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SUPPORTING DOCUMENTATION FOR TOXIC CHEMICAL RELEASES REPORT FOR 4 CALENDAR YEAR 1989
SECTION 313, TITLE III OF THE SUPERFUND AMENDMENTS AND

06/01/90

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ENCLOSURE

SUPPORTING DOCUMENTATION FOR TOXIC CHEMICAL RELEASES
REPORT FORM R
CALENDAR YEAR 1989

SECTION 313, TITLE III of the Superfund Amendments and Reauthorization Act (SARA) of 1986

UNITED STATES

DEPARTMENT OF ENERGY

FEED MATERIALS PRODUCTION CENTER (FMPC)

FERNALD, OHIO

PREPARED FOR THE
U. S. DEPARTMENT OF ENERGY
WEAPONS DIVISION OF OAK RIDGE OPERATIONS

JUNE 1990

SUPPORTING MATERIAL FOR TOXIC CHEMICAL RELEASES

REPORTING FORM R - 1989

TABLE OF CONTENTS

I.	Introduction	3
II.	Feed Materials Production Center (FMPC) Description	4
III.	Definitions	5
IV.	40 CFR Part 372.10 Recordkeeping	6
V.	40 CFR Part 372.22 Covered Facilities for Toxic Chemical Release Reporting	8
VI.	40 CFR Part 372.25 Thresholds for Reporting	9
VII.	40 CFR Part 372.38 Exemptions	13
VIII.	40 CFR Part 372.45 Notification about Toxic Chemicals	14
IX.	Waste Treatment Methods	15
X.	FMPC SARA 313 Emission Calculations Forms	16
XI.	Completed TOXIC CHEMICAL RELEASE REPORT FORM R	25
	Table of Appendices	50

TABLES

Table 1 - Summary of SARA 313 Usage - 1989	11
Table 2 - SARA 313 Reportable Toxic Chemicals - 1989	12

I. Introduction

Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 requires owners and operators of certain facilities that manufacture, process, or otherwise use a listed chemical to report annually their releases of such chemicals to the environment. The reports are to be sent to both U.S. EPA and the state in which the facility is located. In addition, it requires suppliers of toxic chemicals to notify recipients of such chemicals in mixtures and trade name products.

Each reporting facility will maintain certain supporting material and documentation used in developing the report three (3) years from the submission of the report under 40 CFR, Section 372.10 published in 53 Federal Register 4525 (February 16, 1988). These records are not submitted to U.S. EPA or the state but are retained at the facility for which the report is submitted and must be readily available for purposes of inspection.

The purpose of this document is to meet the record keeping requirements of 40 CFR, Section 372.10.

A Form R has been prepared for the following toxic chemicals based on estimated releases determined with EPA calculation methods:

1. Ammonia
2. Hydrochloric acid
3. Methanol
4. Nitric acid
5. Sulfuric acid.

Hydrogen Fluoride does not appear on the list because there was no use of the chemical in CY 1989.
Sodium hydroxide and sodium sulfate are no longer listed as toxic chemicals and, thus, do not need to be reported.
1,1,1 trichloroethene was not "used" in sufficient quantities to meet the threshold limits and is therefore not included.

II. FEED MATERIALS PRODUCTION CENTER (FMPC) DESCRIPTION

The Feed Materials Production Center (FMPC) is owned and operated by the United States Department of Energy (U.S. DOE). The FMPC program is administered through the Oak Ridge Operations Office (ORO) Weapons Division.

The FMPC is located on a federal reservation in Hamilton and Butler counties, on a 1050 acre tract of land approximately 20 miles northwest of downtown Cincinnati, Ohio. This land is about midway between Ross and Fernald, Ohio at north latitude 39 degrees and 18 minutes, and west longitude 84 degrees and 41 minutes.

The mailing address is:

United States Department of Energy
Feed Materials Production Center
P.O. Box 398704
Cincinnati, Ohio 45239-8704
Phone: (513) 738-6200

The principle product from FMPC operations is uranium metal in various physical forms having several standard isotopic assays and a controlled purity. Most of the metal produced is cast into ingots which are center drilled and surface machined for extrusion into tubes on the DOE extrusion press facilities located at the RMI Company, Ashtabula, Ohio. Some of the extrusions are returned to the FMPC where the tube blanks undergo heat treating and fabrication into target element cores for DOE reactors. Both fuel cores and target elements are used in government reactors at Rocky Flats, Colorado; Savannah River, South Carolina; Oak Ridge, Tennessee; and Hanford, Washington.

Producing these uranium metal products requires a series of chemical and metallurgical conversions that occur in nine specialized plants: Plant 1, Sampling Plant; Plant 2/3, Refinery; Plant 4, Green Salt Plant; Plant 5, Metals Production Plant; Plant 6, Metals Fabrication Plant; Plant 8, Scrap Recovery Plant; and Plant 9, Special Products Plant.

III. Definitions

Manufacture

"Manufacture" means to produce, prepare, import, or compound a toxic chemical. Manufacture also applies to a toxic chemical that is produced coincidentally during the manufacture, processing, use or disposal of another chemical or mixture of chemicals , including a toxic chemical that is separated from the other chemical or mixture of chemicals as a by-product, and a toxic chemical that remains in that other chemical or mixture of chemicals as an impurity.

Process

"Process" means the preparation of a toxic chemical, after its manufacture, for distribution in commerce,

(1) In the same form or physical state as, or in a different form or physical state from, that in which it was received by the person so preparing such substance, or

(2) As part of an article containing the toxic chemical.

"Process" also applies to the processing of a toxic chemical contained in a mixture or trade name product.

Otherwise Use

"Otherwise use" or "use" means any use of a toxic chemical that is not covered by the terms "manufacture" or "process" and includes use of a toxic chemical contained in a mixture or trade name product.

IV. 40 CFR, Part 372.10 RECORDKEEPING

Supporting material and documentation used to prepare the TOXIC CHEMICAL RELEASE REPORTING FORMS for CY 1989 pursuant to 40 CFR, Part 372.10 are as follows:

Regulation	Documentation
40 CFR, Part 372.10(a)(1)	TOXIC CHEMICAL RELEASE, REPORTING FORMS are located in Section XI.
40 CFR, Part 372.10(a)(2)	Material supporting the claim that the FMPC is a covered facility under Part 372.22(a)(b) can be found in Section V; Appendix A-1; Items 1A, line 3, and Item 2 Section f. Material supporting the claim that the FMPC is a covered facility under Part 372.22(c) is found in Section VI; Appendix B-1,2,3,4,5 and Table 1,2. Material supporting the claim that the FMPC is not a covered facility under Part 372.45 is found in Section VIII; Appendix D-1,2,3.
40 CFR, Part 372.10(a)(3)(i)	Material supporting the claim of exemption under Part 372.38 can be found in Section VII; Appendix B-2,3; Table 1.
40 CFR, Part 372.10(a)(3)(ii)	Material Supporting threshold determination for each toxic chemical can be found in Section VI; Appendix B-1,2,3,4; Table 1,2.
40 CFR, Part 372.10(a)(3)(iii)	Material supporting the calculation of toxic chemical releases to the environment or transferred to an off-site location can be found in Section X; Appendix D-3. EPA 450/2-88-006A, Toxic Air Pollutant Emission Factors; and EPA 560/4-88-002, Estimating Releases and Waste Treatment Efficiencies were used as references.
40 CFR, Part 372.10(a)(3)(iv)	Material supporting the use indications and quantity on site can be found in Section VI; Appendix B-1,5. Material supporting dates of manufacturing, processing, or using can be found in Section VI; Appendix B-5; D-3.

IV. 40 CFR, Part 372.10 RECORDKEEPING

40 CFR, Part 372.10(a)(3)(v)	Material supporting the estimates of releases or off-site transfer for each toxic chemical can be found in Section X; Appendix D-3.
40 CFR, Part 372.10(a)(3)(vi)	Material supporting the transfer of toxic chemicals in waste to off-site locations can be found in Section VIII; Appendix D-1,2. Receipts or manifests associated with the transfers are located in the Regulatory Compliance section of the Transportation Department.
40 CFR, Part 372.10(a)(3)(vii)	Supporting material for waste treatment methods can be found in Section IX. The daily pH values of discharges are contained in the monthly Discharge Monitoring Report which can be found in the Water Compliance files.
40 CFR, Part 372.10(b)(1)	Material supporting the supplier notification requirements can be found in Section VIII, Appendix D-1,2,3.

V. 40 CFR, Part 372.22 COVERED FACILITIES FOR TOXIC CHEMICAL RELEASE REPORTING

Part 372.22 provides that a facility which meets the following criteria for a calendar year is a covered facility for that calendar year and must report under Part 372.30.

(a) The facility has 10 or more full-time employees.
(b) The facility is in Standard Industrial Classification codes 20 through 39.
(c) The facility manufactured (including imported), processed, or otherwise used a toxic chemical in excess of an applicable threshold quantity of that chemical set forth in Part 372.25

The FMPC is a covered facility because it has more than 10 full-time employees and has a Standard Industrial Classification Code of 2819.

Supporting material consists of the U.S. Department of Commerce, Bureau of Census, 1989 Annual Survey of Manufacturers, Form MA-1000 which is included as Appendix A-1.

VI. 40 CFR, Part 372.25 THRESHOLDS FOR REPORTING

The threshold amounts for purposes of reporting under Part 372.30 for toxic chemicals are as follows:

(a) With respect to a toxic chemical manufactured (including imported) or processed at a facility during calendar year 1989 - 25,000 pounds.

(b) With respect to a chemical otherwise used at a facility during calendar year 1989 - 10,000 pounds.

FMPC material management and accounting records were used to determine if a threshold had been exceeded for a listed Part 372.65 toxic chemical.

FMPC SARA 313 Chemical Inventory for 1989, included as Appendix B-1, was developed by comparing the FMPC Inventory Control Catalogue with the Part 372.65 toxic chemical list.

FMPC SARA 313 CHEMICAL USAGE FOR 1989, included as Appendix B-2, was developed from Inventory Control computer records.

A list of account numbers and their respective departments, included as Appendix B-3, was used to help identify the location of usage for the various chemicals.

Table 1 identifies each chemical, location of usage and amount used.

Section 313 REPORTING THRESHOLD WORKSHEETS, included as Appendix B-4, were completed by using the information contained in Table 1.

FMPC SARA 313 MONTHLY INVENTORY FOR 1989, included as Appendix B-5, identifies the amount and locations of usage for each reportable chemical on a monthly basis.

Table 2 identifies each toxic chemical which requires a FORM R for 1989.

Determination of Activity Uses and Dates

Ammonia was "processed" when it was transferred from storage tanks on-site for commercial distribution. The transfers occurred on April 17, 18, and 19, 1989. The Miscellaneous Shipping Orders, included as Appendix D-3, verify that 32,580 pounds of Anhydrous Ammonia were shipped.

Hydrochloric Acid was "otherwise used" as a chemical processing aid to decontaminate equipment and materials. The Decontamination Facility operates 16 hours per day, 5 days per week, 50 weeks per year.

Hydrochloric Acid was "coincidentally produced" as a result of coal combustion at the Boiler Plant. The Boiler Plant operates 365 days per year.

VI. 40 CFR, Part 372.25 THRESHOLDS FOR REPORTING

Methanol was "otherwise used" as a carbon source for the Biodenitrification (BDN) Facility. The BDN operates 365 days per year.

Nitric Acid was "processed" in the pickling of uranium forms in various stages of production in the Metals Production Plant, Plant 6. Plant 6 operated 24 hours per day, 5 days per week from January until June. From June through December it operated 8 hours per day, 5 days per week. The 13,021 gal. of nitric acid charged to plant 2/3 was actually transferred to Plant 6. Plant 2/3 did not operate during CY 1989.

Sulfuric Acid was "otherwise used" for pH adjustment at the Water Treatment Plant, the BDN Facility, and the General Sump. All of these facilities operate 365 days per year. The sulfuric acid at Plant 2/3 had leaked from a tank into a containment area. It was then neutralized and discharged to the General Sump.

Table 1 Summary of SARA 313 Usage - 1989

Chemical Name	CAS No.	Stock No.	Charge Account	Department	Lbs. Used
Acetone	67-64-1	C00217	94200	Anal. Lab	870
		C00536	94200	Anal. Lab	3,980
					4,850
Ammonia	7664-41-7	CB00222	ZBF00	Excess	32,580
Hydrochloric Acid	7647-01-0	C00003	YLA01	Water Lab	72
			94200	Anal. Lab	720
			YMF00	OPR - D+D	108
		CB00201	YMF00	OPR - D+D	14,490
					15,390
Methanol	67-56-1	C00034	YLA01	Water Lab	42
			94200	Anal. Lab	162
			ZBM00	OPR - D+D	6
			QBD00	OPR - Misc.	24
		CB00293	YLA04	BDN	109,131
					109,369
Nitric Acid	7697-37-2	C00002	ZBU00	E,S+H Lab	441
			94200	Anal. Lab	5,537
			YLA01	Water Lab	42
			ZBV00	E,S+H Lab	672
		CB00207	YCA01	#2/3 to #6	3,152
			YJA00	#6	66,782
			YJB05	#6	94,977
			MAD00	#6	11,345
			MAC00	#2/3 to #6	9,869
					192,847
Sulfuric Acid	7664-93-9	C00007	YLA01	Water Lab	108
			ZBU00	E,S+H Lab	54
			ZBV00	E,S+H Lab	54
		CB00270	YLA01	Water Plant	22,827
			YLA04	BDN	86,356
			YCA02	#2/3	3,661
					113,060
1,1,1-trichloroethane	71-55-6	L00031	YLA02	Boiler Plant	589
			ZBM00	Garage	2,351
			YKA12	Maintenance	2,939
			SGD00	Maintenance	1,177
					7,056

Table 2 Sara 313 Reportable Toxic Chemicals - 1989

Sara 313 Chemical	Activity	Usage	Threshold Limit
Ammonia	Processed	32,580 lbs.	25,000 lbs.
Hydrochloric Acid	Otherwise Used	14,598 lbs.	10,000 lbs.
	Manufactured	50 lbs.	N.A. *
Methanol	Otherwise Used	109,159 lbs.	10,000 lbs.
Nitric Acid	Processed	186,125 lbs.	25,000 lbs.
Sulfuric Acid	Otherwise Used	112,844 lbs.	10,000 lbs.

* Threshold for "otherwise used" was exceeded; therefore, all usage must be reported.

VII. 40 CFR, Part 372.38 EXEMPTIONS

Toxic chemicals that are manufactured, processed, or used in a laboratory at a covered facility under the supervision of a technically qualified individual are exempt from threshold determination and release estimates. This exemption does not apply to specialty chemical production or to production, processing, or use of toxic chemicals in Pilot Plant operations.

There are three laboratories at the FMPC which manufacture, process, or use SARA 313 toxic chemicals: the Analytical Laboratory, the E,S+H Laboratory, and the Water Plant Laboratory. All the laboratories are under the supervision of a technically qualified individual as defined in 40 CFR, Part 720.3(ee). None of the labs used SARA 313 toxic chemicals for specialty chemical production or Pilot Plant operations during CY 1989.

FMPC CHEMICAL USAGE FOR SARA 313 - 1989, included as Appendix B-2, and the list of account numbers, included as Appendix B-3, identified the quantity of each reportable chemical used by the respective laboratory. Chemicals used in these laboratories are exempt under Part 372.38(d) and were not included in the threshold determinations or release calculations.

FMPC FUEL INVENTORY FOR SARA 313 - 1989, included as Appendix C-1, lists the amount of fuel used for maintaining motor vehicles operated by the facility. Toxic chemicals contained in these fuels are exempt from reporting under Part 372.38(c)(4).

VIII. 40 CFR, Part 372.45 NOTIFICATION ABOUT TOXIC CHEMICALS

A person who owns or operates a facility or establishment which:

(1) Is in Standard Industrial Classification codes 20 through 39 as set forth in paragraph (b) of Part 372.22.
(2) Manufactures (including imports) or processes a toxic chemical, and
(3) Sells or otherwise distributes a mixture or trade name product containing the toxic chemical

must provide written notification of any Part 372.65 chemicals contained therein.

Appendix D lists three off-site locations where SARA 313 toxic chemicals were sent in 1989: Nevada Test Site, Rollins Environmental Services, and HVC Daly, Inc.

Shipments to the Nevada Test Site (VAB) and Rollins Environmental Services were for disposal only.

No supplier notification is required for disposal of waste shipments containing toxic chemicals.

Supporting material for shipments to the Nevada Test Site (VAB) are on file in the Regulatory Compliance section of the Transportation Department.

Excess Anhydrous Ammonia was sold to HVC Daly, Inc.

No supplier notification is required for the Anhydrous Ammonia because it is considered to be a pure chemical.

IX. WASTE TREATMENT METHODS

The waste treatment methods for treating those SARA 313 chemicals found in wastes include pH neutralization of the General Sump.

The pH neutralization waste treatment is 100% efficient, since the acidic pH effluents are adjusted to the neutral pH range of 6 to 9. These pH neutralization points are documented in the monthly NPDES reports submitted to the Ohio EPA, and found in the Environmental Compliance section files.

FMPC SARA 313-EMISSION CALCULATION FORM

CALENDAR YEAR 1989

CHEMICAL Anhydrous Ammonia

CHEMICAL ABSTRACT NUMBER 7664-41-7

FMPC STOCK NUMBER CB00222

ACTIVITY Processed

LOCATION South Ammonia Storage Facility

CALENDAR YEAR 1989 ACTIVITY USE 32,580 lbs

SUPPORTING MATERIAL Section VI; Appendix B-1,2,3,4,5; D-3; Table 1,2

Anhydrous Ammonia was transferred from storage tanks on-site for commercial distribution. The transfers occurred on April 17, 18, and 19, 1989.

EMISSIONS CALCULATIONS

Fugitive Emissions
Reference: EPA Manual 560/4-88-002, Appendix D.

Location of Loss	Number		Leakage Factor		Total Loss (lb/hr)
Total Number of Flanges	125	X	0.00013	=	0.01625
Total Number of Valves	47	X	0.0038	=	0.1786
Total Number of Pumps	2	X	0.026	=	0.052
Total Number of Pressure Relief Valves	17	X	0.098	=	1.666
Loss in Dissociators (not used)			0.005	=	0.0
			Total	=	1.91285
Total Yearly Loss :	72 hrs x		1.91285	=	137.7252 lb/yr

Assumptions:

All valves were assumed to be nonleaking.
Ammonia was defined as a light liquid.
Dissociators were not in use.
Yearly loss was based on three days of pumping to remove all ammonia from the system.
Ammonia density is 5.16 lb/gal.
The number of flanges, valves, and pumps were estimated from blueprints.

FMPC SARA 313-EMISSION CALCULATION FORM

CALENDAR YEAR 1989

CHEMICAL Hydrochloric Acid

CHEMICAL ABSTRACT NUMBER 7647-01-0

ACTIVITY Manufactured

LOCATION Boiler Plant

CALENDAR YEAR 1989 ACTIVITY USE 50 lbs

SUPPORTING MATERIAL Section VI, Appendix C-1; Table 2

Hydrochloric Acid is coincidentally produced by the combustion of bituminous coal at the Boiler Plant. The Boiler Plant operates 365 days a year.

EMISSIONS CALCULATIONS

Reference: EPA Manual 450/2-88-006A, page 4-58.

0.00192 lb HCl/ton coal burned x 24,639 tons of coal burned = 50 lbs HCl

FMPC SARA 313-EMISSION CALCULATION FORM

CALENDAR YEAR 1989

CHEMICAL Hydrochloric Acid

CHEMICAL ABSTRACT NUMBER 7647-01-0

FMPC STOCK NUMBER CB00201

ACTIVITY Otherwise used

LOCATION Decontamination

CALENDAR YEAR 1989 ACTIVITY USE 14,598 lbs

SUPPORTING MATERIAL Section VI; Appendix B-1,2,3,4,5; Table 1,2

Hydrochloric Acid is used to decontaminate equipment and materials by dipping them in dip tanks at ambient temperatures. The spent hydrochloric acid is then transferred to Plant 8, along with associated water spray rinses in dumpster tanks. These hydrochloric acid wastes are neutralized with sodium hydroxide or calcium hydroxide (lime slurry), and the resulting precipitate is filtered, dried, and disposed of as solid waste. The Decontamination Facility operated sixteen hours a day, five days a week, fifty weeks a year. There were eight dips per working day, or 2000 dips per working year.

In calendar year 1989 there was a single transfer from the Tank Farm to the Decontamination Facility. The refill of the dip tank took approximately 1500 gallons.

HYDROCHLORIC ACID CALCULATIONS

Fugitive Emissions:
Reference: EPA Manual 560/4-88-002, pages 3.8-3.10, Ideal Gas Law

HYDROCHLORIC ACID (HCL): 20 Degrees BAUME, SP. GR. -1.1593
32% Solution has 371 grams(g)/liter

One foot depth of vapor accumulation space over HCL solution
3 foot * 25 foot = 75 square feet surface area of tank

HCL in Solution

1159.3 grams solution - 371 grams HCL = 788.3 grams H_2O/liter

371 grams HCL/36.46 grams HCL/mole = 10.18 moles HCl

788 grams water/18.02 grams H_2O/mole = 43.76 moles H_2O

10.18 M HCL + 43.76 M H_2O = 53.94 total moles

X(HCL mole fraction in H_2O) = 10.18 moles HCL/53.94 total moles = 0.189

X(mole fraction of H_2O) = 43.76 mole H_2O/53.94 total moles = 0.811

Partial Pressure Calculations

Partial Pressure (P) of HCL at 25 degrees C = 32.5 mm Hg
Partial Pressure of H_2O at 25 degrees C = 6.37 mm Hg

Vapor pressure of HCL solution = (32.5 P)(0.189 HCL) + (6.37 P)(0.811 H_2O) =
11.309 mm Hg = 0.219 psia

HCL mole fraction in gas phase = (32.5)(0.189)/11.309 = 0.543
H_2O mole fraction in gas phase = (6.37)(0.811)/11.309 = 0.457

Vapor fraction in air = 0.219 psia vapor pressure/14.3 psia X = 0.015

Volume expelled by each displacement = 75 ft^2 (tank surface area) * 1 foot vapor = 75 ft^3

HCL vapor released = (75 ft^3)(0.015)(0.543) = 0.624 ft^3 HCL gas/displacement
= 0.058 lb HCl/displacement

TOTAL FUGITIVE DISPLACEMENT

(0.058 lbs HCL/displ.)(2000 dips/yr) = 120 lbs HCL fugitive emissions

LOSSES TO WASTEWATER

Waste streams containing hydrochloric acid are neutralized to a pH range of 6-9. Neutralization is considered to be 100% efficient, thus no hydrochloric acid is discharged to receiving streams.

FMPC SARA 313-EMISSION CALCULATION FORM

CALENDAR YEAR 1989

CHEMICAL Methanol

CHEMICAL ABSTRACT NUMBER 67-56-1

FMPC STOCK NUMBER CB00293

ACTIVITY Otherwise used

LOCATION BDN

CALENDAR YEAR 1989 ACTIVITY USE 109,131 lbs

SUPPORTING MATERIAL Section VI, Appendix B-1,2,3,4,5; Table 1,2

Methanol is used exclusively in the biodenitrification (BDN) facility as a carbon source for the denitrifying bacteria. Methanol is received in tank truck quantities and then transferred into the storage tank from which it is metered into the BDN influent line. The BDN effluent line is routinely monitored for residual methanol.

METHANOL CALCULATIONS

Fugitive or Non-point Source Emissions

Reference: EPA Manual 560/4-88-002, Appendix D

Tank Truck Transfer Losses

transfer losses = L_t = (N)(S)(E)
N = number of tanker truck transfers
S = spillage from coupling joint = 2 gal
E = density, @ 6.6 lbs/gal

L_t = (2)(2)(6.6) = 26.4 lb/yr

Pipe Line Fitting Losses

fitting losses = L_f = (v + f + s)(168 hr/wk)(52 wks/yr)
v = pipe valve losses = (0.0038)(3) = 0.011 lbs/hr
f = flange losses = (0.00013)(10) = 0.001 lbs/hr
s = pump seal losses = (0.026)(1) = 0.026

L_f = (0.011+0.001+0.026)(168)(52) = 338 lbs/yr

Total Fugitive Losses

$L_T = L_t + L_f$ = 26.4 + 338 = 364 lbs/yr

Methanol Tank Losses

Reference: EPA 560/4-88-002, Appendix C

Basis : 1. Tank data -
a. 24 ft. diameter
b. Internal floating roof
c. Vapor mounted seal, primary and secondary
d. Fittings:
Access hatch
Gauge float

2. Atmospheric conditions
a. Annual mean temperature = 54° F
b. Mean pressure = 986 millibar
= 14.3 psia

3. MeOH partial pressure = 99 mmHg (@ 54° F)
= 1.91 psia

Methanol Calculation :

$L_t = L_r + L_w + L_f + L_d$

L_r = rim seal loss = $(K_s)(V)(p)(D)(M)(K_c)$
L_w = withdrawal loss = $[(0.943)(Q)(C)(W)/(D)]*[1+N(F_c)/D]$
L_f = deck fittings loss = $(F_f)(p)(M)(K_c)$
L_d = deck seams loss = 0 (welded)

Where:
K_s = seal factor = 6.7
V = wind velocity = 9.0 mph
n = seal related exponent = 0
p = vapor pressure function = 0.036
M = vapor molecular weight = 32
K_c = product factor = 1.0
Q = throughput = 394 bbl/yr
C = shell clingage factor = 0.0015 bbl/1000 ft^2
W = average organic liquid density = 6.6 lb/gal
D = tank diameter = 24 ft
N = number of columns = 0
F_c = effective column diameter = 1
F_f = fitting factors, total = 75

$L_r = (6.7)(9.0)(0.036)(24)(32)(1) = 185.242$

$$L_w = \frac{(0.943)(394)(0.0015)(6.6)}{(24)} \times [1 + \frac{(0)(1)}{(24)}] = 0.153$$

$L_f = (75)(0.036)(32)(1) = 74.880$

$L_t = 185.242 + 0.153 + 74.880 = 260$ lb/yr

Losses to Wastewater

Reference: EPA 560/4-88-002, Appendix A

Basis:
Methanol in discharge stream to sewage treatment plant
annual average = 7ppm

100% removal of methanol from secondary treatment facilities at low levels
(0.5 ppm)

To sewage treatment plant =

(108,500 gal/day)(365 days/'89)(8.33 lb/MG)(7 ppm) = 2309.222 lb

Assume 99% removal:

23.1 lb to river (1% residual)

FMPC SARA 313-EMISSION CALCULATION FORM

CALENDAR YEAR 1989

CHEMICAL Nitric Acid

CHEMICAL ABSTRACT NUMBER 7697-37-2

FMPC STOCK NUMBER CB00207

ACTIVITY Processing

LOCATION Plant 6

CALENDAR YEAR 1989 ACTIVITY USE 186,125 lbs

SUPPORTING MATERIAL Section VI, Appendix B-1,2,3,4,5; Table 1,2

Nitric acid is used in Plant 6 for the pickling of uranium in various stages of production. Plant 6 was operated 24 hours a day, 5 days a week from January until June. From June through December it operated 8 hours per day, 5 days a week.

EMISSION CALCULATIONS

Fugitive Emissions
Reference: EPA Manual 560/4-88-002, Appendix D

The acid inventory is transferred the equivalent of four times

$$\text{number of operating hours} = \frac{(4)(16{,}471\ \text{gal})}{(40\ \text{gal/min})(60\ \text{min/hr})} = 27.5\ \text{operating hours}$$

(2 ml/sec = 1.9 gal/hr)

pump leakage = (27.5)(1.9 gal/hr) = 52.2 gal
Assume 11.3 lbs nitric acid per gallon

Amount of nitric acid = (52.2 gal)(11.3 lbs/gal) = 589.4 lbs

Assume valves, flanges, etc leakage = pump leakage
Transfer losses = pump leakage + valve leakage

losses = (52.2 gal)(11.3 lb/gal)(2)
= 1200 lbs (rounded to two significant digits)

LOSSES TO WASTEWATER

Waste streams containing nitric acid are neutralized to a pH range of 6-9. Neutralization is considered to be 100% efficient, thus no nitric acid is discharged to receiving streams.

FMPC SARA 313-EMISSION CALCULATION FORM

CALENDAR YEAR 1989

CHEMICAL Sulfuric Acid

CHEMICAL ABSTRACT NUMBER 7664-93-9

FMPC CHEMICAL CODE NUMBER CB00270

ACTIVITY Otherwise used

LOCATION WTP; BDN; General Sump

CALENDAR YEAR 1989 ACTIVITY USE 112,884 lbs

SUPPORTING MATERIAL Section VI, Appendix B-1,2,3,4,5; Table 1,2

Sulfuric Acid is used principally for pH adjustment at the BDN Facility, the General Sump, and the Water Treatment Plant. All of these facilities operate 365 days per year.

EMISSION CALCULATIONS

Sulfuric Acid Released to Water

Sulfuric acid is used for pH adjustment of spent basic effluents, and no sulfuric acid remains in the water. (pH is adjusted to 6-9)

LOSSES TO WASTEWATER

Waste streams containing sulfuric acid are neutralized to a pH range of 6-9. Neutralization is considered to be 100% efficient, thus no sulfuric acid is discharged to receiving streams.

Form Approved OMB No.: [illegible]

Approval Expires: 01/91

1405

(Important: Type or print; read instructions before completing form.)

EPA U.S. Environmental Protection Agency

TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORM

Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986, also known as Title III of the Superfund Amendments and Reauthorization Act

Public reporting burden for this collection of information is estimated to vary from 30 to 34 hours per response, with an average of 32 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch (PM-223), US EPA, 401 M St., SW, Washington, D.C. 20460 Attn: TRI Burden and to the Office of Information and Regulatory Affairs, Office of Management and Budget Paperwork Reduction Project (2070-0093), Washington, D.C. 20503.

EPA FORM **R**

PART I. FACILITY IDENTIFICATION INFORMATION

(This space for your optional use.)

1. 1.1 Are you claiming the chemical identity on page 3 trade secret? [ ] Yes (Answer question 1.2; Attach substantiation forms.) [XX] No (Do not answer 1.2; Go to question 1.3.)

1.2 If "Yes" in 1.1, is this copy: [ ] Sanitized [ ] Unsanitized

1.3 Reporting Year 19 89

2. CERTIFICATION (Read and sign after completing all sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official: Gerald W. Westerbeck, DOE/FMPC Site Manager

Signature: [signature] Date signed: 6/26/90

3. FACILITY IDENTIFICATION

3.1 Facility or Establishment Name: U. S. Department of Energy, Feed Materials Production Center

Street Address: 7400 Willey Road

City: Fernald | County: Hamilton

State: Ohio | Zip Code: 45030

TRI Facility Identification Number: 45030 SDPRT 7400W

WHERE TO SEND COMPLETED FORMS:

1. EPCRA REPORTING CENTER
   P.O. BOX 23779
   WASHINGTON, DC 20026-3779
   ATTN: TOXIC CHEMICAL RELEASE INVENTORY
2. APPROPRIATE STATE OFFICE (See instructions in Appendix G)

3.2 This report contains information for (Check only one): a. [XX] An entire facility b. [ ] Part of a facility.

3.3 Technical Contact: Kent Brakken — Telephone Number (Include area code): (513) 738-6660

3.4 Public Contact: Bobby Jo Davis — Telephone Number (Include area code): (513) 738-6156

3.5 SIC Code (4 digit): a. 2819 b. c. d. e. f.

3.6 Latitude: Degrees 39, Minutes 18, Seconds — Longitude: Degrees 84, Minutes 41, Seconds

3.7 Dun & Bradstreet Number(s): a. Not Applicable b.

3.8 EPA Identification Number(s) (RCRA I.D. No.): a. OH6890008976 b.

3.9 NPDES Permit Number(s): a. OH 0009580 b.

3.10 Receiving Streams or Water Bodies (enter one name per box): a. Great Miami River b. Paddy's Run Creek c. d. e. f.

3.11 Underground Injection Well Code (UIC) Identification Number(s): a. Not Applicable b.

4. PARENT COMPANY INFORMATION

4.1 Name of Parent Company: U.S. Dept. of Energy Weapons Division of Oak Ridge

4.2 Parent Company's Dun & Bradstreet Number: Not Applicable

25

(Important: Type or print; read instructions before completing form.)

1405

EPA

EPA FORM R
PART II. OFF-SITE LOCATIONS TO WHICH TOXIC CHEMICALS ARE TRANSFERRED IN WASTES

(This space for optional use.)

1. PUBLICLY OWNED TREATMENT WORKS (POTWs)

1.1 POTW name		1.2 POTW name	
Not Applicable			
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip

2. OTHER OFF-SITE LOCATIONS (DO NOT REPORT LOCATIONS TO WHICH WASTES ARE SENT ONLY FOR RECYCLING OR REUSE).

2.1 Off-site location name		2.2 Off-site location name	
Not Applicable			
EPA Identification Number (RCRA ID. No.)		EPA Identification Number (RCRA ID. No.)	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip
Is location under control of reporting facility or parent company? [ ] Yes [ ] No		Is location under control of reporting facility or parent company? [ ] Yes [ ] No	

2.3 Off-site location name		2.4 Off-site location name	
EPA Identification Number (RCRA ID. No.)		EPA Identification Number (RCRA ID. No.)	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip
Is location under control of reporting facility or parent company? [ ] Yes [ ] No		Is location under control of reporting facility or parent company? [ ] Yes [ ] No	

2.5 Off-site location name		2.6 Off-site location name	
EPA Identification Number (RCRA ID. No.)		EPA Identification Number (RCRA ID. No.)	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip
Is location under control of reporting facility or parent company? [ ] Yes [ ] No		Is location under control of reporting facility or parent company? [ ] Yes [ ] No	

[ ] Check if additional pages of Part II are attached. How many? _____

20

(Important: Type or print; read instructions before completing form.)

EPA

EPA FORM R

PART III. CHEMICAL-SPECIFIC INFORMATION

(This space for your optional use.)

NH_3

1. CHEMICAL IDENTITY (Do not complete this section if you complete Section 2.)

1.1	(Reserved)
1.2	CAS Number (Enter only one number exactly as it appears on the 313 list. Enter NA if reporting a chemical category.) 7664-41-7
1.3	Chemical or Chemical Category Name (Enter only one name exactly as it appears on the 313 list.) Ammonia
1.4	Generic Chemical Name (Complete only if Part I, Section 1.1 is checked "Yes." Generic name must be structurally descriptive.)

2. MIXTURE COMPONENT IDENTITY (Do not complete this section if you complete Section 1.)

Generic Chemical Name Provided by Supplier (Limit the name to a maximum of 70 characters (e.g., numbers, letters, spaces, punctuation).)

3. ACTIVITIES AND USES OF THE CHEMICAL AT THE FACILITY (Check all that apply.)

3.1	Manufacture the chemical:	a. [ ] Produce	b. [ ] Import	If produce or import: c. [ ] For on-site use/processing	e. [ ] As a byproduct	d. [ ] For sale/distribution	f. [ ] As an impurity
3.2	Process the chemical:	a. [ ] As a reactant	d. [XXX] Repackaging only	b. [ ] As a formulation component	c. [ ] As an article component		
3.3	Otherwise use the chemical:	a. [ ] As a chemical processing aid	b. [ ] As a manufacturing aid	c. [ ] Ancillary or other use			

4. MAXIMUM AMOUNT OF THE CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR

[0 4] (enter code)

5. RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE

You may report releases of less than 1,000 pounds by checking ranges under A.1. (Do not use both A.1 and A.2)			A. Total Release (pounds/year) A.1 Reporting Ranges 0 / 1-499 / 500-999	A.2 Enter Estimate	B. Basis of Estimate (enter code)	C. % From Stormwater
5.1 Fugitive or non-point air emissions		5.1a	[ ] [ ] [ ]	140	5.1b E	
5.2 Stack or point air emissions		5.2a	[ ] [ ] [ ]	N/A	5.2b	
5.3 Discharges to receiving streams or water bodies (Enter letter code for stream from Part I Section 3.10 in the box provided.)	5.3.1	5.3.1a	[ ] [ ] [ ]	N/A	5.3.1b	5.3.1c N/A %
	5.3.2	5.3.2a	[ ] [ ] [ ]	N/A	5.3.2b	5.3.2c N/A %
	5.3.3	5.3.3a	[ ] [ ] [ ]	N/A	5.3.3b	5.3.3c N/A %
5.4 Underground injection on-site		5.4a	[ ] [ ] [ ]	N/A	5.4b	
5.5 Releases to land on-site: 5.5.1 Landfill		5.5.1a	[ ] [ ] [ ]	N/A	5.5.1b	
5.5.2 Land treatment/application farming		5.5.2a	[ ] [ ] [ ]	N/A	5.5.2b	
5.5.3 Surface impoundment		5.5.3a	[ ] [ ] [ ]	N/A	5.5.3b	
5.5.4 Other disposal		5.5.4a	[ ] [ ] [ ]	N/A	5.5.4b	

[ ] (Check if additional information is provided on Part IV-Supplemental Information.)

27

(Important: Type or print; read instructions before completing form.)

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EPA FORM R
PART III. CHEMICAL-SPECIFIC INFORMATION
(continued)

(This space for your optional use.)
NH_3

6. TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS

You may report transfers of less than 1,000 pounds by checking ranges under A.1. (Do not use both A.1 and A.2)	A. Total Transfers (pounds/year) A.1 Reporting Ranges 0 / 1-499 / 500-999	A.2 Enter Estimate	B. Basis of Estimate (enter code)	C. Type of Treatment/ Disposal (enter code)
6.1.1 Discharge to POTW (enter location number from Part II, Section 1.) 1	[ ] [ ] [ ]	N/A	6.1.1b [ ]	
6.2.1 Other off-site location (enter location number from Part II, Section 2.) 2	[ ] [ ] [ ]	N/A	6.2.1b [ ]	6.2.1c M
6.2.2 Other off-site location (enter location number from Part II, Section 2.) 2	[ ] [ ] [ ]	N/A	6.2.2b [ ]	6.2.2c M
6.2.3 Other off-site location (enter location number from Part II, Section 2.) 2	[ ] [ ] [ ]	N/A	6.2.3b [ ]	6.2.3c M

[ ] (Check if additional information is provided on Part IV-Supplemental Information.)

7. WASTE TREATMENT METHODS AND EFFICIENCY

[XXX] Not Applicable (NA) - Check if no on-site treatment is applied to any wastestream containing the chemical or chemical category.

A. General Wastestream (enter code)	B. Treatment Method (enter code)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data? Yes / No
7.1a [ ]	7.1b [ ]	7.1c [ ]	7.1d [ ]	7.1e %	7.1f [ ] [ ]
7.2a [ ]	7.2b [ ]	7.2c [ ]	7.2d [ ]	7.2e %	7.2f [ ] [ ]
7.3a [ ]	7.3b [ ]	7.3c [ ]	7.3d [ ]	7.3e %	7.3f [ ] [ ]
7.4a [ ]	7.4b [ ]	7.4c [ ]	7.4d [ ]	7.4e %	7.4f [ ] [ ]
7.5a [ ]	7.5b [ ]	7.5c [ ]	7.5d [ ]	7.5e %	7.5f [ ] [ ]
7.6a [ ]	7.6b [ ]	7.6c [ ]	7.6d [ ]	7.6e %	7.6f [ ] [ ]
7.7a [ ]	7.7b [ ]	7.7c [ ]	7.7d [ ]	7.7e %	7.7f [ ] [ ]
7.8a [ ]	7.8b [ ]	7.8c [ ]	7.8d [ ]	7.8e %	7.8f [ ] [ ]
7.9a [ ]	7.9b [ ]	7.9c [ ]	7.9d [ ]	7.9e %	7.9f [ ] [ ]
7.10a [ ]	7.10b [ ]	7.10c [ ]	7.10d [ ]	7.10e %	7.10f [ ] [ ]

[ ] (Check if additional information is provided on Part IV-Supplemental Information.)

8. POLLUTION PREVENTION: OPTIONAL INFORMATION ON WASTE MINIMIZATION

(Indicate actions taken to reduce the amount of the chemical being released from the facility. See the instructions for coded items and an explanation of what information to include.)

A. Type of Modification (enter code)	B. Quantity of the Chemical in Wastes Prior to Treatment or Disposal: Current reporting year (pounds/year)	Prior year (pounds/year)	Or percent change (Check (+) or (-))	C. Index	D. Reason for Action (enter code)
M 4	140	6800	[ ] + [X] - 97.9 %	0 . 0	R 5

28

☐ NO ADDITIONAL INFORMATION ON THIS PAGE

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(Important: Type or print; read instructions before completing form.)

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EPA FORM R

PART IV. SUPPLEMENTAL INFORMATION

Use this section if you need additional space for answers to questions in Part III. Number the lines used sequentially from lines in prior sections (e.g., 5.3.4, 6.1.2, 7.11)

(This space for your optional use)

ADDITIONAL INFORMATION ON RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE (Part III, Section 5.3)

You may report releases of less than 1,000 pounds by checking ranges under A.1. (Do not use both A.1 and A.2)			A. Total Release (pounds/year) A.1 Reporting Ranges 0 / 1-499 / 500-999	A.2 Enter Estimate	B. Basis of Estimate (enter code in box provided)	C. % From Stormwater
5.3 Discharges to receiving streams or water bodies	5.3.___ ☐	5.3.___a	[ ] [ ] [ ]		5.3.___b ☐	5.3.___c %
(Enter letter code for stream from Part I Section 3.10 in the box provided.)	5.3.___ ☐	5.3.___a	[ ] [ ] [ ]		5.3.___b ☐	5.3.___c %
	5.3.___ ☐	5.3.___a	[ ] [ ] [ ]		5.3.___b ☐	5.3.___c %

ADDITIONAL INFORMATION ON TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS (Part III, Section 6)

You may report transfers of less than 1,000 pounds by checking ranges under A.1. (Do not use both A.1 and A.2)		A. Total Transfers (pounds/year) A.1 Reporting Ranges 0 / 1-499 / 500-999	A.2 Enter Estimate	B. Basis of Estimate (enter code in box provided)	C. Type of Treatment/ Disposal (enter code in box provided)
6.1.___ Discharge to POTW (enter location number from Part II, Section 1.)	1 ☐	[ ] [ ] [ ]		6.1.___b ☐	
6.2.___ Other off-site location (enter location number from Part II, Section 2.)	2 ☐	[ ] [ ] [ ]		6.2.___b ☐	6.2.___c M ☐
6.2.___ Other off-site location (enter location number from Part II, Section 2.)	2 ☐	[ ] [ ] [ ]		6.2.___b ☐	6.2.___c M ☐
6.2.___ Other off-site location (enter location number from Part II, Section 2.)	2 ☐	[ ] [ ] [ ]		6.2.___b ☐	6.2.___c M ☐

ADDITIONAL INFORMATION ON WASTE TREATMENT METHODS AND EFFICIENCY (Part III, Section 7)

A. General Wastestream (enter code in box provided)	B. Treatment Method (enter code in box provided)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data? Yes / No
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]

Approval Expires 5/31/91

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(Important: Type or print; read instructions before completing form.)

EPA U.S. Environmental Protection Agency

TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORM

Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986, also known as Title III of the Superfund Amendments and Reauthorization Act

EPA FORM **R**

PART I. FACILITY IDENTIFICATION INFORMATION

(This space for your optional use.)

Public reporting burden for this collection of information is estimated to vary from 30 to 34 hours per response, with an average of 32 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch (PM-223), US EPA, 401 M St., S.W., Washington, D.C. 20460 Attn: TRI Burden and to the Office of Information and Regulatory Affairs, Office of Management and Budget Paperwork Reduction Project (2070-0093), Washington, D.C. 20503.

1. 1.1 Are you claiming the chemical identity on page 3 trade secret?
[ ] Yes (Answer question 1.2; Attach substantiation forms.) [XX] No (Do not answer 1.2; Go to question 1.3.)

1.2 If "Yes" in 1.1, is this copy: [ ] Sanitized [ ] Unsanitized

1.3 Reporting Year 19 89

2. CERTIFICATION (Read and sign after completing all sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official: Gerald W. Westerbeck, DOE/FMPC Site Manager

Signature: [signature] Date signed: 6/26/90

3. FACILITY IDENTIFICATION

3.1 Facility or Establishment Name: U. S. Department of Energy, Feed Materials Production Center

Street Address: 7400 Willey Road

City: Fernald County: Hamilton

State: Ohio Zip Code: 45030

TRI Facility Identification Number: 45030 SDPRT 7400W

WHERE TO SEND COMPLETED FORMS:

1. EPCRA REPORTING CENTER
P.O. BOX 23779
WASHINGTON, DC 20026-3779
ATTN: TOXIC CHEMICAL RELEASE INVENTORY

2. APPROPRIATE STATE OFFICE (See instructions in Appendix G)

3.2 This report contains information for (Check only one): a. [XX] An entire facility b. [ ] Part of a facility.

3.3 Technical Contact: Kent Brakken Telephone Number (include area code): (513)738-6660

3.4 Public Contact: Bobby Jo Davis Telephone Number (include area code): (513)738-6156

3.5 SIC Code (4 digit): a. 2819 b. c. d. e. f.

3.6 Latitude: Degrees 39 Minutes 18 Seconds; Longitude: Degrees 84 Minutes 41 Seconds

3.7 Dun & Bradstreet Number(s): a. Not Applicable b.

3.8 EPA Identification Number(s) (RCRA I.D. No.): a. OH6890008976 b.

3.9 NPDES Permit Number(s): a. OH 0009580 b.

3.10 Receiving Streams or Water Bodies (enter one name per box): a. Great Miami River b. Paddy's Run Creek c. d. e. f.

3.11 Underground Injection Well Code (UIC) Identification Number(s): a. Not Applicable b.

4. PARENT COMPANY INFORMATION

4.1 Name of Parent Company: U.S. Dept. of Energy Weapons Division of Oak Ridge

4.2 Parent Company's Dun & Bradstreet Number: Not Applicable

30

(Important: Type or print; read instructions before completing form.)

EPA

EPA FORM R
PART II. OFF-SITE LOCATIONS TO WHICH TOXIC CHEMICALS ARE TRANSFERRED IN WASTES

(This space for your optional use.)

1. PUBLICLY OWNED TREATMENT WORKS (POTWs)

1.1 POTW name		1.2 POTW name	
Not Applicable			
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip

2. OTHER OFF-SITE LOCATIONS (DO NOT REPORT LOCATIONS TO WHICH WASTES ARE SENT ONLY FOR RECYCLING OR REUSE).

2.1 Off-site location name		2.2 Off-site location name	
Not Applicable			
EPA Identification Number (RCRA ID. No.)		EPA Identification Number (RCRA ID. No.)	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip
Is location under control of reporting facility or parent company? [ ] Yes [ ] No		Is location under control of reporting facility or parent company? [ ] Yes [ ] No	

2.3 Off-site location name		2.4 Off-site location name	
EPA Identification Number (RCRA ID. No.)		EPA Identification Number (RCRA ID. No.)	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip
Is location under control of reporting facility or parent company? [ ] Yes [ ] No		Is location under control of reporting facility or parent company? [ ] Yes [ ] No	

2.5 Off-site location name		2.6 Off-site location name	
EPA Identification Number (RCRA ID. No.)		EPA Identification Number (RCRA ID. No.)	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip
Is location under control of reporting facility or parent company? [ ] Yes [ ] No		Is location under control of reporting facility or parent company? [ ] Yes [ ] No	

[ ] Check if additional pages of Part II are attached. How many? _____

EPA

EPA FORM R

PART III. CHEMICAL-SPECIFIC INFORMATION

(This space for your optional use.)

HCl

1. CHEMICAL IDENTITY (Do not complete this section if you complete Section 2.)

1.1	[Reserved]
1.2	CAS Number (Enter only one number exactly as it appears on the 313 list. Enter NA if reporting a chemical category.) 7647-01-0
1.3	Chemical or Chemical Category Name (Enter only one name exactly as it appears on the 313 list.) Hydrochloric Acid
1.4	Generic Chemical Name (Complete only if Part I, Section 1.1 is checked "Yes." Generic name must be structurally descriptive.)

2. MIXTURE COMPONENT IDENTITY (Do not complete this section if you complete Section 1.)

Generic Chemical Name Provided by Supplier (Limit the name to a maximum of 70 characters (e.g., numbers, letters, spaces, punctuation).)

3. ACTIVITIES AND USES OF THE CHEMICAL AT THE FACILITY (Check all that apply.)

3.1	Manufacture the chemical:	a. [XX] Produce	b. [ ] Import	If produce or import: c. [ ] For on-site use/processing	d. [ ] For sale/distribution
				e. [XX] As a byproduct	f. [ ] As an impurity
3.2	Process the chemical:	a. [ ] As a reactant	b. [ ] As a formulation component	c. [ ] As an article component	
		d. [ ] Repackaging only			
3.3	Otherwise use the chemical:	a. [ ] As a chemical processing aid	b. [ ] As a manufacturing aid	c. [XX] Ancillary or other use	

4. MAXIMUM AMOUNT OF THE CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR

[0 4] (enter code)

5. RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE

You may report releases of less than 1,000 pounds by checking ranges under A.1. (Do not use both A.1 and A.2)		A. Total Release (pounds/year) A.1 Reporting Ranges 0 / 1-499 / 500-999	A.2 Enter Estimate	B. Basis of Estimate (enter code)	C. % From Stormwater
5.1 Fugitive or non-point air emissions	5.1a	[ ] [ ] [ ]	120	5.1b [0]	
5.2 Stack or point air emissions	5.2a	[ ] [ ] [ ]	50	5.2b [E]	
5.3 Discharges to receiving streams or water bodies (Enter letter code for stream from Part I Section 3.10 in the box provided.) 5.3.1 [ ]	5.3.1a	[ ] [ ] [ ]	N/A	5.3.1b [0]	5.3.1c N/A %
5.3.2 [ ]	5.3.2a	[ ] [ ] [ ]	N/A	5.3.2b [ ]	5.3.2c N/A %
5.3.3 [ ]	5.3.3a	[ ] [ ] [ ]	N/A	5.3.3b [ ]	5.3.3c N/A %
5.4 Underground injection on-site	5.4a	[ ] [ ] [ ]	N/A	5.4b [ ]	
5.5 Releases to land on-site					
5.5.1 Landfill	5.5.1a	[ ] [ ] [ ]	N/A	5.5.1b [ ]	
5.5.2 Land treatment/application farming	5.5.2a	[ ] [ ] [ ]	N/A	5.5.2b [ ]	
5.5.3 Surface impoundment	5.5.3a	[ ] [ ] [ ]	N/A	5.5.3b [ ]	
5.5.4 Other disposal	5.5.4a	[ ] [ ] [ ]	N/A	5.5.4b [ ]	

[ ] (Check if additional information is provided on Part IV-Supplemental Information.)

(Important: Type or print; read instructions before completing form.)

EPA

EPA FORM R

PART III. CHEMICAL-SPECIFIC INFORMATION (continued)

(This space for your optional use

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6. TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS

You may report transfers of less than 1,000 pounds by checking ranges under A.1. (Do not use both A.1 and A.2)	A. Total Transfers (pounds/year) A.1 Reporting Ranges 0 / 1-499 / 500-999	A.2 Enter Estimate	B. Basis of Estimate (enter code)	C. Type of Treatment Disposal (enter code)
6.1.1 Discharge to POTW (enter location number from Part II, Section 1.) [1] [ ]	[ ] [ ] [ ]	N/A	6.1.1b [ ]	
6.2.1 Other off-site location (enter location number from Part II, Section 2.) [2] [ ]	[ ] [ ] [ ]	N/A	6.2.1b [ ]	6.2.1c [M] [ ] [ ]
6.2.2 Other off-site location (enter location number from Part II, Section 2.) [2] [ ]	[ ] [ ] [ ]	N/A	6.2.2b [ ]	6.2.2c [M] [ ] [ ]
6.2.3 Other off-site location (enter location number from Part II, Section 2.) [2] [ ]	[ ] [ ] [ ]	N/A	6.2.3b [ ]	6.2.3c [M] [ ] [ ]

[ ] (Check if additional information is provided on Part IV-Supplemental Information.)

7. WASTE TREATMENT METHODS AND EFFICIENCY

[ ] Not Applicable (NA) - Check if no on-site treatment is applied to any wastestream containing the chemical or chemical category.

A. General Wastestream (enter code)	B. Treatment Method (enter code)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data? Yes	No
7.1a [W]	7.1b [C 1 1]	7.1c [1]	7.1d [ ]	7.1e 100%	7.1f [X]	[ ]
7.2a N/A [ ]	7.2b [ ]	7.2c [ ]	7.2d [ ]	7.2e %	7.2f [ ]	[ ]
7.3a N/A [ ]	7.3b [ ]	7.3c [ ]	7.3d [ ]	7.3e %	7.3f [ ]	[ ]
7.4a N/A [ ]	7.4b [ ]	7.4c [ ]	7.4d [ ]	7.4e %	7.4f [ ]	[ ]
7.5a N/A [ ]	7.5b [ ]	7.5c [ ]	7.5d [ ]	7.5e %	7.5f [ ]	[ ]
7.6a N/A [ ]	7.6b [ ]	7.6c [ ]	7.6d [ ]	7.6e %	7.6f [ ]	[ ]
7.7a N/A [ ]	7.7b [ ]	7.7c [ ]	7.7d [ ]	7.7e %	7.7f [ ]	[ ]
7.8a N/A [ ]	7.8b [ ]	7.8c [ ]	7.8d [ ]	7.8e %	7.8f [ ]	[ ]
7.9a N/A [ ]	7.9b [ ]	7.9c [ ]	7.9d [ ]	7.9e %	7.9f [ ]	[ ]
7.10a N/A [ ]	7.10b [ ]	7.10c [ ]	7.10d [ ]	7.10e %	7.10f [ ]	[ ]

[ ] (Check if additional information is provided on Part IV-Supplemental Information.)

8. POLLUTION PREVENTION: OPTIONAL INFORMATION ON WASTE MINIMIZATION

(Indicate actions taken to reduce the amount of the chemical being released from the facility. See the instructions for coded items and an explanation of what information to include.)

A. Type of Modification (enter code)	B. Quantity of the Chemical in Wastes Prior to Treatment or Disposal: Current reporting year (pounds/year)	Prior year (pounds/year)	Or percent change (Check (+) or (-))	C. Index	D. Reason for Action (enter code)
[M]			[ ] + [ ] - %	[ ] . [ ]	[R]

EPA Form 9350-1 (1-90) Revised - Do not use previous versions.

☐ NO ADDITIONAL INFORMATION ON THIS PAGE

(Important: Type or print; read instructions before completing form.)

EPA

EPA FORM R

PART IV. SUPPLEMENTAL INFORMATION

Use this section if you need additional space for answers to questions in Part III. Number the lines used sequentially from lines in prior sections (e.g., 5.3.4, 6.1.2, 7.11)

(This space for your optional use)

ADDITIONAL INFORMATION ON RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE (Part III, Section 5.3)

You may report releases of less than 1,000 pounds by checking ranges under A.1. (Do not use both A.1 and A.2)			A. Total Release (pounds/year) A.1 Reporting Ranges 0 / 1-499 / 500-999	A.2 Enter Estimate	B. Basis of Estimate (enter code in box provided)	C. % From Stormwater
5.3 Discharges to receiving streams or water bodies	5.3.___ ☐	5.3.___a	[ ] [ ] [ ]		5.3.___b ☐	5.3.___c %
(Enter letter code for stream from Part I Section 3.10 in the box provided.)	5.3.___ ☐	5.3.___a	[ ] [ ] [ ]		5.3.___b ☐	5.3.___c %
	5.3.___ ☐	5.3.___a	[ ] [ ] [ ]		5.3.___b ☐	5.3.___c %

ADDITIONAL INFORMATION ON TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS (Part III, Section 6)

You may report transfers of less than 1,000 pounds by checking ranges under A.1. (Do not use both A.1 and A.2)		A. Total Transfers (pounds/year) A.1 Reporting Ranges 0 / 1-499 / 500-999	A.2 Enter Estimate	B. Basis of Estimate (enter code in box provided)	C. Type of Treatment/ Disposal (enter code in box provided)
6.1.___ Discharge to POTW (enter location number from Part II, Section 1.)	1 ☐	[ ] [ ] [ ]		6.1.___b ☐	
6.2.___ Other off-site location (enter location number from Part II, Section 2.)	2 ☐	[ ] [ ] [ ]		6.2.___b ☐	6.2.___c M ☐☐
6.2.___ Other off-site location (enter location number from Part II, Section 2.)	2 ☐	[ ] [ ] [ ]		6.2.___b ☐	6.2.___c M ☐☐
6.2.___ Other off-site location (enter location number from Part II, Section 2.)	2 ☐	[ ] [ ] [ ]		6.2.___b ☐	6.2.___c M ☐☐

ADDITIONAL INFORMATION ON WASTE TREATMENT METHODS AND EFFICIENCY (Part III, Section 7)

A. General Wastestream (enter code in box provided)	B. Treatment Method (enter code in box provided)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data? Yes / No
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]

Approval Expires: 8/91

1405 Page 1 of 5

(Important: Type or print; read instructions before completing form.)

EPA U.S. Environmental Protection Agency

TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORM

Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986, also known as Title III of the Superfund Amendments and Reauthorization Act

EPA FORM **R**

PART I. FACILITY IDENTIFICATION INFORMATION

(This space for your optional use.)

Public reporting burden for this collection of information is estimated to vary from 20 to 34 hours per response, with an average of 32 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to Chief, Information Policy Branch (PM-223), US EPA, 401 M St., SW, Washington, D.C. 20460 Attn: TRI Burden and to the Office of Information and Regulatory Affairs, Office of Management and Budget Paperwork Reduction Project (2070-0093), Washington, D.C. 20503.

1. 1.1 Are you claiming the chemical identity on page 3 trade secret?
[ ] Yes (Answer question 1.2; Attach substantiation forms.) [XX] No (Do not answer 1.2; Go to question 1.3.)

1.2 If "Yes" in 1.1, is this copy: [ ] Sanitized [ ] Unsanitized

1.3 Reporting Year 19 89

2. CERTIFICATION (Read and sign after completing all sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official: Gerald W. Westerbeck, DOE/FMPC Site Manager

Signature: [signature] Date signed: 6/26/90

3. FACILITY IDENTIFICATION

3.1 Facility or Establishment Name: U. S. Department of Energy, Feed Materials Production Center
Street Address: 7400 Willey Road
City: Fernald County: Hamilton
State: Ohio Zip Code: 45030
TRI Facility Identification Number: 45030 SDPRT 7400W

WHERE TO SEND COMPLETED FORMS:

1. EPCRA REPORTING CENTER
P.O. BOX 23779
WASHINGTON, DC 20026-3779
ATTN: TOXIC CHEMICAL RELEASE INVENTORY

2. APPROPRIATE STATE OFFICE (See instructions in Appendix G)

3.2 This report contains information for (Check only one): a. [XX] An entire facility b. [ ] Part of a facility.

3.3 Technical Contact: Kent Brakken Telephone Number (include area code): (513)738-6660

3.4 Public Contact: Bobby Jo Davis Telephone Number (include area code): (513)738-6156

3.5 SIC Code (4 digit) a. 2819 b. c. d. e. f.

3.6

Latitude			Longitude		
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
39	18		84	41	

3.7 Dun & Bradstreet Number(s) a. Not Applicable b.

3.8 EPA Identification Number(s) (RCRA I.D. No.) a. OH6890008976 b.

3.9 NPDES Permit Number(s) a. OH 0009580 b.

3.10 Receiving Streams or Water Bodies (enter one name per box) a. Great Miami River b. Paddy's Run Creek c. d. e. f.

3.11 Underground Injection Well Code (UIC) Identification Number(s) a. Not Applicable b.

4. PARENT COMPANY INFORMATION

4.1 Name of Parent Company: U.S. Dept. of Energy Weapons Division of Oak Ridge

4.2 Parent Company's Dun & Bradstreet Number: Not Applicable

35

Important: Type or print; read instructions before completing form.

Page 1405

EPA

EPA FORM R
PART II. OFF-SITE LOCATIONS TO WHICH TOXIC CHEMICALS ARE TRANSFERRED IN WASTES

(This space for your optional use)

PUBLICLY OWNED TREATMENT WORKS (POTWs)

1 POTW name		1.2 POTW name	
Not Applicable			
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip

2. OTHER OFF-SITE LOCATIONS (DO NOT REPORT LOCATIONS TO WHICH WASTES ARE SENT ONLY FOR RECYCLING OR REUSE).

2.1 Off-site location name		2.2 Off-site location name	
Not Applicable			
EPA Identification Number (RCRA ID. No.)		EPA Identification Number (RCRA ID. No.)	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip
Is location under control of reporting facility or parent company? [ ] Yes [ ] No		Is location under control of reporting facility or parent company? [ ] Yes [ ] No	

2.3 Off-site location name		2.4 Off-site location name	
EPA Identification Number (RCRA ID. No.)		EPA Identification Number (RCRA ID. No.)	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip
Is location under control of reporting facility or parent company? [ ] Yes [ ] No		Is location under control of reporting facility or parent company? [ ] Yes [ ] No	

2.5 Off-site location name		2.6 Off-site location name	
EPA Identification Number (RCRA ID. No.)		EPA Identification Number (RCRA ID. No.)	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip
Is location under control of reporting facility or parent company? [ ] Yes [ ] No		Is location under control of reporting facility or parent company? [ ] Yes [ ] No	

[ ] Check if additional pages of Part II are attached. How many? _____

36

(Important: Type or print; read instructions before completing form.)

EPA

EPA FORM R

PART III. CHEMICAL-SPECIFIC INFORMATION

(This space for your optional use.)

MeOH

1. CHEMICAL IDENTITY (Do not complete this section if you complete Section 2.)

1.1	(Reserved)
1.2	CAS Number (Enter only one number exactly as it appears on the 313 list. Enter NA if reporting a chemical category.) 67-56-1
1.3	Chemical or Chemical Category Name (Enter only one name exactly as it appears on the 313 list.) Methanol
1.4	Generic Chemical Name (Complete only if Part I, Section 1.1 is checked "Yes." Generic name must be structurally descriptive.)

2. MIXTURE COMPONENT IDENTITY (Do not complete this section if you complete Section 1.)

Generic Chemical Name Provided by Supplier (Limit the name to a maximum of 70 characters (e.g., numbers, letters, spaces, punctuation).)

3. ACTIVITIES AND USES OF THE CHEMICAL AT THE FACILITY (Check all that apply.)

3.1	Manufacture the chemical:	a. [ ] Produce	b. [ ] Import	If produce or import: c. [ ] For on-site use/processing	d. [ ] For sale/distribution
				e. [ ] As a byproduct	f. [ ] As an impurity
3.2	Process the chemical:	a. [ ] As a reactant	d. [ ] Repackaging only	b. [ ] As a formulation component	c. [ ] As an article component
3.3	Otherwise use the chemical:	a. [XX] As a chemical processing aid		b. [ ] As a manufacturing aid	c. [ ] Ancillary or other use

4. MAXIMUM AMOUNT OF THE CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR

[0] [5] (enter code)

5. RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE

You may report releases of less than 1,000 pounds by checking ranges under A.1. (Do not use both A.1 and A.2)		A. Total Release (pounds/year) A.1 Reporting Ranges 0 / 1-499 / 500-999	A.2 Enter Estimate	B. Basis of Estimate (enter code)	C. % From Stormwater
5.1 Fugitive or non-point air emissions	5.1a	[ ] [ ] [ ]	360	5.1b E	
5.2 Stack or point air emissions	5.2a	[ ] [ ] [ ]	260	5.2b E	
5.3 Discharges to receiving streams or water bodies (Enter letter code for stream from Part I Section 3.10 in the box provided.) 5.3.1 a	5.3.1a	[ ] [ ] [ ]	23	5.3.1b 0	5.3.1c 0 %
5.3.2 [ ]	5.3.2a	[ ] [ ] [ ]	N/A	5.3.2b [ ]	5.3.2c N/A %
5.3.3 [ ]	5.3.3a	[ ] [ ] [ ]	N/A	5.3.3b [ ]	5.3.3c N/A %
5.4 Underground injection on-site	5.4a	[ ] [ ] [ ]	N/A	5.4b [ ]	
5.5 Releases to land on-site: 5.5.1 Landfill	5.5.1a	[ ] [ ] [ ]	N/A	5.5.1b [ ]	
5.5.2 Land treatment/application farming	5.5.2a	[ ] [ ] [ ]	N/A	5.5.2b [ ]	
5.5.3 Surface impoundment	5.5.3a	[ ] [ ] [ ]	N/A	5.5.3b [ ]	
5.5.4 Other disposal	5.5.4a	[ ] [ ] [ ]	N/A	5.5.4b [ ]	

[ ] (Check if additional information is provided on Part IV-Supplemental Information.)

EPA

EPA FORM R

PART III. CHEMICAL-SPECIFIC INFORMATION (continued)

(This space for your optional use.)

MeOH

6. TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS

You may report transfers of less than 1,000 pounds by checking ranges under A.1. (Do not use both A.1 and A.2)	A. Total Transfers (pounds/year) A.1 Reporting Ranges 0 / 1-499 / 500-999	A.2 Enter Estimate	B. Basis of Estimate (enter code)	C. Type of Treatment/ Disposal (enter code)
6.1.1 Discharge to POTW (enter location number from Part II, Section 1.) [1]	[ ] [ ] [ ]	N/A	6.1.1b [ ]	
6.2.1 Other off-site location (enter location number from Part II, Section 2.) [2]	[ ] [ ] [ ]	N/A	6.2.1b [ ]	6.2.1c [M]
6.2.2 Other off-site location (enter location number from Part II, Section 2.) [2]	[ ] [ ] [ ]	N/A	6.2.2b [ ]	6.2.2c [M]
6.2.3 Other off-site location (enter location number from Part II, Section 2.) [2]	[ ] [ ] [ ]	N/A	6.2.3b [ ]	6.2.3c [M]

[ ] (Check if additional information is provided on Part IV-Supplemental Information.)

7. WASTE TREATMENT METHODS AND EFFICIENCY

[ ] Not Applicable (NA) - Check if no on-site treatment is applied to any wastestream containing the chemical or chemical category.

A. General Wastestream (enter code)	B. Treatment Method (enter code)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data? Yes / No
7.1a [W]	7.1b [B3 1]	7.1c [2]	7.1d [ ]	7.1e 99 %	7.1f [ ] [X]
7.2a N/A [ ]	7.2b [ ]	7.2c [ ]	7.2d [ ]	7.2e %	7.2f [ ] [ ]
7.3a N/A [ ]	7.3b [ ]	7.3c [ ]	7.3d [ ]	7.3e %	7.3f [ ] [ ]
7.4a N/A [ ]	7.4b [ ]	7.4c [ ]	7.4d [ ]	7.4e %	7.4f [ ] [ ]
7.5a N/A [ ]	7.5b [ ]	7.5c [ ]	7.5d [ ]	7.5e %	7.5f [ ] [ ]
7.6a N/A [ ]	7.6b [ ]	7.6c [ ]	7.6d [ ]	7.6e %	7.6f [ ] [ ]
7.7a N/A [ ]	7.7b [ ]	7.7c [ ]	7.7d [ ]	7.7e %	7.7f [ ] [ ]
7.8a N/A [ ]	7.8b [ ]	7.8c [ ]	7.8d [ ]	7.8e %	7.8f [ ] [ ]
7.9a N/A [ ]	7.9b [ ]	7.9c [ ]	7.9d [ ]	7.9e %	7.9f [ ] [ ]
7.10a N/A [ ]	7.10b [ ]	7.10c [ ]	7.10d [ ]	7.10e %	7.10f [ ] [ ]

[ ] (Check if additional information is provided on Part IV-Supplemental Information.)

8. POLLUTION PREVENTION: OPTIONAL INFORMATION ON WASTE MINIMIZATION

(Indicate actions taken to reduce the amount of the chemical being released from the facility. See the instructions for coded items and an explanation of what information to include.)

A. Type of Modification (enter code)	B. Quantity of the Chemical in Wastes Prior to Treatment or Disposal: Current reporting year (pounds/year)	Prior year (pounds/year)	Or percent change (Check (+) or (-))	C. Index	D. Reason for Action (enter code)
[M]			[ ] + [ ] - %	[ ]	[R] 38

☐ NO ADDITIONAL INFORMATION ON THIS PAGE

1405

(Important: Type or print; read instructions before completing form.)

EPA

EPA FORM R

PART IV. SUPPLEMENTAL INFORMATION

Use this section if you need additional space for answers to questions in Part III. Number the lines used sequentially from lines in prior sections (e.g., 5.3.4, 6.1.2, 7.11)

(This space for your optional use.)

ADDITIONAL INFORMATION ON RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE (Part III, Section 5.3)

You may report releases of less than 1,000 pounds by checking ranges under A.1. (Do not use both A.1 and A.2)			A. Total Release (pounds/year) A.1 Reporting Ranges 0 / 1-499 / 500-999	A.2 Enter Estimate	B. Basis of Estimate (enter code in box provided)	C. % From Stormwater
5.3 Discharges to receiving streams or water bodies	5.3.___ ☐	5.3.___a	[ ] [ ] [ ]		5.3.___b ☐	5.3.___c %
(Enter letter code for stream from Part I Section 3.10 in the box provided.)	5.3.___ ☐	5.3.___a	[ ] [ ] [ ]		5.3.___b ☐	5.3.___c %
	5.3.___ ☐	5.3.___a	[ ] [ ] [ ]		5.3.___b ☐	5.3.___c %

ADDITIONAL INFORMATION ON TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS (Part III, Section 6)

You may report transfers of less than 1,000 pounds by checking ranges under A.1. (Do not use both A.1 and A.2)		A. Total Transfers (pounds/year) A.1 Reporting Ranges 0 / 1-499 / 500-999	A.2 Enter Estimate	B. Basis of Estimate (enter code in box provided)	C. Type of Treatment/ Disposal (enter code in box provided)
6.1.___ Discharge to POTW (enter location number from Part II, Section 1.)	1 ☐	[ ] [ ] [ ]		6.1.___b ☐	
6.2.___ Other off-site location (enter location number from Part II, Section 2.)	2 ☐	[ ] [ ] [ ]		6.2.___b ☐	6.2.___c M ☐
6.2.___ Other off-site location (enter location number from Part II, Section 2.)	2 ☐	[ ] [ ] [ ]		6.2.___b ☐	6.2.___c M ☐
6.2.___ Other off-site location (enter location number from Part II, Section 2.)	2 ☐	[ ] [ ] [ ]		6.2.___b ☐	6.2.___c M ☐

ADDITIONAL INFORMATION ON WASTE TREATMENT METHODS AND EFFICIENCY (Part III, Section 7)

A. General Wastestream (enter code in box provided)	B. Treatment Method (enter code in box provided)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data? Yes / No
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]

Approval Expires 1405 1/91

(Important: Type or print; read instructions before completing form.)

Page 1 of

EPA U.S. Environmental Protection Agency

TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORM

Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986, also known as Title III of the Superfund Amendments and Reauthorization Act

EPA FORM **R**

PART I. FACILITY IDENTIFICATION INFORMATION

(This space for your optional use.)

Public reporting burden for this collection of information is estimated to vary from 30 to 34 hours per response, with an average of 32 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to Chief, Information Policy Branch (PM-223), US EPA, 401 M St., S.W., Washington, D.C. 20460 Attn: TRI Burden and to the Office of Information and Regulatory Affairs, Office of Management and Budget Paperwork Reduction Project (2070-0093), Washington, D.C. 20503.

1. 1.1 Are you claiming the chemical identity on page 3 trade secret? [ ] Yes (Answer question 1.2; Attach substantiation forms.) [XX] No (Do not answer 1.2; Go to question 1.3.)

1.2 If "Yes" in 1.1, is this copy: [ ] Sanitized [ ] Unsanitized

1.3 Reporting Year 19 89

2. CERTIFICATION (Read and sign after completing all sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official: Gerald W. Westerbeck, DOE/FMPC Site Manager

Signature: [signature] Date signed: 6/26/90

3. FACILITY IDENTIFICATION

3.1 Facility or Establishment Name: U. S. Department of Energy, Feed Materials Production Center

Street Address: 7400 Willey Road

City: Fernald County: Hamilton

State: Ohio Zip Code: 45030

TRI Facility Identification Number: 45030 SDPRT 7400W

WHERE TO SEND COMPLETED FORMS:

1. EPCRA REPORTING CENTER
   P.O. BOX 23779
   WASHINGTON, DC 20026-3779
   ATTN: TOXIC CHEMICAL RELEASE INVENTORY
2. APPROPRIATE STATE OFFICE (See instructions in Appendix G)

3.2 This report contains information for (Check only one): a. [XX] An entire facility b. [ ] Part of a facility.

3.3 Technical Contact: Kent Brakken Telephone Number (include area code): (513) 738-6660

3.4 Public Contact: Bobby Jo Davis Telephone Number (include area code): (513) 738-6156

3.5 SIC Code (4 digit): a. 2819 b. c. d. e. f.

3.6 Latitude: Degrees 39, Minutes 18, Seconds — Longitude: Degrees 84, Minutes 41, Seconds

3.7 Dun & Bradstreet Number(s): a. Not Applicable b.

3.8 EPA Identification Number(s) (RCRA I.D. No.): a. OH6890008976 b.

3.9 NPDES Permit Number(s): a. OH 0009580 b.

3.10 Receiving Streams or Water Bodies (enter one name per box): a. Great Miami River b. Paddy's Run Creek c. d. e. f.

3.11 Underground Injection Well Code (UIC) Identification Number(s): a. Not Applicable b.

4. PARENT COMPANY INFORMATION

4.1 Name of Parent Company: U.S. Dept. of Energy Weapons Division of Oak Ridge

4.2 Parent Company's Dun & Bradstreet Number: Not Applicable

EPA Form 9350-1 (1-90) Revised - Do not use previous versions.

Important: Type or print; read instructions before completing form.

1405 Page 2 of 5

EPA

EPA FORM R

PART II. OFF-SITE LOCATIONS TO WHICH TOXIC CHEMICALS ARE TRANSFERRED IN WASTES

(This space for your optional use.)

1. PUBLICLY OWNED TREATMENT WORKS (POTWs)

1.1 POTW name		1.2 POTW name	
Not Applicable			
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip

2. OTHER OFF-SITE LOCATIONS (DO NOT REPORT LOCATIONS TO WHICH WASTES ARE SENT ONLY FOR RECYCLING OR REUSE).

2.1 Off-site location name		2.2 Off-site location name	
Not Applicable			
EPA Identification Number (RCRA ID. No.)		EPA Identification Number (RCRA ID. No.)	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip
Is location under control of reporting facility or parent company? [ ] Yes [ ] No		Is location under control of reporting facility or parent company? [ ] Yes [ ] No	

2.3 Off-site location name		2.4 Off-site location name	
EPA Identification Number (RCRA ID. No.)		EPA Identification Number (RCRA ID. No.)	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip
Is location under control of reporting facility or parent company? [ ] Yes [ ] No		Is location under control of reporting facility or parent company? [ ] Yes [ ] No	

2.5 Off-site location name		2.6 Off-site location name	
EPA Identification Number (RCRA ID. No.)		EPA Identification Number (RCRA ID. No.)	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip
Is location under control of reporting facility or parent company? [ ] Yes [ ] No		Is location under control of reporting facility or parent company? [ ] Yes [ ] No	

[ ] Check if additional pages of Part II are attached. How many? _____

(Important: Type or print; read instructions before completing form.)

1405

(This space for your optional use.)

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EPA FORM R

PART III. CHEMICAL-SPECIFIC INFORMATION

HNO_3

1. CHEMICAL IDENTITY (Do not complete this section if you complete Section 2.)

1.1	[Reserved]
1.2	CAS Number (Enter only one number exactly as it appears on the 313 list. Enter NA if reporting a chemical category.) 7697-37-2
1.3	Chemical or Chemical Category Name (Enter only one name exactly as it appears on the 313 list.) Nitric Acid
1.4	Generic Chemical Name (Complete only if Part I, Section 1.1 is checked "Yes." Generic name must be structurally descriptive.)

2. MIXTURE COMPONENT IDENTITY (Do not complete this section if you complete Section 1.)

Generic Chemical Name Provided by Supplier (Limit the name to a maximum of 70 characters (e.g., numbers, letters, spaces, punctuation).)

3. ACTIVITIES AND USES OF THE CHEMICAL AT THE FACILITY (Check all that apply.)

3.1	Manufacture the chemical:	a. [ ] Produce b. [ ] Import	If produce or import: c. [ ] For on-site use/processing e. [ ] As a byproduct	d. [ ] For sale/distribution f. [ ] As an impurity
3.2	Process the chemical:	a. [X] As a reactant d. [ ] Repackaging only	b. [ ] As a formulation component	c. [ ] As an article component
3.3	Otherwise use the chemical:	a. [ ] As a chemical processing aid	b. [ ] As a manufacturing aid	c. [X] Ancillary or other use

4. MAXIMUM AMOUNT OF THE CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR

[0][5] (enter code)

5. RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE

You may report releases of less than 1,000 pounds by checking ranges under A.1. (Do not use both A.1 and A.2)		A. Total Release (pounds/year) A.1 Reporting Ranges 0 / 1-499 / 500-999	A.2 Enter Estimate	B. Basis of Estimate (enter code)	C. % From Stormwater
5.1 Fugitive or non-point air emissions	5.1a	[ ] [ ] [ ]	1200	5.1b E	
5.2 Stack or point air emissions	5.2a	[ ] [ ] [ ]	N/A	5.2b 0	
5.3 Discharges to receiving streams or water bodies (Enter letter code for stream from Part I Section 3.10 in the box provided.) 5.3.1 [ ]	5.3.1a	[ ] [ ] [ ]	N/A	5.3.1b 0	5.3.1c N/A %
5.3.2 [ ]	5.3.2a	[ ] [ ] [ ]	N/A	5.3.2b [ ]	5.3.2c N/A %
5.3.3 [ ]	5.3.3a	[ ] [ ] [ ]	N/A	5.3.3b [ ]	5.3.3c N/A %
5.4 Underground injection on-site	5.4a	[ ] [ ] [ ]	N/A	5.4b [ ]	
5.5 Releases to land on-site 5.5.1 Landfill	5.5.1a	[ ] [ ] [ ]	N/A	5.5.1b [ ]	
5.5.2 Land treatment/application farming	5.5.2a	[ ] [ ] [ ]	N/A	5.5.2b [ ]	
5.5.3 Surface impoundment	5.5.3a	[ ] [ ] [ ]	N/A	5.5.3b [ ]	
5.5.4 Other disposal	5.5.4a	[ ] [ ] [ ]	N/A	5.5.4b [ ]	

[ ] (Check if additional information is provided on Part IV-Supplemental Information.)

42

(Important: Type or print; read instructions before completing form.)

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EPA FORM R

PART III. CHEMICAL-SPECIFIC INFORMATION (continued)

(This space for your optional use.) HNO_3

6. TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS

You may report transfers of less than 1,000 pounds by checking ranges under A.1. (Do not use both A.1 and A.2)	A. Total Transfers (pounds/year) A.1 Reporting Ranges 0 / 1-499 / 500-999	A.2 Enter Estimate	B. Basis of Estimate (enter code)	C. Type of Treatment/ Disposal (enter code)
6.1.1 Discharge to POTW (enter location number from Part II, Section 1.) [1]	[ ] [ ] [ ]	N/A	6.1.1b [ ]	
6.2.1 Other off-site location (enter location number from Part II, Section 2.) [2]	[ ] [ ] [ ]	N/A	6.2.1b [ ]	6.2.1c [M]
6.2.2 Other off-site location (enter location number from Part II, Section 2.) [2]	[ ] [ ] [ ]	N/A	6.2.2b [ ]	6.2.2c [M]
6.2.3 Other off-site location (enter location number from Part II, Section 2.) [2]	[ ] [ ] [ ]	N/A	6.2.3b [ ]	6.2.3c [M]

[ ] (Check if additional information is provided on Part IV-Supplemental Information.)

7. WASTE TREATMENT METHODS AND EFFICIENCY

[ ] Not Applicable (NA) - Check if no on-site treatment is applied to any wastestream containing the chemical or chemical category.

A. General Wastestream (enter code)	B. Treatment Method (enter code)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data? Yes / No
7.1a [W]	7.1b [C11]	7.1c [1]	7.1d [ ]	7.1e 100 %	7.1f [XX] [ ]
7.2a N/A [ ]	7.2b [ ]	7.2c [ ]	7.2d [ ]	7.2e %	7.2f [ ] [ ]
7.3a N/A [ ]	7.3b [ ]	7.3c [ ]	7.3d [ ]	7.3e %	7.3f [ ] [ ]
7.4a N/A [ ]	7.4b [ ]	7.4c [ ]	7.4d [ ]	7.4e %	7.4f [ ] [ ]
7.5a N/A [ ]	7.5b [ ]	7.5c [ ]	7.5d [ ]	7.5e %	7.5f [ ] [ ]
7.6a N/A [ ]	7.6b [ ]	7.6c [ ]	7.6d [ ]	7.6e %	7.6f [ ] [ ]
7.7a N/A [ ]	7.7b [ ]	7.7c [ ]	7.7d [ ]	7.7e %	7.7f [ ] [ ]
7.8a N/A [ ]	7.8b [ ]	7.8c [ ]	7.8d [ ]	7.8e %	7.8f [ ] [ ]
7.9a N/A [ ]	7.9b [ ]	7.9c [ ]	7.9d [ ]	7.9e %	7.9f [ ] [ ]
7.10a N/A [ ]	7.10b [ ]	7.10c [ ]	7.10d [ ]	7.10e %	7.10f [ ] [ ]

[ ] (Check if additional information is provided on Part IV-Supplemental Information.)

8. POLLUTION PREVENTION: OPTIONAL INFORMATION ON WASTE MINIMIZATION

(Indicate actions taken to reduce the amount of the chemical being released from the facility. See the instructions for coded items and an explanation of what information to include.)

A. Type of Modification (enter code)	B. Quantity of the Chemical in Wastes Prior to Treatment or Disposal: Current reporting year (pounds/year)	Prior year (pounds/year)	Or percent change (Check (+) or (-))	C. Index	D. Reason for Action (enter code)
[M8]	1200	7300	[ ] + [X] - 83.6 %	[0].[1]	[R5]

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☐ NO ADDITIONAL INFORMATION ON THIS PAGE

(Important: Type or print; read instructions before completing form.)

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PART IV. SUPPLEMENTAL INFORMATION

Use this section if you need additional space for answers to questions in Part III. Number the lines used sequentially from lines in prior sections (e.g., 5.3.4, 6.1.2, 7.11)

(This space for your optional use)

ADDITIONAL INFORMATION ON RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE (Part III, Section 5.3)

You may report releases of less than 1,000 pounds by checking ranges under A.1. (Do not use both A.1 and A.2)			A. Total Release (pounds/year) A.1 Reporting Ranges 0 / 1-499 / 500-999	A.2 Enter Estimate	B. Basis of Estimate (enter code in box provided)	C. % From Stormwater
5.3 Discharges to receiving streams or water bodies	5.3.___ ☐	5.3.___a	[ ] [ ] [ ]		5.3.___b ☐	5.3.___c %
(Enter letter code for stream from Part I Section 3.10 in the box provided.)	5.3.___ ☐	5.3.___a	[ ] [ ] [ ]		5.3.___b ☐	5.3.___c %
	5.3.___ ☐	5.3.___a	[ ] [ ] [ ]		5.3.___b ☐	5.3.___c %

ADDITIONAL INFORMATION ON TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS (Part III, Section 6)

You may report transfers of less than 1,000 pounds by checking ranges under A.1. (Do not use both A.1 and A.2)		A. Total Transfers (pounds/year) A.1 Reporting Ranges 0 / 1-499 / 500-999	A.2 Enter Estimate	B. Basis of Estimate (enter code in box provided)	C. Type of Treatment/Disposal (enter code in box provided)
6.1.___ Discharge to POTW (enter location number from Part II, Section 1.)	1 ☐	[ ] [ ] [ ]		6.1.___b ☐	
6.2.___ Other off-site location (enter location number from Part II, Section 2.)	2 ☐	[ ] [ ] [ ]		6.2.___b ☐	6.2.___c M ☐☐
6.2.___ Other off-site location (enter location number from Part II, Section 2.)	2 ☐	[ ] [ ] [ ]		6.2.___b ☐	6.2.___c M ☐☐
6.2.___ Other off-site location (enter location number from Part II, Section 2.)	2 ☐	[ ] [ ] [ ]		6.2.___b ☐	6.2.___c M ☐☐

ADDITIONAL INFORMATION ON WASTE TREATMENT METHODS AND EFFICIENCY (Part III, Section 7)

A. General Wastestream (enter code in box provided)	B. Treatment Method (enter code in box provided)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data? Yes / No
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]

Approval Expires: 6/1/91

1405 Page 1 of 5

(Important: Type or print; read instructions before completing form.)

EPA U.S. Environmental Protection Agency

TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORM

Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986, also known as Title III of the Superfund Amendments and Reauthorization Act

Public reporting burden for this collection of information is estimated to vary from 30 to 34 hours per response, with an average of 32 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch (PM-223), US EPA, 401 M St., S.W., Washington, D.C. 20460 Attn: TRI Burden and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Paperwork Reduction Project (2070-0093), Washington, D.C. 20503.

EPA FORM **R**

PART I. FACILITY IDENTIFICATION INFORMATION

(This space for your optional use.)

1. 1.1 Are you claiming the chemical identity on page 3 trade secret?
[ ] Yes (Answer question 1.2; Attach substantiation forms.) [XX] No (Do not answer 1.2; Go to question 1.3.)

1.2 If "Yes" in 1.1, is this copy: [ ] Sanitized [ ] Unsanitized

1.3 Reporting Year 19 89

2. CERTIFICATION (Read and sign after completing all sections.)
I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official: Gerald W. Westerbeck, DOE/FMPC Site Manager

Signature: G W Westerbeck Date signed: 6/26/90

3. FACILITY IDENTIFICATION

3.1 Facility or Establishment Name: U. S. Department of Energy, Feed Materials Production Center
Street Address: 7400 Willey Road
City: Fernald County: Hamilton
State: Ohio Zip Code: 45030
TRI Facility Identification Number: 45030 SDPRT 7400W

WHERE TO SEND COMPLETED FORMS:
1. EPCRA REPORTING CENTER
P.O. BOX 23779
WASHINGTON, DC 20026-3779
ATTN: TOXIC CHEMICAL RELEASE INVENTORY
2. APPROPRIATE STATE OFFICE (See instructions in Appendix G)

3.2 This report contains information for (Check only one): a. [XX] An entire facility b. [ ] Part of a facility.

3.3 Technical Contact: Kent Brakken — Telephone Number (include area code): (513) 738-6660

3.4 Public Contact: Bobby Jo Davis — Telephone Number (include area code): (513) 738-6156

3.5 SIC Code (4 digit): a. 2819 b. c. d. e. f.

3.6 Latitude: Degrees 39, Minutes 18, Seconds — Longitude: Degrees 84, Minutes 41, Seconds

3.7 Dun & Bradstreet Number(s): a. Not Applicable b.

3.8 EPA Identification Number(s) (RCRA I.D. No.): a. OH6890008976 b.

3.9 NPDES Permit Number(s): a. OH 0009580 b.

3.10 Receiving Streams or Water Bodies (enter one name per box): a. Great Miami River b. Paddy's Run Creek c. d. e. f.

3.11 Underground Injection Well Code (UIC) Identification Number(s): a. Not Applicable b.

4. PARENT COMPANY INFORMATION

4.1 Name of Parent Company: U.S. Dept. of Energy Weapons Division of Oak Ridge

4.2 Parent Company's Dun & Bradstreet Number: Not Applicable

EPA Form 9350-1 (1-90) Revised - Do not use previous versions.

(Important: Type or print; read instructions before completing form.)

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EPA FORM R
PART II. OFF-SITE LOCATIONS TO WHICH TOXIC CHEMICALS ARE TRANSFERRED IN WASTES

(This space for your optional use.)

1. PUBLICLY OWNED TREATMENT WORKS (POTWs)

1.1 POTW name		1.2 POTW name	
Not Applicable			
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip

2. OTHER OFF-SITE LOCATIONS (DO NOT REPORT LOCATIONS TO WHICH WASTES ARE SENT ONLY FOR RECYCLING OR REUSE).

2.1 Off-site location name		2.2 Off-site location name	
Not Applicable			
EPA Identification Number (RCRA ID. No.)		EPA Identification Number (RCRA ID. No.)	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip
Is location under control of reporting facility or parent company? [ ] Yes [ ] No		Is location under control of reporting facility or parent company? [ ] Yes [ ] No	

2.3 Off-site location name		2.4 Off-site location name	
EPA Identification Number (RCRA ID. No.)		EPA Identification Number (RCRA ID. No.)	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip
Is location under control of reporting facility or parent company? [ ] Yes [ ] No		Is location under control of reporting facility or parent company? [ ] Yes [ ] No	

2.5 Off-site location name		2.6 Off-site location name	
EPA Identification Number (RCRA ID. No.)		EPA Identification Number (RCRA ID. No.)	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip
Is location under control of reporting facility or parent company? [ ] Yes [ ] No		Is location under control of reporting facility or parent company? [ ] Yes [ ] No	

[ ] Check if additional pages of Part II are attached. How many? _____

(Important: Type or print; read instructions before completing form.)

EPA

EPA FORM R

PART III. CHEMICAL-SPECIFIC INFORMATION

(This space for your optional use.)

H_2SO_4

1. CHEMICAL IDENTITY (Do not complete this section if you complete Section 2.)

1.1	(Reserved)
1.2	CAS Number (Enter only one number exactly as it appears on the 313 list. Enter NA if reporting a chemical category.) 7664-93-9
1.3	Chemical or Chemical Category Name (Enter only one name exactly as it appears on the 313 list.) Sulfuric Acid
1.4	Generic Chemical Name (Complete only if Part I, Section 1.1 is checked "Yes." Generic name must be structurally descriptive.)

2. MIXTURE COMPONENT IDENTITY (Do not complete this section if you complete Section 1.)

Generic Chemical Name Provided by Supplier (Limit the name to a maximum of 70 characters (e.g., numbers, letters, spaces, punctuation).)

3. ACTIVITIES AND USES OF THE CHEMICAL AT THE FACILITY (Check all that apply.)

3.1	Manufacture the chemical:	a. [ ] Produce b. [ ] Import	If produce or import: c. [ ] For on-site use/processing e. [ ] As a byproduct	d. [ ] For sale/distribution f. [ ] As an impurity
3.2	Process the chemical:	a. [ ] As a reactant d. [ ] Repackaging only	b. [ ] As a formulation component	c. [ ] As an article component
3.3	Otherwise use the chemical:	a. [ ] As a chemical processing aid	b. [ ] As a manufacturing aid	c. [XX] Ancillary or other use

4. MAXIMUM AMOUNT OF THE CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR

[0 5] (enter code)

5. RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE

You may report releases of less than 1,000 pounds by checking ranges under A.1. (Do not use both A.1 and A.2)			A. Total Release (pounds/year) A.1 Reporting Ranges 0 / 1-499 / 500-999	A.2 Enter Estimate	B. Basis of Estimate (enter code)	C. % From Stormwater
5.1 Fugitive or non-point air emissions		5.1a	[ ] [ ] [ ]	-0-	5.1b [0]	
5.2 Stack or point air emissions		5.2a	[ ] [ ] [ ]	-0-	5.2b [0]	
5.3 Discharges to receiving streams or water bodies	5.3.1 [ ]	5.3.1a	[ ] [ ] [ ]	N/A	5.3.1b [0]	5.3.1c N/A %
(Enter letter code for stream from Part I Section 3.10 in the box provided.)	5.3.2 [ ]	5.3.2a	[ ] [ ] [ ]	N/A	5.3.2b [ ]	5.3.2c N/A%
	5.3.3 [ ]	5.3.3a	[ ] [ ] [ ]	N/A	5.3.3b [ ]	5.3.3c N/A%
5.4 Underground injection on-site		5.4a	[ ] [ ] [ ]	N/A	5.4b [ ]	
5.5 Releases to land on-site						
5.5.1 Landfill		5.5.1a	[ ] [ ] [ ]	N/A	5.5.1b [ ]	
5.5.2 Land treatment/application farming		5.5.2a	[ ] [ ] [ ]	N/A	5.5.2b [ ]	
5.5.3 Surface impoundment		5.5.3a	[ ] [ ] [ ]	N/A	5.5.3b [ ]	
5.5.4 Other disposal		5.5.4a	[ ] [ ] [ ]	N/A	5.5.4b [ ]	

[ ] (Check if additional information is provided on Part IV-Supplemental Information.)

(Important: Type or print; read instructions before completing form.)

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EPA FORM R

PART III. CHEMICAL-SPECIFIC INFORMATION (continued)

(This space for your optional use.)

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6. TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS

You may report transfers of less than 1,000 pounds by checking ranges under A.1. (Do not use both A.1 and A.2)	A. Total Transfers (pounds/year) A.1 Reporting Ranges 0 / 1-499 / 500-999	A.2 Enter Estimate	B. Basis of Estimate (enter code)	C. Type of Treatment/ Disposal (enter code)
6.1.1 Discharge to POTW (enter location number from Part II, Section 1.) [1]	[ ] [ ] [ ]	N/A	6.1.1b [ ]	
6.2.1 Other off-site location (enter location number from Part II, Section 2.) [2]	[ ] [ ] [ ]	N/A	6.2.1b [ ]	6.2.1c [M]
6.2.2 Other off-site location (enter location number from Part II, Section 2.) [2]	[ ] [ ] [ ]	N/A	6.2.2b [ ]	6.2.2c [M]
6.2.3 Other off-site location (enter location number from Part II, Section 2.) [2]	[ ] [ ] [ ]	N/A	6.2.3b [ ]	6.2.3c [M]

[ ] (Check if additional information is provided on Part IV-Supplemental Information.)

7. WASTE TREATMENT METHODS AND EFFICIENCY

[ ] Not Applicable (NA) - Check if no on-site treatment is applied to any wastestream containing the chemical or chemical category.

A. General Wastestream (enter code)	B. Treatment Method (enter code)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data? Yes / No
7.1a [W]	7.1b [C 1 1]	7.1c [1]	7.1d [ ]	7.1e 100 %	7.1f [XX] [ ]
7.2a N/A [ ]	7.2b [ ]	7.2c [ ]	7.2d [ ]	7.2e %	7.2f [ ] [ ]
7.3a N/A [ ]	7.3b [ ]	7.3c [ ]	7.3d [ ]	7.3e %	7.3f [ ] [ ]
7.4a N/A [ ]	7.4b [ ]	7.4c [ ]	7.4d [ ]	7.4e %	7.4f [ ] [ ]
7.5a N/A [ ]	7.5b [ ]	7.5c [ ]	7.5d [ ]	7.5e %	7.5f [ ] [ ]
7.6a N/A [ ]	7.6b [ ]	7.6c [ ]	7.6d [ ]	7.6e %	7.6f [ ] [ ]
7.7a N/A [ ]	7.7b [ ]	7.7c [ ]	7.7d [ ]	7.7e %	7.7f [ ] [ ]
7.8a N/A [ ]	7.8b [ ]	7.8c [ ]	7.8d [ ]	7.8e %	7.8f [ ] [ ]
7.9a N/A [ ]	7.9b [ ]	7.9c [ ]	7.9d [ ]	7.9e %	7.9f [ ] [ ]
7.10a N/A [ ]	7.10b [ ]	7.10c [ ]	7.10d [ ]	7.10e %	7.10f [ ] [ ]

[ ] (Check if additional information is provided on Part IV-Supplemental Information.)

8. POLLUTION PREVENTION: OPTIONAL INFORMATION ON WASTE MINIMIZATION

(Indicate actions taken to reduce the amount of the chemical being released from the facility. See the instructions for coded items and an explanation of what information to include.)

A. Type of Modification (enter code)	B. Quantity of the Chemical in Wastes Prior to Treatment or Disposal: Current reporting year (pounds/year)	Prior year (pounds/year)	Or percent change (Check (+) or (-))	C. Index	D. Reason for Action (enter code)
[M 8]	-0-	-0-	[ ] + [ ] - 0 %	[0 . 4]	[R 5]

48

[ ] NO ADDITIONAL INFORMATION ON THIS PAGE

(Important: Type or print; read instructions before completing form.)

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PART IV. SUPPLEMENTAL INFORMATION

Use this section if you need additional space for answers to questions in Part III. Number the lines used sequentially from lines in prior sections (e.g., 5.3.4, 6.1.2, 7.11)

(This space for your optional use)

ADDITIONAL INFORMATION ON RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE (Part III, Section 5.3)

You may report releases of less than 1,000 pounds by checking ranges under A.1. (Do not use both A.1 and A.2)			A. Total Release (pounds/year) A.1 Reporting Ranges 0 / 1-499 / 500-999	A.2 Enter Estimate	B. Basis of Estimate (enter code in box provided)	C. % From Stormwater
5.3 Discharges to receiving streams or water bodies	5.3.___	5.3.___a	[ ] [ ] [ ]		5.3.___b	5.3.___c %
(Enter letter code for stream from Part I Section 3.10 in the box provided.)	5.3.___	5.3.___a	[ ] [ ] [ ]		5.3.___b	5.3.___c %
	5.3.___	5.3.___a	[ ] [ ] [ ]		5.3.___b	5.3.___c %

ADDITIONAL INFORMATION ON TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS (Part III, Section 6)

You may report transfers of less than 1,000 pounds by checking ranges under A.1. (Do not use both A.1 and A.2)		A. Total Transfers (pounds/year) A.1 Reporting Ranges 0 / 1-499 / 500-999	A.2 Enter Estimate	B. Basis of Estimate (enter code in box provided)	C. Type of Treatment/Disposal (enter code in box provided)
6.1.___ Discharge to POTW (enter location number from Part II, Section 1.)	1	[ ] [ ] [ ]		6.1.___b	
6.2.___ Other off-site location (enter location number from Part II, Section 2.)	2	[ ] [ ] [ ]		6.2.___b	6.2.___c M
6.2.___ Other off-site location (enter location number from Part II, Section 2.)	2	[ ] [ ] [ ]		6.2.___b	6.2.___c M
6.2.___ Other off-site location (enter location number from Part II, Section 2.)	2	[ ] [ ] [ ]		6.2.___b	6.2.___c M

ADDITIONAL INFORMATION ON WASTE TREATMENT METHODS AND EFFICIENCY (Part III, Section 7)

A. General Wastestream (enter code in box provided)	B. Treatment Method (enter code in box provided)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data? Yes / No
7.___a	7.___b	7.___c	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a	7.___b	7.___c	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a	7.___b	7.___c	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a	7.___b	7.___c	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a	7.___b	7.___c	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a	7.___b	7.___c	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a	7.___b	7.___c	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a	7.___b	7.___c	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a	7.___b	7.___c	7.___d [ ]	7.___e %	7.___f [ ] [ ]

TABLE OF APPENDICES

APPENDIX		Page
A-1	1989 Annual Survey of Manufactures, Form MA-1000	52
B-1	FMPC SARA 313 Chemical Inventory	54
B-2	FMPC SARA 313 Chemical Usage	56
B-3	Departmental Charge Account Numbers	58
B-4	SARA 313 Reporting Threshold Worksheets	67
B-5	FMPC SARA 313 Monthly Inventory	72
C-1	FMPC SARA 313 Monthly Fuel Inventory	75
D-1	Nevada Test Site Shipments	77
D-2	Rollins Environmental Services Shipment	78
D-3	HVC Daly Inc. Shipments	80

APPENDIX A

FORM MA-1000

1989 ANNUAL SURVEY OF MANUFACTURES

APPENDIX A-1

DUE DATE: 30 DAYS AFTER RECEIPT
U.S. DEPARTMENT OF COMMERCE
Bureau of the Census

FORM MA-1000(L)

1989 ANNUAL SURVEY OF MANUFACTURES

1405

OMB No. 0607-0449 Approval Expires 01/31/9

NOTICE – Response to this inquiry is required by law (title 13, U.S. Code). By section 9 of the same law, your report to the Census Bureau is confidential. It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.

PLEASE RETURN TO: Bureau of the Census, 1201 East Tenth Street, Jeffersonville, IN 47132

2813
063334 7
261900
39061
0865 3
00100 8
920 028

In correspondence pertaining to this report refer to this Census File Number (11 digits)

Employer Identification Number

CIN E96556 0617 7 L EI 31-1115286 8

WESTINGHOUSE MATERIALS CO OF OHIO
P O BOX 398704
CINCINNATI OH 45239

NRC

(Please correct any error in name, address, and ZIP Code)

NOTE — For detailed instructions refer to manual MA-1000-R 5
Complete only the unshaded portion of each item. Enter "0" when appropriate. Figures for dollars, plant hours, t.w.h. should be rounded to thousands.

ITEM 1A Employer Identification Number
Is the Employer Identification (EI) Number printed in the upper right of the address box the SAME as that used for this establishment on its latest 1989 Employer's Quarterly Federal Tax Return, Treasury Form 941?
094 1 ☐ YES
2 ☒ NO – Enter current EI Number (9 digits) — 3 1 – 1 1 5 2 8 6 9

ITEM 1B Physical location — Complete a and b
a. Is this establishment located in the State, county, and place shown at the right?
090 1 ☐ YES – SKIP to part b
2 ☒ NO – Correct or complete lines (1) through (4)
(1) Number and street: 7400 Willey Road
(2) City, village, or other place: Fernald
State: OH
ZIP code: 45030
(3) County: Hamilton & Butler
(4) If you corrected lines 1, 2, 3, give year moved to new location 19 —
b. Is this establishment physically located within the legal boundaries of the city, village, or other place?
095 1 ☒ YES
2 ☐ NO

ITEM 2 Number of employees

		Key	1989 Number	1988 Number
Number of production workers during pay period including the 12th of month	a. March	301	427	734
	b. May	302	426	663
	c. August	303	404	658
	d. November	304	401	646
e. Sum of lines a through d		305	1658	2701
f. Average number (Divide line e by 4)		306	415	675
g. All other employees (pay period of March 12)		307	813	851
h. TOTAL f and g (Item 2)		308	1228	1526

ITEM 3A Annual payroll

	Key	1989 Mil.	1989 Thou.	1988 Mil.	1988 Thou.
a. Production worker's wages	309	12	593	18	090
b. All other salaries and wages	310	28	245	30	413
c. TOTAL (Item 3A)	311	40	838	48	503

ITEM 3B Employer's cost for fringe benefits (supplemental labor costs)
(Exclude from Items 3A and 3C)

	Key	1989 Mil.	1989 Thou.	1988 Mil.	1988 Thou.
a. Legally required including Social Security	312	3	630	4	340
b. Payments for voluntary programs	313	10	594	9	189
c. TOTAL (Item 3B)	314	14	224	13	529

ITEM 3C First quarter payroll

	Key	1989 Mil.	1989 Thou.	1988 Mil.	1988 Thou.
Total payroll for the first quarter (Jan. – March)	316	11	721	13	670

ITEM 4 Total plant hours worked by production workers

	Key	1989 Mil.	1989 Thou.	1988 Mil.	1988 Thou.
	320		719	1	032

ITEM 5 Cost of materials and services used

	Key	Mark (X) if "0"	Key	1989 Mil.	1989 Thou.	1988 Mil.	1988 Thou.
a. Cost of materials, parts, components, containers, etc., used	221		321				
b. Cost of products bought and sold as such	222	☒ 0	322				
c. Cost of fuels consumed for heat or power	223	☐ 0	323	1	111	1	020
d. Cost of purchased electricity (See item 9)	224	☐ 0	324	1	308	1	634
e. Cost of contract work done for you by others	225	☐ 0	325		733	63	191
f. TOTAL (Item 5)			326	4	447	61	845

ITEM 6 Inventories of this establishment at end of year (Report both years)
230 Are inventories of this establishment subject to the LIFO method of valuation?
1 ☐ YES – Use the sum of the LIFO amount plus the LIFO reserve for completing a through e(2). Note – The sum of lines e(1), f(1), and f(2) should equal line d.
2 ☐ NO – Complete only lines a through e(1). Note – Line e(1) should equal line d.
Did you change to LIFO for calendar year 1989? 232 1 ☐ Yes 2 ☐ No

Report inventories at cost or market using generally accepted accounting methods.
Note – Sum of lines a through c equals d

	Key	END OF 1989 Mil.	END OF 1989 Thou.	Key	END OF 1988 Mil.	END OF 1988 Thou.
a. Finished goods	336			331		
b. Work-in-process	336			332		
c. Materials, supplies, fuels, etc.	337			333		
d. TOTAL INVENTORIES	338			334		
Report the following breakdown of line (d):						
e. (1) Amount not subject to LIFO costing	368			364		
(2) Amount subject to LIFO costing (gross)	369			365		
Report the following applicable to line e(2):						
f. (1) Amount of the LIFO reserve	370			366		
(2) LIFO value of line e(2) (NET)	371			367		

ITEM 7 Capital expenditures

(a)			1989 Total (b) Key	Mil.	Thou.	Buildings and other structures (exc. land) (c) Key	Mil.	Thou.	Machinery and equipment (d) Key	Mil.	Thou.	1988 Total (e) Mil.	Thou.
a. Capital expenditures for new buildings and machinery – Mark (X) if "0"	344	☐ 0	344			342			343			
b. Capital expenditures for used buildings and machinery – Mark (X) if "0"	347	☐ 0	347			345			346			

ITEM 8A Value of products shipped and other receipts during 1989 – If additional lines are needed, please use remarks section on reverse.
Products and services of this establishment
(If printed descriptions are incorrect, please revise. Describe all additional products.)
An asterisk (*) at the end of a description denotes a comparability with products collected on a Current Industrial Reports questionnaire. See Instruction Manual (Section IV) for detailed item code references.

(a)	Product class code (b)	Products shipped and other receipts 1989 (c) Mil.	Thou.	1988 (d) Mil.	Thou.
	581 10				
	26				
	34				
	42				
	58				
	67				
Enter the sum of additional products if any are reported in the remarks section on reverse.	75				
Receipts for work or services that you performed for others on their materials – Describe	93000 8				
Resales – Sales of products bought and resold without further manufacture, processing, or assembly (Report cost in item 5b)	99989 8				
Miscellaneous receipts (repair work, installation, sales of scrap, etc.)	99980 8				
TOTAL (Total value of products shipped and other receipts of this establishment)	77000 8				

52

CENSUS USE

52

CONTINUE ON REVERSE

APPENDIX B

FMPC SARA 313

THRESHOLD DETERMINATIONS 1989

APPENDIX B-1

	UNIT OF ISSUE	DESCRIPTION	BALANCE 12/31/88	RECEIVED QTY 1989	BALANCE 12/31/89
	BAG	POLY FLOC, BETZ 1110, 50# BAG	33	1	0
	BOTTLE	ACID, NITRIC, ANALYTICAL REAGENT GRADE SA 70.0-71%, A.C.S.	524	450	18
	CASE	ACID, HYDROCHLORIC, ARSENIC FREE, 1.18 OR 1.19 SP GR	16	12	3
	CYLINDER	GAS, CHLORINE, 150# CYLINDER	5	8	6
	CASE	ACID, SULFURIC, ANALYTICAL REAGENT GRADE	4	0	3
	CYLINDER	GAS, ACETYLENE	24	34	8
	CYLINDER	GAS, FREON, TYPE 22, IN 15# CYLINDER	21	52	16
	CASE	AMMONIUM HYDROXIDE, NH4OH APPROX 38% AMMONIA WATER, 26DEGREES	8	0	7
	DRUM	OIL, QUENCHING, 55 GAL DRUM, K-9 OIL WITH QCENZINE	10	0	10
	DRUM	COMPOUND, CLEANING, DUBOIS, DYNA SPREX, 500# DRUM	11	0	11
	LB.	ACID, HYDROFLUORIC, 48% REAGENT ACS #1100, 1# BOTTLE	24	24	12
	CYLINDER	ANHYDROUS AMMONIA, 100# CYLINDER	1	0	1
	CAN	ALCOHOL, METHYL, ABSOLUTE, LOW IN ACETONE	109	0	60
5	CASE	ACID, GLACIAL ACETIC, 99.5% SP GR, 1.05 ACS, 5# BOTTLE	2	12	12
7	BOTTLE	ACID, PERCHLORIC, ANALYTICAL REAGENT GRADE 70-72% ACS, 8# BOTTLE	44	54	62
4	CAN	ACETATE, ETHYL, NF GRADE, 5 GAL CANS	10	0	8
5	DRUM	RID-LIME, 30 GAL DRUM	3	0	2
6	CAN	CEMENT, ELECTRODE, JOINT #W-7130, 2# CAN	36	0	29
0	BOTTLE	PHENANTHROLINE MONOHYDRATE, ORTHO, 1 GRAM BOTTLE	24	0	24
7A	CYLINDER	ACETYLENE, TANK, TYPE B, PRESTOLITE	2	1	1
0	GALLON	ALCOHOL, 190 PROOF DENATURED ETHYL, 1 GAL CONTAINER	18	0	9
0	EACH	AMMONIUM OXALATE, ANALYTICAL REAGENT, ACS, CRYSTAL, 1 KG BOTTLE	20	0	12
0	BOTTLE	CHLOROFORM, ANALYTICAL REAGENT ACS, SP GR 1.476	24	0	16
3	BOTTLE	CALCIUM SULFATE DRIERITE, INDICATING, 8 MESH, 5# BOTTLE	13	0	11
5	deleted	ANHYDROUS ETHER, K.G., 5# BOTTLE			
4	PINT	HYDROGEN PEROXIDE, 30%, PINT BOTTLE	112	0	90
30	BOTTLE	POTASSIUM PRYOSULFATE POWDER, 1# BOTTLE	6	0	6
0	LB.	POTASSIUM HYDROXIDE, REAGENT ACS #2118, 1#	10	0	10
17	BOTTLE	ACETONE, ANALYTICAL REAGENT ACS, CH3, BOILING POINT 55.5-57.5 DEG.	285	360	210
20	BOTTLE	ACID, OXALIC, CRYSTAL, REAGENT ACS GRADE, 5# BOTTLE (PHY. INV. ADJ.)	6	0	10
21	DRUM	CLEANER, ALL PURPOSE, SPARTAN DC-13, 55 GAL DRUM	18	0	4
31	CYLINDER	GAS, FREON, TYPE 12, 15# CYLINDER	30	40	17
36	EACH	HYPREZ-FLUID, F/OS DIAMOND COMPOUND, 4 OZ. BOTTLE	12	25	15
.42	EACH	AMMONIUM CITRATE, A-663, #1290, 1# BOTTLE	20	0	20
:58	deleted	SODIUM OXALATE, R G NEUT POWDER ANALYTICAL REAGENT B&A 2269			
:62	CASE	ACID, PHOSPHORIC ORTHO 85% ANALYTICAL REAGENT, 4 LITER BOTTLE	24	5	25
:66	EACH	COMPOUND, DIAMOND POLISHING, 18 GRAM CARTRIDGE	6	4	2
:67B	PACKAGE	PAPER, PHYDRION, TEST, RANGE B1-11, SIZE 1/4	160	0	160
502	LB.	ZIRCONIUM OXIDE, ZRO 2, 325 MESH, PRODUCT NUMBER 51442, 100# BAG	8300	0	8300
504	LB.	CAUSTIC SODA, TECH GRADE, FLAKE, 400# DRUM	5600	4000	4400
505	DRUM	SODIUM SULFITE, CATALIZED, CORREGON INDUSTRIAL, 500# DRUM	2	5	0
507	LB.	IRON POWDER, PRODUCT NUMBER A-220, IRON MIN. 99%, BORON MAX. 40	400	0	400
508	DRUM	FERROSPERSE, #1040300, APPROX. 460# PER DRUM	12	7	4
.510	CYLINDER	GAS, NITROGEN, BONE DRY, APPROX 60F DEW POINT, 225 CF CYLINDER	9	135	20
511	DRUM	PERMACOL, FILMING AMINE, 400# PER DRUM	4	0	0
514	BAG	SALT, ROCK, WATER TREATMENT GRADE #1, 99% MIN NACl, 80# BAG	420	0	420
515	BAG	SALT, ROCK, FOR ROADS, GRADE CC NOT LESS THAN NACl, 80# BAG	61	50	65

APPENDIX B-1

FMPC SARA 313 CHEMICAL INVENTORY-1989

STOCK NUMBER	UNIT OF ISSUE	DESCRIPTION	BALANCE 12/31/88	RECEIVED QTY 1989	BALANCE 12/31/89
C00516	LB.	SILICON POWDER, METAL, 1 PERCENT FE, SIZE EM X DOWN	1500	0	1500
C00517	LB.	DISODIUM PHOSPHATE, NA2 H PO4 SODIUM PHOSPHATE, DIBASIC	1600	0	100
C00521	LB.	ALUMINUM, METAL, GRANULAR INGOTS, 3/8" SIZE	2457	0	2457
C00528	deleted	CLEANER, COIL, PORTO-BLAST, P/N 60668, 6 GAL/CASE	45	0	
C00529	LB.	SODIUM CARBOXYMETHYL CELLULOSE, CMC, POWDER TYPE 7MF	200	0	200
C00531	deleted	SODIUM HYPOCHLORITE, 55 GAL DRUM			
C00533	DRUM	DETERGENT CALCLEAN LIQUID, 55 GAL DRUM	1	0	1
C00534	QUART	CEMENT, SAUEREISEN, ELECTRIC RESISTOR #78	69	0	69
C00535	DRUM	SURFACTANT, DETER MICROBOND, #4027	222	0	4
C00536	CAN	ACETONE, "TEN CAN", 10 LITERS	484	0	264
C00541	DRUM	COMPOUND, VISOLITE FILTER BAG, TRACER, P/N 03500482, ORANGE	2	0	2
C00542	CAN	COMPOUND, VISOLITE FILTER BAG, TRACER, P/N 03500483, YELLOW	4	1	1
C00544	CYLINDER	GAS, FREON, R22, 125# CYLINDER	5	0	5
C00546	DRUM	NEUTRAMEEN, BETZ, NA-9, 55 GAL DRUM, 440# PER DRUM	3	8	1
C00547	EACH	WATER CONDITIONER, METCO 7ME811	1	0	1
C00548	QUART	DIGESTER, THERMATIC LIQUID ORGANIC	5	0	3
C00549	CYLINDER	GAS, TEST, CYLINDER, HCL, 3Q CYLINDER, 5 - 9.9 PPM HCL	2	1	1
C00551	GALLON	COATING, YTTRIUM OXIDE, ZYP TYPE "Y" COATING, 1 GAL. CAN	18	7	13
C00552	CASE	TRISODIUM PHOSPHATE, 4 - 5# PER BOX	3	0	1
C00555	CYLINDER	FREON 502, 125# CYLINDER	1	0	1
C00556	CYLINDER	FREON 13, 80# CYLINDER	8	0	7
C00558	CYLINDER	GAS, R-502 REFRIGERATION, 15# CYLINDER	6	0	6
CB00201	LB.	ACID, HYDROCHLORIC, 20 DEG, APPROX 9.66# PER GAL	0	14490	0
CB00204	LB.	ACID, ANHYDROUS HYDROFLUORIC (AHF)	0	0	0
CB00204P	LB.	ACID, ANHYDROUS HYDROFLUORIC (AHF) GENERATED BY PILOT PLANT	0	0	0
CB00207	LB.	ACID, NITRIC HNO3, 58-68% STRENGTH	0	97780	0
CB00221	LB.	ALUMINUM SULFATE, A12 S04 3 18 H20	12000	20000	6000
CB00222	LB.	AMMONIA, ANHYDROUS NH3	192780	0	0
CB00231	DRUM	WATER TREATMENT, COOLING, BETZ 2040	1	5	0
CB00232	DRUM	WATER TREATMENT, COOLING, BETZ 2020	1	3	1
CB00234	LB.	FILTER AID, DICALITE, SPEED PLUS DIATOMACEOUS	105100	0	0
CB00234A	deleted	FILTER AID, SIL-FLO	2500	0	
CB00238	LB.	KEROSENE, DILUENT AMSCO KERO 140 SOLVENT 66/3	0	0	0
CB00270	LB.	SULFURIC ACID	57105	85074	32099
CB00293	GALLON	METHANOL	21243	13771	18187

APPENDIX B-2

FMPC SARA 313 - CHEMICAL USAGE 1989

STOCK NUMBER	CAS NO.	CA NAME	ACCOUNT NUMBER	AMT. USED 1988 LBS.	AMT. USED 1989 LBS.
C00002	7697-37-2	NITRIC ACID	ZBU00-398		441
		7# BOTTLES	94200-398	420	5537
			YLA01-399		42
			ZBV00-398	1036	672
			YMR00-398	5976	
C00003	7647-01-0	HYDROCHLORIC	YLA01-399	72	72
		ACID	94200-398	108	720
		6 BTL/CASE	YMF00-399	72	108
		6# BOTTLES	YMR00-398	5184	
			ZBV00-398	432	
			YHA00-310	36	
C00007	7664-93-9	SULFURIC ACID	YLA01-399	54	108
		6 BTL/CASE	ZBU00-398		54
		9# BOTTLES	ZBV00-398	108	54
			YMR00-398	324	(162)
C00026	7664-39-3	HYDROFLUORIC	94200-398		12
		ACID	ZBU00-398		12
		1# BOTTLES	ZBV00-398	24	12
			YMR00-398	60	
C00032	7664-41-7	ANHYDROUS	93100-399	300	0
		AMMONIA			
		100# CYL.			
C00034	67-56-1	METHANOL	YLA01-399	18	42
		6# CAN	94200-398		162
			ZBM00-399		6
			QBD00-399		24
			YMR00-398	540	
C00217	67-64-1	ACETONE	94200-398	240	870
		2# BOTTLES	YMR00-398	2974	
C00536	67-64-1	ACETONE	94200-398		4400
		20# CAN	YMR00-398	3640	

APPENDIX B-2

FMPC SARA 313 - CHEMICAL USAGE 1989

STOCK NUMBER	CAS NO.	CA NAME	ACCOUNT NUMBER	AMT. USED 1988 LBS.	AMT. USED 1989 LBS.
CB00201	7647-01-0	HYDROCHLORIC ACID	YMF00-399	16280	14490
CB00204	7664-39-3	ANH. HYDROFLUORIC ACID	YDA03-220	62615	0
CB00204P	7664-39-3	ANH. HYDROFLUORIC ACID (GENERATED BY PP)	YDA03-220	129630	0
CB00207		NITRIC ACID	YCA01-210	831637	3152
			YJA00-210	184241	66782
			YJB05-210	129905	94977
			MAD00-210		11345
			MAC00-210		9869
CS00222		ANH. AMMONIA	YFA05-210	93546	0
			YDA03-210	82527	
CB00228		SODIUM HYDROXIDE	YEA02-210	234456	132924
CB-270		SULFURIC ACID	YLA01-399	33305	22827
			YLA04-399	265122	86356
			YCA02-210	1966	3661
CB-293		METHANOL	YLA04-399	393294	109131
L00031		TRICHLOROETHANE 55 GAL. DRUMS	YLA02-399	330 GAL	55 GAL
			2BM00-315	165 GAL	220 GAL
			YKA12-399		275 GAL
			SGD00-399		110 GAL
			YKA00-399	385 GAL	
			YJA00-310	55 GAL	
			YJA02-310	55 GAL	
			YJA11-325	110 GAL	
			YHA01-399	110 GAL	
			YKA02-310	220 GAL	
			YJA04-310	55 GAL	
			YKA00-310	55 GAL	
			YHA01-310	55 GAL	

PROGRAM
CBECP11 THU, APR 12 1990, 11:16 AM

OPEN CHARGE MASTER LIST

CHG #	OPN DATE	CLS DATE	B/R CODE	BR SHEET P/A NUMBER	C/E	DESCRIPTION	MANAGER	BL CODE	CL CODE	OH
90100	11/01/89		DIST--ALL		E	FACILITIES DEVELOPMENT	R.J. MIESTAND		9101	7
90200	11/01/89		DIST--ALL		E	PROCESS ENGINEERING	T.R. CLARK		9101	7
91100	10/01/87		DIST--ALL		E	ENVIRONMENTAL PROJECTS EN	J.E. KING		9101	7
91300	10/01/87		DIST--ALL		E	GENERAL PLANT & CAPITAL E	L.A. GRIFFIN		9101	7
91500	10/01/87		DIST--ALL		E	CONSTRUCTION COORDINATION	G.T. HOWARD		9101	7
91600	10/01/88		DIST--ALL		E	PRP, PRI & 4A PROJECTS	K.A. SOLOMON		9101	7
91700	10/01/88		DIST--ALL		E	CONSTRUCTION MANAGEMENT	P.C. WEDDLE		9101	7
91800	10/01/88		DIST--ALL		E	PROGRAM INTEGRATION	R.A. JOHNSON		9101	7
92100	10/01/87		DIST--ALL		E	RESTORATION ENGINEERING	W.J. NEYER		9101	7
92200	10/01/87		DIST--ALL		E	WASTE TECHNOLOGY	W.M. BENSON		9101	7
92300	10/01/89		DIST--ALL		E	SOLID WASTE ENGINEERING	S.W. HEISLER		9101	7
92400	10/01/87		DIST--ALL		E	ENVIRONMENTAL ENGINEERING	L. ELIKAN		9101	7
92500	10/01/88		DIST--ALL		E	DEVELOPMENT	T.R. KATO		9101	7
92600	10/01/88		DIST--ALL		E	PRODUCTION TECHNOLOGY	B.L. SPEICHER		9101	7
92800	10/01/89		DIST--ALL		E	WASTE OPERATIONS	J.T. GRUMSKI		9101	7
92900	10/01/89		DIST--ALL		E	LIQUID WASTE ENGINEERING	D.J. BRETTSCHNEIDER		9101	7
93100	10/01/87		DIST--ALL		E	DRAFTING	W.J. NEYER		9101	7
93200	10/01/88		DIST--ALL		E	ANALYTICAL	D.L. HERMAN		9101	7
95100	10/01/87		DIST--ALL		E	NUCLEAR-SYSTEM SAFETY	J.L. CLICK		9101	7
95200	10/01/87		DIST--ALL		E	ENVIRONMENTAL MONITORING	L.S. ENGLAND		9101	7
95300	10/01/88		DIST--ALL		E	ENVIRONMENTAL COMPLIANCE	M.J. GALPER		9101	7
95400	10/01/89		DIST--ALL		E	AIR/WATER PERMITTING	B.M. BECKMAN		9101	7
95500	10/01/88		DIST--ALL		E	ENVIRONMENTAL & RADIOLOGI	M.E. CROTZER		9101	7
95600	10/01/89		DIST--ALL		E	SOLID WASTE COMPLIANCE	S.G. SCHNEIDER		9101	7
95700	10/01/88		DIST--ALL		E	ENVIRONMENTAL & RADIOLOGI	S.L. MINNEFELD		9101	7
96300	10/01/88		DIST--ALL		E	ERA PROJECT	J.P. HOPPER		9101	7
97100	10/01/87		DIST--ALL		E	PROJECT BUDGET & ANALYSIS	G.M. RISENHOOVER		9101	7
97500	10/01/89		DIST--ALL		E	TRAINING	A.E. KHOURY		9101	7
98100	10/01/87		DIST--ALL		E	PROJECTS QUALITY ASSURANC	J.L. TRUJILLO		9101	7
AAC02	11/01/87		39865	0087502	C	TITLE III-A/E D.C. G5A-	R.L. VANOSS	2312-61	9105	1
AAJ02	01/01/87		39865	0087502	C	CONSTRUCTION-RUST D.C. G	R.L. VANOSS	2312-61	9105	1
AAJ03	01/01/87		39865	0087502	C	CONSTRUCTION MGMT-WMCO	R.L. VANOSS	2312-61	9105	1
AAU11	07/01/89		39865	0087502	C	REMOVAL COSTS - CAFETERIA	M.R. SPENCER	2314-61	9105	9
ABC01	10/01/88		39865	0087502	C	TITLE III-WMCO D.C. G5-	C.L. NORTH	2312-61	9105	1
ABC02	06/01/88		39865	0087502	C	TITLE III-A/E D.C. G5-2	C.L. NORTH	2312-61	9105	1
ABJ02	10/01/88		39865	0087502	C	CONSTRUCTION-RUST D.C.	R.L. VANOSS	2312-61	9105	1
ABJ03	01/01/88		39865	0087502	C	CONSTRUCTION MGMT.-WMCO;D	C.L. NORTH	2312-61	9105	1
ABL01	01/01/88		39865	0087502	C	TITLE I & II-WMCO D.C.	R.A. MARKUS	2312-61	9105	1
ABL02	01/01/88		39865	0087502	C	TITLE I & II-A/E D.C. G	R.A. MARKUS	2312-61	9105	1
ABM01	10/01/88		39865	0087502	C	TITLE III-WMCO D.C. G43	R.A. MARKUS	2312-61	9105	1
ABM02	06/01/88		39865	0087502	C	TITLE III-A/E D.C. G43-	R.A. MARKUS	2312-61	9105	1
ABP03	01/01/88		39865	0087502	C	CONSTRUCTION MGMT.-WMCO;D	R.A. MARKUS	2312-61	9105	1
ABS01	10/01/88		39865	0087502	C	TITLE III-WMCO D.C. G42	R.A. MARKUS	2312-61	9105	1
ACA01	10/01/88		39865	0087502	C	TITLE I & II-WMCO;RED FUR	E.M. BLAKELY	2312-61	9105	1
ACA02	10/01/88		39865	0087502	C	TITLE I & II-A/E;REDUC FU	E.M. BLAKELY	2312-61	9105	1
ACB01	10/01/88		39865	0087502	C	TITLE III-WMCO;RED. FURN.	C.L. NORTH Y	2312-61	9105	1
ACB02	05/01/89		39865	0087502	C	TITLE III - A/E RED. FUR.	E.M. BLAKELY	2312-61	9105	1
ACC02	10/01/88		39865	0087502	C	TITLE I & II-A/E;MAINT. A	E.M. BLAKELY	2312-61	9105	1
ACC03	10/01/88		39865	0087502	C	TITLE III-WMCO;MAINT. ARE	C.L. NORTH	2312-61	9105	1
ACC04	05/01/89		39865	0087502	C	TITLE III - A/E MAINTENAN	E.M. BLAKELY	2312-61	9105	1
ACC05	01/01/90		39865	0087502	C	CONSTRUCTION RUST , MAINT	C.L. NORTH	2312-61	9105	1
ACC06	10/01/88		39865	0087502	C	CONSTRUCTION MGMT.-WMCO;M	E.M. BLAKELY	2312-61	9105	1
ACH01	10/01/88		39865	0087502	C	TITLE I & II-WMCO D.C.	H.C. DREXLER	2312-61	9105	1
ACH02	10/01/88		39865	0087502	C	TITLE I & II-A/E;DUST COL	H.C. DREXLER	2312-61	9105	1
ACJ01	10/01/88		39865	0087502	C	TITLE III-WMCO D.C. G2-	H.C. DREXLER	2312-61	9105	1
ACJ02	05/01/89		39865	0087502	C	TITLE III - A/E DC CZ-604	H.J. DREXLER	2312-61	9105	1
ACK01	10/01/89		39865	0087502	C	CONSTRUCTION RUST D.C. CZ	H.J. DREXLER	2312-61	9105	1

1405

58

58

PROGRAM
CSELP11 THU, APR 1 1990, 11:16 AM

OPEN CHARGE MASTER LIST

CHG #	OPN DATE	CLS DATE	B/R CODE	BR SHEET P/A NUMBER	C/E	DESCRIPTION	MANAGER	SL CODE	CL CODE	OH
KZK04	02/01/90		35012		C	GRAPHICS WORK STATION	L.A. GRIFFIN	2312-61	9105	1
KZK05	02/01/90		35012		C	AUTOMATED FILE SYSTEM	L.A. GRIFFIN	2312-61	9105	1
KZK06	03/01/90		35012		C	XEROX COPIER (1065)	L.A. GRIFFIN	2312-61	9105	1
KZK07	03/01/90		35012		C	EOC RADIO EQUIPMENT	C.L. GRIFFIN	2312-61	9105	1
KZK08	04/01/90		35012		C	AUTO LETTERING SYSTEM	C.L. GRIFFIN	2312-61	9105	1
KZK20	03/01/90		35012		C	TAPE SYNCHRONIZER	L.A. GRIFFIN	2312-61	9105	1
KZL01	10/01/89		35012		C	RMI-ICP ATOMIC EMISSION S	L.A. GRIFFIN/W. KORT	2312-61	9105	1
KZL02	10/01/89		35012		C	RMI-DUAL DRIVE FORK LIFT	L.A. GRIFFIN/W. KORT	2312-61	9105	1
KZL03	10/01/89		35012		C	RMI-BLAST "N" VAC SYSTEM	L.A. GRIFFIN/W. KORT	2312-61	9105	1
KZM01	11/01/89		35G73	DS0140	C	H.P. WATER BLASTER	L.A. GRIFFIN/W.A. WE	2312-61	9105	1
KZM02	11/01/89		35G73	DS0140	C	WATER BLASTER FLOOR CLEAN	L.A. GRIFFIN/W.A. WE	2312-61	9105	1
KZM03	12/01/89		35G73	DS0140	C	WASTE SHIPMENTS EXAM SCOP	L.A. GRIFFIN	2312-61	9105	1
KZN01	04/01/90		35012		C	CONST. COORDINATOR TRAILE	C.L. GRIFFIN	2312-61	9105	1
KZN02	04/01/90		35012		C	XEROX COPIER	C.L. GRIFFIN	2312-61	9105	1
LAB18	05/01/88		DIST--ALL	7588302	E	C&A-PLANTWIDE ROAD REPAIR	R.R. MOELLER		9103	6
MAC00	10/01/89		CE0341020		E	CE03-STANDBY ACTIVITIES-C	M.L. COON	9212-00	9104	4
MAD00	10/01/89		CE0341020		E	CE03-STANDBY ACTIVITIES-M	M.L. COON	9212-00	9104	4
MAA00	10/01/89		CE0348040		E	CE03-THORIUM OVERPACKING	R.W. MEISLER	9202-00	9104	4
MCA00	11/01/89		CE0341015		E	CE03-STARTUP ESMI DUST CO	R.J. MIESTAND	9215-00	9104	4
NAC11	10/01/89		BILLEDACT		E	EXPANSION UNIT INVENTORY	D.L. HERMAN	1830-91	9104	4
NBL00	10/01/89		BILLEDACT		E	4-INCH BILLET PRODUCTION	D.L. HERMAN	1830-30	9104	4
NFB01	01/01/90		BILLEDACT		E	RENOVATE OFFICE FOR I.G.	R.R. MOELLER	1830-01	9104	4
NRC00	02/01/90		CE0111030		E	CONSTRUCTION COORDINATION	C.T. HOWARD	9125-00	9104	4
PJB01	01/01/89		BILLEDACT		E	EMERG PREP-TITLE I & II-W	R.E. DEBUSK	1830-01	9103	9
PJB02	01/01/89		BILLEDACT		E	EMERG PREP-MISC OPER EXPE	R.E. DEBUSK	1830-01	9103	9
RBA01	10/01/89		CF7288020	DS006A	E	ER-PLANT 6 PERCHED GROUND	R.S. SHIRLEY	9282-01	9104	4
RBA04	10/01/89		CF7288020	DS006A	E	ER-K-65 REMOVAL ACTIONS	R.S. SHIRLEY	9282-01	9104	4
RBA05	10/01/89		CF7288020	DS006A	E	ER-GRIT BLAST SYSTEM	R.S. SHIRLEY	9282-01	9104	4
RCA01	10/01/89		CF7288020	DS005A	E	ER-OU 1 - PRELIMINARY ENG	R.J. GIMPEL	9282-00	9104	4
RHA01	10/01/89		CF7288020	DS005A	E	ER-OU 4 - PRELIMINARY ENG	W.G. TOPE	9282-00	9104	4
RHA02	02/01/90		CF7288020	DS005A	E	CF-72 SILO 3 CDR (OU4)	W.G. TOPE	9282-00	9104	4
RHA03	12/01/89		CF7288020	DS005A	E	OPERABLE UNIT FOR PNL STU	W.G. TOPE	9282-00	9104	4
RLA01	10/01/89		CF7288020	DS005A	E	OPERABLE UNIT 6 - SOUTH P	R.S. SHIRLEY	9282-00	9104	4
RMA02	10/01/88		CF7291020	DS010A	E	ER-RMI-GROUNDWATER REMEDI	W.E. KORTIER	9284-00	9104	4
RMA03	10/01/88		CF7291020	DS010A	E	ER-RMI-SURFACE SOIL & RAD	W.E. KORTIER	9284-00	9104	4
RMA05	10/01/89		CF7291020	DS010A	E	ER-RMI-FIVE YEAR PLAN REL	W.E. KORTIER	9284-00	9104	4
RMA08	10/01/89		CF7291020	DS010A	E	ER-RMI-WMCO SUPPORT	W.E. KORTIER	9284-00	9104	4
RMB01	10/01/89		CF7291020	DS010A	E	ER-RMI-FIELDS BRK & LASKI	W.E. KORTIER	9284-00	9104	4
RMC01	10/01/89		CF7288010	DS004A	E	ER-RI/FS - ASI/IT	D.J. CARR	9281-00	9104	4
RMC02	10/01/89		CF7288010	DS004A	E	ER-RI/FS - WMCO SUPPORT	D.J. CARR	9281-00	9104	4
RMC03	10/01/89		CF7288010	DS004A	E	ER-RI/FS - K-65 SAMPLING	D.J. CARR	9281-00	9104	4
RMD00	02/01/90		CF7288010	DS004A	E	CF-72 TASK 9.12 K-65 STRU	D.J. CARR	9281-00	9104	4
RMD01	10/01/89		CF7288010	DS008A	E	ER-ASI TASK 9 OUTFALL STU	D.J. CARR	9281-01	9104	4
RMD02	10/01/89		CF7288020	DS006A	E	ER-ASI TASK 9 EE/CA SOUTH	D.J. CARR	9282-01	9104	4
RMD04	11/01/89		CF7289020	DS009A	E	ER-ASI TASK 9 A & W SLUDG	D.J. CARR	9283-00	9104	4
RMD05	12/01/89		CF7288020	DS006A	E	ER-ASI TASK 9 BOILER PLAN	D.J. CARR	9282-01	9104	4
RMD06	02/01/90		CF7288010	DS004A	E	CF-72 TASK 9.12 K-65 STRU	D.J. CARR	9281-00	9104	4
RMD07	03/01/90		CF7288010	DS004A	E	ER-ASI TASK 9 - K-65 SAMP	D.J. CARR	9281-00	9104	4
RMD08	03/01/90		CF7288010	DS004A	E	TASK 9 - KNOLLMAN FIELDS	D.J. CARR	9281-00	9104	4
RNA01	10/01/89		CF7288020	DS005A	E	ER-ENGRD STOR FACIL - PRE	R.S. SHIRLEY	9282-00	9104	4
RPA01	10/01/88		CF7288010	DS008A	E	ER-CERCLA TRAINING	R.S. SHIRLEY	9281-01	9104	4
RPA02	10/01/89		CF7288010	DS008A	E	ER-TECHNICAL SUPPORT	R.S. SHIRLEY	9281-01	9104	4

PROGRAM
C32LP11 THU. APR 19. 1990. 11:16 AM

O P E N C H A R G E M A S T E R L I S T

CHG #	OPN DATE	CLS DATE	B/R CODE	BR SHEET	P/A NUMBER	C/E	D E S C R I P T I O N	M A N A G E R	SL CODE	CL CODE	OH
TSB00	10/01/89		CF7101862	DS0010		E	CA-RCRA PART B APPLICATIO	M.J. GALPER	9271-00	9104	4
TUA00	10/01/89		CF7101863	DS0020		E	CA-RUNOFF CONTROL	D.J. BRETTSCHNEIDER	9272-00	9104	4
TUA01	10/01/89		CF7101863	DS0020		E	CA-FLY ASH PILE COVER	D.J. BRETTSCHNEIDER	9272-00	9104	4
TUA02	10/01/89		CF7101863	DS0020		E	CA-MANHOLE 34	D.J. BRETTSCHNEIDER	9272-00	9104	4
TUA03	11/01/89		CF7101863	DS0020		E	CA -ASI TASK 9. WASTE PIT	D.J. BRETTSCHNEIDER	9272-00	9104	4
TUB00	10/01/89		CF7101863	DS0020		E	CA-CLEAN WATER ACT. COMPLI	D.J. BRETTSCHNEIDER	9272-00	9104	4
TUB01	10/01/89		CF7101863	DS0020		E	CA-STORM SEWER IMPROVEMEN	D.J. BRETTSCHNEIDER	9272-00	9104	4
TUB02	10/01/89		CF7101863	DS0020		E	CA-WATER RECYCLING	D.J. BRETTSCHNEIDER	9272-00	9104	4
TUC00	10/01/89		CF7101863	DS0020		E	CA-ADVANCED WASTEWATER TR	D.J. BRETTSCHNEIDER	9272-00	9104	4
UAA00	10/01/89		CF7301010	DS0140		E	WM-ENVIRONMENTAL COMPLIAN	M.J. GALPER	9291-02	9104	4
UAB00	10/01/89		CF7301010	DS0140		E	WM-PROGRAM MANAGEMENT	J.T. GRUMSKI	9291-02	9104	4
UAB01	10/01/89		CF7301010	DS0140		E	WM-TRAINING	J.T. GRUMSKI	9291-02	9104	4
UBA00	10/01/89		CF7301010	DS0030		E	WM-RCRA COMPLIANCE STORAG	J.T. GRUMSKI	9291-00	9104	4
UBA01	10/01/89		CF7301010	DS0030		E	WM-RCRA ANALYSIS	J.T. GRUMSKI	9291-00	9104	4
UCA00	10/01/89		CF7301970	DS0190		E	WM-PLANT 1 WASTE STORAGE	J.T. GRUMSKI	9293-01	9104	4
UDA00	10/01/89		CF7303960	DS0220		E	WM-CURRENT WASTE PROCESSI	R.L. GARDNER	9295-00	9104	4
UEA00	10/01/89		CF7303980	DS0230		E	WM-CURRENT WASTE SHIPMENT	J.T. GRUMSKI	9296-00	9104	4
UFA00	01/01/90		CF7301960	DS0160		E	WM-BACKLOG WASTE PROCESSI	J.T. GRUMSKI	9292-01	9104	4
UGA00	10/01/89		CF7301980	DS0200		E	WM-MIXED WASTE DISPOSITIO	W.M. BENSON	9294-00	9104	4
UJA00	10/01/89		CF7301960	DS0170		E	WM-WASTE TREATMENT - DECO	J.T. GRUMSKI	9292-02	9104	4
XAA00	10/01/89		DIST--ALL			E	C&A-BLUE AREA MAINTENANCE	S.J. DECHTER		9103	6
XAB00	10/01/89		DIST--ALL			E	C&A-TRANSPORTATION SUPPOR	W.R. DENHERDER		9103	6
XAC00	10/01/89		DIST--ALL			E	C&A-UTILITIES DISTRIBUTIO	L. PENNINGTON		9103	6
XAD00	10/01/89		DIST--ALL			E	C&A-MANUFACTURING SALARY	W.E. GALE		9103	6
XBA00	10/01/89		DIST--ALL			E	C&A-ANLYT-ANALYTICAL SERV	D.L. HERMAN		9103	6
XBA01	10/01/89		DIST--ALL			E	C&A-ANLYT-ANALYTICAL SERV	D.L. HERMAN		9103	6
XBA02	10/01/89		DIST--ALL			E	C&A-ANLYT-LAB BUILDING OW	D.L. HERMAN		9103	6
XBA03	10/01/89		DIST--ALL			E	C&A-ANLYT-BIOASSAY SAMPLE	D.L. HERMAN		9103	6
XCA00	11/01/89		DIST--ALL			E	C&A-TRAINING SUPPORT	A.E. KHOURY		9103	6
XCA01	02/01/90		DIST--ALL			C	C & A TRAINING ACCREDITAT	A.E. KHOURY		9103	6
XDA00	10/01/89		DIST--ALL			E	C&A-DOE LOCAL SITE OFFICE	W.I. WINN		9103	6
XDB00	11/01/89		DIST--ALL			E	C&A-ENVIR & RAD SAFETY TE	S.L. HINNEFELD		9103	6
XDC00	11/01/89		DIST--ALL			E	C&A-ENGINEERING REQUESTS	W.J. MEYER		9103	6
XDC01	11/01/89		DIST--ALL			E	C&A-DRAFTING FILE MANAGEM	W.J. MEYER		9103	6
XDC02	11/01/89		DIST--ALL			E	C&A-CLASSIFICATION	W.J. MEYER		9103	6
XDD00	11/01/89		DIST--ALL			E	C&A-EMERG PREPAR-WARNING	R.E. DEBUSK		9103	6
YAA00	10/01/87		CF7301010	DS0140		E	WM-WASTE MANAGEMENT WAGE	J.T. GRUMSKI	9291-02	9104	8
YCA03	06/01/88		CE03444A3			E	UF6-4 REDUCTION FACILITY	R.L. GARDNER	9263-00	9102	4
YLA00	10/01/87		DIST--PLT			E	UTILITIES PERSONNEL & ADM	L. PENNINGTON		9102	8
YLA01	10/01/87		SPLIT-SPE			E	UTIL-WATER TREATMENT PLAN	L. PENNINGTON		9102	8
YLA02	10/01/87		SPLIT-SPE			E	UTIL-POWER PLANT (BOILER	L. PENNINGTON		9102	8
YLA03	10/01/87		DIST--ALL			E	C&A-UTIL-SANITARY SEWAGE	L. PENNINGTON		9103	6
YLA04	10/01/87		SPLIT-SPE			E	UTIL-GENERAL SUMP	L. PENNINGTON		9102	8
YLA11	10/01/88		DIST--ALL			E	C&A-UTIL-ELECTRICITY USAG	L. PENNINGTON		9103	6
YLA20	10/01/88		DIST--ALL			E	C&A-UTIL-NATURAL GAS USAG	L. PENNINGTON		9103	6
YLA31	10/01/88		DIST--ALL			E	C&A-UTIL-WATER USAGE--C &	L. PENNINGTON		9103	6
YLA41	10/01/88		DIST--ALL			E	C&A-UTIL-STEAM USAGE--C &	L. PENNINGTON		9103	6
YMA00	09/01/87		DIST--ALL			E	C&A-OPERATIONS ADMINISTRA	A.M. SCHWARTZMAN		9103	6
YMC00	10/01/87		CE0111030			E	CE01-INSPECTION	J.E. CURRY	9125-00	9102	4
YMM00	10/01/87		SPLIT-SPE			E	NUCLEAR MATERIALS REPORTI	M.J. KNUE		9102	8
YMN00	10/01/87		SPLIT-SPE			E	WASTE CERTIFICATION	J.E. CURRY		9102	8
YMP00	10/01/87		CE0111039			E	CE01-NUCLEAR MATERIALS CO	C.W. LOWER	9125-00	9104	4

APPENDIX B-3

PROGRAM
GLP11 THU, APR 19, 1990, 11:16 AM

• • • U M C O • • •
O P E N C H A R G E M A S T E R L I S T

CHG #	OPN DATE	CLS DATE	B/R CODE	BR SHEET P/A NUMBER	C/E	DESCRIPTION	MANAGER	SL CODE	CL CODE	OH
YPA00	10/01/89		DIST--PLT		E	DISTRIBUTION OF MAINTENAN	S.J. DECHTER		9102	8
YPA01	10/01/89		DIST--PLT		E	DISTRIBUTION OF MAINTENAN	S.J. DECHTER		9102	8
YPA02	10/01/89		DIST--PLT		E	DISTRIBUTION OF MAINTENAN	S.J. DECHTER		9102	8
YQA00	10/01/89		DIST--PLT		E	DISTRIBUTION OF MANUFACTU	R.L. GARDNER		9102	8
YQA01	10/01/89		DIST--PLT		E	DIST OF MANUFACTURING WAG	R.L. GARDNER		9102	8
YQA02	10/01/89		DIST--PLT		E	DIST OF MANUFACTURING WAG	R.L. GARDNER		9102	8
YQA03	10/01/89		DIST--PLT		E	DIST OF MANUFACTURING WAG	R.L. GARDNER		9102	8
YQA04	10/01/89		DIST--PLT		E	DIST OF MANUFACTURING WAG	R.L. GARDNER		9102	8
YRA00	10/01/89		DIST--PLT		E	DISTRIBUTION OF TRANSPORT	W.R. DENHERDER		9102	8
YRA01	10/01/89		DIST--PLT		E	DISTRIBUTION OF TRANSPORT	W.R. DENHERDER		9102	8
ZAA00	10/01/87		DIST--ALL		E	C&A-OFFICE OF PRESIDENT	M.B. BOSWELL		9103	6
ZAA02	06/01/89		DIST--ALL		E	C&A-PERFORMANCE ASSESSMEN	M.C. CLAWSON		9103	6
ZAB00	10/01/87		DIST--ALL		E	C&A-OFFICE OF COUNSEL	S.L. BRADLEY		9103	6
ZAC00	10/01/87		DIST--ALL		E	C&A-INFORMATION MANAGEMEN	J.A. LOERCH		9103	6
ZAH00	10/01/87		DIST--ALL		E	C&A-COMMUNICATION SERVICE	W.H. BECKMAN		9103	6
ZAH01	10/01/89		DIST--ALL		E	C&A-TECHNICAL COMMUNICATI	W.E. PONSOCK		9103	6
ZAX00	10/01/87		DIST--ALL		E	C&A-RESTORATION STAFF	W.A. WEINREICH		9103	6
ZAX01	10/01/88		DIST--ALL		E	C&A-RESTORATION ADMINISTR	C.J. BROWN		9103	6
ZAL00	10/01/88		DIST--ALL		E	C&A-ADMINISTRATION STAFF	S.A. SCHEER		9103	6
ZAN00	10/01/88		DIST--ALL		E	C&A-QUALITY & SAFETY STAF	J.A. GRUMSKI		9103	6
ZAP00	10/01/88		DIST--ALL		E	QUALITY ASSURANCE ADMINIS	J.A. GRUMSKI		9103	6
ZBA00	10/01/87		DIST--ALL		E	C&A-SAFEGUARDS	J.M. MILLER		9103	6
ZBB00	10/01/87		DIST--ALL		E	C&A-SECURITY	J.M. MILLER		9103	6
ZBC00	10/01/87		DIST--ALL		E	C&A-PROCUREMENT & CONTRAC	L.J. WHITING		9103	6
ZBD00	10/01/87		GE0381052		E	GE03-PRECIOUS METALS PROG	L.J. WHITING	1686-99	9103	4
ZBE00	10/01/87		DIST--ALL		E	C&A-INVENTORY CONTROL/WAR	W.R. DENHERDER		9103	6
ZBG00	10/01/87		DIST--ALL		E	C&A-LIBRARY	R.M. GARDEWING		9103	6
ZBH00	10/01/87		DIST--ALL		E	C&A-RECORDS, REPRODUCTION	S.M. CAMPBELL		9103	6
ZBJ00	10/01/87		DIST--ALL		E	C&A-PORTERS	R.E. MERHLEY		9103	6
ZBK00	10/01/87		DIST--ALL		E	C&A-CAFETERIA	M.A. STEWART		9103	6
ZBL00	10/01/87		DIST--ALL		E	C&A-TRAFFIC	C.E. BLOCK		9103	6
ZBM00	10/01/87		DIST--ALL		E	C&A-AUTOMOTIVE-PERSONNEL	W.R. DENHERDER		9103	6
ZBM01	10/01/87		DIST--ALL		E	C&A-AUTOMOTIVE-COMPACT SE	C.D. HERSHBERGER		9103	6
ZBM02	10/01/87		DIST--ALL		E	C&A-AUTOMOTIVE-STATION WA	C.D. HERSHBERGER		9103	6
ZBM03	10/01/87		DIST--ALL		E	C&A-AUTOMOTIVE-AMBULANCES	C.D. HERSHBERGER		9103	6
ZBM04	10/01/87		DIST--ALL		E	C&A-AUTOMOTIVE-ELECTRIC S	C.D. HERSHBERGER		9103	6
ZBM05	10/01/87		DIST--ALL		E	C&A-AUTOMOTIVE-TRUCKS,< T	C.D. HERSHBERGER		9103	6
ZBM06	10/01/87		DIST--ALL		E	C&A-AUTOMOTIVE-TRUCKS,< T	C.D. HERSHBERGER		9103	6
ZBM07	10/01/87		DIST--ALL		E	C&A-AUTOMOTIVE-TRUCKS, 12	C.D. HERSHBERGER		9103	6
ZBM08	10/01/87		DIST--ALL		E	C&A-AUTOMOTIVE-TRUCKS, 24	C.D. HERSHBERGER		9103	6
ZBM09	10/01/87		DIST--ALL		E	C&A-AUTOMOTIVE-FIRE TRUCK	C.D. HERSHBERGER		9103	6
ZBM10	10/01/87		DIST--ALL		E	C&A-AUTOMOTIVE-GARAGE UTI	C.D. HERSHBERGER		9103	6
ZBM11	10/01/87		DIST--ALL		E	C&A-AUTOMOTIVE-DEMPSTER D	C.D. HERSHBERGER		9103	6
ZBM12	10/01/87		DIST--ALL		E	C&A-AUTOMOTIVE-LINE TRUCK	C.D. HERSHBERGER		9103	6
ZBM13	10/01/87		DIST--ALL		E	C&A-AUTOMOTIVE-INDUSTRIAL	C.D. HERSHBERGER		9103	6
ZBM14	10/01/87		DIST--ALL		E	C&A-AUTOMOTIVE-SNOW PLOW	C.D. HERSHBERGER		9103	6
ZBM15	10/01/87		DIST--ALL		E	C&A-AUTOMOTIVE-HEAVY EQUI	C.D. HERSHBERGER		9103	6
ZBM16	10/01/87		DIST--ALL		E	C&A-AUTOMOTIVE-MATERIAL H	C.D. HERSHBERGER		9103	6
ZBN00	10/01/87		DIST--ALL		E	C&A-HR-MEDICAL SERVICES	T.C. CRISLER		9103	6
ZBR00	10/01/87		DIST--ALL		E	C&A-INDUSTRIAL HYGIENE &	C.B. SPRADLIN		9103	6
ZBU00	10/01/87		DIST--ALL		E	C&A-DOSIMETRY AND Q&S INS	D.W. WELLS		9103	6
ZBY00	10/01/89		DIST--ALL		E	C&A-INSTRUMENTATION GROUP	M.E. CROTZER		9103	6

APPENDIX B-3

PROGRAM DATE: 01/10/90
PROGRAM TIME: 08:14:49

TEPC
CHARGE NO. MASTER LISTING

CHARGE NUMBER	COST & L&R NUMBER / A NUMBER	SUBLEDG CODE	PROC TYPE	CHRG TYPE	DIST CODE	PLANNED COMPLETE	START DATE	COMPLETE DATE	OVER READ	CLOSE CODE	RESPONSIBLE MANAGER	RESPONSIBLE DEPARTMENT	DESCRIPTION	CODE
PC099	PCA CE0111030	1611-00	01			/ /	/ /	12/31/88	4	9102	J.T. CHURSKI	WASTE/THORIUM HANDLING	DISTRIBUTION--ALL;DIST--PLT YD&OO	F
PC100	PCA DIST--PLT	-	*		PLTCEN	/ /	10/01/87	09/30/89	8	9102	R.L. GARDNER	OPERATIONS	REFINERY PLANT 2/3 PERSONNEL	F
PC101	PCA CE0111041	1611-00	01			/ /	10/01/87	09/30/89	3	9102	B. GARDNER	REFINERY, PLT 2/3	DIGESTION, CE01	F
PC102	PCA CE0111041	1611-00	01			/ /	10/01/87	09/30/89	3	9102	B. GARDNER	REFINERY, PLT 2/3	EXTRACTION & DENITRIFICATION	F
PC103	PCA CE0111041	1611-00	01			/ /	10/01/87	09/30/89	3	9102	B. GARDNER	REFINERY PLT 2/3	NITRIC ACID RECOVERY	F
PC104	PCA CE0271060	9245-00	16			/ /	/ /	03/31/89	9	9102	B. GARDNER	REFINERY, PLT 2/3	LOST MATERIAL, CE02	F
PC105	PCA CE0111041	1611-00	01			/ /	10/01/87	09/30/89	3	9102	B. GARDNER	REFINERY, PLT 2/3	REFINERY SUMP	F
PC106	PCA CE0111041	1611-00	01			/ /	10/01/87	09/30/89	3	9102	B. GARDNER	REFINERY, PLT 2/3	TRASH BALER	F
PC107	PCA CE0348040	9202-00	13			/ /	/ /	09/30/88	3	9102	B. GARDNER	REFINERY, PLT 2/3	K-65 AND METAL OXIDE STORAGE	F
PC108	PCA CE0341020	9212-00	15			/ /	/ /	09/30/88	3	9102	B. GARDNER	REFINERY, PLT 2/3	SHUTDOWN AND STANDBY COSTS	F
PC109	PCA CE0111041	1611-00	01			/ /	/ /	11/30/88	3	9102	B. GARDNER	REFINERY, PLT 2/3	ENRICHED EVAPORATOR-CALCINER OPERATIONS	F
PC199	PCA CE0111030	1611-00	01			/ /	/ /	12/31/88	4	9102	B. GARDNER	REFINERY, PLT 2/3	DISTRIBUTION--ALL;DIST--PLT YD&OO	I
YD&00	YDA DIST--PLT	-	*		PLTCEN	/ /	10/01/87	09/30/89	8	9102	R.L. GARDNER	OPERATIONS	GREEN SALT/TANK FARM PLANT 4 PERSONNEL	I
YD&01	YDA CE0344012	1611-00	19			/ /	/ /	10/31/88	3	9102	B. GARDNER	GREEN ST/TK FARM, PLT 4	PADUCAH HANDLING COSTS	F
YD&02	YDA CE0344012	1611-00	19			/ /	10/01/87	09/30/89	3	9102	B. GARDNER	GREEN ST/TK FARM, PLT 4	DEPLETED GREENSALT REPACKAGING	F
YD&03	YDA CE0111041	1611-00	01			/ /	/ /	11/30/88	3	9102	B. GARDNER	GREEN ST/TK FARM, PLT 4	PROCESSING TO ENRICHED GREENSALT	F
YD&04	YDA CE0111030	1611-00	01			/ /	10/01/87	09/30/89	3	9102	B. GARDNER	GREEN ST/TK FARM, PLT 4	TANK FARM OPERATIONS	F
YD&05	YDA CE0341020	9212-00	15			/ /	09/01/89	09/30/89	3	9102	R.L. GARDNER	OPERATIONS	STANDBY ACTIVITIES	F
YD&06	YDA CE0111041	1611-00	01			/ /	07/01/88	09/30/89	3	9102	B. GARDNER	GREEN ST/TK FARM, PLT 4	T-HOPPER REFURBISHMENT (KR)	F
YD&99	YDA CE0111030	1611-00	01			/ /	/ /	12/31/88	4	9102	B. GARDNER	GREENST/TK FARM, PLT 4	DISTRIBUTION--ALL;DIST--PLT YD&OO	F
YE&00	YEA DIST--PLT	-	*		PLTCEN	/ /	10/01/87	09/30/89	8	9102	R.L. GARDNER	OPERATIONS	RECOVERY PLANT 8 PERSONNEL	F
YE&01	YEA DIST--ALL	-	*		PROD-S	/ /	10/01/87	09/30/89	5	9102	B. GARDNER	RECOVERY, PLT 8	DRUM WASHING	F
YE&02	YEA CE0111041	1611-00	01			/ /	10/01/87	09/30/89	3	9102	B. GARDNER	RECOVERY, PLT 8	PROCESSING OF ENRICHED SCRAP	F
YE&03	YEA CE0111041	1611-00	05			/ /	10/01/87	09/30/89	3	9102	B. GARDNER	RECOVERY, PLT 8	WASTE PROCESSING BACKLOG (CE)	F
YE&04	YEA CE0111041	1611-00	05			/ /	10/01/87	09/30/89	3	9102	B. GARDNER	RECOVERY, PLT 8	WASTE PROCESSING CURRENT (CE)	F
YE&05	YEA CE0341020	9212-00	15			/ /	/ /	10/31/88	3	9102	B. GARDNER	RECOVERY, PLT 8	MAINT. OF EQUIPMENT IN STANDBY-RECOVERY	E
YE&99	YEA CE0111030	1611-00	01			/ /	/ /	12/31/88	4	9102	B. GARDNER	RECOVERY, PLT 8	DISTRIBUTION--ALL;DIST--PLT YD&OO	F

PROGRAM DATE 01/10/90
TIME 08 14 49

CHARGE NO. MASTER LISTING

CHARGE NUMBER	COST BOOK	S L R NUMBER	P / A NUMBER	SUBLEDG CODE	PROC TYPE	CHRG TYPE	DIST CODE	PLANNED COMPLETE	START DATE	COMPLETE DATE	OVER RIND	CLOSE CODE	RESPONSIBLE MANAGER	RESPONSIBLE DEPARTMENT	DESCRIPTION	
YF600	YFA	DIST--PLT		-	*		PLTCEX	/ /	10/01/87	09/30/89	8	9102	R.L. GARDNER	OPERATIONS	PILOT PLANT PERSONNEL	F
YF601	YFA	CE0111041		1611-00	01		----	/ /	/ /	09/30/88	3	9102	B. GARDNER	PILOT PLANT	PROCESSING OF ENRICHED SCRAP	E
YF602	YFA	CE0111030		1611-00	*		----	/ /	/ /	09/30/88	3	9102	B. GARDNER	PILOT PLANT	REPACKAGING OF DEPLETED UO2	E
YF603	YFA	CE0111030		1611-00	01		--SP--	/ /	10/01/87	09/30/89	3	9102	B. GARDNER	PILOT PLANT	PLASMA SPRAY, 4A	F
YF604	YFA	CE0111030		1611-00	01		--SP--	/ /	10/01/87	09/30/89	3	9102	B. GARDNER	PILOT PLANT	OUTCASSING OF MOLDS, 4A	F
YF605	YFA	CE0341020		9212-00	15		----	/ /	10/01/87	09/30/89	3	9102	B. GARDNER	PILOT PLANT	UF6 TO UF4 OPERATIONS	F
YF606	YFA	SPLITCOST		1611-00	*		----	/ /	/ /	09/30/88	9	9102	B. GARDNER	PILOT PLANT	UF6 HANDLING COSTS(TRANSFERRED FROM OFFSITE)	E
YF607	YFA	CE0801000		9240-00	04		----	/ /	/ /	09/30/88	9	9102	B. GARDNER	PILOT PLANT	SEPARATIVE WORK	F
YF608	YFA	CE0341020		9212-00	15		----	/ /	10/01/87	09/30/89	3	9102	B. GARDNER	PILOT PLANT	MAINT. OF EQUIPMENT IN STANDBY-PILOT PLANT	F
YF609	YFA	SPLITCOST		1611-00	*		----	/ /	/ /	09/30/88	3	9102	B. GARDNER	PILOT PLANT	RESTART ACTIVITIES-PILOT PLANT RESTART	E
YF610	YFA	SPLITCOST		1611-00	*		----	/ /	/ /	09/30/88	3	9102	B. GARDNER	PILOT PLANT	RESTART PROJECT WORK-PILOT PLANT RESTART	E
YF699	YFA	CE0111030		1611-00	01		----	/ /	/ /	12/31/88	4	9102	B. GARDNER	PILOT PLANT	DISTRIBUTION--ALL;DIST--PLT YF600	F
YG600	YGA	SPLITCOST		9261-00	*		----	/ /	/ /	09/30/88	2	9102	B. GARDNER	UF6-4 REDUCTION FACILITY	PERSONNEL & ADMINISTRATION-UF6 TO UF4	E
YG601	YGA	SPLITCOST		9261-00	*		----	/ /	/ /	09/30/88	2	9102	B. GARDNER	UF6-4 REDUCTION FACILITY	START-UP	F
YG602	YGA	SPLITCOST		9261-00	*		----	/ /	/ /	09/30/88	2	9102	B. GARDNER	UF6-4 REDUCTION FACILITY	UF6 TO UF4 OPERATIONS-DEPLETED	F
YG603	YGA	CE0344043		9263-00	14		----	/ /	06/01/88	/ /	4	9102	R.L. GARDNER	OPERATIONS	UF6-4 REDUCTION FACILITY	F
YK600	YKA	DIST--PLT		-	*		PLTCEX	/ /	10/01/87	09/30/89	8	9102	F.J. CURNEY	OPERATIONS	PLANT 5 PERSONNEL	F
YK601	YKA	CE0349912		1611-00	19		----	/ /	10/01/87	09/30/89	3	9102	F. CURNEY	METALS PROD. PLT 5	REDUCTION	F
YK602	YKA	CE0111030		1611-00	01		--SP--	/ /	10/01/88	09/30/89	3	9102	F. CURNEY	METALS PROD. PLT 5	REBELT--4A PRIMARIES	E
YK603	YKA	CE0111030		1611-00	01		--SP--	/ /	10/01/87	09/30/89	3	9102	F. CURNEY	METALS PROD. PLT 5	CASTING OF 2" FLATS, 4A	F
YK604	YKA	CE0344000		9260-00	14		----	/ /	/ /	05/31/89	9	9102	F. CURNEY	METALS PROD. PLT 5	COST TRANSFERRED FROM OTHERS-4A ACTIVITIES	E
YK605	YKA	CE0341020		9212-00	15		----	/ /	/ /	10/31/88	3	9102	F. CURNEY	METALS PROD. PLT 5	MAINT. OF EQUIPMENT IN STANDBY-METALS PROD.	E
YK606	YKA	CE0111030		1611-00	01		----	/ /	/ /	11/30/88	3	9102	F. CURNEY	METALS PROD. PLT 5	5 ALIVE PROGRAM	F
YK607	YKA	CE0111030		1611-00	01		--SP--	/ /	/ /	09/30/88	3	9102	F. CURNEY	METALS PROD. PLT 5	PLASMA SPRAY--PLT.5	F
YK699	YKA	CE0111030		1611-00	01		----	/ /	/ /	12/31/88	4	9102	F. CURNEY	METALS PROD. PLT 5	DISTRIBUTION--ALL;DIST--PLT YK600	F
YL600	YLA	DIST--PLT		-	*		PLTCEX	/ /	10/01/87	09/30/89	8	9102	F.J. CURNEY	OPERATIONS	PLANT 6 PERSONNEL	F
YL601	YLA	CE0341020		9212-00	15		----	/ /	/ /	09/30/88	3	9102	F. CURNEY	METALS TAB. PLT 6	ROLLING	F

APPENDIX B-3

TRPC
CHARGE NO. MASTER LISTING

CHARGE NUMBER	COST SCCT	B L R NUMBER	P / A NUMBER	SUBLEDG CODE	PROG TYPE	CHRG TYPE	DIST CODE	PLANNED COMPLETE	START DATE	COMPLETE DATE	OVER KEND	CLOSE CODE	RESPONSIBLE MANAGER	RESPONSIBLE DEPARTMENT	DESCRIPTION	
VJ602	VJA	SPLITCOST		1611-00	01			/ /	/ /	09/30/88	3	9102	F. CURNEY	METALS FAB. PLT 6	SALT WATER HEAT TREATING	F
VJ603	VJA	CE0111030		1611-00	01			/ /	10/01/87	09/30/89	3	9102	F. CURNEY	METALS FAB. PLT 6	SALT OIL HEAT TREATING	E
VJ604	VJA	SPLITCOST		1611-00	01			/ /	/ /	09/30/88	3	9102	F. CURNEY	METALS FAB. PLT 6	MACHINING	F
VJ605	VJA	CE0111030		1611-00	01		SP	/ /	10/01/87	09/30/89	3	9102	F. CURNEY	METALS FAB. PLT 6	BRIQUETTING	F
VJ606	VJA	CE0111030		1611-00	01		SP	/ /	10/01/87	09/30/89	3	9102	F. CURNEY	METALS FAB. PLT 6	SCRAP PICKLING	F
VJ607	VJA	CE0111030		1611-00	01		SP	/ /	/ /	09/30/88	3	9102	F. CURNEY	METALS FAB. PLT 6	DERBY & FLAT PICKLING	F
VJ608	VJA	SPLITCOST		1611-00	01			/ /	/ /	09/30/88	3	9102	F. CURNEY	METALS FAB. PLT 6	GAG SHEAR	F
VJ609	VJA	CE0111030		1611-00	01		SP	/ /	10/01/87	09/30/89	3	9102	F. CURNEY	METALS FAB. PLT 6	FLAT MACHINING, 4B	F
VJ610	VJA	CE0111030		1611-00	01			/ /	01/01/89	09/30/89	3	9102	F. CURNEY	METALS FAB. PLT 6	DERBY SAMPLING-RICT	F
VJ611	VJA	CE0111030		1611-00	01		SP	/ /	10/01/87	09/30/89	3	9102	F. CURNEY	METALS FAB. PLT 6	TOOLING OPERATION	F
VJ612	VJA	CE0244V12		1611-00	19			/ /	/ /	09/30/88	3	9102	F. CURNEY	METALS FAB. PLT 6	DERBY SAMPLING—V12	F
VJ613	VJA	CE0111030		1611-00	01		SP	/ /	10/01/87	09/30/89	3	9102	F. CURNEY	METALS FAB. PLT 6	SURVACE MACHINING—4A	I
VJ699	VJA	CE0111030		1611-00	01			/ /	/ /	12/31/88	4	9102	F. CURNEY	METALS FAB. PLT 6	DISTRIBUTION—ALL;DIST—PLT VJ800	I
VJ800	VJE	CE0111041		1611-00	01			/ /	/ /	09/30/88	3	9102	F. CURNEY	METALS FAB PLT 6	N-REACTOR CASTING	I
VJ801	VJE	CE0111030		1611-00	01			/ /	/ /	09/30/88	3	9102	F. CURNEY	METALS FAB PLT6	INGOT MACHINING, DEPLETED	F
VJ802	VJE	CE0111041		1611-00	01			/ /	/ /	09/30/88	3	9102	F. CURNEY	METALS FAB PLT6	INGOT MACHINING, ENRICHED	F
VJ804	VJE	CE0244V12		1611-00	19			/ /	10/01/87	09/30/89	3	9102	F. CURNEY	METALS FAB. PLT 6	DERBY CLEANING	F
VJ805	VJE	CE0244V12		1611-00	19			/ /	10/01/87	09/30/89	3	9102	F. CURNEY	METALS FAB. PLT 6	DERBY PICKLING	F
VJ807	VJE	SPLITCOST		1611-00	*			/ /	/ /	09/30/88	3	9102	F. CURNEY	METALS FAB PLT6	SPECIAL PRODUCTS MACHINING	F
VK400	VKA	CE0111030		1611-00	01			/ /	10/01/87	09/30/89	4	9102	S.J. BECKTER	OPERATIONS	MAINTENANCE GENERAL	F
VK401	VKA	DIST--ALL		-	*		CENLAB	/ /	10/01/87	09/30/89	6	9102	S.J. BECKTER	OPERATIONS	MAINTENANCE ADMINISTRATION	E
VK402	VKA	DIST--ALL		-	*		CENLAB	/ /	10/01/87	09/30/89	6	9102	S.J. BECKTER	OPERATIONS	MAINTENANCE C & D AREAS	F
VK403	VKA	DIST--ALL		-	*		PROD-S	/ /	10/01/87	09/30/89	5	9102	S. BECKTER	MAINTENANCE	MAINTENANCE—PRODUCTION SUPPORT AREAS	E
VK404	VKA	DIST--ALL		-	*		MT--SP	/ /	10/01/88	09/30/89	8	9102	S.J. BECKTER	OPERATIONS	MAINTENANCE—PLANT 5	F
VK405	VKA	DIST--ALL		-	*		MT--SP	/ /	10/01/88	09/30/89	8	9102	S. BECKTER	MAINTENANCE	MAINTENANCE—PLANT 6	F
VK406	VKA	CE0244V12		1611-00	19			/ /	10/01/88	09/30/89	4	9102	S. BECKTER	MAINTENANCE	MAINTENANCE—PLANT 9	F
VK407	VKA	CE0111030		1611-00	01			/ /	10/01/88	09/30/89	4	9102	S. BECKTER	MAINTENANCE	MAINTENANCE—PLANT 1	F

APPENDIX B-3

PROGRAM DATE 01/10/90
CCGP55 TIME 08:14:49

/NPC
CHARGE NO. MASTER LISTING

CHARGE NUMBER	COST ACCT	I & R NUMBER	P / A NUMBER	SUBLEDG CODE	PROC TYPE	CHRG TYPE	DIST CODE	PLANNED COMPLETE	START DATE	COMPLETE DATE	OVER READ	CLOSE CODE	RESPONSIBLE MANAGER	RESPONSIBLE DEPARTMENT	DESCRIPTION	CODE
YEX01	YEX	CE0111030		1611-00	01			/ /	09/01/88	09/30/89	4	9102	P.J. LEVINE	ADMIN & ENGINEERING	FACILITIES INTEGRATION--SITE SERVICE WORKERS	E
YEX00	YEX	CE0111030		1611-00	01			/ /	10/01/87	09/30/89	4	9102	P.J. LEVINE	OPERATIONS TRAINING	SYSTEMS DEVELOPMENT	F
YEX00	YEX	CE0111030		1611-00	01			/ /	10/01/87	09/30/89	4	9102	P.J. LEVINE	ORG PLANNING & SCH	SCHEDULING, BUDGETING, & STRATEGIC PLANNING	F
YEX00	YEX	CE0111030		1611-00	01			/ /	10/01/87	09/30/89	4	9102	J.T. GRUNSKI	HIGH LEVEL CLEANING	HIGH LEVEL CLEANING	F
YEX00	YEX	CF7301960		9292-00	06			/ /	10/01/87	09/30/89	4	9104	J.T. GRUNSKI	OPERATIONS	NR-DECONTAMINATION	F
YEX00	YEX	CE0111030		1611-00	01			/ /	10/01/87	/ /	4	9102	J.E. CARRY	OPERATIONS	CE01-INSPECTION	F
YEX00	YEX	DIST--ALL		-	*		CENLAD	/ /	10/01/87	09/30/89	6	9103	R.E. HERPLEY	OPERATIONS	LAUNDRY	F
YEX00	YEX	DIST--ALL		-	*		CENLAD	/ /	10/01/87	09/30/89	6	9103	C.D. HERSHBERGER	OPERATIONS	TRANSPORTATION GENERAL	F
YEX01	YEX	CF0102020		9291-00	05			/ /	10/01/87	09/30/89	4	9102	C. HERSHBERGER	TRANSPORTATION	WASTE HANDLING-TRANSPORTATION	F
YEX02	YEX	CF0102020		9281-00	05			/ /	/ /	09/30/88	4	9102	C. HERSHBERGER	TRANSPORTATION	SIG SHIPMENTS - TRANSPORTATION	F
YEX05	YEX	CE0348040		9202-00	13			/ /	10/01/87	09/30/89	4	9104	C.D. HERSHBERGER	OPERATIONS	TRANS-THORIUM HANDLING	F
YEX06	YEX	CF0102020		9281-00	5			/ /	10/01/88	09/30/89	3	9102	C. HERSHBERGER	TRANSPORTATION	CONSTRUCTION WASTE--WORK BY TRANSPORTATION	E
YEX07	YEX	DIST--ALL		-	*		CENLAD	/ /	10/01/87	09/30/89	6	9103	C.D. HERSHBERGER	OPERATIONS	TRANS-DRUMS & PALLETS--SITEWIDE	F
YEX08	YEX	DIST--ALL		-	*		CENLAD	/ /	/ /	03/31/89	6	9102	C. HERSHBERGER	TRANSPORTATION	CONSTRUCTION RUBBLE WORK BY TRANSPORTATION	F
YEX01	YEX	CE0342000		1611-00	17			/ /	10/01/87	09/30/89	9	9102	C. BLOCK	FREIGHT	SAVANNAH RIVER OPERATIONS	F
YEX02	YEX	CE0342000		1611-00	17			/ /	/ /	09/30/88	9	9102	C. BLOCK	FREIGHT	SAVANNAH RIVER-MARK 25 CORES	F
YEX03	YEX	CE0342000		1611-00	17			/ /	/ /	09/30/88	9	9102	C. BLOCK	FREIGHT	RMI-DEPLETED MATERIAL	F
YEX04	YEX	CE0342000		1611-00	17			/ /	/ /	09/30/88	9	9102	C. BLOCK	FREIGHT	RMI-MARK 25 MACHINED INGOTS	F
YEX05	YEX	CE0344A2		9262-00	14			/ /	/ /	09/30/88	9	9102	C. BLOCK	FREIGHT	ROCKY FLATS-DEPLETED 3" FLATS	F
YEX07	YEX	BILLEDACT		1830-32	*			/ /	10/01/87	09/30/89	9	9102	C.E. BLOCK	OPERATIONS	FREIGHT-ROCKY FLATS-DEPLETED DERBIES	F
YEX08	YEX	CE0342000		1611-00	17			/ /	10/01/87	09/30/89	9	9102	C. BLOCK	FREIGHT	ORO-MATERIAL TO PLANT 912	F
YEX09	YEX	CE0342000		1611-00	17			/ /	10/01/87	09/30/89	9	9102	C. BLOCK	FREIGHT	TRANS. & SECURITY SHIP.-OUT N.-REACTOR MAT.	E
YEX10	YEX	CF0102040		9281-00	05			/ /	/ /	09/30/88	9	9102	C. BLOCK	FREIGHT	SIG LLW SHIPMENTS-AR	F
YEX11	YEX	CF0102040		9281-00	05			/ /	10/01/87	09/30/89	9	9102	C. BLOCK	FREIGHT	NTS LLW SHIPMENTS-CF	F
YEX12	YEX	CF0102040		9281-00	05			/ /	/ /	09/30/88	9	9102	C. BLOCK	FREIGHT	NTS LLW SHIPMENTS-CE	F
YEX13	YEX	CF0102040		9281-00	05			/ /	/ /	09/30/88	9	9102	C. BLOCK	FREIGHT	NTS LLW SHIPMENTS-AR	F
YEX14	YEX	CF0102020		9291-00	05			/ /	10/01/87	09/30/89	9	9102	C. BLOCK	FREIGHT	THORIUM SHIPMENTS	F

1405

59

65

APPENDIX B-3

145

PROGRAM DATE: 07/10/90
CCCPPA TIME: 09:14:49

TEPC
CHARGE NO. MASTER LISTING

CHARGE NUMBER	COST ACCT	R.E.R NUMBER	P / A NUMBER	SUBLEDG CODE	PROC TYPE	CHRG TYPE	DIST CODE	PLANNED COMPLETE	START DATE	COMPLETE DATE	OVER READ	CLOSE CODE	RESPONSIBLE MANAGER	RESPONSIBLE DEPARTMENT	DESCRIPTION	CODE
ZZ0000	ZZN	DIST--ALL		-	•		CENLAD	/ /	10/01/87	09/30/89	6	9103	T.A. DUGAN	ESLN CHEMICAL LABORATORY	ESLN CHEMICAL LABORATORY	F
ZZ100	ZZD	DIST--ALL		-	•		CENLAD	/ /	/ /	09/30/88	6	9103	N. B. CHRISTIANSEN	ESLN DOC. CTR. & REV.	ESLN DOCUMENT CONTROL AND REVIEW	F
ZZ200	ZZE	DIST--ALL		-	•		CENLAD	/ /	/ /	09/30/88	6	9103	B. LOUBIN	ESLN PLANNING	ESLN PLANNING	F
ZZ900	ZZY	DIST--ALL		-	•		CENLAD	/ /	10/01/89	/ /	6	9103	J.L. TRUJILLO	QUALITY & SAFETY	CLA-INSTRUMENTATION GROUP	F
ZZA00	ZZA	DIST--ALL		-	•		CENLAD	/ /	10/01/87	/ /	6	9103	T.C. CHISLER	HUMAN RESOURCES	CLA-HR-PERSONNEL & ADMIN	F
ZZA01	ZZA	DIST--ALL		-	•		CENLAD	/ /	10/01/87	/ /	6	9103	R. SULLIVAN	HUMAN RESOURCES	CLA-HR-COMPENSATION	F
ZZA02	ZZA	DIST--ALL		-	•		CENLAD	/ /	10/01/87	/ /	6	9103	C.F. SASKOWSKY	HUMAN RESOURCES	CLA-HR-INDUSTRIAL RELATIONS	F
ZZA03	ZZA	DIST--ALL		-	•		CENLAD	/ /	10/01/87	/ /	6	9103	T.C. CHISLER	HUMAN RESOURCES	CLA-HR-ORGANIZATION STAFFING	F
ZZA04	ZZA	DIST--ALL		-	•		CENLAD	/ /	/ /	09/30/88	6	9103	C. KEICHER	HUMAN RESOURCES	EMPLOYMENT - NON-LABOR	F
ZZA05	ZZA	DIST--ALL		-	•		CENLAD	/ /	10/01/87	11/30/89	6	9103	A.E. KHOURY	HUMAN RESOURCES	TRAINING	F
ZZA06	ZZA	DIST--ALL		-	•		CENLAD	/ /	04/01/88	/ /	6	9103	R. SULLIVAN	HUMAN RESOURCES	CLA-HR-EEOC PROGRAM	F
ZZA07	ZZA	DIST--ALL		-	•		CENLAD	/ /	09/01/88	/ /	6	9103	T.C. CHISLER	HUMAN RESOURCES	CLA-HR-OUTPLACEMENT	
ZZA08	ZZA	DIST--ALL		-	•		CENLAD	/ /	06/01/88	11/30/89	6	9103	T.C. CHISLER	HUMAN RESOURCES	HR-COMPANY PICNIC	
ZZB00	ZZB	DIST--ALL		-	•		CENLAD	/ /	10/01/87	/ /	6	9103	J.E. CURRY	QUALITY & SAFETY	CLA-QUALITY ENGINEERING SYSTEMS/PROGRAMS	F
ZZB00	ZZB	DIST--ALL		-	•		CENLAD	/ /	/ /	09/30/88	6	9103	J. BURNS	INTERNAL AUDITING	INTERNAL AUDITING	F
ZZB00	ZZB	DIST--ALL		-	•		CENLAD	/ /	10/01/87	/ /	6	9103	H.A. GIBSON	CONTROLLER	CLA-GENERAL ACCOUNTING	F
ZZB01	ZZB	DIST--ALL		-	•		CENLAD	/ /	/ /	09/30/88	6	9103	P. GIBSON	GENERAL ACCOUNTING	DOE SITE COSTS - BHCO	F
ZZB02	ZZB	BILLEDACT		1630-01	•		------	/ /	10/01/87	/ /	9	9102	H.A. GIBSON	SITE EXPENSES	DOE SITE COSTS - OAKRIDGE	F
ZZB03	ZZB	DIST--ALL		-	•		CENLAD	/ /	10/01/88	/ /	6	9103	H.A. GIBSON	SITE EXPENSES	CLA-ACCOUNTING DISTRIBUTIONS	F
ZZB04	ZZB	DIST--ALL		-	•		CENLAD	/ /	07/01/89	/ /	6	9103	R.C. KISPERT	CONTROLLER	CLA-LONG RANGE PLANNING	F
ZZC00	ZZC	DIST--ALL		-	•		CENLAD	/ /	10/01/87	09/30/89	6	9103	R.E. CALE	CONTROLLER	FINANCIAL PLANNING	F
ZZC01	ZZC	CI0111030		1611-00	01		------	/ /	10/01/88	09/30/89	4	9103	R.E. CALE	SITE EXPENSES	CENTRAL SITE EXPENSES I	F
ZZC02	ZZC	DIST--ALL		-	•		CENLAD	/ /	10/01/83	09/30/89	6	9103	R.E. CALE	SITE EXPENSES	CENTRAL SITE EXPENSES II	F
ZZC03	ZZC	CI0111030		1611-00	01		------	/ /	10/01/88	09/30/89	9	9103	R.E. CALE	CONTROLLERS ORGANIZATION	GREENSALT CHARGE FOR BENEFITS--CR	F
ZZC04	ZZC	CI0111030		1611-00	19		------	/ /	10/01/88	09/30/89	9	9103	R.E. CALE	CONTROLLERS ORGANIZATION	GREENSALT CHARGE FOR BENEFITS--DR	F
ZZD00	ZZD	DIST--ALL		-	•		CENLAD	/ /	10/01/87	/ /	6	9103	T.J. FEZZI	CONTROLLER	CLA-FINANCIAL PLANNING & OPERATIONS	F
ZZD01	ZZD	DIST--ALL		-	•		CENLAD	/ /	10/01/89	/ /	6	9103	T.J. FEZZI	SITE EXPENSES	CLA-BHCO MANAGEMENT FEE	F

66

99

66

APPENDIX B-4

OPTIONAL SECTION 313 REPORTING THRESHOLD WORKSHEET

Facility Name: FMPC

Chemical or Chemical Category: Ammonia

Reporting Year: 1989

Date Worksheet Prepared: May 30, 1990

Prepared By: Caran G. Siefert

Step 1. Identify amounts of the chemical manufactured, processed, or otherwise used.

Mixture Name or Other Identifier	Percent by Weight	Information Source	Total Weight (in lbs)	Amount of the Listed Chemical by Activity (in lbs.): Manufactured	Processed	Otherwise Used
1. Ammonia			32,580		32,580	
2.						
3.						
4.						
5.						
6.						
7.						
Subtotal:				(A)_____lbs	(B)32,580lbs	(C)_____lbs

Step 2. Identify exempt forms of the chemical that have been included in Step 1.

Mixture Name as Listed Above	Exemption Applicable	Note Fraction or Percent Exempt (if Applicable)	Exempt Amount of the Chemical from Above (in lbs.): Manufactured	Processed	Otherwise Used
1.					
2.					
3.					
4.					
5.					
6.					
7.					
Subtotal:			(A_1)_____lbs	(B_1)_____lbs	(C_1)_____lbs

Step 3. Calculate the amount subject to threshold: ($A-A_1$)_____lbs ($B-B_1$)32,580lbs ($C-C_1$)_____lbs

Compare to thresholds for section 313 reporting: 25,000 lbs 25,000 lbs 10,000 lbs

If any threshold is met, reporting is required for all activities. Do not submit this worksheet with Form R. Retain for your records.

1405

67

67

APPENDIX B-4

OPTIONAL SECTION 313 REPORTING THRESHOLD WORKSHEET

Facility Name: FMPC

Chemical or Chemical Category: Hydrochloric Acid

Reporting Year: 1989

Date Worksheet Prepared: May 30, 1990

Prepared By: Caran G. Siefert

Step 1. Identify amounts of the chemical manufactured, processed, or otherwise used.

Mixture Name or Other Identifier	Percent by Weight	Information Source	Total Weight (in lbs)	Amount of the Listed Chemical by Activity (in lbs.): Manufactured	Processed	Otherwise Used
1.						
2. Hydrochloric Acid			15,390			15,390
3.						
4. Coal			49,278,000	50		
5.						
6.						
7.						
Subtotal:				(A) 50 lbs	(B) ____ lbs	(C) 15,390 lbs

Step 2. Identify exempt forms of the chemical that have been included in Step 1.

Mixture Name as Listed Above	Exemption Applicable	Note Fraction or Percent Exempt (if Applicable)	Exempt Amount of the Chemical from Above (in lbs.): Manufactured	Processed	Otherwise Used
1. Hydrochloric Acid	372.38 (d)	Water Lab			72
2. Hydrochloric Acid	372.38 (d)	Anal. Lab			720
3.					
4.					
5.					
6.					
7.					
Subtotal:			(A_1) -0- lbs	(B_1) ____ lbs	(C_1) 792 lbs

Step 3. Calculate the amount subject to threshold: ($A-A_1$) 50 lbs ($B-B_1$) ____ lbs ($C-C_1$) 14,598 lbs

Compare to thresholds for section 313 reporting: 25,000 lbs 25,000 lbs 10,000 lbs

If any threshold is met, reporting is required for all activities. **Do not submit this worksheet with Form R. Retain for your records.**

1405

68

68

OPTIONAL SECTION 313 REPORTING THRESHOLD WORKSHEET

Facility Name: FMPC
Chemical or Chemical Category: Methyl Alcohol
Reporting Year: 1989

Date Worksheet Prepared: May 30, 1990
Prepared By: Caran G. Siefert

Step 1. Identify amounts of the chemical manufactured, processed, or otherwise used.

Mixture Name or Other Identifier	Percent by Weight	Information Source	Total Weight (in lbs)	Amount of the Listed Chemical by Activity (in lbs.): Manufactured	Processed	Otherwise Used
1.						
2. Methyl Alcohol			109,369			109,369
3.						
4.						
5.						
6.						
7.						
Subtotal:				(A)_____lbs	(B)_____lbs	(C) 109,369 lbs

Step 2. Identify exempt forms of the chemical that have been included in Step 1.

Mixture Name as Listed Above	Exemption Applicable	Note Fraction or Percent Exempt (if Applicable)	Exempt Amount of the Chemical from Above (in lbs.): Manufactured	Processed	Otherwise Used
1.					
2. Methyl Alcohol	372.38(d)	Water Lab			42
3. Methyl Alcohol	372.38(d)	Anal. Lab			162
4. Methyl Alcohol	372.38(c)(4)	Maintenance			6
5.					
6.					
7.					
Subtotal:			(A_1)_____lbs	(B_1)_____lbs	(C_1) 210 lbs

Step 3. Calculate the amount subject to threshold: (A-A_1)_____lbs (B-B_1)_____lbs (C-C_1) 109,159 lbs

Compare to thresholds for section 313 reporting: 25,000 lbs 25,000 lbs 10,000 lbs

If any threshold is met, reporting is required for all activities. **Do not submit this worksheet with Form R. Retain for your records.**

APPENDIX

OPTIONAL SECTION 313 REPORTING THRESHOLD WORKSHEET

Facility Name: FMPC

Chemical or Chemical Category: Nitric Acid

Reporting Year: 1989

Date Worksheet Prepared: May 30, 1990

Prepared By: Caran G. Siefert

Step 1. Identify amounts of the chemical manufactured, processed, or otherwise used.

Mixture Name or Other Identifier	Percent by Weight	Information Source	Total Weight (in lbs)	Amount of the Listed Chemical by Activity (in lbs.): Manufactured	Processed	Otherwise Used
1.						
2. Nitric Acid			192,817		186,125	6,692
3.						
4.						
5.						
6.						
7.						
Subtotal:				(A)____ lbs	(B) 186,125 lbs	(C) 6692 lbs

Step 2. Identify exempt forms of the chemical that have been included in Step 1.

Mixture Name as Listed Above	Exemption Applicable	Note Fraction or Percent Exempt (if Applicable)	Exempt Amount of the Chemical from Above (in lbs.): Manufactured	Processed	Otherwise Used
1.					
2. Nitric Acid	372.38 (d)	E.S & H Lab			1239
3. Nitric Acid	372.38 (d)	Anal. Lab			5411
4. Nitric Acid	372.38 (d)	Water Lab			42
5.					
6.					
7.					
Subtotal:			(A_1)____ lbs	(B_1) 0 lbs	(C_1) 6692 lbs

Step 3. Calculate the amount subject to threshold: ($A-A_1$)____ lbs ($B-B_1$) 186,125 lbs ($C-C_1$) 0 lbs

Compare to thresholds for section 313 reporting: 25,000 lbs 25,000 lbs 10,000 lbs

If any threshold is met, reporting is required for all activities. **Do not submit this worksheet with Form R. Retain for your records.**

1405

02

70

APPENDIX

OPTIONAL SECTION 313 REPORTING THRESHOLD WORKSHEET

Facility Name: FMPC

Chemical or Chemical Category: Sulfuric Acid

Reporting Year: 1989

Date Worksheet Prepared: May 30, 1990

Prepared By: Caran G. Siefert

Step 1. Identify amounts of the chemical manufactured, processed, or otherwise used.

Mixture Name or Other Identifier	Percent by Weight	Information Source	Total Weight (in lbs)	Amount of the Listed Chemical by Activity (in lbs.): Manufactured	Processed	Otherwise Used
1.						
2. Sulfuric Acid			113,060			113,060
3.						
4.						
5.						
6.						
7.						
Subtotal:				(A)_____lbs	(B)_____lbs	(C) 113,060 lbs

Step 2. Identify exempt forms of the chemical that have been included in Step 1.

Mixture Name as Listed Above	Exemption Applicable	Note Fraction or Percent Exempt (if Applicable)	Exempt Amount of the Chemical from Above (in lbs.): Manufactured	Processed	Otherwise Used
1.					
2. Sulfuric Acid	372.38 (d)	Water Lab			108
3. Sulfuric Acid	372.38 (d)	E, S & H Lab			108
4.					
5.					
6.					
7.					
Subtotal:			(A_1)_____lbs	(B_1)_____lbs	(C_1) 216 lbs

Step 3. Calculate the amount subject to threshold: ($A-A_1$)_____lbs ($B-B_1$)_____lbs ($C-C_1$) 112,844 lbs

Compare to thresholds for section 313 reporting: 25,000 lbs 25,000 lbs 10,000 lbs

APPENDIX B-5

IMPC SARA 313 - MONTHLY INVENTORY 1989

STOCK NO.	MONTH '89	ACCT. NO.	LBS. USED
CB00201 Hydrochloric Acid	JULY	YMF00-399	4830
	AUGUST	YMF00-399	9660
CB00207 Nitric Acid	JANUARY	YCA01-210	2719
		YJA00-210	9040
		YJB05-210	5650
	FEBRUARY	YJB05-210	10848
	MARCH	YJA00-210	15368
		YJB05-210	34917
	APRIL	YCA01-210	3849
		YCA01-210	(11148)
		YJA00-210	11865
		YJB05-210	23730
	MAY	YCA01-210	(8076)
		YJA00-210	15368
		YJB05-210	4520
	JUNE	YCA01-210	7289
		YJA00-210	4169
		YJB05-210	15199
	JULY	YCA01-210	8519
	AUGUST	YJA00-210	4859
		YJB05-210	113
	SEPTEMBER	YJA00-210	6113
	OCTOBER	MAD00-210	2938
	NOVEMBER	MAD00-210	5921
		MAC00-210	4498
	DECEMBER	MAD00-210	2486
		MAC00-210	5371
CB00270 Sulfuric Acid	JANUARY	YLA01-399	1785
		YLA04-399	5049
	FEBRUARY	YLA01-399	2478
		YLA04-399	22720
		YCA02-210	3661
	MARCH	YLA01-399	765
		YLA04-399	6928
	APRIL	YLA01-399	2205
		YLA04-399	8331
	MAY	YLA01-399	2100
		YLA04-399	12875
	JUNE	YLA01-399	2637
		YLA04-399	6059
	JULY	YLA01-399	945
		YLA04-399	4039
	AUGUST	YLA01-399	2415
		YLA04-399	(724)
	SEPTEMBER	YLA01-399	747
		YLA04-399	7069

APPENDIX B-5

1405

FMPC SARA 313 - MONTHLY INVENTORY 1989

STOCK NO.	MONTH '89	ACCT. NO.	LBS. USED
C800270 Sulfuric Acid	OCTOBER	YLA01-399	1890
		YLA04-399	5554
	NOVEMBER	YLA01-399	1680
		YLA04-399	5427
	DECEMBER	YLA01-399	3180
		YLA04-399	3029
C800293 Methanol	JANUARY	YLA04-399	1164
	FEBRUARY	YLA04-399	727
	MARCH	YLA04-399	2765
	APRIL	YLA04-399	2037
	MAY	YLA04-399	2328
	JUNE	YLA04-399	1164
	JULY	YLA04-399	1164
	AUGUST	YLA04-399	676
	SEPTEMBER	YLA04-399	1164
	OCTOBER	YLA04-399	873
	NOVEMBER	YLA04-399	873
	DECEMBER	YLA04-399	1600

APPENDIX C

FMPC SARA 313

MONTHLY FUEL INVENTORY 1989

APPENDIX C-1

FMPC SARA 313 MONTHLY FUEL INVENTORY - 1989

	Janusry	February	March	April	May	June	July	August	September	October	November	December
Coal LB-501												
receipts (tons)	66	2632	2939	2647	3210	73	4103	3274	936	1037	1173	2718
usage	3137	2951	2869	2032	1621	1145	1028	1209	1121	1673	2420	3433
Propane LB-503												
receipts (gals)	0	0	9002	0	0	0	0	0	0	0	0	0
usage	1830	1228	2066	2418	1341	2270	1962	392	2709	2452	1257	892
Diesel LB-504												
receipts (gals)	0	7477	0	0	0	0	6000	0	0	0	515	0
usage	3601	3002	1650	1137	972	1425	856	747	1804	1362	1402	855
Unl. Gasoline LB-506												
receipts (gals)	1262	4298	1806	3000	2000	1307	3283	2400	1992	1420	3056	2386
usage	3412	2715	3071	2792	2637	1788	2569	2247	1988	2147	2263	3090

APPENDIX D

FMPC SARA 313

OFF-SITE SHIPMENTS 1989

APPENDIX D-1

SITE TOTALS REPORT

Selection Criteria for this Report:

Site Selection. . . . . VAB
Date Range. . . . . CY 1989
Origin. . . . . Feed Materials Production Center (WMCO)

Shipment Type:	OP
Total # of Shipments:	451
Total Weight (#):	9,020 Tons
Total Cost:	$1,195,150.00

APPENDIX D-2

1405

ROLLINS
ENVIRONMENTAL SERVICES (LA) INC.

P.O. Box 74137, Baton Rouge, LA 70874-4137, 504/778-1234 General Offices, 504/778-1242 Sales Office

CERTIFICATE OF DISPOSAL

(NON-OXIDIZING STREAMS)

THIS CERTIFIES THAT ROLLINS ENVIRONMENTAL SERVICES (LA) INC. (RES) HAS PROPERLY DISPOSED OF WASTE UNDER BR 35419, BR 35417 ACCEPTED BY RES ON 11/22/89 BILL OF LADING NUMBER N/A MANIFEST NUMBER See Below TRAILER NUMBER CET 2506 IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS, ORDINANCES AND REGULATIONS.

All drums on manifests LA 1156664 through LA 1156668 were incinerated except drum WCO-30 and drums WCO-91 through WCO-96 (BR 35419) these being stabilized.

THIS CERTIFIES THAT THE ABOVE DESCRIBED WASTE WAS DISPOSED OF BY

X INCINERATION ____ DIRECT LANDFILL

X STABILIZATION/ENCAPSULATION ____ OTHER

ON 12/27/89 (DATE)

ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

BATON ROUGE, LOUISIANA

NAME William B. Keslick

TITLE Chempak QC Supervisor

DATE 1/3/90

Westinghouse Materials
Company of Ohio, Inc.
P. O. Box 398704
Cincinnati, Ohio 45239-8704

Attn: Steve Adkins

APPENDIX D-2

1405

ROLLINS
ENVIRONMENTAL SERVICES (LA) INC.

P.O. Box 74137, Baton Rouge, LA 70874-4137, 504.778-1234 General Offices, 504/778-1242 Sales Office

CERTIFICATE OF DISPOSAL

(NON-OXIDIZING STREAMS)

THIS CERTIFIES THAT ROLLINS ENVIRONMENTAL SERVICES (LA) INC. (RES) HAS PROPERLY DISPOSED OF WASTE UNDER BR 35419, BR 35417 ACCEPTED BY RES ON 11/22/89 BILL OF LADING NUMBER N/A MANIFEST NUMBER See Below TRAILER NUMBER CET 2506 IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS, ORDINANCES AND REGULATIONS.

All drums on manifests LA 1156664 through LA 1156668 were incinerated except drum WCO-30 and drums WCO-91 through WCO-96 (BR 35419) these being stabilized.

THIS CERTIFIES THAT THE ABOVE DESCRIBED WASTE WAS DISPOSED OF BY

X INCINERATION _____ DIRECT LANDFILL

X STABILIZATION/ENCAPSULATION _____ OTHER

ON 12/27/89 (DATE)

ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

BATON ROUGE, LOUISIANA

NAME William B. Keslick

TITLE Chempak QC Supervisor

DATE 1/3/90

Westinghouse Materials
Company of Ohio, Inc.
P. O. Box 398704
Cincinnati, Ohio 45239-8704

Attn: Jim Stoffer

Westinghouse Materials Company of Ohio
BOX 398704, CINCINNATI, OHIO 45239-8704
PHONE 513-738-6200

APPENDIX D-3

MISCELLANEOUS SHIPPING ORDER

MS 64057794

Date April 14, 1989

SHIP TO.	STREET:	CITY & STATE:
HVC DALY, INC.	4600 Dues Drive	Cincinnati, Ohio

VIA. PTI Carrier

GROSS.	TARE.	NET:	PREPAID:	COLLECT.
64,000 lbs.	40,240	23,760	XX	

Requested By J. A. Schneider (ORIGINATOR)

QUANTITY	FULL DESCRIPTION
1 Truckload	Anhydrous Ammonia - Load No. 1 Westinghouse Materials Company of Ohio, Fernald, Ohio Unit Price: $25.00 per Ton Net Weight: 23,760 lbs.

REASON FOR SHIPMENT: Sale of Government-Owned Property to the Public

GIVE LOCATION IF NOT DELIVERED TO SHIPPING: Ammonia Tank Farm

REFERENCE OR PURCHASE ORDER NO.:	CHARGE:
SD-400	ZBF00

Approved By J. Allen (PURCHASING)

(TO BE FILLED IN BY TRANSPORTATION)

Date Shipped 4-18-89

Bill of Lading No.

Received in Good Order By Jim Mayfield

DISTRIBUTION OF COPIES

1	(White) Transportation (RECORD COPY)	5	(Salmon) Stores (RECORD COPY)
2	(Pink) Accounting - Accounts Payable (RECORD COPY)	6	(Canary) Receiving
3	(Blue) Purchasing		Originator
4	(Goldenrod) Consignee		

80

Westinghouse Materials Company of Ohio
BOX 398704, CINCINNATI, OHIO 45239-8704
PHONE 513-738-6200

MISCELLANEOUS SHIPPING ORDER

APPENDIX 1405-3

MSO No. 57804

Date April 18, 1989

TO:	STREET:	CITY & STATE:
HVC Daly, Inc.	4600 Dues Drive	Cincinnati, OH 45246

PTI Carrier

GROSS:	TARE:	NET:	PREPAID:	COLLECT
49,060	40240	8,820		

Requested By J. A. Schneider (ORIGINATOR)

QUANTITY	FULL DESCRIPTION
1 Truckload	Anhydrous Ammonia - Load No. 2 Westinghouse Materials Company of Ohio, Fernald, Ohio Unit Price: $25.00 per Ton Net Weight: 8,820 lbs.

REASON FOR SHIPMENT:
Sale of Government-Owned Property to the Public

GIVE LOCATION IF NOT DELIVERED TO SHIPPING:
Ammonia Tank Farm

REFERENCE OR PURCHASE ORDER NO.: SD-400

CHARGE: ZBF00

Approved By J. Allen (PURCHASING)

(TO BE FILLED IN BY TRANSPORTATION)

Date Shipped 4-19-89

Bill of Lading No.

Received in Good Order By Gerry Gorney PTC.

DISTRIBUTION OF COPIES

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2	(Pink) Accounting - Accounts Payable (RECORD COPY)		y) Receiving
3	(Blue) Purchasing		) Originator
4	(Goldenrod) Consignee		

81