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**OHIO ENVIRONMENTAL PROTECTION AGENCY
(OEPA) DIRECTOR'S FINDINGS AND ORDERS
AND SECTION IV CONSENT DECREE REPORT -
TECHNICAL PROGRESS REPORT FOR JULY**

10/15/92

**DOE-0103-93
DOE-FN/OEPA
5
LETTER**



Department of Energy
Fernald Environmental Management Project
P.O. Box 398705
Cincinnati, Ohio 45239-8705
(513) 738-6357

3819

OCT 15 1992
DOE-0103-93

Mr. Thomas A. Winston, District Chief
Ohio Environmental Protection Agency
Southwest District Office
40 South Main Street
Dayton, Ohio 45402-2086

Dear Mr. Winston:

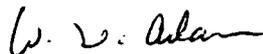
OHIO ENVIRONMENTAL PROTECTION AGENCY (OEPA) DIRECTOR'S FINDINGS AND ORDERS AND SECTION IV CONSENT DECREE REPORT - TECHNICAL PROGRESS REPORT FOR JULY 1 THROUGH SEPTEMBER 30, 1992

Enclosed is the quarterly technical progress report describing the Fernald Environmental Management Project progress with respect to compliance with the Proposed Amended Consent Decree and the OEPA Director's Findings and Orders.

In addition to this report, Revised Table C-1 is enclosed which provides a list of all waste streams identified under the Proposed Amended Consent Decree (PACD) as well as waste streams identified as a result of routine Resource Conservation and Recovery Act (RCRA) determinations.

If you or your staff have any questions, please contact David Rast at extension 513-738-6322.

Sincerely,


W. D. Adams
Acting Manager

FN:Rast

Enclosure: As Stated

cc w/enc.:

J. Van Kley, Ohio AGO
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OHIO ENVIRONMENTAL PROTECTION AGENCY DIRECTOR'S FINDINGS AND ORDERS AND
SECTION IV CONSENT DECREE
QUARTERLY TECHNICAL PROGRESS REPORT

July 1 - September 30, 1992

Section I - Proposed Amended Consent Decree

<u>Section</u>	<u>Activity</u>	<u>Status</u>
3.5.1.(d)(i)	Submit report on results and analysis for remaining drums identified under the Proposed Amended Consent Decree by September 30, 1992.	COMPLETE. Sampling and analysis report was submitted to the Ohio EPA on September 25, 1992.
3.8.(b)	Daily/weekly inspection of Plant 1 Pad.	ONGOING. Inspections are performed as required to meet the proposed requirements.
3.11	Report all HWMUs.	IN PROCESS. The ASI Oil Storage Shed, located to the west of Waste Pit No. 5 in the ASI Camp, was reported as a designated HWMU on the last two quarters' input reports. The facility is currently under review. A final RCRA HWMU determination will be forthcoming.

**OHIO ENVIRONMENTAL PROTECTION AGENCY DIRECTOR'S FINDINGS AND ORDERS AND
SECTION IV CONSENT DECREE
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July 1 - September 30, 1992

Section II - Consent Decree

<u>Section</u>	<u>Activity</u>	<u>Due Date</u>	<u>Status</u>
4.9	Perform cleanout of SWRB (when approximately 150,000 gallons of sediment is accumulated) at 24-month intervals based on maintenance schedules approved in the SWRB PTI.	12/18/92 9/27/93	AS REQUIRED. The SWRB east chamber was inspected during December 1990. The SWRB west chamber was inspected during September 1991. The volume of sediment in both chambers was below the level requiring cleanout. The next required inspection will be in December 1992 and September 1993 respectively.
4.9	Perform cleanout of BSL (when approximately 500,000 gallons of sediment is accumulated, but no more than once per year, as stated in the BSL PTI).		AS REQUIRED. The lagoon was evaluated for cleanout. The volume of sediment was below the level requiring cleanout. Lagoon needs to be evaluated again for cleanout by July 1993, and a determination made.
4.11(a)	Implement a Best Management Practices (BMP) Plan after approval by Ohio EPA for control of wastes that may be discharged from the FEMP.	4/18/88	ONGOING. The Ohio EPA approved the BMP Plan on 7/10/89. Documentation for required actions is being reviewed to assure that intent of the plan has been satisfied. Followup actions are being identified based on this review.

OHIO ENVIRONMENTAL PROTECTION AGENCY DIRECTOR'S FINDINGS AND ORDERS AND
SECTION IV CONSENT DECREE
QUARTERLY TECHNICAL PROGRESS REPORT

July 1 - September 30, 1992

Section II - Consent Decree

<u>Section</u>	<u>Activity</u>	<u>Due Date</u>	<u>Status</u>
4.11(b) DFO 11	Maintain BMP Plan.		ONGOING. FEMP revised the actions for implementation of the BMP Plan in order to remain consistent with the overall FEMP environmental protection program. The list of actions was transmitted to Ohio EPA on 8/28/89. As of 8/27/92, 27 of the 38 actions have been completed and their closeout documented. Steps are being taken to complete the remaining actions.
4.11(c)	Amend BMP whenever there is a change in the facility which has the potential to affect the discharging of waste.		AS REQUIRED. No amendments were required during the reporting period. The BMP committee is initiating a review of the plan to determine what modifications are needed.
4.11(d) DFO 13.	If requested by Ohio EPA, modify the BMP Plan within 45 days.		AS REQUIRED. No requests for modifications were received during the reporting period.
4.12	Modify the Zone of Influence Study Report within 30 days of Ohio EPA request.		AS REQUIRED. No requests for changes and/or additions to the report were received during the reporting period.
(DFO) 14(a)	Study the integrity of the FEMP outfall.		COMPLETE. A new effluent/outfall line will be installed as part of Removal Action 3 - South Groundwater Contamination Plume. This task is identified as part of the work plan for Part 2 of the South Plume Removal Action submitted to the Ohio EPA. The new outfall line is being designed to handle future FMPC capacity requirements.

OHIO ENVIRONMENTAL PROTECTION AGENCY DIRECTOR'S FINDINGS AND ORDERS AND
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July 1 - September 30, 1992

Section II - Consent Decree

<u>Section</u>	<u>Activity</u>	<u>Due Date</u>	<u>Status</u>
4.14	Comply with any permits issued to DOE pursuant to ORC 6111.03 (J) with regard to sewage, industrial wastes, or other wastes, and to comply with OAC 3745-31-02 and any permits issued pursuant to OAC 3745-31-02.		ONGOING. Twelve NPDES pH excursions (at an internal monitoring point) were reported during the June-August period.

TABLE C - 1

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REVISED: 05-Oct-9

RCRA REGULATED HAZARDOUS WASTE

WASTE ID #	WASTE NAME	U.S. EPA HAZARDOUS WASTE #	DETERMINATION BASIS
12	AEROSOL PAINT CANS	D001	PK
24	SPENT CHLOROFORM	D022	PK
46	BARIUM CHLORIDE LIQUID HEAT 980	D005	PK
47	BARIUM CHLORIDE (LIQUID HEAT 800)	D005	PK
91	MERCURY SPILL CLEANUP RESIDUE	U151	PK
119	BARIUM CHLORIDE SOLUTION	D005	PK
157	WD-40 SPRAY CAN	D001	MSDS
160	SPEED E NAMEL SPRAY PAINT	D001	MSDS
162	KRYLON CAR COLOR SPRAY PAINT	D001	MSDS
163	AEROSOL PAINT	D001	MSDS
183	WATER/GAS MIXTURE TANK #8	D001,D008,D018	PK
201	CRANKCASE OIL	D018	MSDS, PK
267	RAM PIT (UF4, MG, MGF2, OIL, OIL DRI)	D003, D018	PK
344	ITEK DEVELOPER (LIQUID)	D011	MSDS
376	OILY RAGS	F002,D008,D018	1,3,9
379	SPENT 1,1,1-TRICHLOROETHANE	F001,F002,D018,D008	MSDS, PK
380	RAGS WITH 1,1,1-TRICHLOROETHANE	F001, F002, D008, D018	1,3,7,8,9,11,12
381	AEROSOL PAINT CANS	D001	MSDS
382	DRY CELL BATTERIES	D002,D009	PK
383	X-RAY FIXER&DEVELOPER; MODERATE ACIDIC SOLUTION	D011	MSDS
385	SPENT SOLVENTS	F002,F001,D018	MSDS,7,8
386	FLOOR SUMP CLEANOUT SLUDGE	F001,F002,D019,D034	1,2,4,7,8
387	OIL SOAKED RAGS	F002,D010,D018	MSDS, PK
388	USED OIL	F002,D010,D018	MSDS, PK
389	OILY RAGS	F008,D009,D010	1,3,8,9
390	OILY SEMI-SOLID	F002, D018	1,4,8,9
391	WASTE AEROSOL PAINT CANS	D001	MSDS
392	DRY CELL ELECTRONIC STORAGE BATTERIES	D002,D006,D009	PK
393	LUBRICATING OIL	D008	1,3,8,9
395	PAINT THINNERS AND PAINT RESIDUES	F002,F003,F005,D001	PK
396	PAINT THINNER RAGS	F002,F003,F005	PK
397	1,1,1-TRICHLOROETHANE (CLEANING SOLVENT)	F001,F002,D018	MSDS, PK
398	SOLVENT RAGS	F001,F002,D018	1,3,7,8,9,11,12
399	OILY RAGS	F001,D008,D009	1,3,9
400	USED OIL FROM MAINTENANCE	F001,D001,D008	MSDS,1,4,7,8,9
401	SPENT 1,1,1-TRICHLOROETHANE	F001,F002,D018	PK
402	USED OIL	F001,F002,D008,D018	PK
403	1,1,1-TRICHLOROETHANE RAGS	F001,F002,D018	PK
404	OILY RAGS	F002,D008,D018	PK
405	DRY CELL BATTERIES	D002,D009	PK
406	AEROSOL CANS	D001	MSDS
408	USED OIL	F001,D005,D006,D008	1,3,7,8,9
409	1,1,1-TRICHLOROETHANE SOLVENT/OIL	F001,F002,D018	PK
410	OILY RAGS	F002,D008,D018	1,3,9
411	1,1,1-TRICHLOROETHANE SOLVENT RAGS	F001,F002,D018	PK
412	1,1,1-TRICHLOROETHANE	F001,F002,D001,D006	MSDS,1,3,8,9
413	1,1,1-TRICHLOROETHANE RAGS	F002,D008,D009,D039	1,4,9
414	USED OIL	F001,F002,D001,D006,D008,D009,D039	1,4,7,8,9
415	OILY RAGS AND ABSORBENTS WD-40 AND VARIOUS OILS	F002,D008,D018	MSDS, PK
417	WIPES, RESINS, SOLIDS	F002,F003,D004,D005,D008,D022	PK
418	SPENT ACETONE	F003,D001	MSDS
419	XYLENE	F003,D001	MSDS, PK
420	SOLIDS - WIPES, RESINS, ETC.	F002,F003,D004,D005,D008,D022	PK
421	METHANOL	F003,D001	MSDS
422	SPENT METHYLENE CHLORIDE	F002	MSDS
423	ELEMENTAL MERCURY	D009	MSDS
425	LABORATORY ACIDS (NITRIC AND CYCLOHEXANE)	D001,D002	PK
426	METHANOL AND CYCLOHEXANE MIXTURE	F003,D001	MSDS
427	NICKEL-CADMIUM BATTERIES	D002,D006	PK

TABLE C - 1

REVISED: 05-Oct-6

RCRA REGULATED HAZARDOUS WASTE

WASTE ID #	WASTE NAME	U.S. EPA HAZARDOUS WASTE #	DETERMINATION BASIS
428	CYANONITRILE IN WATER	D001	MSDS
429	HG BATTERIES	D002,D009	PK
430	TRASH, CONTAMINATED	F003,D005,D006,D007,D008	PK
432	ELEMENTAL MERCURY (SPILL CLEAN-UP MATERIALS)	U151	PK
433	AEROSOL SPRAY CANS PROPELLANT	D001	MSDS
434	SOLIDS CONTAMINATED BY LAB SAMPLES & MATERIALS	F002,F003,D004,D005,D006,D007,D008,D022	PK
435	PAINT HYPALON COATING	D001	MSDS,PK
436	SEALANT POLYCHLOROPRENE SOLUTION	D001	MSDS,PK
438	HYDRAULIC OIL FROM BALER IN DRUM RECONDITIONING	D018	1,3,4,5,7,8,9
444	SCRAP U308 & CHLORIDE SALT FROM TRENCH AROUND SALT BATH	D005	PK
447	LIQUID HYDRAULIC FLUID FROM FREIGHT ELEV. @ LAB BASEMENT	D018	PK
448	SLUDGE, HYDRAULIC OIL FROM FREIGHT ELEVATOR	D018	MSDS,PK
449	OIL SOAKED ABSORBENT PADS	D018	MSDS,PK
458	SLUDGE-LIKE, VERY STRONG SOLVENT ODOR	D018	PK
457	OIL	D018	PK
459	PAINT	F001,F002,F003,F005,D001	1,4,7,8,9
460	LIQUID & SOLID WASTE SAMPLES	F002, D004, D005, D006, D007, D008, D010, D018	1,3,7,8,9
468	OIL AND SOLVENTS W/ ANALYSIS	F002,D001,D007,D008,D010,D018	1,3,7,8,9
471	PRESSURE TREATED WOOD IN 8 DRUMS	D006	PK
473	ANTI-C PAPER COVERALLS & BOOTIES W/ LIME SLURRY	F001, F005	PK
476	LAB PACKED WATER AND RESIDUE SAMPLES	D007	2,4
478	CONTAMINATED OIL, SOLUBLE, FROM LATHE ON PLANT 64 PAD	D018	MSDS, PK
479	USED PAINT THINNER	F003,F005,D001, D006,D007,D008,D009,D011, D035	1,3,8,9
485	KEROSENE	D018	MSDS, PK
486	TETRACHLOROETHYLENE SPILL CLEANUP	U210	MSDS
487	RAIN WATER FROM UST #8 FORMERLY STORING GASOLINE	D008,D018	PK
493	STENCILED GASOLINE	D001,D018	1,3,7,8,9
507	GASOLINE	D001,D018	MSDS, PK
508	PAINT THINNER	D001	PK
514	BAD PAINT FROM PAINT BOOTH	F001,F002,F003,F004,D001,D007,D008	1,4,7,8,9
520	PETROLEUM PRODUCT WITH RAIN WATER	D018	MSDS, PK
527	OILY RAGS, CLEAN UP MATERIAL, GLASS JAR	F002,D018	PK
533	PAINT (POSSIBLY GRAY EPOXY PAINT)	D001	1,3,7,8,9
534	MEK MARKED ON DRUM BLUEDRUM FLAMMABLE	U159	MSDS, PK
538	BORING # 1508	D006,D007,D008	2,6,10,11,12
539	BORING # 1509	D004,D006,D007,D008	2,6,10,11,12
540	BORING # 1512	D004,D005,D006,D007,D008,D011	2,6,10,11,12
541	BORING # 1513	D005,D006,D007,D008	2,6,10,11,12
542	BORING # 1514	D004,D005,D006,D007,D008	2,6,10,11,12
543	BORING # 1515, FROM THE FIRE TRAINING GROUNDS	D004,D005,D006,D007,D008	2,6,10,11,12
545	BORING # 1511	D004,D005,D006,D007	2,6,10,11,12
548	LEAD - COUNTERWEIGHTS, BEARINGS	D008	PK
549	CUTTING FLUID, ABSORBANT	D018	MSDS, PK
580	SOIL CONTAMINATED WITH OIL AND WATER	D018	MSDS, PK
584	KEROSENE (DIESEL FUEL)/SLUDGE/WATER FROM PUMP UST #3	D018	PK
585	ZINC COMPOUND (AEROSOL)	D001	MSDS
587	GREASE AND WATER	D001	1,3,7,8,9
594	SODIUM HYPOSULFIDE - DEVELOPING SOLUTION (CONTAMINATED)	D011	MSDS, PK
627	5-GAL CAN W/ SPILL CLEANOUT MATERIAL	F001	PK
628	SPILL CLEAN-UP MATERIALS	F001	PK
632	HYDRAULIC FLUID FROM BALER	D018	PK
633	OIL UNKNOWN GENERATION	D018	PK
634	BUFFERED KCN SOLUTION (ABOUT 2 LITERS @ 30 G PER LITER)	P098	PK
635	MERCURY SPILL CLEAN-UP AND SPENT MERCURY BATTERIES	D009	PK
638	USED OIL	D018	PK
639	OIL	D018	MSDS, PK
644	NON-RECOVERABLE TRASH, PADS, RAGS, WATER	D018	PK
658	CODED AS OIL - STRONG SOLVENT ODOR	D018	PK
659	LEAD AND WOOD SHAVINGS - UNKNOWN ORIGIN	D008	PK

RCRA REGULATED HAZARDOUS WASTE

WASTE ID #	WASTE NAME	U.S. EPA HAZARDOUS WASTE #	DETERMINATION BASIS
661	BORING # 1594 - FROM NORTHWEST CORNER BLDG. 12	F001	2,4,9,12
668	OIL DRY CONTAMINATED WITH OIL AND WATER FROM BALER	D018	PK
674	DRY CELL BATTERIES, BUILDING 11	D002,D006,D009	PK
675	NON-EMPTY AEROSOL CANS, BUILDING 11	D001	MSDS
676	DRY CELL BATTERIES, BUILDING 12	D002,D006,D009	PK
677	NON-EMPTY AEROSOL CANS, BUILDING 12	D001	MSDS
684	PRESSURE TREATED LUMBER	D006	PK
700	MAGNESIUM FLAKE AND OILY RAGS	D003	PK
716	WASTE OILS	D008,D018	MSDS, PK
720	BORING #1261	F001	2,4,9,12
743	CONTAINER OF PUMP OIL AND RAGS	F001	PK
768	DAAP/SOLVLESS MIXTURE	D001	PK
772	RESPIRATOR CANISTER	D007,D011	MSDS
776	BORING #1674, LOCATED INSIDE PILOT PLT NW	F001	2,4,9,12
777	AGITENE	D001, D005, D008	MSDS,1,4,7,8,9
778	CONTAMINATED OIL	D018	PK
817	PAINT CHIPS FROM SAND FILTERS AT WATER PLANT	D008	MSDS,4,9
819	BORING #1251	F001	2,4,9,11,12
820	LEAD ACID BATTERIES	D002, D004, D008	MSDS
825	METHYL ISOBUTYL KETONE, LABPACKED	U101, D001	PK
827	SODIUM AMIDE, STABILIZED AND LABPACKED	D003	PK
828	1,4-DIOXANE, STABILIZED, LABPACKED	U108, D001	PK
841	MERCURY SPILL CLEAN UP AND MERCURY BATTERIES	U151,D002,D009	PK
844	URANYL NITRATE SOLUTION IN TANKS	D002,D005,D007	PK
870	VARNISH - UNUSED	D001	MSDS
873	SPENT FIXER	D011	MSDS
874	LEAD BRICKS, LEAD WINDOW SASHINGS, BABBIT HAMMER	D008	PK
1060	CADMIUM SPRINGS	D006	4
1081	CADMIUM SPRINGS	D006	PK
1178	GROUNDWATER FROM WELL #2649	F002	2,4,7,9
1180	GROUNDWATER FROM WELL # 1031	F002	PK,1,3,7
1182	CLEAR DISPERSANT, TYPE "H" PREMIX, BLACK, MAGENTA	D001	MSDS
1183	CLEAR DISPERSANT, TYPE "H" PREMIX, TYPE "H" CONCENTRATE	D001	MSDS
1184	CLEAR DISPERSANT, TYPE "H" PREMIX, TYPE "H" CONCENTRATE	D001	MSDS
1185	TYPE 028 FIX; CD-5 DEVELOPER	D011	MSDS
1199	MERCURY CONTAMINATED FLOOR TILE & PIPE INSULATION	D009	MSDS
1229	CONTAMINATED SUMP WATER	F002, F003, D001, D008, D018, D019, D039, D040	2,4,7,8,9,11
1251	FREON 11	U121	PK
1271	LEAD SOLDER JOINTS	D008	PK
1297	PC 49906 ITEK UNIVERSAL DEVELOPER	D011	MSDS,4
1298	ITEK PC 49907 ITEK INSTACOLOR ACTIVATOR	D002,D011	MSDS
1337	CONTAMINATED WATER NON CHLORIDE	D001	1,3,5,6,7,8,9
1412	CONTAMINATED ORGANIC CHEMICAL OR SOLVENT	F001,F002,D001,D006,D008	1,3,7,8,9
1415	CONTAMINATED INSOLUBLE OIL	F001,F002,D001	1,3,5,6,7,8,9
1429	CONTAMINATED ORGANIC CHEMICAL SOLVENT	D001,D008,D018,D028,D035	1,3,5,6,7,8,9
1432	NON CHLORIDE CONTAMINATED WATER OR SUMP LIQUOR	D001	1,3,5,6,7,8,9
1447	NON CHLORIDE CONTAMINATED WATER OR SUMP LIQUOR	F003,F005,D001,D008	1,3,7,8,9
1501	SPILL CLEANUPS OF OIL AND GAS FROM GASOLINE ENGINES	D018	MSDS
1532	BIODENITRIFICATION SURGE LAGOON SLUDGE	F001,F002,D018,D039	2,4,7,9,11
1536	RAINWATER FROM WASTE PIT AREA	F001,F002	PK
1537	FILTER MATERIAL - SAND, GRAVEL, FLYASH	F001,F002	PK
1550	URANIUM HEXAFLUORIDE AND URANIUM TETRAFLUORIDE	D003	MSDS
1560	BLACK OXIDE FROM CRUCIBLE BURNOUT	D004	MSDS
1585	LEAD ACID BATTERY (BROKEN)	D002,D008	MSDS
1613	123 PROCESSOR CLEANER	D002	MSDS
1620	VEGETATION FROM THE ETF CLOSURE	F001,F002	PK
1665	ELECTROSTATIC MASTER LIQUID DEVELOPER	D001	MSDS
1667	ISOPROPYL ALCOHOL	D001	MSDS
1691	HYDROFLUORIC ACID	U134,D002	MSDS

TABLE C - 1

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REVISED: 05-Oct-92

RCRA REGULATED HAZARDOUS WASTE

WASTE ID #	WASTE NAME	U.S. EPA HAZARDOUS WASTE #	DETERMINATION BASIS
1692	NITRIC ACID	D002	PK
1705	LAB GENERATED WASTE, OIL FROM TCLP EXTRACTS	D001,D004,D006,D008,D010	1,3,7,8,9
1706	LAB WASTE, TCLP EXTRACT	F002,F005	1,4,7,8,9
1707	LAB GENERATED WASTE, ACID DIGESTATES	F001, F002, D002, D007, D008, D019, D026, D039	2,4,7,8,9,11,12
1708	LAB GENERATED WASTE, METHYLENE CHLORIDE EXTRACTS	F002	2,4,7,8,9
1709	LAB GENERATED WASTE FLAMMABLE ORGANIC EXTRACTS	F003,F005,D001,D002	2,4,7,8,9
1710	ORGANIC LIQUID WASTE	F002,D001,D010	1,3,7,8,11,12
1711	METALS EXTRACTS AND DIGESTS	F001, F002, F005, D002, D008, D009, D010	1,3,7,8,11,12
1712	DIGEST FROM MERCURY LAB WASTE	D002,D008,D010	1,3,7,8,11,12
1713	OIL FROM TCLP EXTRACTS	F001,F002,F005,D040	1,3,8,11,12
1714	VOLATILE SOLID WASTE	D010	2,4,11,12
1715	CONTACT WASTE (LAB GENERATED WASTE)	D004,D008,D010	2,4,11,12
1716	LAB GENERATED WASTE, CONTACT WASTE SOLID	F001,F002,F005	1,4,11,12
1725	LUBRICATING OILS	D018	MSDS
1737	HARDENER	D002	MSDS
1740	(DOP) DI OCTYL PHTHALATE	U107	PK
1751	SPENT FIXER	D011	MSDS
1764	MULTILITH BLANKROLA SOLVENT	D039	MSDS
1773	CONCENTRATE FIXER	D011	PK
1775	DEGLAZING SOLVENT	F002	MSDS
1789	UNH	D004,D006,D007,D008,D010	4,7,9,13
1799	USED MINERAL SPIRITS	D001, D018	MSDS
1815	SPENT FUELS	D001,D018	MSDS
1819	WHATMAN RAD- CON	D001	MSDS
1822	SPRAY ADHESIVE	D001	MSDS
1829	AEROSOL PAINT	D001	MSDS
1840	BUFFER SOLUTIONS PH 1 & 2	D002	MSDS
1856	UNKNOWN MATERIAL	F001, F002	1,4,9
1895	PAINT BRUSHES V/DRIED PAINT	D007,D008	PK
1927	METALS EXTRACTS AND DIGESTS (IGNITABLE)(LAB GENERATED WASTE)	F001, F002, F003, F005, D001, D002, D008, D009, D010	1,3,7,8,11,12
1938	NON-CHLORIDE, CONTAM. WATER OR SUMP LIQUOR	F005,D006,D007,D008,D010	1,3,7,8,9
1973	ETHOXYETHANOL, MIBK, METHOXYETHANOL, 1,4 DIOXANE, ETHYL ETHER	U117,U213,U108,U359,U161,D001	PK
1974	ANYDROUS ETHER, STABILIZED	U117, D001	PK
1975	PVC PIPING FROM PLT 6 PERCHED WATER EXTRACTION PROJECT	F001	2,4,9,10,11,12
10002	SCRAP SALTS	D005, D008	1,4,9
10003	OILY OXIDATION SLUDGES WITH HIGH FREE METAL	F001, D001, D039	MSDS,1,4,7,8,9
10004	CONTAMINATED SOLVENT - TRICHLOR, PERCHLOR	F001, D007, D018, D019, D021, D029, D039, D040	1,4,7,8,9
10005	CONTAMINATED SOIL, ROCKS, BRICKS AND CERAMICS	D008	1,4,7,8,9
10006	CONTAMINATED OIL - INSOLUBLE	F001,D008,D009,D039	1,4,7,8,9
10007	OILY SLUDGES	F001, D007	1,4,7,8,9
10009	SLUDGES - SOLVENT (TRICHLOR, PERCHLOR, ETC.)	F005, D001, D008, D035	1,4,7,8,9
10010	SLUDGES, OILY	F001,D029,D039,D040	1,7,8,9
10011	CONTAMINATED BURNABLES	D005	1,4,9
10012	CONTAMINATED BURNABLES	F001,D029,D039,D040	1,4,9
10013	SUMP CAKE	D005, D007	1,4,7,9
10014	U-CONTAMINATED WATER	D039	1,4,7,8,9
10015	U-CONTAMINATED WATER FROM PILOT PLANT EXTRACTION AREA	D039	1,4,7,9
10017	LINERS/GLOVES CONTAM. WITH ROOFING CPD AND DIESEL FUEL	D007, D010	MSDS,1,4,9
10018	CONTAMINATED SOIL AND ROCKS	D005,D006,D007,D008,D009	1,4,9
10021	SLUDGES, OILY	F001, D008, D039, D040	1,4,7,8,9
10022	GRIT BLAST	D008	3,4,9
10023	NON-RECOVERABLE TRASH	F001,D008	1,3,10
10024	TRASH CONT. TO SOLVENT	F001, D018	1,4,9
10025	CONTAMINATED SOIL AND ROCKS	D005	4,9
10026	1,1,1-TRICHLOROETHANE STILL BOTTOMS	D001,F001	2,4,7,8,9
10027	CONTAMINATED OIL, INSOLUBLE	F001,D039,D040	1,4,7,8,9
10028	SLUDGES, OILY	F001,D008	2,4
10029	CONTAMINATED INSOLUBLE OIL	F001, D006, D007, D008, D019, D029, D040	1,4,7,8,9
10030	CONTAMINATED SOLVENTS (METHANOL)	F003, D001	PK

0118

TABLE C - 1

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REVISED: 05-Oct-9

RCRA REGULATED HAZARDOUS WASTE

WASTE ID #	WASTE NAME	U.S. EPA HAZARDOUS WASTE #	DETERMINATION BASIS
10031	FLOOR SUMP CLEANOUT SLUDGE	F001,D029,D039	1,4,7,8,9
10032	CONTAMINATED OIL - INSOLUBLE	F001	2,4
10034	BENZENE (LABPACKED)	U019,D001,D018	PK
10035	CARBON TETRACHLORIDE (LABPACKED)	U211,D019	PK
10036	ETHYL ETHER (LABPACKED)	U117,D001	PK
20003	DEGREASING SOLVENT	F001, F003, F005, D001, D019, D022, D028, D029, D035, D039, D040	1,2,4,9,11
20006	OIL CONTAMINATED WET SUMP OR FILTER CAKE	F002	1,4,7,8,9
20007	OIL CONTAMINATED WET SUMP OR FILTER CAKE	D011	1,4,7,9
20015	SCRAP SALTS AND FLOOR SWEEPINGS - LOW FLUORIDE	D007	1,4,9
20021	CONTAMINATED INSOLUBLE OIL	F001,D019,D029,D039,D040	1,2,4,7,8,9
20024	SCRAP SALTS AND FLOOR SWEEPINGS - HIGH FLUORIDE	D007,D008	1,4,9
20027	DUST COLLECTOR RESIDUES - HIGH FLUORIDE	D004,D011	2,4,9,11
20028	CONTAMINATED OIL - INSOLUBLE	F001,D039,D040	1,2,4,7,8,9,11
20033	PROCESS RESIDUES, TRAILER CAKES, SLURRIES, RAFFINATES	D008	1,4,9,11
20035	DUST COLLECTOR RESIDUES - HIGH FLUORIDE	D007	4,9
20036	SCRAP SALTS AND FLOOR SWEEPINGS - LOW FLUORIDE	F001	2,4,9,11
20037	PROCESS RESIDUES, TRAILER CAKES, SLURRIES, RAFFINATES	D029	2,4,9,11
20038	CONTAMINATED OIL - INSOLUBLE	F002, F005, D006, D008, D018, D019, D028, D029, D039, D040	1,2,4,7,8,9,11
20045	CONTAMINATED TBP AND/OR KEROSENE MIXTURES AND SLUDGES	F002,D019,D022,D039	1,2,4,7,8,9,11
20046	NON-METALLIC MISCELLANEOUS SAMPLES	D007	1,3,9
20047	SCRAP SALTS AND FLOOR SWEEPINGS - LOW FLUORIDE	D004, D008	2,4,9,11
20048	PROCESS RESIDUES, TRAILER CAKES, SLURRIES, RAFFINATES	F005	1,4,9
20053	CONTAMINATED SOIL, ROCKS, BRICKS AND CERAMICS	D007,D011	1,4,9
20054	CONTAMINATED SOLVENT - TRICHLOR, PERCHLOR	F001,F005,D019,D022,D028,D029,D039	1,2,4,7,8,9
20055	CONTAMINATED OIL - INSOLUBLE	F002,D029,D039	1,2,4,7,8,9,11
20058	DUST COLLECTOR RESIDUES - HIGH FLUORIDE	D006, D008	1,4,9
20092	CONTAMINATED BURNABLES	F001,F005	1,4,9
20094	CONTAMINATED BURNABLES, RAGS, FILTER, CLOTH	F001,D008,D011	1,4,7,8,9
20095	CONTAMINATED BURNABLES - RAGS, PAPER, POLYETHYLENE	F001,F005,D011	1,4,9
20107	CONTAMINATED NON-BURNABLES	D008	1,4,9
20109	DUST COLLECTOR BAGS	D004, D006, D008	1,4,9
20114	CONTAMINATED BURNABLES	F001	1,4,7,8,9
20120	DUST COLLECTOR BAGS	D007	1,4,7,8,9
20139	SAMPLES, NON-METALLIC	D005	1,4,7,8,9
20142	CONTAMINATED TBP - KEROSENE	F002,F003,D001,D019,D022,D039	1,2,4,7,8,9,11
20143	NON-RECOVERABLE TRASH	D011	1,4,7,8,9
20145	WET SUMP OR FILTER CAKE, OIL CONTAMINATED	D002,D007	1,4,7,8,9
20151	CONTAMINATED BRICKS, SOIL, ROCKS, SAND, ETC.	D004,D008,D011	1,4,9
30004	INCINERATOR CINDERS	F001	1,4,9
30005	OILY SLUDGES	F001, F003, F005, D001, D019, D039, D040	1,4,7,8,9
30009	SCRAP SALTS AND FLOOR SWEEPINGS - HIGH FLUORIDE	D008	4,9
30010	WET SUMP OR FILTER CAKE - OIL CONTAMINATED	F002,D039,D040	1,7,8,9
30018	WET SUMP OR FILTER CAKE - NON-OILY, NON-HALIDE	F002,D039	1,4,7,9
30026	NON-OILY CLEANOUT SLUDGES FOR ROASTING	F002,D039	1,4,7,8,9
30027	CONTAMINATED SOIL, ROCKS, BRICKS AND CERAMICS	D004,D005,D007,D008,D010,D011	1,2,4,7,8,9
30033	CONTAMINATED SOLVENT - TRICHLOR, PERCHLOR	F003,F005,D001,D039	1,4,7,8,9
30034	OIL CONTAMINATED WITH SOLVENTS (TANK 5)	F001, D018	2,4,7,8,9
30036	DUST COLLECTOR RESIDUES - HIGH FLUORIDE	D006, D008	1,4,9
30037	PROCESS RESIDUES, TRAILER CAKES, SLURRIES, RAFFINATES	F002,D039	1,4,9
30039	CONTAMINATED ROCKS, SOIL, ETC., WITH NO FREE LIQUIDS	D011	1,2,4,7,8,9
30042	WET SUMP OR FILTER CAKE - NON-OILY, NON-HALIDE	F002,D039	1,4,9
30045	OILY SLUDGES; HIGH FREE METAL	D001	1,4,7,8,9
30046	NON-OILY CLEANOUT SLUDGES FOR ROASTING	F001, D019	1,4,7,8,9
30047	SOLVENT SLEDGE, TRICHLOR, PERCHLOR, ETC...	D007,D011	1,4,9
30051	NON-METALLIC MISCELLANEOUS SAMPLES	D001, D003	4
30053	PROCESS RESIDUES, TRAILER CAKES, SLURRIES, RAFFINATES	F002, F005, D006, D007, D008, D018, D040	1,4,9
30060	WET SUMP OR FILTER CAKE - NON-OILY, NON-HALIDE	D005	1,4,9
30065	CONTAMINATED NON-BURNABLES	D008	4,9
30074	CONTAMINATED NON-BURNABLES	F002	1,4,5,6,7,8,9

NOTE: SEE FINAL PAGE FOR KEY TO DETERMINATION BASIS CODES

RCRA REGULATED HAZARDOUS WASTE

WASTE ID #	WASTE NAME	U.S. EPA HAZARDOUS WASTE #	DETERMINATION BASIS
30075	CONTAMINATED NON-BURNABLES	F002	1,4,9
30080	CONTAMINATED SOIL, ROCKS, DEBRIS, W/ FREE LIQUIDS	D002,D004,D007,D008,D011	1,2,4,7,8,9
30081	DISCARD PROCESS RESIDUES, TRAILER CAKES, SLURRIES, RAFFINATES	D002	1,4,9
30174	CONTAMINATED NON-BURNABLES	F005,D004,D008,D011	1,4,5,6,7,8,9
40137	UNFIRED REDUCTION CHARGES PLUS CaF2	D001	MSDS,PK
40152	SCRAP ThO2 - HIGH F	D005	4,5
40181	THORIUM NITRATE SOLUTION	D002,D007,D008,D001	PK
40182	THORIUM NITRATE SOLUTION	D002,D007,D008,D001	PK
40185	IMPURE THORIUM NITRATE (SOLID)	D007,D008,D001	PK
40186	IMPURE THORIUM NITRATE (SOLID)	D007,D008,D001	PK
40187	IMPURE THORIUM NITRATE (SOLID)	D007,D008,D001	PK
40188	IMPURE THORIUM NITRATE (SOLID)	D007,D008,D001	PK
40189	IMPURE THORIUM NITRATE (SOLID)	D007,D008,D001	PK
50002	NON-RECOVERABLE TRASH	D001,F003,F005	1,4,7,8,9
50008	SUMP CAKE - COPPER CONTAMINATED	D001	1,4,9
50010	NON-RECOVERABLE TRASH	F002,F005	1,4,7,8,9
50014	NON-RECOVERABLE TRASH	F002,D019	1,4,7,8,9
50022	CONTAMINATED WATER	F003,D001	1,4,7,8,9
50025	CONTAMINATED GRAPHITE	F001,F002	9
50031	CONTAMINATED METALLIC FILTER ELEMENTS	D008,D010	1,4,8,9
50036	CONTAMINATED BURNABLE	F002,D007	1,4,9
50058	DUST COLLECTOR BAGS	D007	1,4,9
50061	DUST COLLECTOR BAGS	D008	1,4,9
50063	ROASTED MG F2/OTHER MATERIAL	D004,D008	1,4,9
50068	NON-OILY SLUDGE FOR ROASTING	D001	1,4,7,8,9
50070	NON-OILY SLUDGE FOR ROASTING	F001,F002,D008	1,4,7,8,9
50071	SOLVENT SLUDGE	D001,D007	1,4,8,9
50072	CONTAMINATED SUMP WATER AND HYDRAULIC OIL	F001,F003,F005,D001,D008,D019,D039,D040	1,4,7,8,9
50079	INCINERATOR CINDERS	F002	4,9
50085	WET CAKE, NON-OILY/HALIDE	F002,F003,F005,D001	1,4,7,8,9
50089	CONTAMINATED MAGNESIUM	D001,D003	9
50090	CONTAMINATED MAGNESIUM	D001,D003	9
50091	DUST COLLECTOR RES. - PYROPHORIC	D004,D008	4,9
50095	CONTAMINATED INSOLUBLE OIL	D007	1,4,7,8,9
50096	NONRECOVERABLE TRASH	F003,D001,D007	1,4,7,8,9
50098	CONTAMINATED SOIL, ROCKS, BRICKS AND CERAMICS	D008	1,4,9
50100	COPPER CONTAMINATED SUMP CAKE - LOW U	F001	1,4,9
50101	DISCARD PROCESS RESIDUES	F002,D039,D040,D043	2,4,9,11,12
50102	PROCESS RESIDUES, TRAILER CAKES, SLURRIES, RAFFINATES	D006,D008	1,4,9
50108	DUST COLLECTOR RESIDUES - HIGH FLUORIDE	D004,D008	4,7,8,9
50113	ROASTED CALCIUM-PRECIPIATED SUMP AND FILTER CAKES	F001	1,4,9
50129	SCRAP U3O8 - LOW F	F001	4,9
50131	SCRAP U3O8 - LOW F	F002	9
50139	U3O8, + 8MESH, LOW F	D039	1,4,9
50148	SCRAP U3O8 HIGH F	D004	1,4,7,8,9
50152	SCRAP U3O8 OR ThO2, HIGH FLUORIDE	F002	9
50154	ROASTED CALCIUM-PRECIPIATED SUMP OR FILTER CAKES	F001	1,4,9
50165	ROASTED OFF-SITE SUMP CAKE	D007	4,9
50169	NON-OILY SLUDGE FOR ROASTING	D007	1,4,9
50170	SALT SLUDGE FOR PLANT 8	F002,D004,D019,D039	1,4,9
50173	SALT SLUDGE, CHLORIDE	D007	1,4,7,8,9
50174	SALT SLUDGE, CHLORIDE	D007	4,6,7,8,9
50175	SALT SLUDGE, CHLORIDE	F002	1,4,7,8,9
50177	FURNACE SALT, NON CHLORIDE	D004,D008	4,7,8,9
50178	FURNACE SALT, NON-CHLORIDE	D001	4,7,8,9
50180	FURNACE SALT, NON-CHLORIDE	D007,D008,D010	1,4,9
50183	SCRAP SALTS, LOW F	F001	1,4,9
50185	SCRAP SALT, HIGH F	D009	4,9
50188	SCRAP SALTS, HIGH F	D004,D007,D008,D010	1,4,9

RCRA REGULATED HAZARDOUS WASTE

WASTE ID #	WASTE NAME	U.S. EPA HAZARDOUS WASTE #	DETERMINATION BASIS
50197	SLUDGES FOR BLENDING	D007	1,2,6,7,8,9
50200	OILY SLUDGE FOR OXIDATION	F001,D001	1,4,7,8,9
50202	OILY SLUDGE FOR OXIDATION	D001,D010	1,4,7,8,9
50203	OILY SLUDGE FOR OXIDATION	D008	1,4,7,8,9
50204	OILY SLUDGE FOR OXIDATION	D001,D010	1,4,7,8,9
50256	CHIPS IN CONCRETE	D001	9
50257	NON-BRIQUETTABLE CHIPS AND TURNINGS	D001	9
50258	NON-BRIQUETTABLE CHIPS AND TURNINGS	D001	9
50259	NON-BRIQUETTABLE CHIPS AND TURNINGS	D001	9
50260	NON-BRIQUETTABLE CHIPS AND TURNINGS	D001	9
50261	NON-BRIQUETTABLE CHIPS AND TURNINGS	D001	9
50262	BRIQUETTABLE CHIPS AND TURNINGS	D001	9
50293	U308 FOR REOXIDATION	D004	4,9
50314	SCRAP SALTS AND FLOOR SWEEPINGS - HIGH FLUORIDE	D010	1,4,9
50323	SOLIDIFIED FURNACE SALTS - NON-CHLORIDE	D004	4,7,8,9
50339	SLUDGES, OILY, FOR OXIDATION, HIGH FREE METAL	F002	1,4,7,8,9
50346	OILY SLUDGE FOR OXIDATION	D001	1,4,7,8,9
50347	DISCARD PROCESS RESIDUE	D001	1,4,7,8,9
50349	DUST COLLECTOR RES. - HIGH F	D008	1,4,9
50351	DUST COLLECTOR RESIDUES - HIGH FLUORIDE	D004,D008	4,7,8,9
50355	DISCARD PROCESS RESIDUE	D001	1,4,7,8,9
50358	CONTAMINATED NON-BURNABLE	D001	1,4,7,8,9
50359	NON-RECOVERABLE TRASH	F002	1,4,6,9
50361	NON-RECOVERABLE TRASH	D009	5
50364	U308, +8 MESH, LOW F	F001,F002,D007	4,5,9
50367	NON-RECOVERABLE TRASH	D008	9
50387	SLT SLUDGE, CHLORIDE	D005	4,9
50406	NON-RECOVERABLE TRASH	D006,D007	4,5,6,7,8,9
50408	FURNACE SALT, CHLORIDE	D004,D011	4,5,9
50407	NON-RECOVERABLE TRASH	D001	1,3,5,6,8,9
50408	FURNACE SALT NON-CHLORIDE	D008,D010	4,7,8,9
60068	CONTAMINATED INSOLUBLE OIL	F001,D008	1,4,7,8,9
60069	CONTAMINATED INSOLUBLE OIL	F001,D008	1,4,7,8,9
60119	SLUDGES, OILY, FOR OXIDATION HIGH FREE METAL	F001,F002,D001	1,2,4,5,6,7,8,9
60123	SOLVENT SEMISOLID	F002,D039	1,2,4,5,6,7,8,9
60149	U308 FROM BOX FURNACE	F001,F002	1,4,9
60152	U308 ROTEXED PLANT 8 FURNACE PRODUCT	F001,F002	1,4,9
60331	WATER/GAS MIXTURE TANK #9	D001,D018	1,4,7,8,9
60332	WATER/GAS MIXTURE TANK #10	D008,D018	PK

Key to "Determination Basis Codes" :

PK Process Knowledge
 MSDS Material Safety Data Sheet

ANALYSES:

- | | |
|------------------------------------|-------------------------------|
| 1 Total Volatile Organic | 8 Flash Point |
| 2 TCLP Volatile Organic | 9 U-Total, % U235 |
| 3 Total (TC) Metals | 10 PCBs |
| 4 TCLP Metals | 11 Total Semivolatile Organic |
| 5 Visual Inspection of Waste | 12 Total Pesticides |
| 6 Paint Filter Liquids Test (PFLT) | 13 Total Thorium |
| 7 pH | |