10
Loan status	10
Plan contribution	10
Re-edit	10
Status	11
Valuation	10
Withdrawal	10
Rollovers	10
Safety or injury frequency reports	10
Salary changes	6 ATE
Savings bond records	4
Seniority records	6 ATE
Service records	P
Sick benefits	P
Sick leave	5
Termination	28
Testing	10
Time Records	6
Time-worked rewards	6 ATE
Vacations	6 ATE
Wage rate changes	6 ATE
Workers Compensation	10 ATE

TYPE OF RECORD	RETENTION PERIOD/ YEARS
Petty cash books	7
Petty cash reports	6
Petty cash vouchers	7
Petty orders	6
Photographs, reference	P
Planning file	5
Planning & progress sheets	5
Plant records	
Fixtures & equipment	3 after disposition
Performance reports	10
Protection records	2
Plans & specifications	P
Plans & specifications/ abandoned	6
Policies, administration	2
Posting proof sheets	1
Power of attorney	5
Preferred stockholders & noteholders	P
Preliminary draft of agreement	10
Preliminary negotiation of sale	10
Prepaid expenses, record of	1
Price adjustments	5
Price books	UORS

TYPE OF RECORD	RETENTION PERIOD/ YEARS
Price estimates, sales	7
Price lists & cards	UORS
Price lists, vendors	W
Price quotations	
Purchasing	3
Sales	5
Price records of purchase	P
Price sheets & catalogs, company	
Purchasing	3
Sales	P
Pricing analysis budget sheets	10
Product development & research	P
Product testing, market research	P
Product warranties	6
Production	
Correspondence	5
Cost	5
Quality control	5
Reports	6
Summaries	6
Tab cards	1
Tests	6
Tool reports	5
Work orders	5
Condition reports	10
Damage reports	7
Data	P
Proposals	5
Prospect file	current

TYPE OF RECORD	RETENTION PERIOD/ YEARS
Proxies	10
Publications	W
Public relations clippings	10
Public relations news releases	P
Public utilities tax (see Taxes, State)	
Purchase journals	6
Purchase orders	6
Capital expenditures	10
Stores	3
(Retention is for invoice, original billing copy, credits, shipping papers, bills of lading, way bills, papers & correspondence pertaining to the order.)	
Purchase records	6
Purchase registers	6
Purchase requisitions	3
Purchase returns & register	6
Purchase voucher & register	6
Purchasing correspondence	2
Purchasing price quotations	3
Purchasing, receiving reports	5
Purchasing requests for bids	5
Quality control reports	5
Quarterly tax reports, (see Taxes, State & Federal)	

TYPE OF RECORD	RETENTION PERIOD/ YEARS
Rate cards, employees	4
Real Estate	
Deeds	P
Depreciation reports	P
Easements	P
Insurance	8 AE
Inventories	P
Leases	20 AE
Mortgages	P
Options	P
Plans & specifications	P
Purchase records	P
Real estate reports	27
Rent	6 AE
Repairs & maintenance	15
Sales records	P
Surveys	P
Title	P
Real property tax (see Taxes, State)	
Receipts	
Cash	10
Certified checks	7
Delivery, traffic	3
Express charges	4
Petty cash	6
Stores	4
Receiving slips	4
Records retention schedules	P
Registers	
Accounts Receivable	P
Bond	P
Cash Book	6
Dividend	6
Draft	10
Freight claims	5
Invoice	5

TYPE OF RECORD	RETENTION PERIOD/ YEARS
Note	P
Order	7
Payroll	10
Purchase	6
Sales	6
Settlement, pension & retirement plan	P
Stock	6
Voucher	10
Registration cards	P
Release of contract	6
Relocation expense	5
Remittance statements, sales	3
Renegotiation statements & data	P
Renegotiations (see Contracts)	
Rental car files	5
Repair cost records	6
Repair reports	5
Requisitions	1
Cash	7
Check	6
Purchase	3
Stores	3
Research, (see Market research &/or Product development & research)	
Research studies	10
Reserves records	
Calculations & schedule	10
Incomplete costs, billed	

TYPE OF RECORD	RETENTION PERIOD/ YEARS
orders	1
Inventory adjustment or revaluation	6
Reserves records continued	
Receivables (including discounts, bonuses, etc.)	10
Statements & reports	6
Summaries, provisions, & charge	6
Revaluation, inventory (see Inventories)	
Salaries, annual review of	10
Salaries & wages, payment record	P
Salary changes, (see Personnel)	
Salary savings statements	4 ATE
Sales	
Analysis	6
Contracts	6
Correspondence	3
Cost analysis	7
Credit memos	6
Debit memos	6
Expenses	7
Export	6
Field salesmen	6 ATE
Invoices	6
Journals	7
Market analysis	W
Orders	6
Price adjustments	6
Price estimates	6
Price quotations	6
Promotion	3

TYPE OF RECORD	RETENTION PERIOD/ YEARS
Records	35
Remittance statements	3
Sales order log books	UORS
Sales order numbers, lists	UORS
Sales performance	6
Sales taxes (see Taxes, State)	
Sample collection letter	UORS
Schedule of insureds	P
Scrap, authorization for sale of	3
Scrap books, advertising	W
Scrap material records	3
Seal, company	UORS
Securities, (also see Bonds, Stocks)	
Ledgers	P
Listing application	P
Purchase & sales	P
Registration	P
SEC reports	P
SEC filings	P
Workpapers	1
Securities & Exchange Commission reports	P
Security applications	P
Security, plant	
Clearances	5 ATE
DOD administration files	AO
Visit requirements	UORS
Disaster plan	4 UORS

ORIGINAL (Red)

ASI 01234
ADR/CFS

ALD 115

TYPE OF RECORD	RETENTION PERIOD/ YEARS
Employee substance abuse screening	3 ATE
Investigations, closed	6
Security/damage	6
Threats/incidents	10
Security record	P
Separation reports	14
Serial number books	P
Service charge records	5
Service contracts	10
Service orders	3
Service reports	6
Shipment records	5
Shipping	
Instructions	5
Logs	5
Memos	5
Notices, master copies	5
Orders	5
Records	5
Reports	3
Slips	5
Tags	6 months
Tickets, purchasing	4
Tickets, traffic	6
Shop bills	7
Shop orders	5
Signature card (see Pension & retirement)	
Social Security, (see Taxes, Federal)	

TYPE OF RECORD	RETENTION PERIOD/ YEARS
Specifications, engineering & technical	P
Unsatisfactory	AO
Speeches	10
Stamp tax, (see Taxes, State)	
Standard schedule deviation report	5
Standards, engineering	P
State unemployment insurance report	5
State Worker's compensation insurance report	5
Statistical data, vendor performance	20
Statistical reports	P
Stenographers notebooks	optional
Stock cards	1
Stock lists	7
Stock & Stockholder records	
Capital stock, applications for issuance	P
Capital stock certificates, cancelled	21
Capital stock bills of sale	P
Capital stock, sales or transfers	P
Certificates	21 After cancellation
Certificate record book	P
Correspondence, lost	

TYPE OF RECORD	RETENTION PERIOD/ YEARS
certificates	P
Correspondence, other	10
Distribution	P
Dividends	P
Escheat records	P
Increase	P
Ledger	P
Lists	P
Minute books	P
Notes	P
Options	8
Proxies	10
Purchase	P
Register	6
Statement, inspectors	P
Subscribers, informal action	P
Subscriptions	P
Transfers	P
Voting lists	5 To be checked after 5 years by Corporate Secretary for disposition.
Stop payment notices	2
Store copies	3
Store correspondence	4
Subcontracts	6 AE
Subsidiary journals	P
Subsidiary ledgers	P
Surety bonds (see Bonds)	
Surplus assets	24
Surplus machinery & equipment, procurement & identification	P
Survey, wages	10

TYPE OF RECORD	RETENTION PERIOD/ YEARS
Surveys	
Market data	10
Property	P
Systems & procedures manuals	UORS
Tab Cards	
Accounting	2 UORS
Balance sheet ledgers	2
Inventory	2
Invoice register	5
Payroll	5
Production	1
Sales	3
Taxes	2
Trial balances	6
Tab runs -- intercompany	2 UORS
Tariffs, cancelled	6
Tariffs & rate authorities	P
Tax accruals	P
Tax agents reports	P
Taxes, real property	P
Taxes, payroll	
Employee, includes Federal, State, & local withholding taxes, state unemployment and state disability benefit plans	10
Tax Returns	P
Social Security tax data included with Employee taxes	
Employer taxes, includes Federal unemployment compensation, FICA state unemployment,	

TYPE OF RECORD	RETENTION PERIOD/ YEARS
and state disability benefit plans	10
Quarterly Social Security Wage report #941-A	P
Annual summary of payrolls & payroll tax liabilities	P
Telephone tickets, long distance	1
Test agendas	destroy after test is completed
Test & design data, engineering	20
Time & motion studies	UORS
Time payment charges	7
Titles	P
Tool design	P
Tool record & cost reports	7
Tool reports, production	5
Tool work orders	5
Tracings, (also see Blueprints)	P-O
Trade reports	10
Trademarks (also see Legal)	P
Traffic correspondence	5
Transmittals, cash	2

TYPE OF RECORD	RETENTION PERIOD/ YEARS
Transportation	
Aircraft logs	P
Aircraft manifest	P
Aircraft reports	18
Aviation logs	P
Aviation reports	AO
Receiving/shipping	
Bills of lading	AO
Export declarations	AO
Freight records	AO
Logs, transportation	AO
Manifests	AO
Sample shipments	
DOT	AO
R&D	25
TSCA	25
Waste tracking	47
Waste container data sheets	47
Vehicles, operation & maintenance	AO
Travel	P
Travel information	AO
Under or over absorbed burden analysis Budgets	Current
Unearned finance charges	7
Unearned finance schedules	7
Unemployment tax (see Taxes, State)	
Union arbitration, reference material	UORS
Union labor negotiations, working papers	10
United States Department of Labor Logs	30

TYPE OF RECORD	RETENTION PERIOD/ YEARS
United States gas tax reports	5
United States savings bonds (see Payroll)	
United States Social Security identification numbers	P
United States Treasury, Liabilities and claims, enemy controlled countries	P
Utility deposits	3 ATC
Vehicle operation & maintenance	5
Vendors contracts	6 AE
Vendors file	5
Vendors invoices	6
Vendors production progress report	3
Voucher payment authorizations	7
Voucher, Accounting	2 years after IRS Audit
Wage rate changes (see Personnel)	
Wage surveys	10
Warranties, products	P
Warrants	P
Water rights, property	P
Waybills	3

TYPE OF RECORD	RETENTION PERIOD/ YEARS
Welfare & pension plans, disclosure	P
Welfare & pension plan schedule	P
Wire transfer	10
Withholding certificates (see Taxes, Federal)	
Work orders, production	5
Work schedules	5
Working papers	10
Accounting	6
Budgets (Master budget book and working papers)	2
Cost	2
Engineering	2
Financial statements	10
Forecast	2
Insurance	4
Payroll tax	2
Profit & loss	2
Vouchers	5
Worker's compensation claims	30
Year end reports	P

TITLE: RECORDS RETENTION

POLICY: 105

DATE: May 1, 1995

1. It is the policy of the corporation to generate and retain only those papers, records and electronic data that are required for the effective running of our businesses and to meet our obligations to employees, customers, suppliers, shareowners and governmental authorities. Everyone who generates, receives or stores papers, records and electronic data at any AlliedSignal location is responsible for implementing this policy.

II. The purpose of this policy is to increase productivity and save costs by reducing the amount of information stored and the time spent retrieving required information from a morass of duplicative and other unnecessary papers, records and electronic data.

III. To carry out this policy:

a. Only the originator of information should keep a record copy; copyholders and courtesy distributees should not retain their copies.

b. Once a document has been finalized, drafts should be discarded.

c. Non-essential documents that do not require acknowledgment or follow-up and are not required for the conduct of business should be discarded.

d. Offices, file rooms and record retention centers will retain or discard documents in accordance with the Records Retention Manual approved by the Law and Tax Departments.

e. All offices are encouraged to have an annual "File Day" when files not needed for day-to-day operations are culled and only necessary materials are forwarded to records retention centers for storage in accordance with the Records Retention Manual.

f. Electronic records, micro-films and micro-fiches will be retained in accordance with this policy and the Records Retention Manual.

ASI 01239
ADR/CFS

ALD 120

IV. Record Retention Centers will discard records without further approval when the applicable retention period has expired, except when notified that records are required for litigation or due to government audits, claims or investigations. Tax records and audited financial statements are a general exception and may be discarded only after approval by the Tax Department.

V. A Records Retention Manual consistent with this policy is available from the Law Department providing retention schedules by categories of documents. All offices and record retention centers will be guided by that Manual or such other manual consistent therewith as may be approved by the Law and Tax Departments.

ALLIED Corporation

Policy

SUPERSEDES	TITLE	POLICY NO.
	Records Retention	131.0
REFERENCE Guide to Your Records Center		PAGE
APPROVED BY Senior Vice President – Operations		DATE July 1, 1975

I Retention periods for records are established on the basis of 1) legal and tax requirements, and 2) business needs of the individual departments and users of their records. All retention periods must have advance approval of the Law, Tax and Facilities and Services Departments

II Questions relating to periods for retention of records should be referred to the office of the Manager of Records Management and General Services, Facilities and Services Department, at Corporate Headquarters

III Retention schedules for individual departments and locations are prepared in the regular course of business and/or as requests are received

IV Corporate Headquarters and near-by locations are served by two Records Centers. The Guide to Your Records Center booklet outlines the procedures for storage of records in these Records Center

ASI 01200
ADR/CFS

ALD 081

Business Services

Records Retention Guidelines

AlliedSignal

ASI 01241
ADR/CFS

AlliedSignal

Memorandum
Morristown, New Jersey

To: Distribution:

In 1995 we adopted a comprehensive, corporate-wide Records Retention Policy to reduce the unneeded materials in our files, record centers, warehouses and data banks. This is a multi-million dollar concern. Progress has been made. With your leadership, we can do even better.

We have updated the Records Retention Guidelines (a copy of which is enclosed) to include the suggestions forwarded to our team and to make the Guidelines more "user-friendly". The Guidelines have also been updated to stress their applicability to our computer data banks and, in particular, to the E-Mail that is already straining the capabilities of our data systems. The retention period for E-Mail is 90 days. E-Mail that is <u>really needed</u> beyond the 90 days retention period may be transferred to a permanent file or printed as hard copy. Information Systems will be implementing programs to supplement our individual efforts.

While each of the specific guidelines is important, we would like to reemphasize three general rules:

1. Drafts should be eliminated once a final document has been finalized.

2. Copies of broadcast memos or messages should be discarded or deleted as soon as they have outlived their usefulness - - usually right after they have been read.

3. Before files are forwarded to a records center or storage, they should be edited to assure compliance with Corporate Policy 105 and the Guidelines.

Thanks for your help.

Peter M. Kreindler
Senior V.P., General Counsel & Secretary

Daniel G. Henderson
V.P. & General Manager of Business Services

7/30/97

Enclosure - Record Retention Guidelines

ASI 01242
ADR/CFS

Table of Contents

Introduction	i
Corporate Records Retention Policy 105	iii
Retention Codes	v

RECORD CATEGORIES:

Administration / Operations	
Administration - General	1
Facilities/Operations	1
Information Technology	2
Medical	2
Public Relations/Public Affairs	2
Security	2
Business Organization	
Annual Meeting	3
Board of Directors	3
Bonds	3
Foundation	3
Securities	3
Engineering	4
Finance	
Audit	6
Control	6
Investments	7
Planning & Development	8
Risk Management/Insurance	8
Taxes	9
Treasury	10
Health, Safety, Environmental & Remediation	11

Table of Contents

Human Resources / Benefits

Benefits	13
Compensation	14
Employee Relations	14
Payroll	15

Law

Agreements	16
Intellectual Property	16
Litigation & Claims	17
Real Estate	17
SEC	17

Manufacturing / Production

Inventories	18
Manufacturing/Production	18
Permits	19
Plant Records	19
Quality	19

Marketing / Sales

Advertising	20
Contracts	20
Marketing/Sales	21
Sales/Orders	22
Technical Services	22

Purchasing / Materials Management 23

Research / Development 24

Shipping / Transportation

Receiving/Shipping/Traffic	25
Transportation	25

Index 26

Directory, Records Management Services 36

ASI 01244
ADR/CFS

In accordance with Corporate Policy 105, a copy of which follows, we retain only those company records required to run our businesses effectively and to meet our obligations to customers, employees, the government and shareowners. To these ends, the Records Retention Guidelines that follow provide worldwide retention periods for particular records - - whether they are stored in a records center, off-site storage, file room, a department's file cabinet or on electronic media.

For ease of use, these Guidelines are organized by broad categories and subdivided alphabetically. When documents with varying retention periods are filed as a unit, the retention period is determined by the document with the longest requirement. Records stored for extended periods should be reviewed periodically to assure that they remain in usable condition. Conversion from paper to electronic or microfilm media should be considered for records with long retention periods.

When the end of the retention period is reached, the "owner" of the record may be notified of the impending destruction date. Unless otherwise instructed by the "owner," the destruction will proceed as indicated. If exceptions are required due to litigation, tax or other government proceedings, the appropriate Records Administrator should be advised promptly so that the affected records will be retained until further notice. Tax and Controllers' records will not be destroyed without prior approval of the Tax Department.

Unedited files should not be submitted to records centers, as it is the "owners" responsibility to eliminate information copies, drafts and all other unnecessary papers from the files before they are placed in a file for storage. Computerized data are covered by Corporate Policy 105 and should be kept or eliminated in accordance with these Guidelines. Particular attention is invited to the 90-day retention period for E-Mail. E-Mail that needs to be retained for a longer time period should be removed from E-Mail and transferred to a more permanent file.

Introduction

Sectors may use their own individualized record retention guidelines, provided they have been approved by the Law Department as being consistent with Corporate Policy 105 and these Records Retention Guidelines.

Any questions or recommendations should be addressed to the relevant Records Retention Administration or the Law Department. Printed copies of the Guidelines are available from Records Management Services, AB-3A, Morristown, NJ 07962. Electronic forms are available on the Home Page of the Corporate Controller on the Intranet.

AlliedSignal

Supersedes May 1995	Title	Policy 105
Date May 1997	Records Retention Policy	Page 1

I. It is the policy of the corporation to generate and retain only those papers, records and electronic data that are required for the effective running of our businesses and to meet our obligations to employees, customers, suppliers, shareholders and government authorities. Everyone who generates, receives or stores papers, records and electronic data at any AlliedSignal location is responsible for implementing this policy.

II. The purpose of this policy is to increase productivity and save costs by reducing the amount of information stored and the time spent retrieving required information from a morass of duplicative and other unnecessary papers, records and electronic data.

III. To carry out this policy:

a. Only the originator of information should keep a record copy; copyholders and courtesy distributees should not retain their copies.

b. Once a document has been finalized, drafts should be discarded.

c. Non-essential documents that do not require acknowledgment or follow-up and are not required for the conduct of business should be discarded.

d. Offices, file rooms and records retention centers will retain or discard documents in accordance with the Records Retention Guidelines approved by the Law and Tax Departments.

e. All offices are encouraged to have an annual "File Day" when files not needed for day-to-day operations are culled and only necessary materials are forwarded to records retention centers for storage in accordance with the Records Retention Guidelines.

f. Electronic records, microfilm and microfiche will be retained in accordance with this policy and the Records Retention Guidelines.

IV. Records Retention Centers will discard records without further approval when the applicable retention period has expired, except when notified that records are required for litigation or due to government audits, claims or investigations. Tax records and audited financial statements are a

ASI 01247
ADR/CFS

AlliedSignal

Supersedes	Title	Policy
May 1995	Records Retention Policy	105
Date		Page
May 1997		2

general exception and may be discarded only after approval by the Tax Department.

V. The Records Retention Guidelines consistent with this policy is available from the Law Department providing retention schedules by categories of documents. All officers and records retention centers will be guided by those Guidelines or such other manual consistent therewith as may be approved by the Law and Tax Departments.

The following abbreviations or codes are used in the Guidelines:

C	While current, active or in effect: i.e., until outdated, revised or superseded
	Example: C+2 means retain while current + 2 years
CY	Current year
P	Permanent
S	After settlement; until expiration of last obligation
T	Termination
X	Tax Department approval required for destruction

Records Categories	Retention Periord (Years)

ADMINISTRATION / OPERATIONS

Administration - General	
Activity Reports	
Monthly	C
Year end	3
Agenda/schedule	CY
Associations/memberships	3
Books, informational & technical	C
Cafeteria	2X
Calendars	CY
Catalogs, vendor	C
Chronological files	2
Committee meetings, minutes	C
Consultants' agreements	C+6
Correspondence	7
E-Mail	90 days
Equipment instructions, service	C
Expense & budget statements, departmental	6X
Library	C
Management articles	C
Meetings, planning, strategy	2
Objectives, administrative	1
Organization charts	10
Power of Attorney	C+5
Procedures	C
(see also Manuals, Engineering)	
Project management	2
Record retention schedules	P
Special studies	4
Supplies	CY
Warranties on purchased products	C+9
Facilities/Operations	
Building drawings	P
Building operation/test reports	3
Building specifications, originals	P
Maintenance	
Equipment history	P
Maintenance billing report	CY+1

ASI 01250
ADR/CFS

Retention Codes: C=While current, active or in effect; CY=Current year; S=After Settlement; T=Termination; P=Permanent; X=Tax Department approval required

Records Categories	Retention Periord (Years)

Administration - Facilities/Operations, continued

Maintenance, continued	
Preventive maintenance	P
Work orders	5
Meter readings, applications	6
Occupancy report	C+3
Plant layout	P
Scrap materials	2
Telephone closet wiring diagrams	C
Information Technology	
Electronic data processing documentation design, maintenance, programs	C
Equipment leases	C+6X
Equipment repair	3
Software	C+6X
Software maintenance plans	C
Medical	
Employee substance abuse screening	T+30
Medical dispensary records	T+30
Medical files	T+30
Physical exams	T+30
X-rays	T+30
Public Relations/Public Affairs	
Bulletins/publications	7
Clippings	10
News releases, clippings historical	P
News releases, Public Relations	P
Photographs, historical materials	P
Speeches	1
Security	
Disaster plan	C+4
Investigations, threats & incidents	T+6
Personnel security clearance	T+5
Plant clearances	C+3
Security correspondence	C+5
Security programs	C+5
Visitor logs	C+2

ASI 01251
ADR/CFS

Retention Codes: C=While current, active or in effect; CY=Current year; S=After Settlement; T=Termination; P=Permanent; X=Tax Department approval required

Records Categories	*Retention Periord (Years)*

BUSINESS ORGANIZATION

Annual Meeting	
Minutes (see Board of Directors)	
Official documents	P
Transcripts	P
Annual Reports	P
Art work appraisals	P
Board of Directors	
Background material	P
Board & Committee minutes	P
Certificate record book	P
Seal, company	C
Stock certificates	T+10
Bonds (see also Securities; Stocks)	
Canceled	P
Indemnity (lost stock certificates)	7
Interest coupons, paid/unpaid	10
Ledgers	P
Registers	P
Sales or transfers	P
Stubs	P
By-laws	P
Certificates of Incorporation	P
Foundation	
Contributions	7X
Minutes	P
Minute books	
(see Board of Directors)	
Securities	
Ledgers	P
Listing application	P
Options	P
Purchase & sales	P
Registration	P
Warrants	P

ASI 01252
ADR/CFS

Retention Codes: C=While current, active or in effect; CY=Current year; S=After Settlement; T=Termination; P=Permanent; X=Tax Department approval required

Records Categories	*Retention Periord (Years)*

ENGINEERING

Acceptance test procedures and results	P
Blue prints, drawings, maps, tracings	P
Calculation files, project	30
Certification/qualification documentation	P
Cipher books	P
Completed job folders	10
Completed projects reports	P
Construction estimates & bids	
Successful	30
Unsuccessful	5
Contract progress reports	T+6
Contractually required data and documents	P
Data books (site records of environmental cleanup)	50
Design manuals site drawings	
(Environmental Superfund remediation projects)	50
Design reviews, minutes	P
Designs, engineering	P
Engine assembly reports	P
Field service engineering reports	10
Formulas, engineering & technical	P
Inspection Reports	
NDT (non-destructive testing), customer	5
NDT, plant	2
Plant start-up	15
Production & traffic	5
Railcar	50
Literature, engineering	C
Log books, engineering	30
Manuals	
Information	C
Systems & procedures	C+6
Manufacturing engineering, revision authorization logs	C+6
Negotiation file	C
Photographs, engineering related	P
Planning & progress sheets	5
Project files	P
Project plans & specifications, abandoned	10

ASI 01253
ADR/CFS

Retention Codes: C=While current, active or in effect; CY=Current year; S=After Settlement; T=Termination; P=Permanent; X=Tax Department approval required

Records Categories	*Retention Periord* *(Years)*

Engineering, continued

Specifications	
Engineering	P
Material and process	P
Standards	P
Test & design data	P
Work orders and timekeeping records	C+40
Working papers	C

ASI 01254
ADR/CFS

Retention Codes: C=While current, active or in effect; CY=Current year; S=After Settlement; T=Termination; P=Permanent; X=Tax Department approval required

Records Categories	*Retention Periord (Years)*

FINANCE

Audit	
Reports and workpapers	6X
Control	
Accounts payable	
Vendor invoices, ledgers, cash disbursements and all pertinent supporting documents	7X
Wire transfers	10X
Accounts Receivable	
Company invoices, cash receipts, credit advices, uncollected accounts and all pertinent supporting documents	7X
External Reporting	
Department of Commerce reports	3
Federal Reserve Bank reports	5
Federal Trade Commission (FTC)	
Form MG report	5
Hart Scott filing (premerger SIC data)	5
Foreign ownership, control and influence (FOCI) certification to DOD and DOE (sales data)	5
Government reports	
Securities and Exchange Commission (SEC)	
Form 10-K	P
Form 10-K workpapers	10X
Form 10-Q	P
Form 10-Q workpapers	10
Form 11-K	P
Shareowner reports	
Annual report	P
Annual report workpapers	10X
Earnings press release workpapers	3
Quarterly report	P
Quarterly report workpapers	10

ASI 01255
ADR/CFS

Retention Codes: C=While current, active or in effect; CY=Current year; S=After Settlement; T=Termination; P=Permanent; X=Tax Department approval required

Records Categories	Retention Periord (Years)

Finance, continued

Fixed Capital	
Appropriation requests and related supporting documents	6X
Property and depreciation records	C+3X
General Ledger	
Bank reconciliations	6X
Currency transaction entries	6X
Employee benefit cost records and all pertinent supporting documents	P
Employee expense reports and all pertinent supporting documents	C+6X
Financial schedules and statements and supporting analysis	
Monthly reports	10
Annual reports	P
Inventory records	10X
Journal entries, account ledgers, general ledgers, trial balances and all pertinent supporting documents	P
Government contracting	
Contract support documents	C+7X
Disclosure statements	C+7X
Forecast proposals	C+7X
Incurred cost proposals	C+7X
Planning	
Capital and related supporting documents	3
Forecasts (full year)	5
Forecasts (monthly & quarterly)	2
Operating plan and departmental budgets	3
Presentations to Board of Directors	3
Presentations to security analysts	5
Special analyses	2
Strategic plan	3
Investments	
Pension and savings plan master trust statements, performance and strategy reports, investment data and all pertinent supporting documents	6X

ASI 01256
ADR/CFS

Retention Codes: C=While current, active or in effect; CY=Current year; S=After Settlement; T=Termination; P=Permanent; X=Tax Department approval required

Records Categories	*Retention Periord (Years)*

Finance, continued

Planning and Development	
Acquisition studies	2
Acquisition valuations	6
Disposition proposals	6
Disposition studies	2
Risk Management /Insurance	
Alchem	
Annual reports	7X
Assurance balance sheets	7
Interim reports	7
Policies	P
Premium statements, periodic	7
Automobile	
Accidents	S+7
Auto subrogation	6
Claims/reports	S+7
Certificates of insurance	P
Correspondence	
General	S+7
Renewal	P
Summary sheets	S+7
Earned premium statements	10
Insurance policies	P
Schedule of insurance	P
Liability/casualty, miscellaneous	P
Miscellaneous claims, releases	T+10
Premiums, general	7
Property	
Fire	S+7
Insurable value reports, schedules	S+7
Loss control reports	S+7
Replacement value reports	S+7
Surety bonds, general	S+6

ASI 01257
ADR/CFS

Retention Codes: C=While current, active or in effect; CY=Current year; S=After Settlement; T=Termination; P=Permanent; X=Tax Department approval required

Records Categories	*Retention Periord (Years)*

Finance, continued

Workers' Compensation	30
Accruals	7
Allocations	7
Claims	30
Metrics	7
State Workers' Compensation insurance	10

Taxes

Employment - all	
Returns	P
Workpapers	10X
Excise - all	
Returns	10X
Workpapers	10X
Franchise - all	
Returns	P
Workpapers	15X
Income - all	
Returns	P
Workpapers	15X
Payroll - all	
Returns	10X
Workpapers	10X
Personal Property - all	
Returns	10X
Workpapers	10X
Real Property - all	
Returns	P
Workpapers	10X
Sales - all	
Returns	10X
Workpapers	10X
Unemployment - all	
Returns	10X
Workpapers	10X

ASI 01258
ADR/CFS

Retention Codes: C=While current, active or in effect; CY=Current year; S=After Settlement; T=Termination; P=Permanent; X=Tax Department approval required

Records Categories	Retention Periord (Years)

Finance, continued

Treasury	
Debt issuance and ratings reports	S+6
Financial reports on	
cash flow, liquidity, capitalization, interest charges, income and debt composition	3
Foreign currency management reports	6X
Letters of credit	C+6
Stock & Shareowner Records	
Capital stock	
Applications for issuance	P
Certificates, canceled	10
Sales or transfers	P
Correspondence	
Official	P
Routine	2
Dividend records	P
Escheat records	P
Notes, debit instruments	P
Proxies, voted	C+10
Voting lists	2

ASI 01259
ADR/CFS

Retention Codes: C=While current, active or in effect; CY=Current year; S=After Settlement; T=Termination; P=Permanent; X=Tax Department approval required

Records Categories	*Retention Periord (Years)*

HEALTH, SAFETY, ENVIRONMENTAL & REMEDIATION

Audit reports	T+35
Working papers	C+90 days
Complaints, environmental	10
Consultant/contractor agreements	C+6X
Disaster plan	C+4
Disclosure documents	50
Environmental Protection Agency (EPA)	
Incidents	10
Reports	10
Spills	25
Superfund records	50
Violations	10
Epidemiological studies	30
FIFRA (Federal Insecticide, Fungicide & Rodenticide Act)	30
Health status reports	T+30
Information	
Products	30
Labels, product	P
MSDSs (Material Safety Data Sheets)	
AlliedSignal product MSDSs	P
Vendor MSDSs	C
Inspections, audits	T+35
Maps, geological/groundwater	50
Medical records (see Administration/Medical)	T+30
Monitoring data	
Air data	25
Drinking water data	25
Groundwater data	25
Wastewater data	25
OSHA (Occupational Safety & Health Administration) monthly reports	30
Citations (decisions, settlements, orders)	10X
Correspondence, Agencies	10X
IH Monitoring (Industrial Health)	T+30
Logs	30
PCB data	25

ASI 01260
ADR/CFS

Retention Codes: C=While current, active or in effect; CY=Current year; S=After Settlement; T=Termination; P=Permanent; X=Tax Department approval required

Records Categories	Retention Periord (Years)

Health, Safety, Environmental & Remediation, continued

Permits	
Air/Water	50
Environmental (excluding wastes)	50
Pollution control	25
Premanufacturing Notification (PMN)	P
Low volume exemptions	P
Polymer exemptions	P
Test market exemptions	P
Regulatory Affairs	6
Safety	
Fire damage reports	10
Fire inspection reports	10
Injury frequency reports	10
Permits, confined space	C+1
SARA reporting files (Superfund Amendments & Reauthorization Act)	7
EPCRA reports (Emergency Planning Community Right to Know Act)	7
TSCA allegations 8(c) (Toxic Substances Control Act)	30
TSCA documents	30
TSCA health studies 8(d)	30
TSCA reports 8(e)	30
Toxicology reports	P
Waste records	50
Agreements	50
Hazardous waste	50
Permits	P
Purchase orders	50
Sites	50
Transactions	50

ASI 01261
ADR/CFS

Retention Codes: C=While current, active or in effect; CY=Current year; S=After Settlement; T=Termination; P=Permanent; X=Tax Department approval required

Records Categories	Retention Periord (Years)

HUMAN RESOURCES / BENEFITS

Applicant flow statistics	6
Benefits	
Applications/enrollment/elections	
Group, health & accident insurance	T+3
Claims, open	
Basic hospital	C+6
Inactive medical	C+6
Self insurance	C+6
Contributions, employer	20X
Disability & sick benefit records	T+50
Distributions	T+50
Filings with Government	P
Insurance booklets	20
Pension & welfare plans, retirement plans, reports/disclosures	
Actuary's report/valuation	30
Annual report	P
Annual report workpapers & schedules	P
Deduction control records	P
Employee records	P
Plan documents	P
Statements, participant	P
Trust fund report	P
Retiree benefits	
Annuitants reports	7
HMO billings	7
Group insurance deductions	10
Supplemental & unfunded benefits (AF6 & AF7)	10
Reports, benefits accounting	
Account status reports	10
Benefit payments	10
Close out	10
Edits, final	10
Expense allocations	10
Financial control reports	10
Internal billing	10
Loan status reports	10
Participant files	T+50
Plan accounting reports (plan allocations)	20

ASI 01262
ADR/CFS

Retention Codes: C=While current, active or in effect; CY=Current year; S=After Settlement; T=Termination; P=Permanent; X=Tax Department approval required

Records Categories	Retention Periord (Years)

Human Resources/Benefits, continued

Reports, benefits accounting, continued	
Plan contribution, forfeitures & loan (CFL)	20X
Reconciliations	10
Re-edit	10
Savings plan balances, record keeper reports	T+50
Savings plan processing	P
Trust fund status	10
Unit value worksheets	20
Withdrawal	10
Compensation	
Executive compensation	T+50
Executive compensation check deposits	C+10
Incentive compensation, plans, awards, deferred	T+50
Incentive compensation payroll	T+50
Incentive compensation, restricted unit files, awards	T+50
Special compensation reports	T+50
Stock options, plans, agreements, daily trades	C+10
Stock option program salaried employees reports (SOPSE)	T+50
Consultants' agreements	C+6X
Education & training	
Tuition reimbursement/educational assistance	T+6X
Training and development	T+6
Employee agreements relating to IP and confidential information	T+25
Employee Relations folders / Human Resources summaries	T+6
Employment applications	
College recruiting	3
Executive referrals	3
In service	T+6
Non- hired	3
Resumes, solicited and unsolicited	3
Sign-off letters	3
Employment histories, current	T+50
Employment releases	T+6
EEO, affirmative action and discrimination cases	6
Job descriptions	C+10

ASI 01263
ADR/CFS

Retention Codes: C=While current, active or in effect; CY=Current year; S=After Settlement; T=Termination; P=Permanent; X=Tax Department approval required

Records Categories	*Retention Periord (Years)*

Human Resources/Benefits, continued

Labor union arbitration	T+50
Labor union negotiations, grievances, agreements	T+50
Military service	T+50
Performance appraisals	T+5
Personnel/employee files	T+50
Relocation files	7X
Rewards & recognition programs	C+3
Seniority records	T+50
Service records	T+50
Stock purchase and savings plan	T+50
Surveys	
Employee satisfaction	5
Wage	5
Termination reports	T+50
Testing, employee	T+6
Time-worked rewards	T+6
Wage rate changes	T+50
Payroll	
Assignments, attachments, garnishments and all related papers	T+6
Authorizations for deductions from employees' earnings	T+6
Checks:	
dividend	10
canceled, payroll, register, vouchers	7
Earnings records, summaries	T+50
Journal	10
Ledger	P
Pension payroll	T+50
Register (employees' earnings, deductions & net pay)	T+50
Reports to federal, state & local government agencies	6
Salaries & wages, payment record	T+50
Salary changes	T+50
Savings bond register	7
Temporary & part-time employee records	T+15
Time reports (cards & sheets)	T+50

ASI 01264
ADR/CFS

Retention Codes: C=While current, active or in effect; CY=Current year; S=After Settlement; T=Termination; P=Permanent; X=Tax Department approval required

Records Categories	*Retention Periord* *(Years)*

LAW

Agreements	
Labor	T+50
Other	C+6X
Sales and purchase	P
Antitrust notifications	7
Closing documents	P
Contracts (see Marketing/Sales)	
Correspondence	
General	7
Government agencies, to and from	7
Disclosure	C
Discovery	C
Intellectual Property	
Abandoned patent applications - (no cont. or CIP)	abandonment + 10
Assignment of inventions	C+6X (or abandonment of application + 6)
Copyrights	P
Correspondence, general	7X
Employee confidentiality and IP agreements	T+25
Inactive invention disclosures	20
Infringement opinions	life of third party patent + 6
Interference files	life of priority patent + 6
IP Agreements (license, research, jt. dev., NDA)	C+ 6
Laboratory notebooks	P
Outside (third party) submissions	30
Patent files, U.S. and foreign	life of patent + 6
(At issuance: remove all easily obtainable prior art, keep original disclosure and only papers filed with the patent office)	
Third party patent file history	life of third party patent + 6
Trademarks	P
Validity opinion	life of ASI or third party patent + 6

ASI 01265
ADR/CFS

Retention Codes: C=While current, active or in effect; CY=Current year; S=After Settlement; T=Termination; P=Permanent; X=Tax Department approval required

Records Categories	*Retention Periord (Years)*
Law, continued	
Liens	C+6
Litigation & claims	
Consent Decree	P
Court papers, other	T+6X
Decisions	P
Injunctions	P
Orders, final	P
Settlement	P
Memoranda, legal/factual	7X
Progress reports	C+3
Real Estate	
Deeds	P
Depreciation reports	P
Easements	P
Insurance policies	P
Inventories	P
Leases	T+7X
Maps	P
Mortgages	P
Options	P
Plans & specifications	P
Property appraisal	P
Property surveys	P
Purchase agreement	P
Repair costs records, reports	T+6
Repairs & maintenance	T+6
Rent	C+6
Sales agreements	P
Title	P
Water rights, property	P
SEC (Securities & Exchange Commission)	
Filings	P
Ownership reports, directors & officers	T+5
Subsidiaries & joint ventures (see specific headings or topics)	

ASI 01266
ADR/CFS

Retention Codes: C=While current, active or in effect; CY=Current year; S=After Settlement; T=Termination; P=Permanent; X=Tax Department approval required

Records Categories	Retention Periord (Years)

MANUFACTURING / PRODUCTION

Inventories	
Control records, stock	6X
Equipment	3X
Field	3
Machine ID numbers	P
Materials	C+5
Physical	3X
Plant & fixtures	P
Property	P
Reports	6
Revaluation	6
Serial number books	P
Stock	3
Stock lists	6
Summaries	6
Manufacturing/Production	
Condition reports	6
Costs	7X
Damage reports	6
Data	P
Final inspection & test records	6
Inspection reports, production & traffic	6
Labeling	C+2
Manufactured stock records	6
Mill orders	6
Parts	2
Production control	
Planning	2
Scrap	2
Work orders	2
Production reports	10
Regulatory agency audit records	6X
Schedules & summaries	6
Statistical data	20
Statistical Process Control (SPC)	P
Supplier certificates of analysis	4

ASI 01267
ADR/CFS

Retention Codes: C=While current, active or in effect; CY=Current year; S=After Settlement; T=Termination; P=Permanent; X=Tax Department approval required

Records Categories	Retention Periord (Years)

Manufacturing / Production, continued

Tool design	P
Tool records, work orders & cost reports	6
Tool reports, production	6
Warranties, AlliedSignal products	C+10
Work schedules	2
Permits	
Applications & correspondence	3
Controlled substances	T+6
Construction	T+6
Plant records	
Fixtures & equipment	C+3X
Occupational health	T+30
Process performance reports	10
Quality	
Assembly, operation & inspection records	C+10
Audits and surveys	CY+2
Corrective action	P
First inspection reports	P
Hold tags and logs	5
Inspection stamp	T+1
Inspections	
Critical aviation parts	P
Inspection results general	C+10
Serialized or lot controlled	P
Management review reports (for ISO)	CY+2
Material Review Board membership	C
Nonconforming material report	CY+24
Personnel certification	T+1
Pre-release records	7
Quality assurance alerts	5
Traceability	CY+24

ASI 01268
ADR/CFS

Retention Codes: C=While current, active or in effect; CY=Current year; S=After Settlement; T=Termination; P=Permanent; X=Tax Department approval required

Records Categories	*Retention Periord* *(Years)*

MARKETING / SALES

Advertising	
Clippings	10
Department form proofs	1
Drawings & art work	6
Estimates	3
House organs	P
Inquiries	1
Layouts	6
Market data & surveys	7
Photographs, reference	P
Promotions	3
Contracts	
General/commercial	S+6X
Government (includes prime and subcontract data)	
Accounting data applicable to specific contracts and all contracts (e.g. rates established by a business unit)	S+6
Accounting procedures and practices	S+6X
Certifications	S+6
Changes/CCPs/ECPs modifications	S+6X
Claims, appeals, settlements	S+6X
Contracts and attachments	S+6X
Contracts performance data	S+6X
Cost and pricing data	S+6X
Cost, funding and performance reports	S+6
Government furnished property records	S+6
Inspection, acceptance, receiving, testing and QA data	S+10
Property records (contract specific)	S+6
Proposals	S+6X
Request for proposals	S+6
Shipping documents	S+6X
Aerospace shipping documents	S+10X
Subcontract data	S+6X
Test data	S+6
Warranty data	S+6X
All other relevant books, records and documents pertaining to the pricing and performance of specific Government contracts	S+6

ASI 01269
ADR/CFS

Records Categories	Retention Periord (Years)

ORIGINAL (Red)

Marketing/Sales, continued

Marketing/Sales	C
Activity reports, sales staff	1
Business development	10
Commissions accrued	10
Commissions & sales, foreign	10
Commissions book	3
Commissions payable statement	7
Cost analysis	3
Cost estimates	6
Credit memoranda	
Customer	6
Complaint replies	C+6X
Contracts & review records	C
Lists	6
Specifications, revisions	
Debit memoranda	6
Distributors	T+2
Expenses	7
Export	6
Field sales staff status	T+6
Forecasts	6
Invoices	6
Journals	7
Market research, analysis, surveys	C
Presentations	
Customers	2
Industry	C+10
Price	6
Adjustments, estimates	10
Analysis budget sheets	C
Books, lists	5
Quotations	P
Sheets & catalogs, company	
Product codes	P
Product development	1

ASI 01270
ADR/CFS

Retention Codes: C=While current, active or in effect; CY=Current year; S=After Settlement; T=Termination; P=Permanent; X=Tax Department approval required

Records Categories	Retention Periord (Years)

Marketing / Sales, continued

Sales	
Analysis	6
Orders - Aerospace	
Autopilot or flight management systems	20
Auxiliary power units (business aviation)	20
Aviation turbochargers	20
Engine fuel controls (pneumatic, hydromechanical, electronic or otherwise)	20
Propulsion engines	20
Orders - non-Aerospace	
Acknowledgments	C+6
Changes	C+6
Customer files	C+6
Open	C+6
Orders	C+6X
Parts	C+6
Registers	C+6
Remittance statements reports	3
Repairs	C+5
Reports	6
Sales, sales slips	C+6X
Service, service charges, reports	C+6
Sheets	C+6
Trade reports	1
Technical Services	
Non-hazardous products	6
Potentially hazardous products	30
NDT (Non-destructive testing) reports, customer	5
Video	C
Warranties, AlliedSignal products	C+10

ASI 01271
ADR/CFS

Retention Codes: C=While current, active or in effect; CY=Current year; S=After Settlement; T=Termination; P=Permanent; X=Tax Department approval required

Records Categories	*Retention Periord* *(Years)*

PURCHASING / MATERIALS MANAGEMENT

Agreements	
Raw materials	T+6
Supplier alliance	T+6
Construction contracts	T+6X
Price sheets	3
Purchase orders	
Aerospace	10X
Capital expenditures	10X
Change orders & notices	T+6
General expense (all other)	T+6
Stores	T+6
Purchase requisitions	T+6
Request for proposals (RFP)	T+6
Scrap materials, materials management	2

ASI 01272
ADR/CFS

Retention Codes: C=While current, active or in effect; CY=Current year; S=After Settlement; T=Termination; P=Permanent; X=Tax Department approval required

Records Categories	*Retention Periord* *(Years)*

RESEARCH / DEVELOPMENT

Analytical data	
Chromatography & spectra reports	6
Physical analyses	6
Test results	6
Formulas, engineering & technical	P
Laboratory research notebooks	P
Pilot plant run data	P
Test data	5
Yield estimates	30
Product development & research	P
Product testing	P
Research & experiments	20
Research reports	P
Scientific records, general	C

ASI 01273
ADR/CFS

Retention Codes: C=While current, active or in effect; CY=Current year; S=After Settlement; T=Termination; P=Permanent; X=Tax Department approval required

Budgets, departmental 1; 7
Building: drawings, operation test reports, specifications, originals 1
Bulletins/publications 2
Business development 21
BUSINESS ORGANIZATION 3
By-laws 3

C
Cafeteria 1
Calculation files, project, engineering 4
Calendars 1
Capitalization reports 10
Capital planning 7
Capital stock: applications for issuance, certificates canceled, sales or transfers 10
Car records, traffic 25
Car rental files 25
Cash disbursements 6
Cash flow reports 10
Cash receipts 6
Catalogs, vendor 1
Certificate of title, vehicles 25
Certificate record book 3
Certificates canceled, capital stock 10
Certificates of insurance 8
Certificates of Incorporation 3
Certification/qualification documentation, engineering 4; to DOD & DOE 6
Change orders 22
Checks 15
Chromatography & spectra reports 24
Chronological files 1
Cipher books 4
Citations (decisions, settlements, orders), OSHA 11
Claims open: basic hospital, inactive medical, self-insurance 13
Claims: automobile, miscellaneous, releases 8
Clippings public relations 2; advertising 20
Close-out reports 13
Closing documents 16
College recruiting employment applications 14
Commissions 21
Committee meetings, minutes 1
Compensation 14
Complaints, environmental 11
Completed job folders, engineering 4
Completed project reports, engineering 4
Condition reports, manufacturing 18
Confined space permits 12
Consent decree, L&C 17
Consultant/contractor agreements 12
Consultants' agreements: 1; 14
Construction estimates & bids: successful, unsuccessful 4; permits 19; contracts 23
Contract progress reports, engineering 4
Contract support documents, government 7
Contracts (see Marketing/Sales) 20
Contracts: general/commercial 20; government: accounting data, procedures & practices, certifications, changes, claims, appeals, settlements, cost & pricing data, funding & performance reports, government furnished property records, inspection, acceptance, receiving, testing and QA data, property records, proposals, request for proposals, shipping documents, Aerospace shipping documents, subcontract data, test data, warranty data 20; construction 23
Contractually required data and documents, engineering 4
Contributions: employer 13; Foundation 3
Control, finance 6
Control records, stock 18
Controlled substances permits 19
Copyrights 16
Corrective action, quality 19

Index

Correspondence: agencies, OSHA 11; general; law 16; government agencies, to and from 16; risk management 8; routine, official, stock and shareowner records 10
Cost analysis, estimates 21
Costs, manufacturing 18
Court papers, other, L&C 17
Credit advices 6
Credit memoranda 21
Critical aviation parts, inspection 19
Currency transaction entries 7
Customer: complaint replies, contracts & review records, lists, specifications & revisions 21
Customer files, orders 22
Customs, receiving/shipping 25

D
Damage reports, manufacturing 18
Data books (site records of environmental cleanup) 4
Data, manufacturing 18
Debit memoranda 21
Debt issuance & ratings reports 9
Decisions, OSHA 11; L&C 17
Deduction control records, pension & welfare plans 13
Deeds, real estate 17
Delivery receipts & reports 25
Department form proofs 20
Department of Commerce reports 6
Depreciation reports, real estate 17
Design manuals site drawing (environmental superfund remediation projects) 4
Design reviews, minutes, engineering 4
Designs, engineering 4
Disability & sick benefit records 13
Disaster plan: 2; 11
Disclosure: statements, documents 7; 11; 16
Discovery 16
Discrimination cases 14
Disposition proposals, studies 7
Distributions, benefits 13
Distributors 21
Dividend records, stock 10
Drawings 4
Drawings & art work, advertising 20
Drinking water data 11

E
Earned premium statements 8
Earnings, press release workpapers 6
Earnings records, summaries 15
Easements 17
Edits, final 13
Education & training 14
Educational assistance 14
Electronic data processing documentation 2
Electronic data processing design, maintenance, programs 2
E-Mail 1
Emergency Planning Community Right to Know Act (EPCRA) 12
Employee agreements relating to IP & confidential information 14; 16
Employee benefit cost records 7
Employee files 15
Employee relations folders/Human Resources summaries 14
Employee records, pension & welfare plans 13
Employee satisfaction surveys 15
Employee substance abuse screening 2
Employment applications: in-service, non-hired 14
Employment histories, current, releases 14
Engine assembly reports, engineering 4
Engine fuel controls (pneumatic, hydromechanical, electronic or otherwise) 22
Engines, propulsion 22
ENGINEERING 4
Engineering specifications 5

ASI 01277
ADR/CFS

Records Categories	Retention Periord (Years)

ORIGINAL (Red)

SHIPPING / TRANSPORTATION

Receiving/Shipping/Traffic	
Bills of lading/waybills	3
Customs	C+5
Delivery receipts & reports	3
Export declarations	6
Manifests	5
Packing instructions	3
Receiving reports	
Traceable	CY+24
Non-traceable	3 months
Sample shipments	
R&D (research & development)	25
TSCA (Toxic substances control act)	25
Shippers/invoices	C+6X
Aerospace	C+10X
Transportation	
Aircraft maintenance logs	P
Aircraft manifest	P
Aviation flight logs	P
Vehicles	
Car records, traffic	2
Car rental files	5
Certificate of title	T
Operation & maintenance	C

ASI 01274
ADR/CFS

Retention Codes: C=While current, active or in effect; CY=Current year; S=After Settlement; T=Termination; P=Permanent; X=Tax Department approval required

Index

A

Abandoned patent applications (no cont. or CIP) 16
Acceptance test procedures and results 4
Accidents, automobile 8
Account ledgers 7
Account status reports 13
Accounts payable: vendor invoices, ledgers, cash disbursements, wire transfers 6
Accounts receivable: cash receipts, company invoices, cash receipts, credit advices, uncollected accounts 6
Acknowledgments, orders 22
Acquisitions studies, valuations 8
Activity reports: monthly, year end 1
Activity reports, sales staff 21
Actuary's report/valuation 13
Administration - General 1
ADMINISTRATION / OPERATIONS 1
Advertising 20
Affirmative action 14
Agenda/schedule 1
Agreements: consultant/contractor 11; 14; waste 12; labor union 15; sales & purchase 16; raw materials, supplier alliance 23
Aircraft maintenance logs 25
Aircraft manifest 25
Air data 11
Air/water permits 12
Alchem: reports, policies, premium statements 8
Analytical data: chromatography & spectra reports, physical analyses, test results 24
Annual Meeting 3
Annual meeting, Minutes (see Board of Directors) 3
Annual Reports: 3; 6
Annual reports: pension & welfare plans 13
Annual reports, work papers 6; 13
Annuitants reports, retiree benefits 13
Antitrust notifications 16
Applicant flow statistics 13
Applications/enrollment/elections, group, health & accident insurance 13
Applications for issuance, capital stock 10
Appropriation requests, fixed capital 7
Art work appraisals 3
Assembly, operation & inspection records, quality 19
Assignments, attachments, garnishments 15
Assignment of inventions 16
Associations/memberships 1
Audit, finance 6
Audit: reports, work papers 6; health & safety 11
Audit records, regulatory agency 19
Audits & surveys, quality 19
Authorizations, payroll deductions 15
Automobile: accidents, auto subrogation, reports/claims 8
Autopilot or flight management systems 22
Auxiliary power units (business aviation) 22
Aviation flight logs 25
Aviation turbochargers 22

B

Background material, Board of Directors 3
Bank reconciliations 7
Benefit payments 13
Benefits 13
Benefits accounting, participant files 13
Benefits accounting reports 13
Bills of lading/waybills 25
Blue prints, drawings, maps, tracings 4
Board & Committee minutes 3
Board of Directors 3
Bonds 3 (see also Securities; Stocks) 10
Bonds: canceled, indemnity (lost stock certificates) 3
Books, informational & technical 1

Environmental: cleanup data books, superfund remediation projects design manuals 4; complaints 11
Environmental permits, (excluding wastes) 12
Environmental Protection Agency (EPA) 11
EPCRA reports 12
Epidemiological studies 11
Equal Employment Opportunity (EEO), affirmative action & discrimination cases 14
Equipment: history, maintenance, instructions, service 1; inventories 18; leases, repair 2
Escheat records 10
Estimates, advertising 20
Executive compensation, check deposits 14
Executive referrals 14
Exemptions, low volume, polymer, test market PMN 12
Expense allocations reports 13
Expense & budget statements, departmental 1
Expense reports 7
Expenses, marketing/sales 21
Export 21
Export declarations 25
External reporting, government reports, shareowner reports 6

F
Facilities/Operations 1
Federal insecticide, Fungicide & Rodenticide Act (FIFRA) 11
Federal Reserve Bank reports 6
Federal Trade Commission reports 6
Field: inventories 18; sales staff status 21
Field service engineering reports 4
Filings with Government, benefits 13
Final inspection & test records 18
FINANCE 6
Financial control reports 13
Financial reports: cash flow, liquidity, capitalization, interest charges, income & debt composition 10
Financial schedules & statements, reports 7
Fire: damage reports, inspection reports 12
First inspection reports, quality 19
Fixed capital, appropriation requests, property & depreciation records 7
Forecast proposals, government contracting 7
Forecasts, planning 7; 21
Foreign currency management reports 9
Foreign ownership, control & influence (FOCI) 6
Formulas, engineering & technical 4; 24
Foundation 3

G
Garnishments 15
General ledger 7
Government contracting: disclosure statements, forecast proposals, incurred cost proposals, contract support documents 7
Grievances, labor union 15
Groundwater data 11
Group insurance deductions, retire benefits 13

H
Hart Scott filing 6
Hazardous-non, potentially hazardous products 22
Hazardous waste 12
HEALTH, SAFETY, ENVIRONMENTAL & REMEDIATION 11
Health status reports 11
HMO billings, retiree benefits 13
Hold tags and logs, quality 19
House organs, advertising 20
HUMAN RESOURCES / BENEFITS 13
Human resources summaries 14

Index

I
Inactive invention disclosures, IP 16
Incentive compensation, payroll 14
Incentive compensation, plans, awards, deferred, restricted unit files, awards 14
Incidents, EPA 11
Income & debt composition reports 10
Incurred cost proposals, government contracting 7
Industrial Health monitoring(IH) 11
Information, product 11
Information Technology 2
Infringement opinions 16
Injunctions, L&C 17
Injury frequency reports 12
Inquiries, advertising 20
Inspection audits 11
Inspection reports: engineering 4; production & traffic 18
Inspection results general, quality 19
Inspection stamp, quality 19
Inspections, quality: critical aviation parts, inspection results general, serialized or lot controlled 19
Insurance booklets, benefits 13
Insurance: policies, schedules 8; real estate 17
Insurance/risk management 8
Intellectual Property (IP) 16
Agreements (license, research, jt. dev., NDA) 16
Interest charges reports 10
Interest coupons, paid/unpaid, bond 3
Interference files, IP 16
Internal billing reports 13
Inventory records 7
Inventories: control records, equipment, field, materials, physical, property, reports, stock 18; real estate 17
Investigations, threats & incidents 2
Investments 7
Invoices: company, vendor 6; marketing/sales 21

J
Job descriptions 14
Journal entries 7
Journal, marketing/sales 21
Journal, payroll 15

L
Labels, product 11
Labor union arbitration, negotiations, grievances, agreements 15
Laboratory notebooks 16; 24
Layouts, advertising 20
LAW 16
Leases 17
Ledgers: accounts payable 6; bond 3; payroll 15; securities 10
Letters of credit 10
Liability/casualty, miscellaneous 8
Library 1
Liens 17
Liquidity reports 10
Listing application, securities 10
Literature, engineering 4
Litigation & claims 17
Loan status reports 13
Log books, engineering 4
Logs, OSHA 11

M
Machine ID numbers 18
Maintenance: billing report, equipment history 1; preventive work orders 2
Management articles 1
Management review reports for ISO 19
Manifests, shipping 25
Manuals: information, systems & procedures, engineering 4
Manufactured stock records 18

ASI 01279
ADR/CFS

Manufacturing data, final inspection & test records 18
Manufacturing engineering, revision authorization logs 4
MANUFACTURING / PRODUCTION 18
Maps: geological/groundwater 11; engineering 4;
real estate 17
Market data & surveys 20
Market research, analysis, surveys 21
MARKETING / SALES 20
Material and process, specifications 5
Material Review Board membership 19
Materials, inventories 18
Medical 2
Medical dispensary records 2
Medical files 2
Meetings, planning, strategy 1
Memoranda, legal/factual 17
Meter readings, applications 2
MG report form, FTC 6
Military service 15
Mill orders 18
Minutes, Foundation 3
Minute books, (see Board of Directors) 3
Monitoring data 11
Mortgages 17
MSDSs (Material Safety Data Sheets) AlliedSignal products, vendors 11

N
NDT (non-destructive testing): customer, plant inspection reports 4; 22
Negotiation file: 4; labor 15
News releases: clippings historical, Public Relations clippings historical, 2
Nonconforming material report, quality 19
Notebooks, laboratory: 16; 24
Notes, debit instruments, stock 10

O
Objectives, administrative 1
Occupancy report 2
Official documents, annual meeting 3
Open orders 22
Operating plan & departmental budgets 7
Operation & maintenance, vehicles 25
Options, securities 3; real estate 17
Orders: final L&C 17; OSHA 11; sales, Aerospace; non-Aerospace repairs, reports 22
Organization charts 1
OSHA (Occupational Safety & Health Administration) monthly reports 11
Outside (third party) submissions, IP 16
Ownership reports, directors & officers, SEC 17

P
Packing instructions, shipping/receiving 25
Parts 18; 22
Patent files, U.S. & foreign 16
Payroll 15
PCB data, OSHA 11
Pension payroll 15
Pension & savings plan master trust statements, performance & strategy reports, investment data 7
Pension & welfare plans, retirement plans, reports/disclosures, documents 13
Performance appraisals 15
Permits: Air/water, environmental, waste 12; applications & correspondence, controlled substances, construction 19; confined space 12
Personnel certification, quality 19
Personnel/employee files 15
Personnel security clearance 2
Photographs: engineering related 4; historical materials 2; reference 20

Index

Physical analyses 24
Physical exams 2
Physical inventories 18
Pilot plant: run data, test data, yield estimates 24
Plan allocation reports, documents 13
Plan contribution, forfeitures & loan (CFL) reports 14
Planning & development: acquisition valuations, studies, disposition proposals 7
Planning & progress sheets, engineering 4
Planning & strategy meetings 1
Planning: capital, forecasts, operating plan & departmental budgets, special analyses, strategic plan, presentations to Board of Directors, security analysts 7
Plans & specifications, real estate 17
Plant and fixtures, inventories 18
Plant: clearances, layout 2; start-up, inspection reports 4
Plant records: fixtures & equipment, occupational health, process performance reports 19
Policies, schedule of insurance 8
Pollution control 12
Power of Attorney 1
Premanufacturing notification (PMN) 12
Premiums, general 8
Pre-release records, quality 19
Presentations: Board of Directors, security analysts 7; customers, industry 21
Preventive maintenance 2
Price: adjustments, analysis budget sheets, books, estimates, quotations, sheets & catalogs, company 21
Price sheets, purchasing 23
Procedures 1
(see also Manuals, Engineering) 4
Product: codes 22; information 11; testing 24
Product: development 22; and research 24
Production & traffic: engineering 4; inspection reports 18
Production control: planning, scrap, work orders, reports 18
Progress reports, law 17
Project files, engineering 4
Project plans & specifications, abandoned 4
Project management 1
Promotions, advertising 20
Property & depreciation records 7
Property: appraisals, surveys 17; inventories 18
Property: fire, insurable value reports, schedules, loss control reports, replacements value reports 8
Proxies, voted 10
Public Relations/Public Affairs 2
Purchase agreements: raw materials, supplier alliance 23; real estate 17
Purchase & sales, securities 10
Purchase orders: Aerospace, capital expenditures, change orders & notices, general expense, stores 23
Purchase orders, requisitions 23; waste records 12
PURCHASING / MATERIALS MANAGEMENT 23

Q
Quality 19
Quality assurance alerts 19
Quarterly report, workpapers 6

R
Railcar inspection reports, engineering 4
Real Estate 17
Receiving reports: traceable, non-traceable 25
Receiving/Shipping/Traffic 25
Reconciliations reports 14
Records retention schedules 1

ASI 01281
ADR/CFS

Re-edit reports 14
Registers: bond 3; order 22; payroll 15
Registration, securities 10
Regulatory Affairs 12
Regulatory agency audit records 19
Remittance statement reports 22
Relocation files 15
Rent 17
Repair costs: records, reports, real estate 17; sales 22
Repairs & maintenance, real estate 17;
Reports: audits, external reporting 6; benefits accounting 13; EPA 11; inventories 18; payroll 15; sales order 22
Request for proposals (RFP) 23
RESEARCH / DEVELOPMENT 24
Research & experiments, reports 24
Resumes, solicited & unsolicited 14
Retiree benefits 13
Revaluation reports, inventories 18
Rewards & recognition programs 15
Risk Management/Insurance 8

S
Safety 12
Salary: changes 15; payment record 15
Sales analysis 22; purchase, sales agreements 17
Sales orders: Aerospace, non-Aerospace 22
Sales or transfers, bonds 3; stock 10
SARA (Superfund Amendments & Reauthorization Act) reporting files 12
Savings bonds records 15
Savings plan balances: record keeper reports, processing reports 14
Schedules & summaries, manufacturing 19
Scientific records, general 24
Scrap materials 2; 23
Seal, company 3
SEC (Securities & Exchange Commission) 17
SEC filings 17
SEC reports, 10-K, 10-Q, 11-K 6
Securities 3
Security: correspondence, programs 2
Seniority records 15
Serial number books 18
Serialized or lot controlled inspections 19
Service records 15; 22
Settlement, OSHA 12; L&C 17
Shareowner reports, earnings press release workpapers 6
Sheets, order 22
Shipments, sample: R&D, TSCA 25
Shippers/invoices, Aerospace 25
SHIPPING / RECEIVING / TRANSPORTATION 25
Sign-off letters 14
Sites, waste records 12
Slips, sales 22
Software, software maintenance plans 2
Special analyses, planning 7
Special compensation reports 14
Special studies 1
Specifications: engineering, material and process 5; customer 21
Speeches 2
Spills, EPA 11
Standards, engineering 5
Statements, participant, pension & welfare plans 13
Statistical data 19
Statistical process control (SPC) 19
Statistics, applicant flow 13
Stock & Shareowner Records: 10
Capital stock, correspondence, dividend records, escheat records, notes, debit instruments, proxies voted, voting lists 10
Stock: certificates 3; lists, inventories 17
Stock option program salaried employees (SOPSE) reports 14
Stock options, plans, agreements, daily trades 14

ASI 01282
ADR/CFS

Index

Stock purchase & savings plan 15
Strategic plan 7
Stubs, bonds 3
Subsidiaries & joint ventures 17
Summaries, inventories 18
Superfund Amendments & Reauthorization Act (SARA) 12
Superfund records, EPA 11
Supplemental & unfunded benefits (AF6 & AF7) 13
Supplier certificates of analysis 19
Supplies 1
Surety bonds 8
Surveys: employee satisfaction, wage 15; property 17; market research 21

T
Taxes: returns, workpapers 9
Technical services: Non-hazardous products, potentially hazardous products, NDT reports, video 22
Telephone closet wiring diagrams 2
Temporary & part-time employee records 15
Termination reports 15
Test & design data, engineering 5
Test results, analytical data 24
Testing, employee 15
Third party patent file history 16
Time reports, cards & sheets 15
Time-worked rewards 15
Title, real estate 17
Tool: costs, designs, records, reports, production reports, work orders 19
Toxic substances control act (TSCA) 12
Toxicology reports 12
Traceability, quality 19
Tracings 4
Trademarks 16
Trade reports 22
Training & development 15
Transactions, waste records 12
Transcripts, annual meeting 3
Transportation 25
Treasury 10
Trial balances 7
Trust fund report, pension & welfare plans 13
Trust fund status report 14
TSCA (Toxic Substances Control Act) allegations 8(c), documents, health studies 8(d), reports 8(e) 12
Tuition reimbursement/educational assistance 14

U
Uncollected accounts 6
Unit value worksheets reports 14

V
Validity opinions, IP 16
Vehicles 25
Vendor MSDSs 11
Violations, EPA 11
Visitor logs 2
Voting lists 10

W
Wage rate changes, surveys 15
Warranties, AlliedSignal products 19; 22
Warranties, purchased products 1
Warrants, securities 3
Waste records: agreements, hazardous waste, permits, sites transactions, purchase orders 12
Wastewater data 11
Water rights, property 17
Waybills 25
Withdrawal reports 14
Work orders and timekeeping records 5
Work schedules, manufacturing 19
Workers' compensation: accruals, allocations, claims, metrics, state WC insurance 9

Honeywell
Records & Information Management
101 Columbia Road, AB-3A
Morristown, NJ 07962-1057

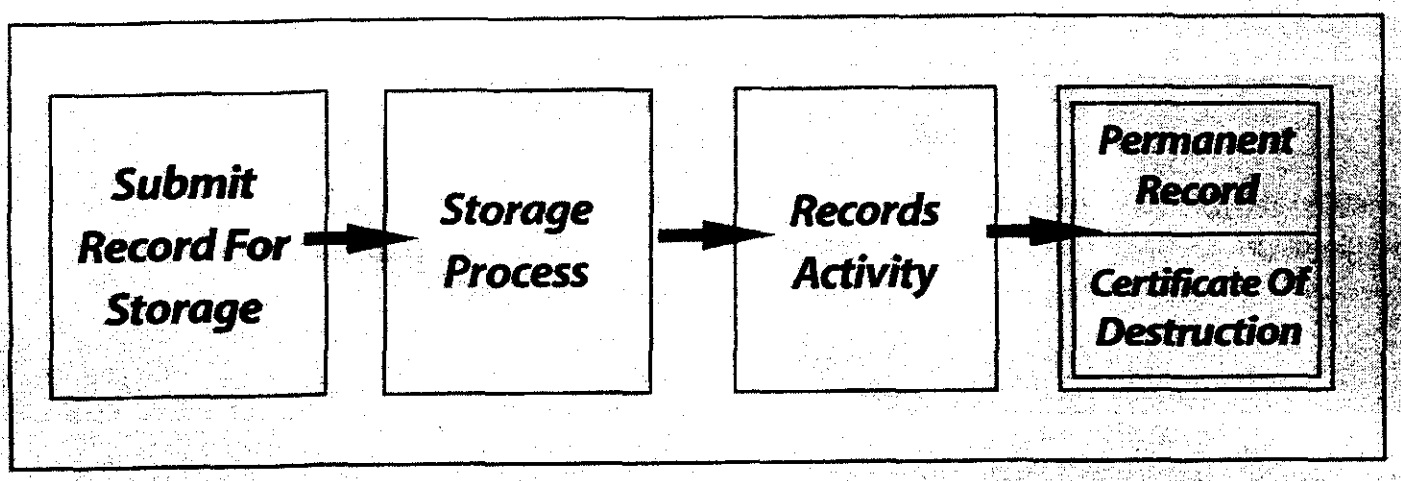
Phone: 973-455-4633 • 973-455-2283
Fax: 973-455-6859
website: http:/myhoneywell.com/gbs/services

records and information management

a unit of ***Global Business Services***

We make it easier for you to do your job

Top Level Process Map



- Prepare Records
- Complete Transmittals
- Notify Record Center of pick up

- Records Imbounded
- Database Updated

- Records Retrieved per auth user request
- Records Returned to Storage

- Permanent Record: Permanent Retention per Corporate Guidelines
- Certificate of Destruction: Records Destroyed per Records Manager authorization upon review of records per Retention Schedule

Proper Records Identification

- ***Department ID Code***

  SBU/SBE - Loc/Dept, Contact Name

- ***Description***

- ***Destruction Date / Permanent***

RECORDS GLOSSARY

RECORDS MANAGEMENT TERMS

INDEX

A Systematic Guide Which Allows Access to Specific Items Contained Within a Larger Body of Information

INTERFILE

The Process of Putting Records in Their Proper Sequence Within an Existing Scheme

LIFE CYCLE (OF A RECORD)

The Span of Time of a Record From Its Creation or Receipt, Through its Useful Life to its Final Disposition or Retention as a Historical Record

NONRECORD MATERIAL

Records not Usually Included Within the Scope of Official Records, e.g. Convenience File, Day File, Reference Material, etc.

ORIGINAL (Red)

RECORDS GLOSSARY

JT	• Joint Venture (Trademarks)	(Page 19)
MSDS	• Material Safety Data Sheet	(Page 13)
NDA	• Non-Disclosure Agreement	(Page 19)
NDT	• Non Destructive Testing	(Pages 4 & 25)
NOC	• Notification of Commencement	(Page 13)
OSHA	• Occupational Safety and Health Administration	(Page 12)
PEL	• Permissible Exposure Limit	(Page 13)
PIC	• Product Integrity Committee	(Page 13)
PMN	• Pre Manufacturing Notification	(Page 13)
PPE	• Personal Protective Equipment	(Page 13)
QA	• Quality Assurance	(Page 23)
RCRA	• Resource Conservation and Recovery Act	(Page 11)
RIF	• Reduction In Force	(Page 17)
SARA	• Superfund Amendments & Reauthorization Act	(Page 11)
SEC	• Securities and Exchange Commission	(Pages 4 & 20)
SIC	• Standard Industrial Code	(Page 6)
SOPSE	• Stock Option Program Salaried Employees	(Page 15)
TRAC	• The Risk Assessment Committee	(Page 14)
TRI "Form R's"	• Toxic Release Inventory Report on form Required under § 313 of SARA Title III	(Page 11)
TSCA	• Toxic Substances Control Act	(Pages 14 & 28)

RECORDS GLOSSARY

ACRONYMS

CCP	• Contract Change Proposal	(Page 23)
CFL	• Contributions, Forfeitures & Loan	(Page 16)
CIP	• Continuation In Part	(Page 19)
CMA	• Chemical Manufacturing Association	(Page 11)
CRC	• Corporate Responsibility Committee	(Page 13)
DBCP	• 1,2-Dibromo-3-Chloropropane	(Page 12)
DOD	• Date of Delivery	(Page 6)
DOE	• Date of Entry	(Page 6)
ECP	• Engineering Change Proposal	(Page 23)
EEO	• Equal Employment Opportunity	(Page 17)
EPA	• Environmental Protection Agency	(Pages11 & 13)
EPCRA	• Emergency Planning - Community Right-To-Know Act	(Page 11)
FIFRA	• Federal Insecticide, Fungicide & Rodenticide Act	(Page 13)
FOCI	• Foreign Ownership, Control & Influence	(Page 6)
Form MG	• Quarterly Report - Manufacturing, Mining & Wholesale Trading	(Page 6)
FTC	• Federal Trade Commission	(Page 6)
HMO	• Health Maintenance Organization	(Page 15)
HON	• Honeywell	(Page 19)
IP	• Intellectual Property	(Page 19)
ISO	• Insurance Services Office	(Page 22)

RECORDS CATEGORIES	RETENTION PERIOD (YEARS)

SHIPPING / TRANSPORTATION

RECEIVING / SHIPPING / TRAFFIC

Bills of Lading / Waybills	3
Customs	C + 5
Delivery Receipts and Reports	3
Export Declarations	6
Manifests	5
Packing Instructions	3
Receiving Reports	
Traceable	25
Non-Traceable	3 Months
Sample Shipments	
Commercial	3
TSCA	25
Shipping Invoices	
Aerospace	C + 10X

TRANSPORTATION

Aircraft Maintenance Logs	P
Aircraft Manifest	3
Aviation Flight Logs	P
Vehicles	
Car Records, Traffic	2
Car Repair Files	2
Certificate of Title	T
Operation and Maintenance	2

RETENTION CODES:

C=	While Current, Active or in Effect;	CY=	Current Year;
S=	After Settlement;	T=	Termination;
P=	Permanent;	X=	Tax Department approval required

RECORDS CATEGORIES	RETENTION PERIOD (YEARS)

RESEARCH / DEVELOPMENT

Analytical Data	
Chromatography and Spectra Reports	6
Physical Analyses	6
Test Results	6
Formulas - Engineering and Technical	P
Laboratory Research Notebooks	P
Pilot Plant Run Data	P
Test Data	6
Yield Estimates	30
Product Development and Research	P
Product Testing	P
Research and Experiments	P
Research Reports	P
Scientific Records, General	P

RETENTION CODES: C= While Current, Active or in Effect; S= After Settlement; P= Permanent; CY= Current Year; T= Termination; X= Tax Department approval required

RECORDS CATEGORIES

RETENTION PERIOD (YEARS)

PURCHASING / MATERIALS MANAGEMENT

AGREEMENTS	
Raw Materials	T + 6
Supplier Alliance	[illegible]
CONSTRUCTION CONTRACTS	T + 6X
PRICE SHEETS	3
PURCHASE ORDERS	
Aerospace	10X
[illegible]	[illegible]
Change Orders and Notices	T + 6
[illegible]	[illegible]
Stores	T + 6
PURCHASE REQUISITIONS	T + 6
REQUEST FOR PROPOSAL	T + 6
SCRAP MATERIALS	2

RETENTION CODES:
C= While Current, Active or In Effect;
S= After Settlement;
P= Permanent;
CY= Current Year;
T= Termination;
X= Tax Department approval required

Records Categories

Retention Period (Years)

Marketing / Sales

Sales (Cont'd)

Product Codes	P
Product Development	[illegible]
Analysis	6
Orders - Aerospace	
Autopilot or Flight Management Systems	[illegible]
Auxiliary Power Units (Business Aviation)	20
Aviation Turbocharger	[illegible]
Engine Fuel Controls (Pneumatic/Hydromechanical/Electronic)	20
Propulsion Engines	[illegible]
Orders - Non-Aerospace	
Acknowledgements	[illegible]
Changes	C + 6
Customer Files	[illegible]
Open	C + 6
Orders	[illegible]
Parts	C + 6
Registers	[illegible]
Remittance Statement Reports	3
Repairs	[illegible]
Reports	6
Sales, Sales Slips	[illegible]
Service, Service Charges, Reports	C + 6
Sheets	[illegible]
Trade Reports	1

Technical Services

Non-Hazardous Products	6
Potentially Hazardous Products	[illegible]
NDT Reports - Customer	6
Video	[illegible]

Warranties - Honeywell Products	C + 10

Retention Codes:

C= While Current, Active or in Effect;
S= After Settlement;
P= *Permanent;*
CY= Current Year;
T= Termination;
X= *Tax Department approval required*

Records Categories

Retention Period (Years)

Marketing / Sales

Sales

Activity Reports, Sales Staff	C
Business Development	[illegible]
Commissions Accrued	10
Commissions and Sales, Foreign	[illegible]
Commissions Book	10
Commissions Payable Statement	[illegible]
Cost Analysis	7
Cost Estimates	[illegible]
Credit Memoranda	6
Customer	
Financial Report	[illegible]
Contracts and Review Records	C + 6X
Leads	[illegible]
Specifications/Revisions	6
Debit Memoranda	[illegible]
Distributors	T + 2
Expenses	[illegible]
Export	6
Field Sales Staff Status	[illegible]
Forecasts	6
Inventory	[illegible]
Journals	7
Market Research, Analysis, Surveys	[illegible]
Presentations	
Customers	[illegible]
Industry	C + 10
Price	
Adjustments, Estimates	[illegible]
Analysis Budget Sheets	10
Books, List	[illegible]
Quotations	5
Sheets and Catalogs, Company	[illegible]

Retention Codes:

C=	While Current, Active or in Effect;	CY=	Current Year;
S=	After Settlement;	T=	Termination;
P=	Permanent;	X=	Tax Department approval required

RECORDS CATEGORIES	RETENTION PERIOD (YEARS)

MARKETING / SALES

ADVERTISING

Clippings	10
Department Form Proofs	
Drawings and Art Work	6
Estimates	
House Organs	P
Inquiries	
Layouts	6
Market Data and Surveys	
Photographs, Reference	P
Promotions	

CONTRACTS

General/Commercial	S + 6X
Government Indirect & Direct and Subcontract Data	
Accounting Data Applicable to Specific Contracts and All Contracts (e.g., rates established for a business unit)	
Accounting Procedures and Practices	S + 6X
Certifications	
Changes / CCPs / ECPs Modifications	S + 6X
Claims, Appeals, Settlements	
Contracts and Attachments	S + 6X
Contracts and Attachments - Military	
Contracts Performance Data	S + 6X
Contracts Performance Data - Military	
Cost and Pricing Data	S + 6X
Cost, Funding and Performance Reports	
Government Furnished Property Records	S + 6
Inspection, Acceptance, Receiving, Testing and Delivery	
Property Records (Contract Specific)	S + 6
Proposals	
Request for Proposals	S + 6
Shipping Documents	
Aerospace	S + 10X
Subcontract Data	
Test Data	S + 6
Warranty Data	
All Other Relevant Books, Records and Documents Pertaining to the Pricing and Performance of Specific Gov't Contracts	S + 6

RETENTION CODES: C= While Current, Active or in Effect; S= After Settlement; P= Permanent; CY= Current Year; T= Termination; X= Tax Department approval required

RECORDS CATEGORIES	RETENTION PERIOD (YEARS)

Manufacturing / Production

PRODUCTION (CONT'D)

Tool Design	P
Warranties - Honeywell Products	C + 10

PERMITS

Applications and Correspondence	3
Construction	T + 6

PLANT RECORDS

Fixtures and Equipment	C + 3X
Process Performance Reports	10

QUALITY

Assembly, Operation and Inspection Records	C + 10
Corrective Action	P
Hold Tags and Logs	5
Inspections	
Inspection Results - General	C + 10
Management Review Reports (for ISO)	CY + 2
Material Review Board	
Minutes	C + 10
Personnel Certification	T + 1
Quality Assurance Alerts	5

RETENTION CODES:
C= While Current, Active or in Effect;
S= After Settlement;
P= Permanent;
CY= Current Year;
T= Termination;
X= Tax Department approval required

RECORDS CATEGORIES	RETENTION PERIOD (YEARS)

MANUFACTURING / PRODUCTION

INVENTORIES

Control Records - Stock	6X
Equipment	6X
Field	3
Machine ID Numbers	
Materials	C + 5
Physical Inventory	
Plant and Fixtures	P
Property	
Reports	6
Revaluations	
Serial Number Books	P
Stock	
Stock Lists	6
Summaries	

PRODUCTION

Certificates of Analysis - Supplier	4
Costs	
Data	P
Final Inspection and Test Records	
Labeling	C + 2
Manufactured Stock Records	
Mill Orders	6
Plans	
Production Control	
Planning	
Scrap Materials	2
Work Orders	
Regulatory Agency Audit Records	6X
Reports	
Condition	
Damage	6
Inspection Reports - Production and Traffic	
Production	10
Tool Reports - Production	
Schedules and Summaries	6
Statistical Data	20
Statistical Process Control (SPC)	P

RETENTION CODES: C= While Current, Active or in Effect; S= After Settlement; P= Permanent; CY= Current Year; T= Termination; X= Tax Department approval required

Records Categories

Retention Period (Years)

Law

Litigation and Claims (Cont'd)

Decisions	P
Injunctions	P
Orders - Final	P
Settlement	P

Memoranda - Legal / Factual	C + 6X
Progress Reports	C + 3

Real Estate

Deeds	P
Depreciation Reports	P
Easements	P
Insurance Policies	P
Inventories	P
Leases	P
Maps	P
Mortgages	P
Options	C + 10
Plans and Specifications	P
Property Appraisal	P
Property Surveys	P
Purchase Agreements	P
Repairs and Maintenance	C + 3
[illegible]	[illegible]
Sales Agreements	P
[illegible]	P
Water Rights - Property	P

SEC

Filings	P
Ownership Reports - Directors and Officers	C + [illegible]

Subsidiaries and Joint Ventures

(See specific heading or topic)

Retention Codes:

C=	While Current, Active or In Effect;	CY=	Current Year;
S=	After Settlement;	T=	Termination;
P=	Permanent;	X=	Tax Department approval required

Records Categories

Retention Period (Years)

LAW

Agreements	
Labor	T + 50
Other	C + 6X
Sales and Purchase	C + 6
Antitrust Notifications	C + 6
Closing Documents	P
Contracts (See Marketing / Sales)	
Correspondence	
General	C + 6
Governmental Agencies - To and From	[illegible]
Disclosure	C
Discovery	C + 3
Employee Confidentiality Agreements	T + 25
Intellectual Property	
Abandoned Patent Applications - (No Cont. or CIP)	Abandonment + 10
Assignment of Inventions	[illegible]
	(or Abandonment of Application + 6)
Copyrights	[illegible]
Correspondence - General	C + 6
Inactive Invention Disclosures	[illegible]
Infringement Opinions	Life of 3rd Party Patent + 6
Interference Files	[illegible]
IP Agreements (License, Research, JT Development, NDA)	C + 6
Laboratory Notebooks	[illegible]
Outside (Third Party) Submissions	C + 25
Patent Files, [illegible]	[illegible]
(at issuance: remove all easily obtainable prior art, keep original disclosure and only papers filed with the patent office)	
Third Party Patent File History	Life of 3rd Party Patent + 6
Trademarks	T + 10
Validity Opinion	Life of HON or [illegible]
Liens	C + 6
Litigation and Claims	
Consent Decree	P
Court Papers - Other	T + 6X

Retention Codes:

C=	While Current, Active or in Effect;	CY=	Current Year;
S=	After Settlement;	T=	Termination;
P=	Permanent;	X=	Tax Department approval required

RECORDS CATEGORIES	RETENTION PERIOD (YEARS)

Human Resources / Benefits

Relocation Files	7X
Reward and Recognition Programs	C + 3
Seniority Records	T + 50
Service Records	T + 50
Stock Purchase and Savings Plan	T + 50
Surveys	
Employee Satisfaction	5
Wage	5
Termination Reports	T + 50
Testing, Employee	T + 6
Time-Worked Records	T + 6
Wage Rate Changes	T + 50

RETENTION CODES:

C= While Current, Active or in Effect;
S= After Settlement;
P= Permanent;
CY= Current Year;
T= Termination;
X= Tax Department approval required

RECORDS CATEGORIES	RETENTION PERIOD (YEARS)

Human Resources / Benefits

EMPLOYMENT APPLICATIONS (CONT'D)

Non-Hired	3
Resumes - Solicited and Unsolicited	3
Sign-Off Letters	3
Employment Histories, Current	T + 50
Employment Releases	T + 50
EEO, Affirmative Action and Discrimination Cases	C + 10
Employee Investigations	C + 6
Job Descriptions	C + 10
Labor Union Arbitration	T + 50
Labor Union Negotiations, Grievances, Agreements	C + 15
Military Service	T + 50

PAYROLL

Assignments, Attachments, Garnishments and All Related Papers	T + 6
Authorizations for Deductions From Employees' Earnings	C + 10
Checks:	
Dividend	C + 10
Canceled, Payroll, Register, Vouchers	7
Earnings Records, Summaries	C + 10
Journal	10
Ledger	C + 10
Pension Payroll	T + 50
Register (Employees' Earnings, Deductions and Net Pay)	C + 10
Reports to Federal, State and Local Government Agencies	6
Salaries and Wages, Payment Record	C + 10
Salary Changes	T + 50
Savings Bond Register	C + 10
Temporary and Part-Time Employee Records	T + 15
Time Reports (Cards and Sheets)	C + 5
Performance Appraisals	T + 5
Personnel/Employee Files	C + 50
Policies/Procedures - Employees	C + 10
RIF materials	C + 10

RETENTION CODES: C= While Current, Active or in Effect; S= After Settlement; P= Permanent; CY= Current Year; T= Termination; X= Tax Department approval required

Records Categories

Retention Period (Years)

Human Resources / Benefits

Reports, Benefits Accounting (Cont'd)

Re-edit	10
Savings Plan Balances, Record Keeper Reports	[illegible]
Savings Plan Processing	P
Trust Fund Status	[illegible]
Unit Value Worksheets	20
Withdrawals	[illegible]
Retiree Benefits	
Annuitant's Reports	[illegible]
HMO Billings	7
Group Insurance Deductions	[illegible]
Supplemental and Unfunded Benefits (AF6 and AF7)	10

Compensation

Executive Compensation	T + 50
Executive Compensation Check Deposits	[illegible]
Incentive Compensation, Plans, Awards, Deferred	T + 50
Incentive Compensation Payroll	[illegible]
Incentive Compensation, Restricted Unit Files, Awards	T + 50
Special Compensation Reports	[illegible]
Stock Options, Plans, Agreements, Daily Trades	C + 10
SOPSE	[illegible]

Consultants' Agreements	C + 6X

Education and Training

Tuition Reimbursement/Educational Assistance	T + 6X
Training and Development	[illegible]

Employee Agreements - IP and Confidential Information	T + 25
Employee Relations Folders / Human Resource Summaries	T + 6

Employment Applications

College Recruiting	3
Executive Referrals	3
In-Service	T + 6

Retention Codes:
C= While Current, Active or in Effect;
S= After Settlement;
P= Permanent;
CY= Current Year;
T= Termination;
X= Tax Department approval required

RECORDS CATEGORIES	RETENTION PERIOD (YEARS)

HUMAN RESOURCES / BENEFITS

APPLICANT FLOW STATISTICS	**6**
BENEFITS	
Applications / Enrollment / Elections	
Group Health and Accident Insurance	
Claims - Open	
Basic Hospital	
Inactive Medical	C + 6
Self Insurance	
Contributions, Employer	20X
Disability and Sick Benefit Records	
Distributions	T + 50
Government Filings	
Insurance Booklets	C + 6
Pension and Welfare Plans, Retirement Plans, Reports/Disclosures	
Actuary's Report/Valuation	
Annual Report	P
Annual Report Work Papers and Schedules	
Deduction Control Records	P
Employee Records	
Plan Documents	P
Statements - Participant	
Trust Fund Report	P
Reports, Benefits Accounting	
Account Status Reports	
Benefit Payments	10
Close Out	
Edits, Final	10
Expense Allocations	
Financial Control Reports	10
Internal Billing Statements	
Loan Status Reports	10
Participant Files	
Plan Accounting Reports (Plan Allocations)	20
Plan Contribution, Forfeitures and Loan (CFL)	
Reconciliations	10

RETENTION CODES:

C= While Current, Active or in Effect;
S= After Settlement;
P= Permanent;
CY= Current Year;
T= Termination;
X= Tax Department approval required

RECORDS CATEGORIES

RETENTION PERIOD (YEARS)

Health, Safety, Environmental and Remediation

PRODUCT SAFETY / TOXICOLOGY (CONT'D)

TRAC Minutes	50
TSCA Files	30
Toller Evaluations / Questionnaires	5
Toxicology	
Studies and Reports	[illegible]
Project Files	10
Protocols and Reports	[illegible]
Manuscripts	30
Litigation Files	[illegible]

RETENTION CODES:

C=	While Current, Active or in Effect;	CY=	Current Year;
S=	After Settlement;	T=	Termination;
P=	Permanent;	X=	Tax Department approval required

Records Categories	Retention Period (Years)

Health, Safety, Environmental and Remediation

Safety / Industrial Health / Loss (Cont'd)	
Workers Compensation Accruals Allocations and Metrics	7
Workers Compensation Claims	30
Workplace Hazard Assessments for PPE	C + 5
Quality Assurance	
Annual Audit Schedules	50
Assurance Letters Submissions	5
Audit Metrics and Summaries	5
Board of Directors Reports	5
Draft Audit Reports	*When final report issued*
Final Assurance Letter Submitted to CRG	5
Final Audit Reports	7
Remediation	
Administrative Consent Orders / Decrees	50
Check Requests, Invoices, Wire Transfer Copies	25
Contracts	C + 6
Due Diligence Files	50
Executive Settlement Approvals	50
Site Assessments	50
Superfund and Remediation Site Files	50
Product Safety / Toxicology	
EPA	
Section 8(a-e), Sections 5, 12, 13, PMN Records	30
PMN / NOC	10
FIFRA	
Records - All	30
MSDS	
Honeywell	5
Vendors	P
PEL Committee Decisions and Supporting Records	30
PIC Minutes	P
Product Information	30
Product Labels	P

Retention Codes: C= While Current, Active or in Effect; S= After Settlement; P= Permanent; CY= Current Year; T= Termination; X= Tax Department approval required

Records Categories

Retention Period (Years)

Health, Safety, Environmental And Remediation

Safety / Industrial Health / Loss

Annual Program Audits	
Confined Spaces, Zero Energy, Line Breaking, Electrical Work	C + 1
Annual Ventilation Surveys	2
Asbestos Negative Pressure Exposure Assessment	[illegible]
Contractor Safety Declarations and Contractor Training	C + 2
Correspondence With Safety Regulators	[illegible]
Disaster Plans	C + 5
Emergency Drill Critiques	[illegible]
Exposure Monitoring Records	
[illegible]	
Other Air Sampling Results	T + 30
[illegible]	[illegible]
Fire Damage Reports	C + 5
Hazard Analyses – Hubbles	[illegible]
Incident Investigations Documentation	C + 5
Injury Frequency Reports	[illegible]
Inspection Records – Emergency Use Respirators, Forklifts, Fire Extinguishers, Emergency Lighting, Safety Showers, Eyewashes, Housekeeping, Insurance Company Reports	C + 1
(e.g., Zurich, Global Risk) and Their Action Plans	C + 5
Machinery and Equipment Safeguarding Risk Assessments	C + 1
Needs Assessments for Safety Meetings and	
Safety Training Documentation	[illegible]
OSHA 200 Injury / Illness Logs	C + 5
OSHA Citations (Decisions, Settlements, Orders)	[illegible]
Permits – Confined Spaces, Hot Work, Line Breaking, Zero Energy	C + 1
Process Safety Reviews, Pre-startup Checklists	[illegible]
Radioactive Source Disposal Records	P
Radioactive Source Inventory	[illegible]
Radioactive Source Leak Tests	C+ 30
Radioactive Source Licenses	[illegible]
Regulatory - Required Safety or IH Training	
Attendance and Course Content	[illegible]
(e.g., Hazcom, Respirators, Noise, Forklifts, Confined Space)	
Respirator Fit Test Results	[illegible]
Safety Meeting Attendance	C + 10
Safety Metric Reports and Summaries	[illegible]

Retention Codes:

C=	While Current, Active or in Effect;	CY=	Current Year;
S=	After Settlement;	T=	Termination;
P=	Permanent;	X=	Tax Department approval required

RECORDS CATEGORIES

RETENTION PERIOD (YEARS)

HEALTH, SAFETY, ENVIRONMENTAL and REMEDIATION

ENVIRONMENTAL

Air Emission Inventories	5
Annual Progress Reports – Waste Minimization Team	[illegible]
Reports Filed With an Environmental Regulatory Agency	C + 5
CMA Responsible Care Submissions	[illegible]
Complaints (internal or external to company)	10
Consultant / Contractor Agreements	[illegible]
Disclosure Documents – Sites Sold	50
Environmental Incident Reports	[illegible]
EPA violations	10
EPCRA Reports	[illegible]
Geological / Groundwater Maps	50
Hazardous Waste Manifests	[illegible]
Monitoring Data	
Air, Drinking Water, Wastewater	[illegible]
Groundwater	25
Permits	
Air / Water	[illegible]
Waste	C + 25
RCRA	
Financial Assurance	[illegible]
Training Records	T + 10
SARA Reports	[illegible]
Spill Reports Made to Agencies	5
Superfund Records	[illegible]
TRI Form R's	5
Underground Storage Tank Financial Assurance	[illegible]
Waste Disposal Sites - Lists	50
Waste Purchase Orders / Transactions	[illegible]

MEDICAL

Calibration records –	
Pulmonary Function Machines and Audiometers	[illegible]
Employee Substance Abuse Screening Results	T + 30
Epidemiology Studies	[illegible]
Medical Dispensary Records/First Aid Logs	T + 30
Medical Records	
Arsenic Exams (including x-rays)	Longer of 40 or T + 20
All Other than Arsenic (including x-rays)	T + 30

RETENTION CODES:
C= While Current, Active or in Effect;
S= After Settlement;
P= Permanent;
CY= Current Year;
T= Termination;
X= Tax Department approval required

Records Categories	Retention Period (Years)

Finance

Treasury

Debt Issuance and Ratings Reports	S + 6
Financial Reports on Cash Flow, Liquidity, Capitalization, Interest Charges, Income and Debt Composition	S + 3
Foreign Currency Management Reports	6X
Letters of Credit	C + 6

Stock and Shareowner Records

Capital Stock

Applications for Issuance	P
Certificates, Canceled	10
Stock Transfer Records	P

Correspondence

Current	P
Routine	2
Dividend Records	P
Escheat Records	P
Meetings and Minutes	P
Proxies, Voted	C + 10
Voting Lists	P

Retention Codes: C= While Current, Active or In Effect; S= After Settlement; P= Permanent; CY= Current Year; T= Termination; X= Tax Department approval required

RECORDS CATEGORIES	RETENTION PERIOD (YEARS)

Finance

RISK MANAGEMENT / INSURANCE CONT'D

Workers' Compensation	30
Accruals	[redacted]
Allocations	7
Claims	[redacted]
Metrics	7
State Workers Compensation Insurance	[redacted]

TAXES

Employment - All	
Returns	[redacted]
Work Papers	10X
Excise - All	
Returns	[redacted]
Work Papers	10X
Franchise - All	
Returns	[redacted]
Work Papers	15X
Income - All	
Returns	[redacted]
Work Papers	15X
Payroll - All	
Returns	[redacted]
Work Papers	10X
Personal Property - All	
Returns	[redacted]
Work Papers	10X
Real Property - All	
Returns	[redacted]
Work Papers	10X
Sales - All	
Returns	[redacted]
Work Papers	10X
Unemployment - All	
Returns	[redacted]
Work Papers	10X

RETENTION CODES: C= While Current, Active or in Effect; S= After Settlement; P= Permanent; CY= Current Year; T= Termination; X= Tax Department approval required

Records Categories

Retention Period (Years)

Finance

Risk Management / Insurance

Alchem	
Annual Reports	P
Assurance Balance Sheets	7
Interim Reports	7
[illegible]	[illegible]
Premium Statements, Periodic	7
Automobile	
[illegible]	[illegible]
Auto Subrogation	6
[illegible]	[illegible]
Certificates of Insurance	P
Correspondence	
[illegible]	[illegible]
Renewal	P
Summary Sheets	[illegible]
Earned Premium Statements	10
[illegible]	[illegible]
Claims, Releases	
[illegible]	[illegible]
Miscellaneous	T + 10
[illegible]	[illegible]
Schedule of Insurance	P
Premiums, General	[illegible]
Property	
Fire	[illegible]
Insurable Value Reports, Schedules	S + 7
Loss Control Reports	S + 7
Replacement Value Reports	S + 7
Surety Bonds, General	S + 7

Retention Codes:
C= While Current, Active or In Effect;
S= After Settlement;
P= Permanent;
CY= Current Year;
T= Termination;
X= Tax Department approval required

RECORDS CATEGORIES

RETENTION PERIOD (YEARS)

Finance

CONTROL (CONT'D)

General Ledger

Bank Reconciliation	6X
Currency Transaction Entries	6X
Employee Benefit Cost Records and all Pertinent Supporting Documents	P
Employee Expense Reports and all Pertinent Supporting Documents	6X
Financial Schedules and Statements and Supporting Analysis Monthly Reports	10
Annual Reports	P
Inventory Records	10
Journal Entries, Account Ledgers, General Ledgers, Trial Balances and all Pertinent Supporting Documents	P

Government Contracting

Contract Support Documents	
Disclosure Statements	C + 7X
Forecast Proposals	
Incurred Cost Proposals	C + 7X

Planning

Capital and Related Supporting Documents	
Forecasts (full year)	5
Forecasts (monthly and quarterly)	3
Operating Plan and Departmental Budgets	3
Presentations to Board of Directors	
Presentations to Security Analysts	5
Special Analyses	
Strategic Plan	3

INVESTMENTS

Pension and Savings Plan Master Trust Statements, Performance and Strategy Reports, Investment Data and all Pertinent Supporting Documents	6X

PLANNING AND DEVELOPMENT

Acquisition Studies	2
Acquisition Valuations	6
Disposition Proposals	6
Disposition Studies	2

RETENTION CODES:

C= While Current, Active or in Effect;
S= After Settlement;
P= Permanent;
CY= Current Year;
T= Termination;
X= Tax Department approval required

RECORDS CATEGORIES	RETENTION PERIOD (YEARS)

FINANCE

AUDIT

Reports and Work Papers	6X

CONTROL

Accounts Payable	
Vendor Invoices, Ledgers, Cash Disbursements and all Permanent Supporting Documents	
Wire Transfers	10X
Accounts Receivable	
Company Invoices, Cash Receipts, Credit Advices, Uncollected Accounts and all Permanent Supporting Documents	
External Reporting	
Department of Commerce Reports	
Federal Reserve Bank Reports	5
FTC	
Form 1G Report	
Hart Scott Filing (pre-merger SIC data)	5
FOCI	
Certification to DOD and DOE (sales data)	
Government Reports	
SEC	
Form 10-K	
Form 10-K Work Papers	10X
Form 10-Q	
Form 10-Q Work Papers	10
Form 8-K	
Shareowner Reports	
Annual Report	
Annual Report Work Papers	10X
Earnings Press Release Work Papers	
Quarterly Report	P
Quarterly Report Work Papers	10
Fixed Capital	
Appropriation Requests and Related Supporting Documents	6X
Property and Depreciation Records	C+3X

RETENTION CODES: C= While Current, Active or in Effect; S= After Settlement; P= Permanent; CY= Current Year; T= Termination; X= Tax Department approval required

RECORDS CATEGORIES	RETENTION PERIOD (YEARS)

Engineering

Manufacturing Engineering, Revision Authorization Logs	C + 6
Negotiation File	C
Photographs, Engineering Related	P
Planning and Progress Sheets	C
Project Files	P
Project Plans and Specifications – Abandoned	C
Specifications	
Engineering	P
Materials and Process	P
Standards	P
Test and Design Data	P
Work Orders and Timekeeping Records	C + 6
Working Papers	C

RETENTION CODES: C= While Current, Active or in Effect; S= After Settlement; P= Permanent; CY= Current Year; T= Termination; X= Tax Department approval required

RECORDS CATEGORIES

RETENTION PERIOD (YEARS)

ENGINEERING

Acceptance Test Procedures and Results	P
Blue Prints, Drawings, Maps, Tracings	P
Calculation Files, Project	30
Certification/Qualification Documentation	P
Cipher Books	P
Completed Job Folders	10
Completed Projects Reports	P
Construction Estimates and Bids	
Successful	30
Unsuccessful	6
Contract Progress Reports	T + 6
Contractually Required Data and Documents	[illegible]
Data Books (Site Records Of Environmental Cleanup)	50
Design Manuals Site Drawings	
Environmental Superfund Remediation Project	50
Design Review, Minutes	P
Designs	P
Engine Assembly Reports	P
Field Service Engineering Reports	10
Formulas, Engineering and Technical	P
Inspection Reports	
NDT, Customer	6
NDT, Plant	2
Plant Set-Up	5
Production and Traffic	6
Railcar	50
Literature	C
Log Books	S + 30
Manuals	
Information	C
Systems and Procedures	C + 6

RETENTION CODES:

C=	While Current, Active or In Effect;	CY=	Current Year;
S=	After Settlement;	T=	Termination;
P=	Permanent;	X=	Tax Department approval required

RECORDS CATEGORIES	RETENTION PERIOD (YEARS)

BUSINESS ORGANIZATION

ORIGINAL (Red)

ANNUAL MEETING	
Minutes (see Board of Directors)	
Official Documents	P
Transcripts	P
ANNUAL REPORTS	P
ART WORK APPRAISALS	P
BOARD OF DIRECTORS	
Background Material	P
Board and Committee Minutes	P
Certificate Record Book	P
Company Seal	P
Stock Certificates	T + 10
BONDS (SEE ALSO SECURITIES, STOCKS)	
Canceled	P
Indemnity for Stock Certificates	P
Interest Coupons, Paid/Unpaid	10
Ledgers	P
Registers	P
Sales or Transfers	P
Stubs	P
BY-LAWS	P
CERTIFICATES OF INCORPORATION	P
FOUNDATION	
Contributions	7X
Minutes	P
MINUTE BOOKS	P
(see Board of Directors)	
SECURITIES	
Ledgers	P
Listing Application	P
Options	P
Purchase and Sales	P
Registration	P
Warrants	P

RETENTION CODES: C= While Current, Active or in Effect; S= After Settlement; P= Permanent; CY= Current Year; T= Termination; X= Tax Department approval required

RECORDS CATEGORIES

RETENTION PERIOD (YEARS)

Administration / Operations

FACILITIES / OPERATIONS (CONT'D)

Meter Readings, Applications	6
Occupancy Report	C + 3
Plant Layout	P
Scrap Materials	2
Telephone Closet Wiring Diagrams	C

INFORMATION TECHNOLOGY

Electronic Data Processing Documentation Design, maintenance, programs	C
Equipment Leases	[illegible]
Equipment Repair	3
Software	[illegible]
Software Maintenance Plans	C

PUBLIC RELATIONS / PUBLIC AFFAIRS

Bulletins / News Releases / Publications	7
Clippings	[illegible]
Clippings, Historical	P
Photographs, Historical Materials	[illegible]
Speeches	1

SECURITY

Disaster Plan	C + 4
Investigations, Threats and Incidents	[illegible]
Personnel Security Clearance	T + 5
Plant Clearances	[illegible]
Security Correspondence	C + 6
Security Programs	[illegible]
Visitor Logs	C + 2

RETENTION CODES:
C= While Current, Active or in Effect;
S= After Settlement;
P= Permanent;
CY= Current Year;
T= Termination;
X= Tax Department approval required

RECORDS CATEGORIES	RETENTION PERIOD (YEARS)

ADMINISTRATION / OPERATIONS

ORIGINAL (Red)

ADMINISTRATION - GENERAL

Activity Reports	
Monthly	C
Year End	3
Agenda/Schedule	CY
Associations/Memberships	3
Books, Informational and Technical	C
Cafeteria	2X
Calendars	CY
Catalogs (vendor)	C
Chronological Files	C
Committee Meetings, Minutes	C
Consultants Agreements	C
Correspondence	7
E-Mail	2 years
Equipment Instructions/Service	C
Expense and Budget Statements (Departmental)	CY
Library	C
Management Policies	C
Meetings - Planning/Strategy	2
Objectives - Administrative	C
Organization Charts	10
Power of Attorney	P
Procedures (see also Engineering, Manuals)	C
Project Management	C
Record Destruction Certificate Reports	10
Record Retention Schedules	C
Special Studies	4
Supplies	CY
Warranties on Purchased Products	C + 9

FACILITIES / OPERATIONS

Building Drawings	P
Building Operation Test Reports	C
Building Specifications, Originals	P
Maintenance	
Equipment History	P
Maintenance Billing Report	CY
Preventive Maintenance	P
Work Orders	C

RETENTION CODES:
C= While Current, Active or in Effect;
S= After Settlement;
P= Permanent;
CY= Current Year;
T= Termination;
X= Tax Department approval required

The Following Abbreviations or Codes are used in the Guidelines:

C	While Current, Active or in Effect: i.e., until outdated, Revised or Superseded
	Example: C + 2 means retain while current + 2 years
CY	Current Year
P	Permanent
S	After Settlement; Until Expiration of Last Obligation
T	Termination
X	Tax Department Approval Required for Destruction

Honeywell

Supersedes	Title	Policy
May 1995	**Records Retention Policy**	105
Date		Page
May 1997		1

I. It is the policy of the corporation to generate and retain only those papers, records and electronic data that are required for the effective running of our businesses and to meet our obligations to employees, customers, suppliers, shareholders and government authorities. Everyone who generates, receives or stores papers, records and electronic data at any AlliedSignal location is responsible for implementing this policy.

II. The purpose of this policy is to increase productivity and save costs by reducing the amount of information stored and the time spent retrieving required information from a morass of duplicative and other unnecessary papers, records and electronic data.

III. To carry out this policy:

a. Only the originator of information should keep a record copy; copyholders and courtesy distributees should not retain their copies.

b. Once a document has been finalized, drafts should be discarded.

c. Non-essential documents that do not require acknowledgment or follow-up and are not required for the conduct of business should be discarded.

d. Offices, file rooms and records retention centers will retain or discard documents in accordance with the Records Retention Guidelines approved by the Law and Tax Departments.

e. All offices are encouraged to have an annual "File Day" when files not needed for day-to-day operations are culled and only necessary materials are forwarded to records retention centers for storage in accordance with the Records Retention Guidelines.

f. Electronic records, microfilm and microfiche will be retained in accordance with this policy and the Records Retention Guidelines.

IV. Records Retention Centers will discard records without further approval when the applicable retention period has expired, except when notified that records are required for litigation or due to government audits, claims or investigations. Tax records and audited financial statements are a general exception and may be discarded only after approval by the Tax Department.

V. The Records Retention Guidelines consistent with this policy is available from the Law Department providing retention schedules by categories of documents. All officers and records retention centers will be guided by those Guidelines or such other manual consistent therewith as may be approved by the Law and Tax Departments.

Honeywell

ORIGINAL (Red)

Bulletin

September 11, 2000

Honeywell's corporate-wide Records Retention Policy is to keep the records that we need for as long as we need them. This also means that we keep *only* the records that we need *only* for as long as we need them.

To that end, we have enclosed the updated Records Retention Guidelines that give the specific retention periods for various categories of records. Please note that the Guidelines apply to all records: E-Mail, files, data banks and documents, generally.

E-Mail is a particular concern as unrestrained E-Mail can tax the storage capacity of our computers. The maximum retention period for E-Mail is 90 days. But much, if not most, E-Mail can be deleted immediately. E-Mail that is needed beyond 90 days should be transferred to a permanent file or printed as hard copy.

Your help is also needed to reduce the other documents that pile up in our file drawers, record centers and warehouses, as well as our data banks. Please help by following these three common sense principles:

1. Eliminate drafts once the final version has been reached.

2. Discard or delete copies of broadcast memos or messages as soon as they have outlived their usefulness -- which is usually right after they have been read.

3. Before files are forwarded to a records center or storage, they should be edited to assure compliance with the enclosed Records Retention Policy and Guidelines.

Thanks for your help.

Sincerely,

Peter M. Kreindler
Senior V.P. & General Counsel

James T. Porter
Senior V.P. & Chief Administrative Officer

TABLE OF CONTENTS

Introduction i

The Corporate Records Retention Policy iii

Retention Codes iv

RECORD CATEGORIES:

Administration / Operations 1

Business Organization 3

Engineering 5

Finance 6

Health, Safety, Environmental and Remediation 11

Human Resources/Benefits 15

Law 20

Manufacturing / Production 21

Marketing / Sales 25

Purchasing / Materials Management 26

Research / Development 27

Shipping / Transportation 28

Records Glossary - Acronyms 29

Records Glossary - *Records Management Terms* 31

INTRODUCTION

These Record Retention Guidelines establish the world-wide retention periods for all of our "records" - - including notes, documents and electronically stored material, whether stored in a file cabinet, record center, hard drive, personal computer or a desk drawer. The Guidelines are consistent with Honeywell's Records Retention Policy, a copy of which follows.

For ease of use, the Guidelines are organized by broad categories, which are subdivided alphabetically. When records with varying retention periods are filed as a unit, the retention period is that of the document with the longest requirement. Records stored for extended periods should be reviewed periodically to assure that they remain in usable condition. Conversion from paper to electronic media should be considered for records with long retention periods.

When the end of a retention period is reached, the "owner" of the record may be notified of the impending destruction date. Unless otherwise instructed, the destruction will proceed as indicated by the Guidelines. From time to time the Law and Tax Departments may suspend the destruction of certain records because of litigation, audits or other government proceedings. The affected records should be retained until further notice. In any event, Tax and Controllers' records are not to be destroyed without approval from the Tax Department.

Records of little or no ongoing importance (which includes most E-Mail) should be eliminated immediately after their initial review. E-Mail that needs to be retained beyond the maximum 90-day retention period should be removed from E-Mail and transferred to a more permanent file. Similarly, unedited files should not be submitted to a record center until the "owner" has eliminated information copies, drafts and other unnecessary materials.

Certain businesses may require individualized record retention guidelines. Such guidelines need the prior approval of the Law Department to assure consistency with Honeywell's Record Retention Policy. Questions and suggestions should be addressed to Global Business Services' Records & Information Management group or Honeywell's Law Department. Copies of the Guidelines are available from Records & Information Management or on the Intranet at http:myhoneywell.com/gbs/services.

VISION STATEMENT

Records and Information Management operations integrated within each strategic business unit, using web-based, desktop access, reducing corporate liability risk and costs, and providing Honeywell increased business-continuity readiness.

Honeywell

ORIGINAL (Red)

AlliedSignal Inc.
Records Management Services
101 Columbia Road
AB-3-A
Morristown, NJ 07962-1057

Phone: (973) 455-4633
Fax: (973) 455-6859

AlliedSignal Inc.
Records Center
64 South Jefferson Road
Whippany, NJ 07981

Phone: (973) 887-6709
Fax: (973) 887-1597

Working papers, engineering 5
Workpapers & schedules (annual report), pensions 14

X
X-rays 2