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**OHIO ENVIRONMENTAL PROTECTION AGENCY  
(OEPA) DIRECTOR'S FINDINGS AND ORDERS  
AND SECTION IV CONSENT DECREE REPORT -  
TECHNICAL PROGRESS REPORT FOR  
OCTOBER 1**

**DOE-707-92  
DOE-FO/OEPA  
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LETTER**



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

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JAN 2 1 1992

DOE-707-92

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 OCTOBER 1 THROUGH DECEMBER 31, 1991**

Enclosed is the quarterly technical progress report describing Fernald Environmental Management Project (FEMP) progress with respect to compliance with the Proposed Amended Consent Decree (PACD) and the OEPA Director's Findings and Orders. For future reports we intend to delete items reported as complete in the previous quarterly updates.

In addition to this report, Revised Table C-1 is enclosed which provides a list of all waste streams identified under the 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 (513) 738-6322.

Sincerely,

R. E. Tiller  
Manager

FO:Rast

Enclosure: As Stated

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cc w/enc.:

R. P. Whitfield, EM-40, FORS  
K. A. Hayes, EM-424, TREV  
J. A. Saric, USEPA-V, 5HR-12  
G. E. Mitchell, OEPA-Dayton  
P. Harris, OEPA-Dayton  
J. Van Kley, Ohio AGO  
J. S. Rogers, DOJ  
W. H. Britton, WEMCO  
S. W. Coyle, WEMCO  
H. F. Daugherty, WEMCO  
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J. Harmon, WEMCO  
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R. L. Glenn, Parsons  
AR Coordinator, WEMCO

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

October 1 - December 31, 1991

Introduction

Section 4.13 of the Proposed Amended Consent Decree requires that beginning October 20, 1990, and continuing on the twentieth (20th) day of every third month thereafter, DOE shall submit a quarterly technical progress report to Ohio EPA. In accordance with this section, the option of combining this report with ongoing reports being submitted pursuant to the Director's Findings and Orders issued June 4, 1987, is being exercised.

This report describes activities at the Fernald Environmental Management Project (FEMP) from October 1, 1991, through December 31, 1991, and status as of December 31, 1991. The report contains two sections. Section I addresses outstanding commitments contained within the Proposed Amended Consent Decree. Section II pertains to compliance with Section IV of the Consent Decree, and incorporates remaining outstanding items from the Ohio EPA Director's Findings and Orders that have not been addressed within the Consent Decree.

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

October 1 - December 31, 1991

Section I - Proposed Amended Consent Decree

<u>Section</u>	<u>Activity</u>	<u>Status</u>
3.5.1.(b)(i)	Submit report on results of sampling and analysis for 8,000 drums not affected by Hazardous Waste Management Unit Review (HWMUR) by November 30, 1991.	<u>COMPLETE.</u> Sampling and analytical data submitted to Ohio EPA on November 26, 1991.
3.5.1.(d)(i)	Complete process knowledge evaluations for "All Other Materials" not affected by the HWMUR by December 31, 1991.	<u>COMPLETE.</u> Process knowledge data evaluations for the 26,000 drum population submitted to the Ohio EPA on December 19, 1991.
3.5.1.(f) and 3.12	Submit a compliance schedule implementing the hazardous waste requirements for newly identified Hazardous Wastes and Hazardous Waste Management Units (HWMUs) within 60 days of date reported.	<u>COMPLETE.</u> Compliance schedules submitted to the Ohio EPA for five HWMUs (Uranyl Nitrate Tanks) on November 18, 1991.  Compliance schedule submitted to Ohio EPA for the Experimental Treatment Facility on December 30, 1991.
3.8.(b)	Daily /weekly inspection of Plant 1 Pad.	<u>Ongoing.</u> Inspections are performed as required to meet the proposed requirements.
3.8.(d)	Submit closure plan for Plant 1 Pad.	<u>COMPLETE.</u> Plant 1 Pad closure plan submitted to Ohio EPA on October 30, 1991, with the revised part B Permit Application.

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

October 1 - December 31, 1991

Section I - Proposed Amended Consent Decree (Cont'd)

<u>Section</u>	<u>Activity</u>	<u>Status</u>
3.11	Report all HWMUs.	<u>IN PROCESS.</u> A revised list of declared HWMUs was submitted to OEPA with the revised Part A and Part B Permit Applications on October 30, 1991. The Pilot Plant North and South Solvent Tanks were designated as a HWMU. The FEMP is currently in communication with the Ohio EPA about final regulatory status and disposition for the Safe Geometry Digester Sump.
3.11	Submit a properly executed revision to the Part B Permit Application by October 31, 1991.	<u>COMPLETE.</u> Revised part B Permit Application submitted to the Ohio EPA on October 30, 1991.

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

October 1 - December 31, 1991

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 12/18/92 and 9/27/93 respectively.
4.9	Perform cleanout of the BSL (when approximately 500,000 gallons of sediment is accumulated, but no more than once per year, as stated in the BSL PTI).	6/30/91	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 June 30, 1992, 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. As of 12/31/91, approximately 98% of actions required to implement the plan have been documented as completed.
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. Actions are ongoing to document closeout of the actions.

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

October 1 - December 31, 1991

Section II - Consent Decree

<u>Section</u>	<u>Activity</u>	<u>Due Date</u>	<u>Status</u>
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 installed as Removal Action 3 for 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 on 3/11/91. The new outfall line is being designed to handle future FMPC capacity requirements.
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. One NPDES excursion was reported during the September - November period.

\* Correction made here. Previously reported to be part of Removal Action 7 instead of Removal Action 3.

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TABLE C-1  
RCRA REGULATED HAZARDOUS WASTE STORAGE

Revised: December 31, 1991

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WASTE NAME	PHYSICAL STATE (1)	U.S. EPA HAZARD WASTE NOs.	BASIS FOR HAZARD LISTING (2)	WASTE SOURCE	LAND BAN STATUS (4)	MATERIAL AND SOURCE CODES (5)
1,1,1-TRICHLOROETHANE STILL BOTTOMS	SL	F001, D001	I,T	SOLVENT DISTILLATION	R(c)	043-YAQ
1,1,2-TRICHLOROETHANE	L	U227	T	LABORATORY	R(e)	013-733
1,4-DIOXANE	L	U108, D001	I,T	LABORATORY	R(e)	013-733
ACETONITRILE IN WATER	L	D001	I	LABORATORY	N(b)	013-733
ADHESIVES	L	D001	I	WASTE MANAGEMENT	N(b)	[003-700]
AEROSOL PAINT CANS, NON-EMPTY	L,S	D001	I	PLANTS 1, 2/3, 5, 6, LABORATORY GARAGE	N(b)	003-100; 003-241; 003-500; 003-600; 003-741; 003-753; 003-746; 003-775
AGITENE	L	D001, D005, D008	E,J	BOILER PLANT	N(b)	[015-768]
AMMONIUM VANADATE	L	F119	H	LABORATORY	R(e)	013-733
BARIUM CHLORIDE	L	D005	E	LABORATORY	N(b)	010-733
BARIUM CHLORIDE CHROME RESIDUE	L	D007	E	BARIUM CHLORIDE TREATMENT PROCESS	N(b)	012-900
BARIUM CHLORIDE SALT	S,SL	D005	E	METAL HEATING TREATING	N(b)	044-FTA; 060-FTA;
BARIUM HYDROXIDE	SL	D005	E	LABORATORY	N(b)	013-733
BARIUM SALT	S	D005	E	PLANT 2/3	N(b)	[001-245]
BARIUM SULFATE FILTER CAKE	SL	D001, D005, D007	E,J	PILOT PLANT	N(b)	045-300
BATTERIES	S,SL	D002, D006, D009	C,E	MACHINE AND MAINTENANCE SHOP	R(d)	[003-746, 003-775]
BATTERIES, FLASHLIGHT/BEEPER	L,S	D002, D006, D009	C,E	PLANT 6	R(d)	[003-600]
BERYLLIUM	L	P015	H	MOLD AND CRUCIBLE COATING	N(b)	015-530
BLENDING AND SCREENING SOLIDS	S	D007, D011	E	LABORATORY		043-732
CADMIUM SPRINGS	S	D006	E	STORES, PLANT 9		
CHROMIC ACID	L	D001, D002, D007	C,E,I	LABORATORY		
COBALT TRIFLUORIDE	S	D001, D003	I,R	LABORATORY		
CONTAMINATED ALUMINA - SODA LIME	S	D005	E	HEXAFLUORIDE PROCESSING		
CONTAMINATED BURNABLES	L,S	D005	E	PILOT PLANT		
CONTAMINATED BURNABLES	S	F001, F005	T	PILOT PLANT		
CONTAMINATED BURNABLES	S,L	F001, D006, D011	E,T	PILOT PLANT		
CONTAMINATED BURNABLES	S,L	F001	T	PLANT 6 MACHINING		
CONTAMINATED BURNABLES	S	F001, F005, D011	E,T	HANFORD		
CONTAMINATED MERCURY	S	D009	E	LABORATORY		
CONTAMINATED NONBURNABLES	S	F002	T	PLANT 1, PLANT 2/3 DIGESTIO		
CONTAMINATED NONBURNABLES	S	F005, D004, D008, D011	E,T	PLANT 1		
CONTAMINATED SOIL	S	D011	E	PLANT 2/3 DIGESTION		
CONTAMINATED SOIL	L,SL,S	D004, D005, D007, D008, D010, D011	E	PLANT 2/3 DIGESTION		
CONTAMINATED SOIL, ROCKS, BRICKS	S	D007, D011	E	PLANT 4		
CONTAMINATED SOIL, ROCKS, BRICKS	S,L	D004, D008, D011	E	PLANT 5 CASTING		
CONTAMINATED SOIL, WATER, ROCKS, BRICKS	L,S	D008	E	WASTE MANAGEMENT		
CONTAMINATED SOIL WITH FREE LIQUIDS	L,SL	D002, D004, D007, D008, D011	C,E	PLANT 2/3 DIGESTION		
CONTAMINATED SOIL AND ROCKS	S	D005	E	RMI		
CONTAMINATED SOIL AND ROCKS	S	D006, D006, D007, D008, D009	E	PLANT 5		
CONTAMINATED SOLVENT	L	F001	T	DECONTAMINATION		
CONTAMINATED/SPENT SOLVENTS	L	F002	T	PLANT 5	R(c)	[003-768; 013-202; 013-738; 013-768; 013-775;]
CONTAMINATED/SPENT SOLVENTS	L	F001, F002, D018	E,T	PLT 2/3, GARAGE, LABORATORY	R(c)	[027-761]
CONT. PROTECTIVE CLOTHING (TANK 5)	S	F001, F005	T	GENERAL SUMP	R(c)	[027-761]
COOLING TOWER WOOD AND SEMISOLIDS	S,SL	D037	E	WATER TREATMENT	N(a)	[027-765; 043-765]

*Enclosure*

TABLE C-1  
RCRA REGULATED HAZARDOUS WASTE STORAGE

Revised: December 31, 1991

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WASTE NAME	PHYSICAL STATE (1)	U.S. EPA HAZARD WASTE NOs.	BASIS FOR HAZARD LISTING (2)	WASTE SOURCE	LAND BAN STATUS (4)	MATERIAL AND SOURCE CODES (5)
CYANIDE CARBONATE	L	D003	R	LABORATORY	R(d)	[047-733]
DIESEL FUEL/RAINWATER	L	D018	E	GARAGE, UST # 3	N(a)	[012-741; 022-741]
DISCARD MAINTENANCE PRODUCTS	S	D001, D018	EJ	PLANT 1	N(b)	003-100
DISCARD MAINTENANCE PRODUCTS	L	D001	I	RUST BLDG, PLANT 1, K-85 GENERAL	N(b)	003-100; 003-705; 003-710; 013-700
DISCARD MAINTENANCE PRODUCTS	L	D002	C	PLANT 1	N(b)	003-100
DISCARD MAINTENANCE PRODUCTS	L	D001, D008, D018, D035	EJ	PLANT 1	N(b)	003-100
DISCARD MAINTENANCE PRODUCTS	L	D001, D003, D035	EJR	PLANT 1	N(b)	003-100
DISCARD MAINTENANCE PRODUCTS	L	D018	E	PLANT 1	N(a)	003-100
DISCARD PROCESS RESIDUES	L	D002	C	HOT RAFFINATE BUILDING	R(d)	001-235
DISCARD PROCESS RESIDUES	SL	D008	E	PLT 6 MACHINING	N(b)	001-820
DISCARD PROCESS RESIDUES	L,SL,S	F002, D039	E,T	PILOT PLANT	R(c)	001-581
DISCARD PROCESS RESIDUES	S	F002,F005,D006,D007,D008,D018,D040	E,T	PLANT 6 DEGREASING	R(c)	001-660
DISCARD PROCESS RESIDUES	S	F005	T	LABORATORY	R(c)	001-731
DISCARD PROCESS RESIDUES	S	D029	E	PLANT 6	N(a)	001-900
DRUM DECONTAMINATION RESIDUES	L,S,SL	D006	E	DRUM RECONDITIONING	N(b)	[021-132]
DRY SPILL CLEANUP	S	F001	T	PILOT PLANT	R(c)	[027-300]
DUST COLLECTOR BAGS	S	D004, D006, D008	E	PLANT 1	N(b)	029-101
DUST COLLECTOR BAGS	S,L	D007	E	PLANT 6	N(b)	029-900
DUST COLLECTOR RESIDUES	S,L	D004, D011	E	LABORATORY	N(b)	062-732
DUST COLLECTOR RESIDUES	S	D007	E	PILOT PLANT	N(b)	062-332
DUST COLLECTOR RESIDUES	S	D008	E	PILOT PLANT	N(b)	[062-510; 062-511; 062-513]
DUST COLLECTOR RESIDUES	S	D006, D008	E	PLANT 6, PLANT 1	N(b)	062-665; 062-101
ETHYL ETHER	L	D001,U117	I	LABORATORY	R(e)	013-735
FURNACE SALT	S	D004, D006, D008, D010 (3)	E	PLANT 6	N(b)	[061-916; 061-917]
FURNACE SALT	S	D005	E	PLANT 6	N(b)	[060-611]
GASOLINE	L	D001, D018	EJ	DECONTAM, PLANT 1, SERVICE BLDG	N(b)	012-100; 013-300; 013-735;
GRIT BLAST	L,S	D008	E	PLANT 2/3, 6	N(b)	[028-240]; 028-600
GROUNDWATER (WELL # 1031 & 2649)	L	F002	T	CLEARWELL	R(c)	012-RGW
INCINERATOR CINDERS	L,S	F001	T	KELLY INCINERATOR	R(c)	033-240
INCINERATOR CINDERS	S	D008	E	RESIDUES FROM GENERATION & BURNING	N(b)	[033-FYA]
LABORATORY ACIDS	L	D001, D002	CJ	LABORATORY	R(d)	[013-733]
LAB - PACKED FLAMMABLE LIQUIDS	L	D001, U108, U117, U161, U213, U359	I,T	LABORATORY	R(e)	013-733
LAB - PACKED WATER AND SAMPLES	L	D007	E	PILOT PLANT SOLVENT EXTRACTION	N(b)	001-375
LEAD	S	D008	E	DECONTAMINATION, PLANT 5	N(b)	003-500; 049-742;
LEAD ACID BATTERIES	L,S	D002, D004, D008	C,E	GARAGE	R(e)	049-741
LEAD AND WOOD SHAVINGS	S	D008	E	PLANT 1	N(b)	[049-100]
LEAD BRICKS, WINDOWS, SHAVINGS, HAMMERS	S	D008	E	PLANT 5	N(b)	049-500
LEADED GASOLINE	L	D001, D008, D018	EJ	TANK 12	R(d)	013-744
LIME SCALE AND SEMISOLID	SL	F001, F005	I,T	BUILDING 45	R(c)	[012-761]
LIQUID AND SOLID SAMPLES	L,S	F002, D004, D005, D006, D007, D008, D010, D018	E,T	WASTE MANAGEMENT	R(c)	050-700
MAGNESIUM FLAKES	L,S	D003	R	PLANT 5	N(b)	[019-511]
MERCURY BATTERIES	L,S	D002, D009	C,E	PLANTS 2, 5, LABORATORY	R(d)	[003-241; 003-500; 051-733]
MERCURY BATTERIES AND SPILL CLEANUP	L,S	D002, D009, U151	C,E,T	LABORATORY	R(d)	051-733
MERCURY CONTAMINATED DEBRIS	S	D009	E	LABORATORY	N(b)	028-730

TABLE C-1  
RCRA REGULATED HAZARDOUS WASTE STORAGE

Revised: December 31, 1991

WASTE NAME	PHYSICAL STATE (1)	U.S. EPA HAZARD WASTE NOs.	BASIS FOR HAZARD LISTING (2)	WASTE SOURCE	LAND BAN STATUS (4)	MATERIAL AND SOURCE CODES (5)
MERCURY SPILL RESIDUE	L,S	U151	T	INSTRUMENT SHOP, LABORATORY	R(d)	051-733; 051-749
MERCURY SPILL RESIDUE	S	D009	E	LABORATORY	N(b)	051-733
MERCURY-CONTAINING COMPOUNDS	L,SL	D009	E	LABORATORY	R(d)	051-733
METHANOL/CYCLOHEXANE	L	F003, D001	I	LABORATORY	R(c)	013-733
METHYL ETHYL KETONE AND WATER	L	U159	I,T	DECONTAMINATION	N(b)	[003-742]
METHYL ISOBUTYL KETONE	L	D001, U181	I	LABORATORY	R(e)	013-733
NICKEL-CADMIUM BATTERIES	L,S	D002, D006	C,E	LABORATORY	R(d)	003-733
NON-METALLIC SAMPLES	S	D001, D003	I,R	PLANT 1	N(b)	047-140
NON-METALLIC SAMPLES	S/L	D005	E	RMI	N(b)	047-FTA
NON-OILY SEMSOLIDS	L,SL	F001, D019	E,T	GARAGE	R(c)	042-741
NON-OILY SEMSOLIDS	L,SL	F002, D039	E,T	PLANT 2/3	R(c)	042-200
NON-RECOVERABLE TRASH	S	D007, D010	E	MAINTENANCE	N(b)	003-745
NON-RECOVERABLE TRASH	S,L	D011	E	PILOT PLANT	N(b)	003-300
NON-RECOVERABLE TRASH	S	F001, D029, D039, D040	E,T	PLANT 2/3	R(c)	027-200
NON-RECOVERABLE TRASH	L,SL	F001, D008	E,T	PLANT 2/3, PLANT 8	R(c)	003-200
OIL AND SOLVENTS	L	F002, D001, D007, D008, D010, D018	E,I,T	SITE CLEANUP	R(c)	015-700
OIL CLEAN-UP MATERIALS	S	D018	E	PLANT 1, PLANT 2, LABORATORY	N(a)	[003-137; 003-730; 020-200; 027-200]
OILY HICO FILTER CAKE	SL	D001	I	PLANT 5, PLANT 1 DRUM BALER	N(b)	[020-137; 020-510]
OILY RAGS	S	D018	E	PLANT 5, PLANT 1	N(a)	[003-503]; [003-100]
OILY RAGS	S	F002, D018	E,T	PLANT 6	R(c)	[003-655]
OILY RAGS	S	F002, D010, D018	E,T	GARAGE	R(e)	[003-738]
OILY RAGS	S	F002, D008, D018	E,T	PLANT 2, OIL STORAGE AREAS	R(c)	[003-203; 003-503; 003-747; 003-769; 003-776]
OILY RAGS, CLEANUP MATERIAL	S	F002, D018	E,T	DECONTAMINATION	R(c)	[003-742]
OILY SEMSOLID	L,SL	D001	I	PLANT 6	N(b)	041-655
OILY SEMSOLID	L,SL	F001, D008, D039, D040	E,T	PLANT 2/3	R(c)	039-200
OILY SEMSOLID	L,SL	F002, D018	E,T	PLANT 6	R(c)	[039-655]
OILY SEMSOLID	L,SL	F002	T	PLANT 6	R(c)	[041-620; 041-642]
OILY SEMSOLID	L,SL	F002, F003	I,T	PLANT 6	R(c)	[020-800]
OILY SEMSOLID	L,SL	F005, D001, D008, D035	E,I,T	PLANT PAINTING BOOTH	R(c)	043-135
OILY SEMSOLID	L,SL	F001, D029, D039, D040	E,T	PLANT 6	R(c)	039-655
OILY SEMSOLID	L,SL	F001, F003, F005, D001, D019, D039, D040	E,I,T	PLANT 6	R(c)	039-653
OILY SEMSOLID	L,SL	F002, D008	E,T	PLANT 8	R(c)	[011-800]
OILY SEMSOLID	SL	D005, D008	E	EXTRUSION & MACHINING OPERATIONS	N(b)	[041-FTA]
OILY SEMSOLID	L,SL	F001, D007	E,T	PLANT 9	R(c)	039-665
OILY SEMSOLID	SL	D018	E	PLTS 1, LABORATORY	N(a)	[039-750; 043-100]
OILY SEMSOLID	L,SL	F001, D010, D035	E,T	PILOT PLANT	R(c)	041-351
OILY SEMSOLID	L,SL	F001, D001, D039	E,I,T	PLANT 6	R(c)	041-800
OILY SEMSOLID	L,SL	D008	E	PLANT 2/3	N(b)	028-200
OILY SEMSOLID	L,SL	F001, D008	E,T	PLANT 8	R(c)	039-600
OIL-SOAKED DIRT	S	F001	T	GARAGE	R(c)	[011-741]
OXIDIZING CHEMICALS	L	D001	I	LABORATORY	N(b)	013-733
PAINT CHIPS	S	D008	E	SEWAGE TREATMENT	N(b)	049-768
PAINT THINNER	L	D001	I	PILOT PLANT	N(b)	[019-300]
PAINT THINNER	L	F002, F003, F005, D001	I,T	PAINT SHOP	R(c)	[013-748]

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TABLE C-1  
RCRA REGULATED HAZARDOUS WASTE STORAGE

Revised: December 31, 1991

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WASTE NAME	PHYSICAL STATE (1)	U.S. EPA HAZARD WASTE NOs.	BASIS FOR HAZARD LISTING (2)	WASTE SOURCE	LAND BAN STATUS (4)	MATERIAL AND SOURCE CODES (5)
PHENOL	L	U188	T	LABORATORY	N(b)	013-733
PLOTTER CLEANING SOLUTION	L	D001	I	ADMINISTRATION BUILDING	N(b)	013-735
POTASSIUM CYANIDE SOLUTION	L	F098	H	LABORATORY	N(b)	003-733
PRESSURE-TREATED WOOD	S	D008	E	WASTE MANAGEMENT	N(b)	[003-705]
PROCESSOR CLEANER	L	D002	C	ADMINISTRATION BUILDING	R(d)	003-735
PUMP OIL AND RAGS	L,S	F001	T	PLANT 1	R(c)	[003-100]
PVC PIPING (PERCHED WATER PROJECT)	S	F001	T	PLANT 6	R(c)	003-600
RAGS	S	F002, F003, F005	I,T	PAINT SHOP	R(c)	[003-748]
RAGS, GLOVES, PROTECTIVE COVERALLS	S	U107	T	WASTE MANAGEMENT	N(b)	[027-700]
RAGS w/1,1,1-TRICHLOROETHANE	S	F001, F002, D008, D018	E,T	MAINTENANCE SHOP	R(c)	[003-502]
RAM PIT	SL	D003, D018	E,R	METAL PRODUCTION AREA	N(b)	[014-514]
SAMPLES, NON-METALLIC, MISC.	L,S	D007	E	LABORATORY	N(b)	047-731
SAND/GRIT BLAST PAINT RESIDUES	L,S	D008	E	SAND BLASTING	N(b)	008-700
SCRAP SALTS	S	F001	T	PLANT 6 DEGREASER	R(c)	066-660
SCRAP SALTS	S	D005, D008	E	RMI	N(b)	066-FTA
SCRAP SALTS	S	D004, D008	E	PLANT 6	N(b)	066-610
SCRAP SALTS	S	D008	E	PLANT 1	N(b)	065-100
SCRAP SALTS	S	D007, D008	E	PADUCAH	N(b)	065-FYC
SCRAP SALTS	S,L	D007	E	PLANT 6 NU-SAL FURNACE	N(b)	066-643
SCRAP U308	S	D005	E	RMI QUENCHING	N(b)	[052-FTA; 101-FTA]
SCRAP U308	S	D005, D010	E	CASTING AREA	N(b)	[101-534]
SODIUM AMIDE	S/L	D003	R	LABORATORY	R(e)	003-733
SODIUM URANATE EVAPORATOR RESIDUE	SL	D004, D006, D008	E	RMI	N(b)	[069-FTA]
SOIL BORINGS (on/offsite well drillings)	S	D004, D005, D006, D007, D008	E	ONSITE AND OFFSITE WELL DRILLINGS	N(b)	011-ASI
SOIL BORINGS (on/offsite well drillings)	S	F002, D039, D040	E,T	ONSITE AND OFFSITE WELL DRILLINGS	R(c)	011-ASI
SOIL BORINGS (on/offsite well drillings)	S	F001	T	MAINTENANCE AREA, PILOT PLANT	R(c)	011-ASI
SOIL BORINGS (on/offsite well drillings)	S	D040	E	ONSITE AND OFFSITE WELL DRILLINGS	N(a)	011-ASI
SOIL BORINGS (on/offsite well drillings)	S	D006, D007, D008	E	ONSITE AND OFFSITE WELL DRILLINGS	N(b)	011-ASI
SOIL BORINGS (on/offsite well drillings)	S	D004, D005, D006, D007	E	ONSITE AND OFFSITE WELL DRILLINGS	N(b)	011-ASI
SOIL BORINGS (on/offsite well drillings)	S	D004, D006, D007, D008	E	ONSITE AND OFFSITE WELL DRILLINGS	N(b)	011-ASI
SOIL BORINGS (on/offsite well drillings)	S	D004, D005, D006, D007, D008, D011	E	ONSITE AND OFFSITE WELL DRILLINGS	N(b)	011-ASI
SOIL BORINGS (on/offsite well drillings)	S	D005, D006, D007, D008	E	ONSITE AND OFFSITE WELL DRILLINGS	N(b)	011-ASI
SOIL WITH OIL AND WATER	S	D018	E	DECONTAMINATION	N(a)	[013-742]
SOILS CONTAMINATED BY LAB SAMPLES	S	D004, D005, D006, D007, D008 D022, F002, F003	E,T	LABORATORY	R(c)	[003-733]
SOLVENT CONTAMINATED PALLET WOOD	S	F002	T	SITE CLEANUP	R(c)	003-700
SOLVENT-CONTAMINATED RAGS	S	F001, F002, D018	E,T	PLANT 2, PAINT SHOP	R(c)	[003-202; 003-748; 003-775;]
SPENT 1,1,1-TRICHLOROETHANE	L	F001, F002, D008, D018	E,T	MAINTENANCE SHOP	R(c)	[013-502]
SPENT ACETONE	L	F003, D001	I	LABORATORY	R(c)	013-733
SPENT CHLORINATED SOLVENTS	L	F001, F003, F005, D001, D019, D022 D026, D029, D035, D039, D040	E,I,T	DEGREASING OPERATIONS	R(c)	013-YAQ
SPENT CHLOROFORM	SL	D022	E	LABORATORY	R(d)	013-733
SPENT METHANOL	L	F003, D001	I	LABORATORY	R(c)	013-733; 013-732
SPENT METHYLENE CHLORIDE	L	F002	T	LABORATORY	R(c)	013-733
SPENT TBP/KEROSENE	L	D001, D002, D007	C,I,E	PLANT 2/3, LABORATORY	R(d)	[022-221]

TABLE C-1  
RCRA REGULATED HAZARDOUS WASTE STORAGE

Revised: December 31, 1991

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WASTE NAME	PHYSICAL STATE (1)	U.S. EPA HAZARD WASTE NO.s	BASIS FOR HAZARD LISTING (2)	WASTE SOURCE	LAND BAN STATUS (4)	MATERIAL AND SOURCE CODES (5)
SPENT XYLENE	L	F003, D001	I	PAINT SPRAY BOOTHS, LABORATORY	R(c)	013-733
SPILLED TETRACHLOROETHYLENE	S	U210	T	LABORATORY	R(d)	027-733
SUMP CAKE W/FREE LIQUIDS	L,SL	D005, D007	E	PILOT PLANT	N(b)	002-362
SUMP CLEANOUT	L,SL	F002, F003, D001, D008, D018, D019, D039, D040	E,I,T	PILOT PLANT	R(c)	042-300
SUMP SEMISOLID	L,SL	F001, D029, D039	E,T	GARAGE	R(c)	045-738
TANK 5 (UST) CLEANOUT	SL	F001, D018	E,T	TANK 5 CONTENTS	R(c)	015-741
TANK 6 CLEANOUT RESIDUES	L,S,SL	D007	E	CLEAN UP ACTIVITIES	N(b)	003-700
TANK CLEANINGS	SL	D008, D018	E	TANKS 1, 2, 8, 9, 10, 11, 12, 13	R(d)	[012-741; 039-100; 039-741]
TANK CLEANINGS	SL	D018	E	TANK 6	N(a)	[039-745]
TBP AND KEROSENE	L	D001, D002, D007	C,E,I	LABORATORY	R(d)	[013-730]
TBP AND KEROSENE	L	F002, F003, D001, D019, D022, D039	E,I,T	LABORATORY	R(c)	022-732
TBP/KEROSENE SEMISOLID	SL	F002, D019, D022, D039	E,T	LABORATORY	R(c)	022-732
TRASH	S	F001, D018	E,T	GARAGE	R(c)	027-741
TRASH, CONTAMINATED	S	F003, D005, D006, D007, D008	E,I	LABORATORY	R(c)	[003-733]
TRICHLOROETHYLENE	L	U228	T	LABORATORY	R(d)	013-733
USOs FOR OXIDATION	S	D007	E	RMI REOXIDATION	N(b)	[134-FTA]
UNFIRED REDUCTION CHARGES	S	D001	I	PILOT PLANT	N(b)	079-320
URANYL NITRATE SOLUTION	L	D002, D005, D007	C,E	PLANT 2/3	R(d)	150-200
USED DEVELOPING/FIXING SOLUTION	L	D011	E	PHOTO LAB, GRAPHICS, LABORATORY ADMINISTRATION BUILDING	N(b)	013-730; 013-743; 013-755; 547-700; 013-735
USED OIL	L	D008, D018	E	BOILER PLANT	N(b)	[015-769]
USED OIL	L	F002, D010, D018	E,T	GARAGE	R(c)	[015-739]
USED OIL	L	F001, D039, D040	E,T	PILOT PLT, PLANT 6	R(c)	015-351; 015-600
USED OIL	L	F001, F002, D008, D018	E,T	PLANT 2/3	R(c)	[015-203; 015-747]
USED OIL	L	F001, D019, D029, D039, D040	E,T	DRUM BALER	R(c)	015-137
USED OIL	L	F002, D008	E,T	PLANTS 2/3, 8	R(c)	[015-200; 015-600; 015-855]
USED OIL	L	F001	T	PLANT 9	R(c)	015-901
USED OIL	L	F001, D008, D009, D039	E,T	LABORATORY	R(c)	015-730
USED OIL	L	F002, F005, D006, D008, D018, D019, D028, D029, D039, D040	E,T	PILOT PLANT MAINTENANCE	R(c)	015-301
USED OIL	L	F002, D018, D019, D028, D029, D039, D040	E,T	PLANT 1	R(c)	015-100
USED OIL	L	F002, D029, D039	E,T	PILOT PLANT	R(c)	015-300
USED OIL	L	F002, D008, D018	E,T	PLANTS 2/3, MAINTENANCE	R(c)	[015-503; 015-769; 015-778]
USED OIL	L	F002, D018	E,T	GARAGE, PLANT 1	R(c)	[015-742; 015-137]
USED OIL	L	D018	E	PLANT 1, 2, 4, OIL STORAGE AREA, DECONTAMINATION LABORATORY	N(a)	[009-742; 015-100; 015-107; 015-137; 015-200; 015-400; 015-705; 015-730; 015-742; 015-YAQ]
USED OIL	L	F001, D008, D007, D008, D019, D029, D040	E,T	PLANT 9 CASTING	R(c)	015-921
USED OIL	L	F002	T	PLANTS 5, 8	R(c)	[015-501; 015-510; 015-830; 015-820; 015-855]
USED OIL FILTERS	S,SL	D018	E	GARAGE	N(a)	[003-741]
USED PAINT THINNER	L	F002, D001, D008	E,I,T	WASTE MANAGEMENT	R(c)	[013-705]
U-CONTAMINATED WATER	L	D039	E	PILOT PLT SOLV EXT, PLANT 2/3	R(d)	001-375; 012-200

TABLE C-1  
RCRA REGULATED HAZARDOUS WASTE STORAGE

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WASTE NAME	PHYSICAL STATE (1)	U.S. EPA HAZARD WASTE NOs.	BASIS FOR HAZARD LISTING (2)	WASTE SOURCE	LAND BAN STATUS (4)	MATERIAL AND SOURCE CODES (5)
VANADIUM PENTOXIDE	L	P120	H	LABORATORY	R(e)	013-733
WASTE BENZENE	L	D001, D018	EJ	PLANT 1	N(b)	[013-100]
WASTE BENZENE	L	D001, D018, U019	EJ,T	LABORATORY	R(e)	013-732
WASTE CARBON TETRACHLORIDE	L	D019, U211	E,T	LABORATORY	R(e)	013-732
WASTE ETHYL ETHER	L	F003, D003	I,R	BUILDING 79	R(c)	013-732
WASTE LABORATORY SOLID	S	D005, D006, D007, D008	E	LABORATORY	N(b)	[003-733]
WASTE PAINT	L,S,SL	D001	I	DRUM PAINTING	N(b)	[003-155; 003-710; 003-743; 013-735; 013-742]
WASTE RAGS, PAPER, ETC.	S	F002, F003, D004, D005, D006, D022	EJ,T	LABORATORY	R(c)	[003-733]
WASTE SOLVENTS	L	F003, F005, D001, D039	EJ,T	MAINTENANCE	R(c)	013-745
WASTE SOLVENTS	L	F001, D007, D018, D019, D021, D029, D039, D040	E,T	LAUNDRY OPERATIONS, SERVICE BLDG.	R(c)	013-735
WASTE SOLVENTS	L	F001, F002, D018	E,T	DEGREASING	R(c)	[013-745]
WASTE SOLVENTS	L	F001, F005, D019, D022, D028, D029, D039	E,T	PLANT 5 CASTING	R(c)	013-530
WATER/GAS MIXTURE	L	D001, D008, D018	EJ	TANK 8	N(b)	[012-741]
WATER/GAS MIXTURE	L	D001, D018	EJ	TANK 9	N(b)	[012-741]
WATER/GAS MIXTURE	L	D008, D018	E	TANK 10	R(d)	[012-741]
WET SUMP CAKE	L,SL	D011	E	CLEANING AREAS	N(b)	068-HXA
WET SUMP CAKE	L,SL	F002	T	SALT BATH TREATMENT	R(c)	068-VXB
WET SUMP OR FILTER CAKE	L	D002, D007	C,E	HANFORD	N(b)	068-HXA
WET SUMP OR FILTER CAKE	SL	D005	E	PILOT PLANT	N(b)	069-362
WET SUMP OR FILTER CAKE	L,SL,S	F002, D039	E,T	PILOT PLANT	R(c)	069-380; 069-381
WET SUMP OR FILTER CAKE	L,SL,S	F002, D039, D040	E,T	SERVICE BUILDING	R(c)	068-735

Attachment II to TABLE C-1  
RCRA REGULATED HAZARDOUS WASTE STORAGE

Revised: December 31, 1991

WASTE STREAMS ADDED TO 8/30/91 TABLE C-1

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WASTE NAME	PHYSICAL STATE (1)	U.S. EPA HAZARD WASTE NOS.	BASIS FOR HAZARD LISTING (2)	WASTE SOURCE	LAND BAN STATUS (4)	MATERIAL AND SOURCE CODES (5)
AEROSOL PAINT CANS, NON-EMPTY	L,S	D001	I	GARAGE	N(b)	003-741
CONTAMINATED BURNABLES	S	F001, F005	T	PILOT PLANT	R(c)	027-300
CONTAMINATED BURNABLES	L,B	F001, D008, D011	E,T	PILOT PLANT	R(c)	027-310
CONTAMINATED BURNABLES	L,S	F001	T	PLANT 6 MACHINING	R(c)	027-620
CONTAMINATED BURNABLES	S	F001, F005, D011	E,T	HANFORD	R(c)	027-HXA
CONTAMINATED NONBURNABLES	S	F002	T	PLANT 1	R(c)	028-100
CONTAMINATED NONBURNABLES	S	F005, D004, D008, D011	E,T	PLANT 1	R(c)	028-100
CONTAMINATED SOIL, ROCKS, BRICKS	S	D007, D011	E	PLANT 4	N(b)	011-450
CONTAMINATED SOIL, ROCKS, BRICKS	L,S	D004, D008, D011	E	PLANT 5 CASTING	N(b)	011-530
DISCARD PROCESS RESIDUES	S	F005	T	LABORATORY	R(c)	001-731
DISCARD PROCESS RESIDUES	S	D029	E	PLANT 6	N(a)	001-900
DUST COLLECTOR BAGS	L,S	D007	E	PLANT 6	N(b)	029-900
DUST COLLECTOR RESIDUES	L,S	D004, D011	E	LABORATORY	N(b)	062-732
GRIT BLAST	S	D008	E	PLANT 6	N(b)	028-600
GROUNDWATER (WELL # 1031 & 2649)	L	F002	T	CLEARWELL	R(c)	012-RGW
MERCURY CONTAMINATED DEBRIS	S	D009	E	LABORATORY	N(b)	028-730
NON-RECOVERABLE TRASH	L,S	D011	E	PILOT PLANT	N(b)	003-300
PLOTTER CLEANING SOLUTION	L	D001	I	ADMINISTRATION BUILDING	N(b)	013-735
PROCESSOR CLEANER	L	D002	C	ADMINISTRATION BUILDING	R(d)	003-735
SCRAP SALTS	S	F001	T	PLANT 6 DEGREASING	R(c)	066-660
SCRAP SALTS	S	D008	E	PLANT 1	N(b)	065-100
SCRAP SALTS	S	D007, D008	E	PADUCAH	N(b)	065-FYC
SCRAP SALTS	L,S	D007	E	PLANT 6 NU-SAL FURNACE	N(b)	066-643
SUMP CLEANOUT	L,SL	F002, F005, D001, D008, D018, D019, D039, D040	E,I,T	PILOT PLANT	R(c)	042-300
TBP/KEROSENE	L	F002, F005, D001, D019, D022, D039	E,I,T	LABORATORY	R(c)	022-732
USED DEVELOPING/FIXING SOLUTIONS	L	D011	E	ADMINISTRATION BUILDING	N(b)	013-735
WET SUMP OR FILTER CAKE	L	D002, D007	C,E	HANFORD	N(b)	068-HXA

- KEY:
- (1) LIQUID (L), SOLID (S), SEMISOLID (SL)
  - (2) IGNITABLE (I), CORROSIVE (C), REACTIVE (R), TOXICITY CHARACTERISTIC (E), ACUTE HAZARDOUS (H), TOXIC (T) WASTES
  - (3) POSSIBLE SAMPLE MATRIX INTERFERENCE; WILL BE RE-ANALYZED
  - (4) LDR STATUS - Current status with respect to Land Disposal Restrictions regulations:
    - N(a) - not restricted, no LDRs proposed/promulgated for TC organics
    - N(b) - not restricted, variance for "third-thirds" mixed waste through 5/8/92
    - R(c) - restricted from land disposal, LDRs for solvent wastes promulgated 11/8/88
    - R(d) - restricted from land disposal, California waste promulgated 7/8/87
    - R(e) - restricted from land disposal, Third-third waste promulgated 5/8/90
  - (5) DETERMINATIONS FOR MATERIAL/SOURCE CODES IN BRACKETS ARE SUBJECT TO CHANGE PENDING RECEIPT OF ANALYSIS