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LIQUID MIXED WASTE PROJECT

01/12/95

DOE-0419-95
DOE-FN OEPA
300
REPORT

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

JAN 12 1995

DOE-0419-95

Mr. Paul Pardi
Ohio Environmental Protection Agency
401 East 5th Street
Dayton, Ohio 45402-2911

Dear Mr. Pardi:

LIQUID MIXED WASTE PROJECT

Reference : DOE-0395-95, W. Quaider to P. Pardi, same subject, dated January 6, 1995.

This letter is in response to the November 30, 1994, conference call and subsequent discussions with your office, in which additional information regarding the Liquid Mixed Waste (LMW) Project was requested. As per your request, please find enclosed the following information:

1. K-25 Toxic Substance Control Act (TSCA) Incinerator Burn Schedule
2. K-25 TSCA Incinerator Waste Acceptance Criteria
3. Compatibility Test Data
4. Characterization Data / Summary Table
5. Tank and Containment Specifications
6. Diagram of Work Area
7. Photographs of Work Area

The Department of Energy, Fernald Area Office (DOE-FN) plans the LMW project to transfer combustible and ignitable liquid mixed waste from drums and various small containers to a series of temporary storage tanks for consolidation, sampling and ultimately, shipment to the K-25 TSCA Incinerator for incineration. This project was described conceptually in the Draft Site Treatment Plan submitted to the Ohio Environmental Protection Agency (OEPA) in August of 1994. This project involves approximately 2,300 drums of the subject waste.

Comparison of the Fernald Environmental Management Project (FEMP) waste characterization data for the subject waste to the TSCA Waste Acceptance Criteria indicates that the subject waste is within the acceptance limits of the TSCA Incinerator. As a contingency, if the subject waste is not found to be acceptable after sampling and analysis, FEMP may perform one or more of the following activities:

A. Incorporate the waste into the Chemical Treatment Project scheduled to begin in Fiscal Year (FY) 1996.

B. Store the waste in the storage vessels until alternate treatment is implemented.

C. Pump the waste back into drums until alternate treatment is implemented.

This project will be conducted under the guidance and authority of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) on-site response action #9, and no federal, state or local permits will be pursued. The project will comply with the substantive requirements of applicable Resource Conservation and Recovery Act, 1976 (RCRA) regulations as well as applicable or relevant and appropriate requirements under other federal, state and local environmental regulations.

As previously discussed, in order to support the project schedule, your review of the enclosed information is requested as soon as possible. We would be pleased to arrange a tour of the work site or a meeting, if either would be helpful to you.

If you have any questions regarding this project, please contact Ed Skintik at (513) 648-3151.

Sincerely,

Wally Quaider

Walter J. Quaider
Acting Associate Director
Office of Safety & Assessment

FN:Skintik

Enclosures: As Stated

cc w/o enc:

T. Schneider, OEPA-Dayton
J. Saric, USEPA-V, 5HRE-8J
J. W. Reising, DOE-FN
J. M. Sattler, DOE-FN
T. D. Hagen, FERMCO
R. F. Schulten, FERMCO
M. L. West, FERMCO
AR Coordinator, FERMCO
RCRA Operating Record, FERMCO

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LIQUID MIXED WASTE PROJECT

JANUARY 12, 1995

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Bulk Liquids Storage Tank & Secondary Containment Specifications

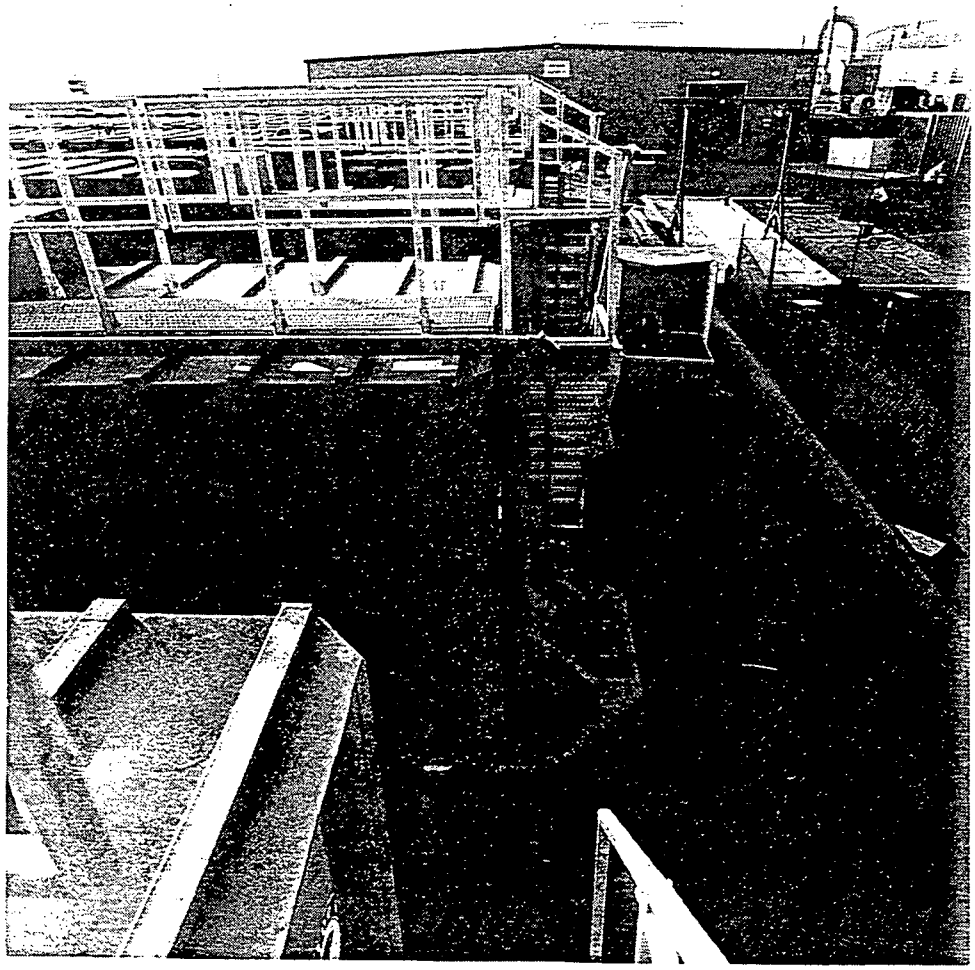
Information Package

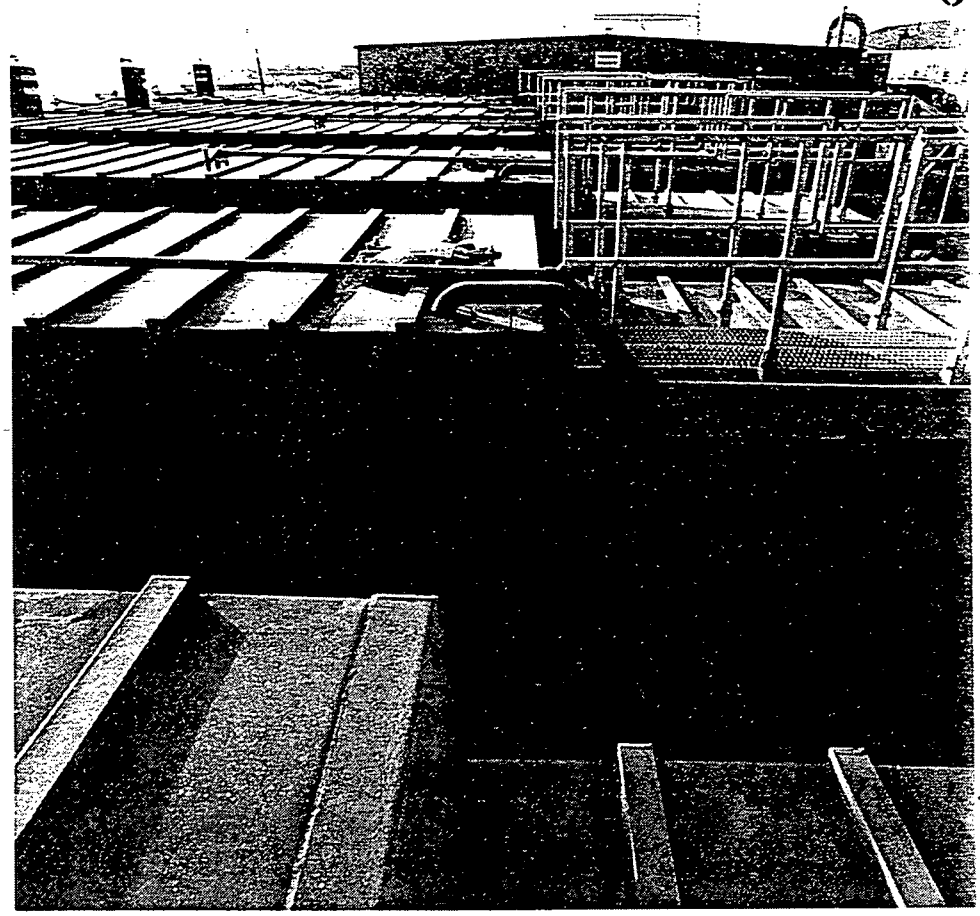
This package contains the procurement specifications used to select a qualified vendor to provide the services and equipment needed to implement the Ignitable and Combustible Liquid Project. Included in the package are:

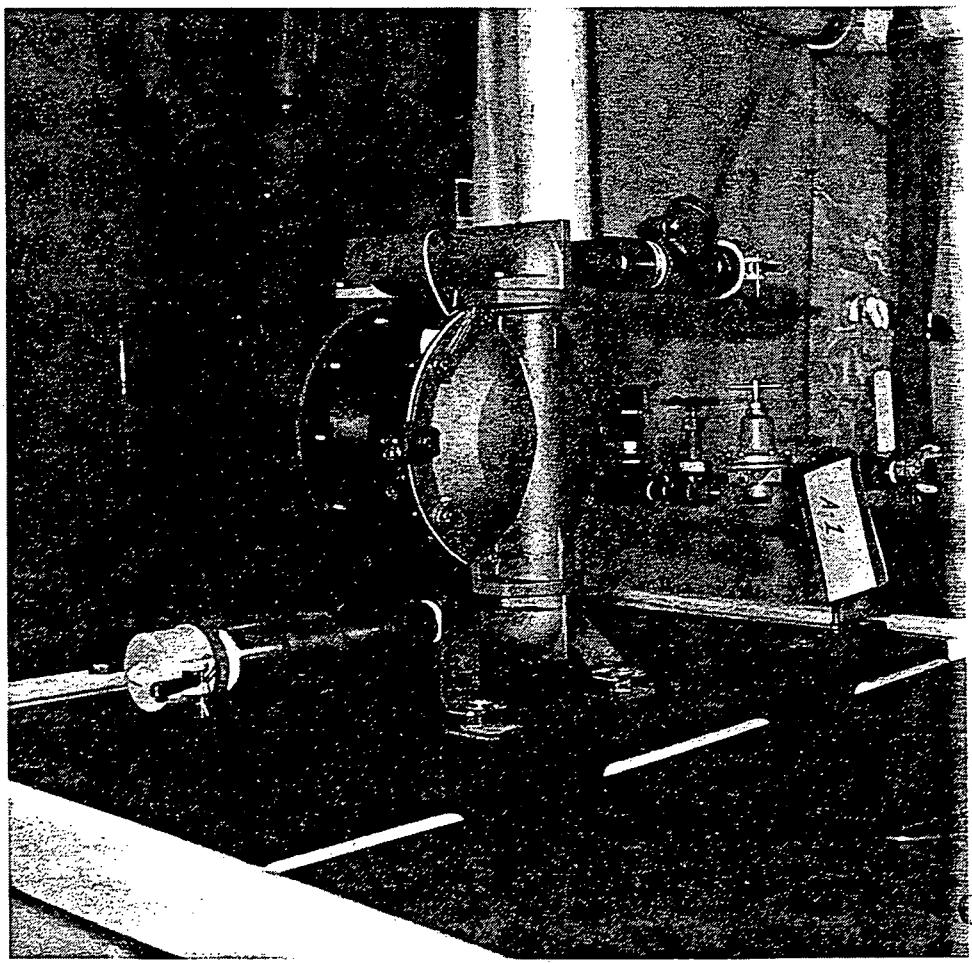
- Section C, Statement of Work;
- Section D, Packaging and Marking;
- Section E, Inspection and Acceptance;
- Project Overview,
  Figure 1, Site Plan - Liquid Mixed Waste Transfer Project,
  Figure 2, Site Plan - Work Areas,
  Figure 3, Bulk Storage Tank Diagram;
- Project Work Area Photographs.

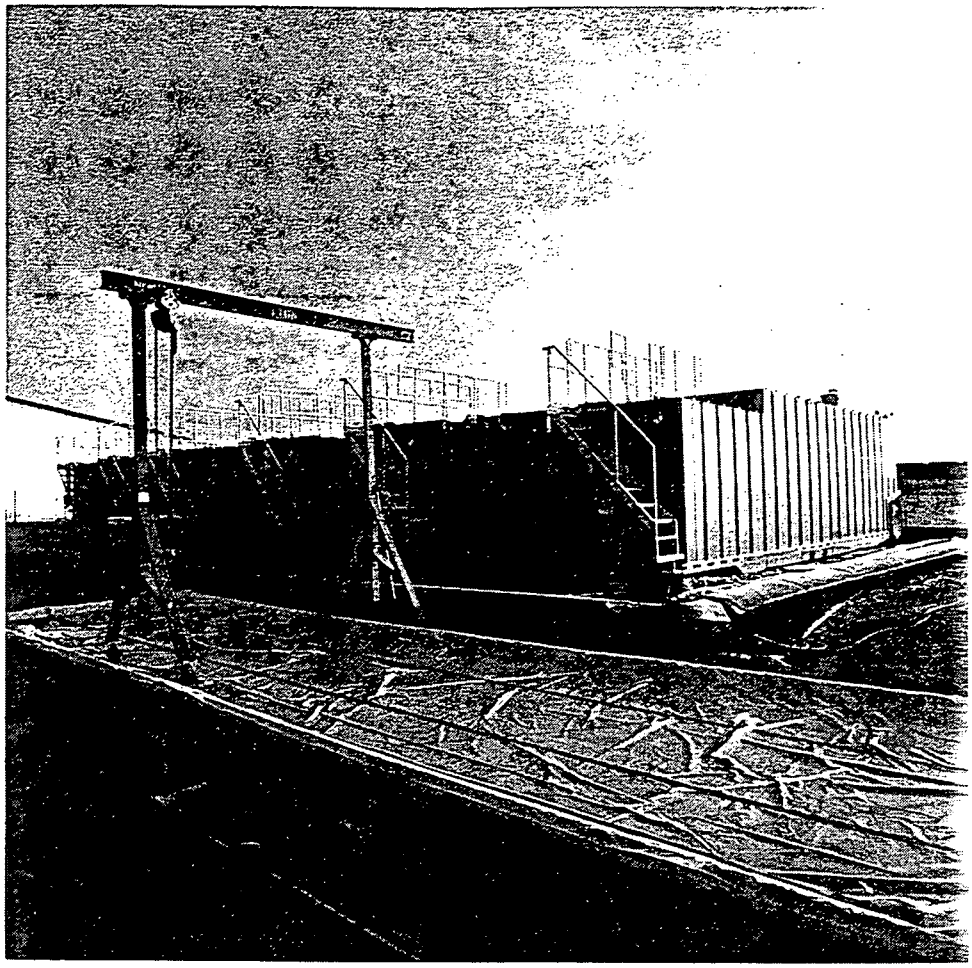
The vendor selected was awarded a contract to provide the materials and equipment specified. Materials and equipment were inspected and accepted by FERMCO Quality Assurance Engineering and by Hazardous and Mixed Waste Management Personnel, delivered to the site and set up in the designated work area.

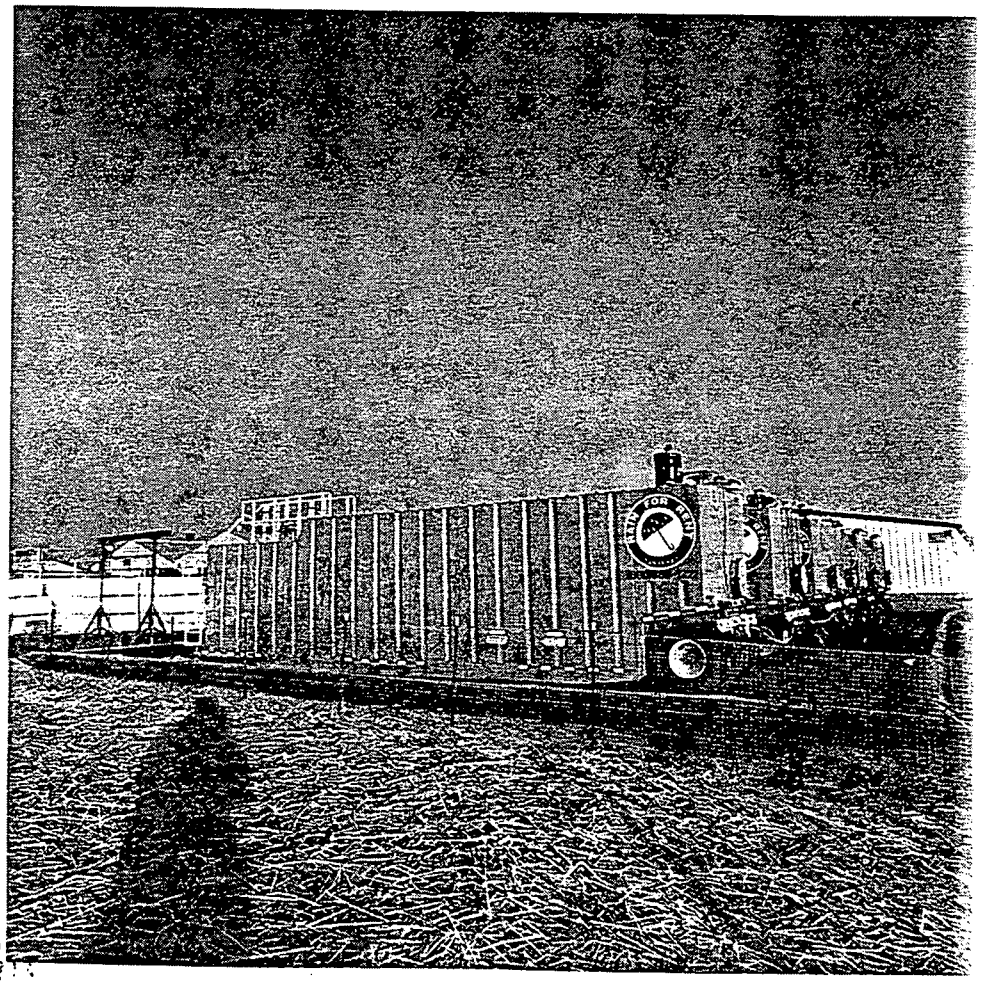
Photographs included in this package were taken at the work area after equipment was delivered and set up.











SECTION C
STATEMENT OF WORK

C.1 SPECIFICATIONS

Rental of six (6) tanks for a period of up to 17 months to begin at the time of tank delivery. Delivery, set-up, and pick-up of the tanks to be the responsibility of the vendor. The tanks are required to meet these specifications at a minimum. Please see Attachment 1 in Section J for drawing.

1. Tank must have an 18,000 to 21,000 gallon capacity.

2. Tank must be of Steel Construction.

3. Tank must be mobil.

4. Tank must be approved for storage and dispensing of Flammable Liquids.

5. Tank must be designed so that it is easily decontaminated.

6. Tank must have a level indicator with an alarm to prevent over-filling.

7. Tank must be equipped with stairs or a ladder and hand rails to allow safe access and provide safe work space on top.

8. Tank must be equipped with bottom loading and unloading valves.

9. Tank must be equipped with 2 inch Female Cam Loc fittings for loading and unloading.

10. Tank must be equipped with gaskets compatible with strong Halogenated Solvents.

11. Tank must have a V-shaped bottom to facilitate complete transfer of all contained liquids.

12. Supplier must provide secondary containment for tank(s):

    - Single containment area for entire temporary tank farm
    - Volume adequate to contain tank volume, 5.4" of rain, and provide 6" of free board
    - Horizontal dimensions less than or equal to 60' x 90'
    - Construction of material suitable to contain waste slurries, soluable and insoluable oils, waste paint, sump liquor, solvents and organic chemicals, TBP and kerosene mixtures

13. Tank must include documentation certifying hydrostatic testing was conducted and that Tank(s) are liquid tight.

14. Tank must be equipped with Grounding and Bonding Cables.

C.2 DOMESTIC END PRODUCTS

Only those items considered to be domestic end products in accordance with General Provision Article A.13, Buy American Act, shall be provided to FERMCO.

C.3 BUY AMERICAN ACT

Notwithstanding FERMCO General Provision Article A.13, Buy American Act, the Seller shall be responsible for all transportation costs associated with the delivery of any foreign end product(s) and its return to the Seller's facility. In addition, the Seller shall replace any furnished foreign end product with a domestic end product at the prices identified in this subcontract.

SECTION D
PACKAGING AND MARKING

D.1 PACKAGING

Packaging of materials or reports for mail or commercial transport shall be in compliance with all applicable Federal, state and local laws and regulations, DOE orders, and sound business practice. Transportation via mail and commercial carrier shall be by the most efficient and economical means that meets each Purchase Order release requirement.

D.2 MARKING

Each package, report or other deliverables shall be accompanied by a letter or other document which identifies the Purchase Order number and the release number under which the item is being delivered.

SECTION E
INSPECTION AND ACCEPTANCE

E.1 INSPECTION

Inspection of all items under this subcontract shall be accomplished by a duly authorized FERMCO representative in accordance with General Provisions clause A.58 entitled "Inspection of Supplies".

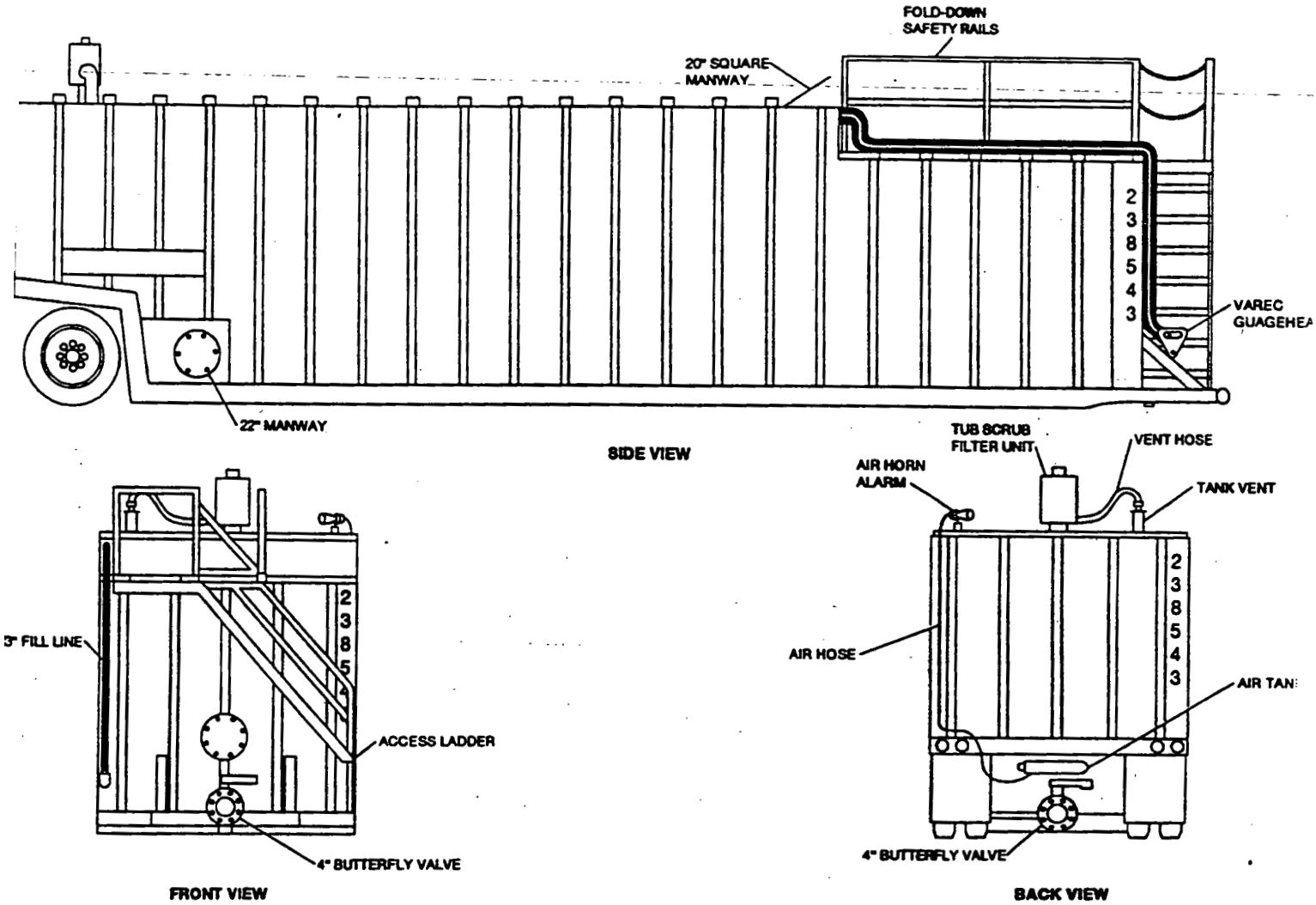


FIGURE 2: BULK STORAGE TANK

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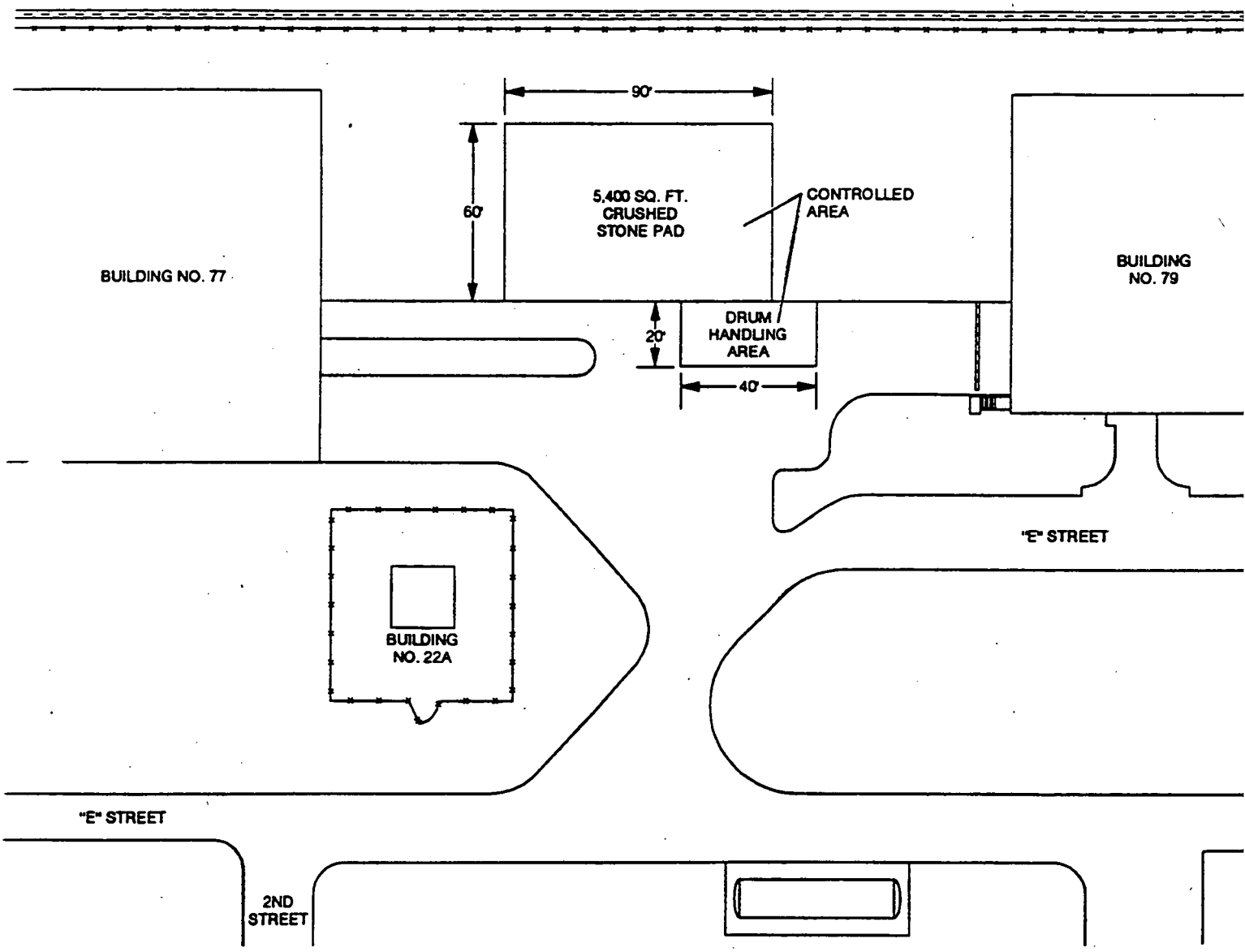

FIGURE 1: SITE PLAN - MIXED LIQUID WASTE TRANSFER PROJECT

PROJECT OVERVIEW

The areas where most of the project activities will take place are the bulk storage tank pad area and the drum handling area. The drum handling area has walk-in and drive-through control points. Figure 2 shows the site plan work areas.

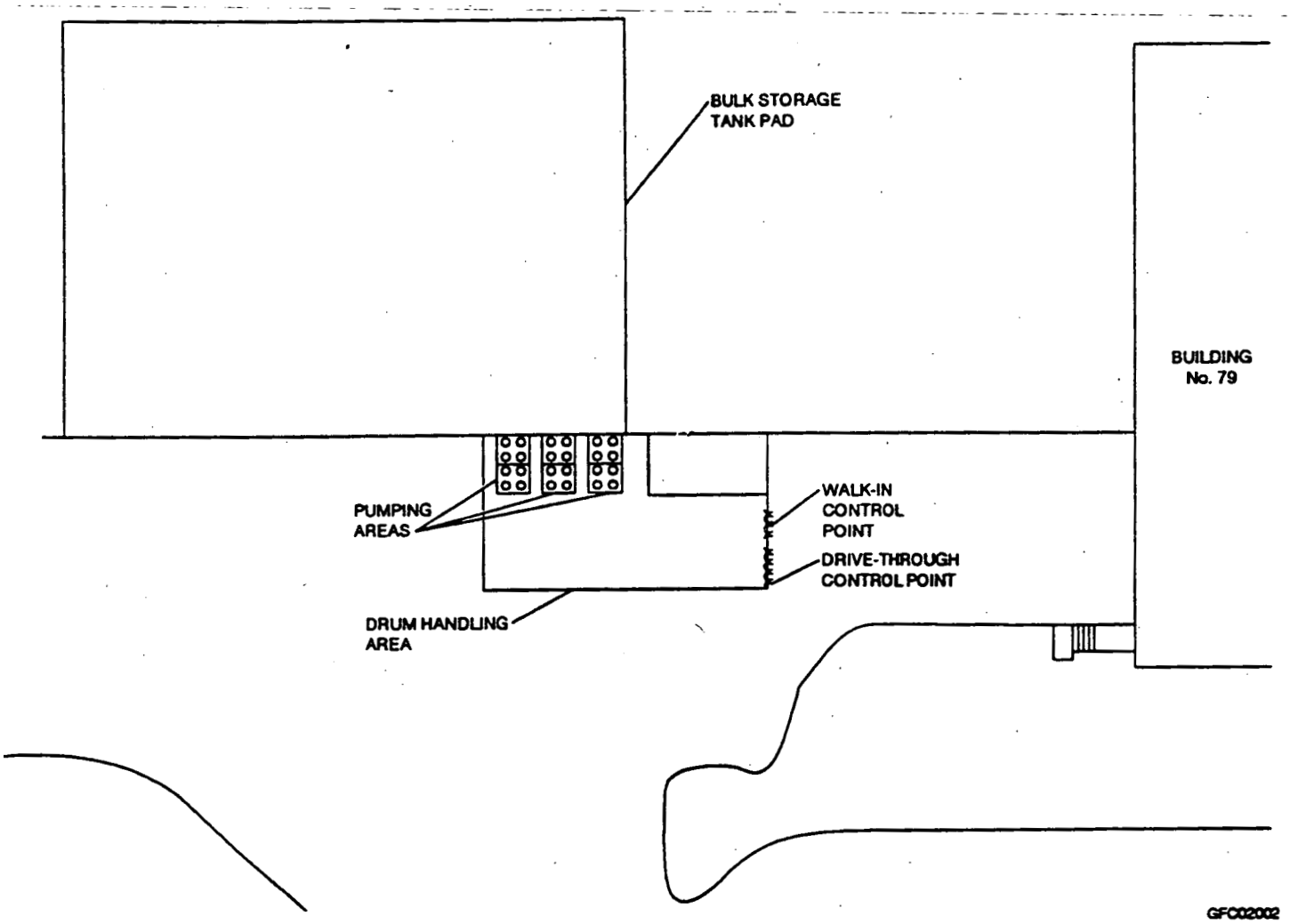

FIGURE 2: SITE PLAN WORK AREAS

TSCA Incinerator FY-95 Burn Plan & Waste Acceptance Plan

Information Package

This package provides information about the commitment to send waste from the FEMP to the K-1435 TSCA Incinerator during FY-95. FEMP waste designated for treatment at the TSCA Incinerator during FY-95 represents a substantial portion of the planned work at the K-1435 facility. The ability of the FEMP to meet scheduled commitments for waste shipments to the Incinerator will have a significant impact on MMES's ability to meet TSCA Incinerator FY-95 performance objectives.

This package contains the K-1435 TSCA Incinerator's FY-95 (incinerable liquids) Burn Plan and the Martin Marietta Energy Systems (MMES), Inc., Waste Acceptance Plan and Analytical Protocol for the Toxic Substances Control Act Incinerator. Specifically the package contains the following:

- TSCA Incinerator Liquid Waste Burn Plan and Summary Burn Schedule for FY1995
- TSCA Incinerator Fiscal Year (FY) 1995 Draft Burn Plan for Incinerable Liquid Waste
- Attachment 1, "Total Incinerable Waste Inventory"
  (Total volume of incinerable liquid waste, as of 6-94, stored at the DOE sites on the list)
- Attachment 2, "Total Incinerable Waste Generation Projections"
  (Estimates/Projections of the total volume of incinerable liquid wastes, in pounds (LBS), that will be generated as a result of ongoing activities, at the DOE sites listed, during FY-95 and FY-96)
- Attachment 3, "Monthly Burn Allocation Matrix for FY-95"
  (The volume of waste, in pounds (LBS), allotted to each of the generators (DOE Sites) on the list, by calendar month, for the fiscal year, 1995)
  (REVISED SCHEDULE ATTACHED)
- Attachment 4, "Quarterly Burn Plan Allocation Matrix for FY1995"
  (The volume of waste, in pounds (LBS), allotted to each of the generators (DOE Sites) on the list, by calendar quarter, for the fiscal year, 1995)
- Attachment 5, "TSCA Incinerator FY 1995 Burn Plan Implementation Issues"
  (Issues specific to each generator (DOE Site), that need to be completed and/or addressed/approved before waste shipments will proceed to the TSCA Incinerator)
- Martin Marietta Energy Systems, Inc., "Waste Acceptance Plan and Analytical Protocol for the Toxic Substances Control Act Incinerator"

Revision 1
November 28, 1994

TSCA Incinerator Liquid Waste Burn Plan and Summary Burn Schedule for FY1995

Site	Waste Group	FY1995 Burn Plan (lb)	Summary Burn Schedule (lb)											
			Oct 199[illegible]	Nov 1994	Dec 1994	Jan 1995	Feb 1995	Mar 1995	Apr 1995	May 1995	Jun 195	Jul 1995	Aug 1995	Sep 1995
K-25	K001	1,482,000	[illegible]	0	97,000	83,000	236,250	213,250	139,000	0	172,50	96,500	196,500	248,000
	Total	1,482,000	[illegible]	0	97,000	83,000	236,250	213,250	139,000	0	172,50	96,500	196,500	248,000
Y-12	Y001	640,000	[illegible]	0	0	0	86,250	13,250	0	0	150,50	130,000	130,000	130,000
	Total	640,000	[illegible]	0	0	0	86,250	13,250	0	0	150,50	130,000	130,000	130,000
ORNL	X001	132,000	[illegible]	0	0	67,000	0	0	0	14,000	28,00	0	0	23,000
	Total	132,000	[illegible]	0	0	67,000	0	0	0	14,000	28,00	0	0	23,000
PORTS	C005	500,000	[illegible]	0	0	100,000	150,000	100,000	0	0	50,00	100,000	0	0
	Total	500,000	[illegible]	0	0	100,000	150,000	100,000	0	0	50,00	100,000	0	0
PGDP	P001	302,000	[illegible]	0	153,000	0	0	0	74,500	74,500	0	0	0	0
	P003	27,500	[illegible]	0	0	0	27,500	0	0	0	0	0	0	0
	P005	223,500	[illegible]	0	0	0	0	74,500	0	0	0	74,500	74,500	0
	Total	553,000	[illegible]	0	153,000	0	27,500	74,500	74,500	74,500	0	74,500	74,500	0
FERMCO	F005	693,000	[illegible]	0	0	0	0	99,000	99,000	99,000	99,00	99,000	99,000	99,000
	Total	693,000	[illegible]	0	0	0	0	99,000	99,000	99,000	99,00	99,000	99,000	99,000
RMI	R005	0	[illegible]	0	0	0	0	0	0	0	0	0	0	0
	Total	0	[illegible]	0	0	0	0	0	0	0	0	0	0	0
Grand Total		4,000,000	[illegible]	0	250,000	250,000	500,000	500,000	312,500	187,500	500,00	500,000	500,000	500,000
ORR		2,254,000	[illegible]	0	97,000	150,000	322,500	226,500	139,000	14,000	351,00	226,500	326,500	401,000
Off ORR		1,746,000	[illegible]	0	153,000	100,000	177,500	273,500	173,500	173,500	149,00	273,500	173,500	99,000

Waste Group Descriptions

Site	Waste Group	Description
PORTS	C005	NON FCA
FERMCO	F005	NON FCA
K-25	K001	RCRA/LDR FFCA APPENDIX A
PGDP	P001	RCRA/LDR FFCA APPENDIX A
	P003	TSCA/PCB FFCA
	P005	NON FCA
RMI	R005	NON FCA
ORNL	X001	RCRA LDR FFCA APPENDIX A
Y-12	Y001	RCRA LDR FFCA APPENDIX A

Post-it® Fax Note 7671	Date 1-5-95	# of pages ▶ 1
To Kevin Cossan	From B Sagalen	
Co./Dept.	Co.	
Phone # 6458	Phone # (615) 576-4976	
Fax # (513) 738-8 7386958	Fax #	

MARTIN MARIETTA

6609

RTIN MARIETTA ENERGY SYSTEMS, INC.

POST OFFICE BOX 2003
OAK RIDGE, TENNESSEE 37831

August 12, 1994

Distribution

Draft TSCA Incinerator Burn Plan for Fiscal Year (FY) 1995

Please review the enclosed information supporting the TSCA Incinerator burn plan for incinerable liquid waste for FY 1995. Your review should include concurrence and approval of the burn capacity allocations for your site and completion of the site issues for implementation of the burn plan. The list of issues is presented in Attachment 5.

I would like to issue the final burn plan and configuration management requirements by September 1, 1994. Thereafter, the burn plan will be maintained current using configuration management. To meet this schedule please submit your comments via fax to me at (615) 576-6222, or Brenda Snyder at (615) 576-5380 no later than August 19, 1994.

If you have any questions, please contact me at (615) 576-6797.

Sincerely,

Angel L. Rivera

Angel L. Rivera, K-1037, MS-7357
Energy Systems Waste Management Organization

ALR:tmh - ESWMO(OI):94-035

Enclosures

c/enc: V. Adams
P. A. Flowers
C. E. Frye
L. J. Mezga
F. Perez
W. K. Simon
B. S. Snyder
S. T. Wright
File - ALR

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RMI Company Extrusion Plant

M. L. Johnson
D. Kniss

TSCA INCINERATOR FISCAL YEAR (FY) 1995 BURN PLAN FOR INCINERABLE LIQUID WASTE

On July 28, 1994, a meeting was held at the Garden Plaza Hotel in Oak Ridge, Tennessee to develop the TSCA Incinerator burn plan for incinerable liquid waste for FY 1995. The following sites representatives participated in this planning activity:

K-25 Site, Mark Saunders
Y-12 Plant, Chuck Eblen
Oak Ridge National Laboratory (ORNL), Jeff Gilpin
Paducah Gaseous Diffusion Plant (PAD), Richard Kuehn
FERMCO, Kevin Crossen, Robert F. Schulten
RMI, M. Lyn Johnson
TSCA Incinerator, Brenda Snyder
Angel L. Rivera, Energy Systems Waste Management Organization Central
Kevin Rarsh, ORNL Computing Applications Division

Table 1 presents the TSCA Incinerator burn targets for liquid waste for FY 1995.

Table 1
Liquid Waste Burn Plan for FY 1995

Site	Burn Target (lb)	Percent Allocation
K-25	1,475,000	36.9
Y-12	800,000	20.0
ORNL	132,000	3.3
Portsmouth Gaseous Diffusion Plant (PORTS)	500,000	12.5
PGDP	400,000	10.0
FERMCO	693,000	17.3
RMI	0	0
Grand Total	4,000,000	100
Total Oak Ridge Reservation (ORR)	2,407,000	60.2
Total Off-ORR	1,592,000	39.8

Additional information supporting the development and implementation of the FY 1995 Burn Plan is presented in the following attachments for your review and comment.

- **Attachment 1** provides a summary of the incinerable liquid waste inventories at your site as of October 1994. A total liquid waste inventory of 5,872,032 pounds (lbs) was used as basis for the FY 1995 Burn Plan.

- **Attachment 2** provides estimates of the projected generation rates for FY 1995 and FY 1996. These generation rates will be used in updating the **Long-Range Burn Plan**.

- **Attachment 3** presents the burn targets by month for FY 1995. These targets are to be used as guidance for burn scheduling. Burn scheduling include waste selection, sampling, analysis, issue the requests for incineration, shipment, incineration, and certification.

- **Attachment 4** presents the burn targets by fiscal quarter. These targets will be used to report progress to the Department of Energy (DOE) Oak Ridge Operations Office (ORO) in the implementation for the burn plan.

- **Attachment 5** presents a list of issues that each site identified as significant in the implementation of the burn plan. Please review this issues as applicable to your site. Action plans will be developed for the resolution of these issues.

Information on notification requirements for corrosive (D002) waste treated at non-wastewater treatment facilities and ignitable (D001) waste with less than 10 percent total organic carbon will be distributed at a later date. If you found any reference containing this information please let me know.

I would like to propose the following implementation progress tracking and reporting requirements for this plan:

(1) Monthly progress reports to the sites on the progress and status of the following elements of the burn schedule to be maintained by Brenda Snyder.

- site requests for changes to the original burn targets
- revised burn targets (TSCA Incinerator)
- revised burn targets (sites)
- waste characterization
- requests for incineration
- waste acceptance
- shipment schedules
- waste received
- waste treated
- certificate of destruction

(2) Quarterly progress reports to DOE/ORO on revised burn targets, actual burn, and variances.

The proposed schedule in support of implementation of the FY 1995 burn plan is listed in Table 2.

Table 2
Propose Schedule in Support of FY 1995 Burn Plan

Activity	Target Date
Receive comments on the Draft FY 1995 Burn Plan	August 19, 1994
Resolve issues and issue Final FY 1995 Burn Plan for Configuration Management	September 1, 1994
Monthly Status and Implementation Progress Reports to the Sites on the FY 1995 Burn Plan	October 15, 1994 November 15, 1994 December 15, 1994 January 15, 1995 February 15, 1995 March 15, 1995 April 15, 1995 May 15, 1995 June 15, 1995 July 15, 1995 August 15, 1995 September 15, 1995
Quarterly Progress Reports to DOE/ORO on Implementation of the FY 1995 Burn Plan	January 31, 1995 April 31, 1995 July 31, 1995 October 31, 1995

Attachment 1

Total Incinerable Waste Inventory

Site	Waste Group	Most Recent Inventory	Prior Inventory	Inventory Date
K-25	K001	1,894,656		10/1994
	SITE TOTAL	1,894,656		
Y-12	Y001	552,000		10/1994
	SITE TOTAL	552,000		
ORNL	X001	132,000		10/1994
	SITE TOTAL	132,000		
'ORTS	C005	947,000		10/1994
	SITE TOTAL	947,000		
PGDP	P001	370,000		10/1994
	P003	363,796		10/1994
	P005	663,190		10/1994
	SITE TOTAL	1,396,986		
FERMCO	F005	872,000		10/1994
	SITE TOTAL	872,000		
RMI	R005	77,390		10/1994
	SITE TOTAL	77,390		
	GRAND TOTAL	5,872,032		

Attachment 2

Total Incinerable Waste Generation Projections

Burn Period	Site	Projected Generation
FY1995	K-25	25,000
	Y-12	300,000
	ORNL	42,000
	PORTS	362,909
	PGDP	150,000
	FERMCO	50,000
	RMI	7,200
	TOTAL	937,109
FY1996	K-25	25,000
	Y-12	200,000
	ORNL	42,000
	PORTS	306,000
	PGDP	150,000
	FERMCO	100,000
	TOTAL	823,000

Attachment 3

Monthly Burn Allocation Matrix for FY1995

Waste Group	Site	October	November	December	January	February	March	April	May	June	July	August	September	Total
K001	K-25	0	0	0	173,000	236,250	213,250	139,000	0	172,500	96,500	196,500	248,000	1,475,000
SITE TOTAL		0	0	0	173,000	236,250	213,250	139,000	0	172,500	96,500	196,500	248,000	1,475,000
Y001	Y-12	0	0	0	160,000	86,250	13,250	0	0	150,500	130,000	130,000	130,000	800,000
SITE TOTAL		0	0	0	160,000	86,250	13,250	0	0	150,500	130,000	130,000	130,000	800,000
X001	ORNL	0	0	0	67,000	0	0	0	14,000	28,000	0	0	23,000	132,000
SITE TOTAL		0	0	0	67,000	0	0	0	14,000	28,000	0	0	23,000	132,000
C005	PORTS	0	0	0	100,000	150,000	100,000	0	0	50,000	100,000	0	0	500,000
SITE TOTAL		0	0	0	100,000	150,000	100,000	0	0	50,000	100,000	0	0	500,000
P001	PGDP	0	0	0	0	0	0	74,500	74,500	0	0	0	0	149,000
P003	PGDP	0	0	0	0	27,500	0	0	0	0	0	0	0	27,500
P005	PGDP	0	0	0	0	0	74,500	0	0	0	74,500	74,500	0	223,500
SITE TOTAL		0	0	0	0	27,500	74,500	74,500	74,500	0	74,500	74,500	0	400,000
F005	FERMCO	0	0	0	0	0	99,000	99,000	99,000	99,000	99,000	99,000	99,000	693,000
SITE TOTAL		0	0	0	0	0	99,000	99,000	99,000	99,000	99,000	99,000	99,000	693,000
R005	RMI	0	0	0	0	0	0	0	0	0	0	0	0	0
SITE TOTAL		0	0	0	0	0	0	0	0	0	0	0	0	0
GRAND TOTAL		0	0	0	500,000	500,000	500,000	312,500	187,500	500,000	500,000	500,000	500,000	4,000,000

Attachment 4

Quarterly Burn Allocation Matrix for FY1995

Waste Group	Description	Site	Oct - Dec	Jan - Mar	Apr - Jun	Jul - Sep	Total
K001	RCRA LDR FFCA APPENDIX A	K-25	0	622,500	311,500	541,000	1,475,000
SITE TOTAL			0	622,500	311,500	541,000	1,475,000
Y001	RCRA LDR FFCA APPENDIX A	Y-12	0	259,500	150,500	390,000	800,000
SITE TOTAL			0	259,500	150,500	390,000	800,000
X001	RCRA LDR FFCA APPENDIX A	ORNL	0	67,000	42,000	23,000	132,000
SITE TOTAL			0	67,000	42,000	23,000	132,000
C005	NON FFCA	PORTS	0	350,000	50,000	100,000	500,000
SITE TOTAL			0	350,000	50,000	100,000	500,000
P001	RCRA LDR FFCA APPENDIX A	PGDP	0	0	149,000	0	149,000
P003	TSCA PCB FFCA	PGDP	0	27,500	0	0	27,500
P005	NON FFCA	PGDP	0	74,500	0	149,000	223,500
SITE TOTAL			0	102,000	149,000	149,000	400,000
F005	NON FFCA	FERMCO	0	99,000	297,000	297,000	693,000
SITE TOTAL			0	99,000	297,000	297,000	693,000
R005	NON FFCA	RMI	0	0	0	0	0
SITE TOTAL			0	0	0	0	0
GRAND TOTAL			0	1,500,000	1,000,000	1,500,000	4,000,000

Attachment 5

TSCA Incinerator FY 1995 Burn Plan Implementation Issues

K-25 Site

(1) There is a potential for a reduction of blending capability of tanks K-1202.

Y-12 Plant

(1) About 40,000 gallons of liquid waste containing the F039 Environmental Protection Agency waste code is being stored at the Y-12 Plant. The TSCA Incinerator does not have this code in the Resource Conservation and Recovery Act Permit.

(2) There is a Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) issue with burning waste stored in OD-9.

ORNL

(1) Acceptance of Sr-90 and Cs-137 containing liquid waste at the TSCA Incinerator.

PORTS

(1) A maximum shipment of 500,000 lbs of liquid incinerable waste per year was identified as the PORTS limit.

PAD

(1) PAD does not have bulking capabilities at this time. The tank used in the past for blending is down for repairs. Support from the TSCA Incinerator will be needed during FY 1995 to meet the burn targets.

(2) All the waste is in drums. There is lack of storage space for waste selection and sampling.

(3) Manpower is limited for handling, sampling, and bulking.

(4) Funding constraints.

FERMCO

(1) All the waste is stored in drums. A bulking program is being implemented to support the burn plan for FY 1995.

(2) Acceptance of the TSCA Incinerator of liquid incinerable waste generated during CERCLA activities.

RMI

(1) Sampling is in progress. There is a need to request approval from the State of Tennessee for shipping and incineration of RMI liquid waste.

K/TSCA-030

WASTE ACCEPTANCE PLAN

AND

ANALYTICAL PROTOCOL FOR THE

TOXIC SUBSTANCES CONTROL ACT

INCINERATOR

July 1993

Prepared by:
Oak Ridge K-25 Site
Oak Ridge, Tennessee 37831
Operated by
MARTIN MARIETTA ENERGY SYSTEMS, INC.
for the
U. S. Department of Energy
under contract DE-AC05-84OR21400

K/TSCA-030

WASTE ACCEPTANCE PLAN

AND

ANALYTICAL PROTOCOL FOR THE

TOXIC SUBSTANCE CONTROL ACT

INCINERATOR

Effective Date of Plan: 8-2-93

Prepared by: B. S. Snyder
Burn Plan Manager

6-30-93
Date

Fidel Perez
Technical Operations

6-30-93
Date

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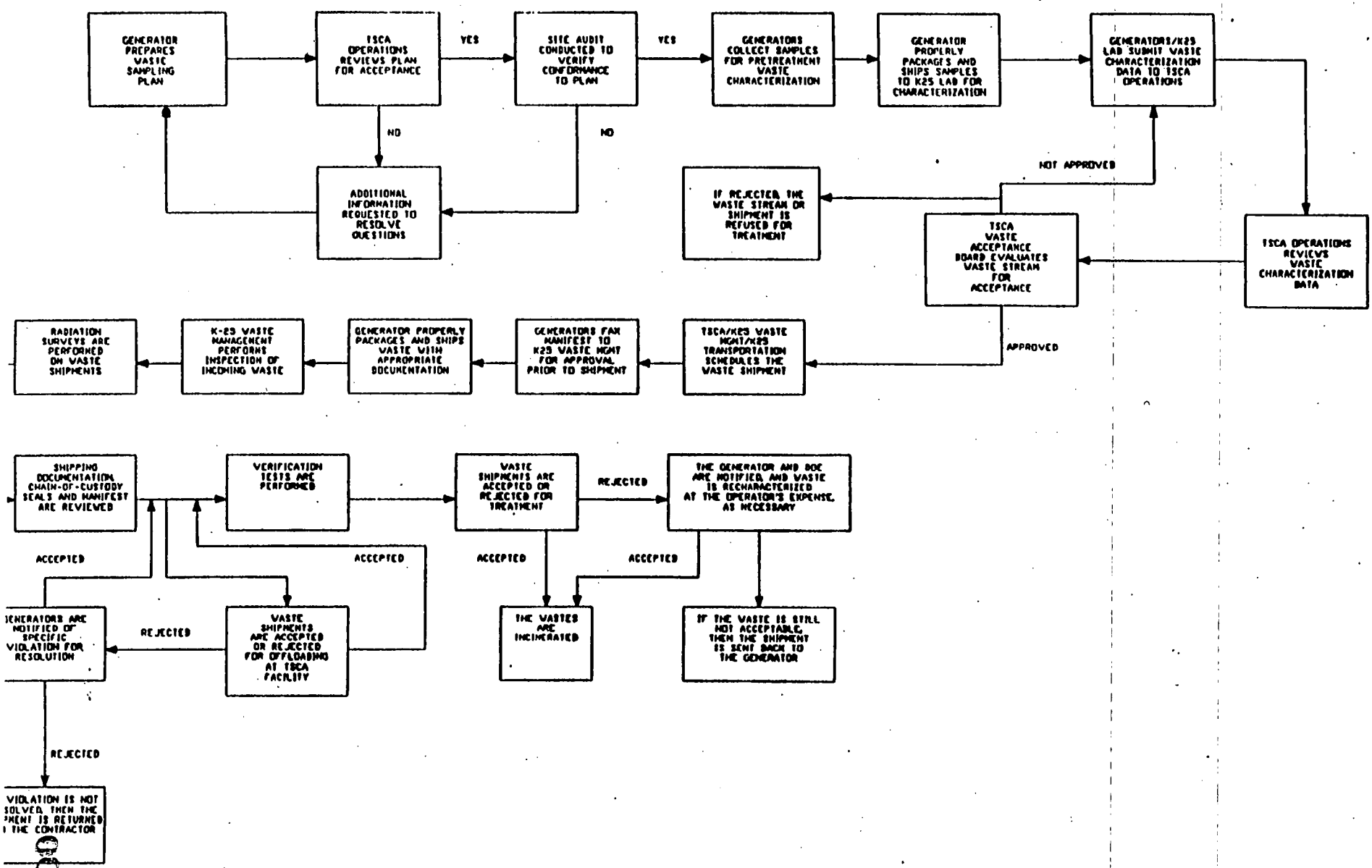

FIG. 1 WASTE ACCEPTANCE PLAN ACTIVITIES EFFECTIVE JULY 30, 1993

000029

6099

2.4 Characterization of Batch Process Wastes

If the waste, which may be either homogeneous or heterogeneous, is being generated through a short-term or infrequent operation, such that the composition of the waste is expected to vary appreciably over time, the waste may be characterized as a batch process. For such operations, the sampling plan should describe the method for determining batch sizes and the mechanism for grouping wastes into batches. Batches may be defined by the following:

- specific waste generating operation with several similar operations grouped together (e.g., the applicable wastes collected from several different chemistry laboratories)
- the type of waste being generated (e.g., waste oils regardless of the point of origin)
- point of origin (e.g., all applicable wastes - either solids, liquids, or sludges, but not combinations of the three - from a given building, regardless of the generating process), or by some other method appropriate to the specific generator.

For this type of waste stream, the following information should be included in the sampling plan.

- Method of grouping waste into batches (e.g., by waste type, by generator, by point of origin, etc.)
- Size of batches which will be characterized in this manner (e.g., the amount of waste collected in one week, number of 55 gallon drums, etc.)
- Waste characterization technique (e.g., sampling and analysis, etc.)

2.5 Sample Collection Procedures

Whether waste streams arise from long-term constant processes or from inconstant operations, waste characterization techniques must include sampling the waste form for laboratory analysis, whether as the primary method of waste certification or as a method of verifying other characterization techniques, such as process controls. The sampling plan should include a description of the sampling and analytical methods which will be used to characterize the waste stream, unless the K-25 Analytical Services Division is performing the sampling and is already described in a Sampling and Analysis Plan, in which case the plan should be referenced.

2.5.1 Sample Collection Methods for Homogeneous Waste Forms

The following table summarizes the sample collection methods considered appropriate for the given waste forms. Alternate sampling methods may be acceptable, but should be submitted in advance, following the Request for Variance process described in Section 4. All the methods listed below are described in EPA SW-846, Test Methods for Evaluating Solid Waste,* the most current edition.

Waste Form	Container Type	Sampling Method
Oils, solvents, chemicals, or aqueous waste	Drum	Coliwasa
	Tank truck	Coliwasa
	Tank	Grab*
Sludges	Drum or other	Thief sampler container
Solids	Any	Auger sampler
Unknown liquids	Drum	Coliwasa
	Tank truck	Coliwasa
Unknown solids	Any	Auger sampler

2.7 Drum Certification

For wastes contained in drums, the generator is required to describe the methods used to assess the structural integrity of the drums and overpacks, to provide information on drum age and prior life, to supply data on chemical exposure of the drums within the Waste Sampling Plan. This information will be used to evaluate potential risks (i.e., drum bulging or leaking) related to storage of the wastes. The information provided shall support the certification of the drums according to the requirements specified in Section 6.0 of this WAP.

3.0 WASTE ACCEPTANCE CRITERIA

3.1 Definition of Liquid, Sludge and Solid

The requirements for characterizing wastes to be accepted at the TSCA Incinerator are described in the following section. Characterization requirements include evaluating the physical form of the waste, analysis for specific chemical constituents, and a description of the radionuclide content for each waste form. Waste characterization requirements are operationally grouped according to the physical form of the waste as solid, liquid, or sludge, with radionuclide characterization requirements discussed separately. For the purposes of this waste acceptance criteria, the following operational definitions apply.

3.1.1 Liquid

A liquid waste form has no fixed shape, thus takes the shape of its container. Liquid wastes are easily extruded through a small orifice, and have the following physical characteristics:

viscosity	< 5,000 centipoise at 100°F
suspended solids	< 10% by weight
freezing point	< 32°F
boiling point	> 100°F

For the purposes of this document, wastes with a water content of 90 or more percent by weight are considered to be aqueous solutions.

3.1.2 Sludge

A waste in the form of a sludge is a mixture of liquid and fine solids, varying from a form that has no specific shape, thus taking that of its container, to one that has a fixed shape. A sludge can be extruded through an orifice, but high pressure may be required. Sludges have the following physical characteristics:

viscosity	> 5,000 cp and < 500,000 cp at 100°F
solids	> 10% and < 50% by weight
particle size	< $^1/_{16}$ inch (0.16 cm)

3.1.3 Solid

A solid waste form is one that has a fixed shape such that the waste cannot be extruded through an orifice. Application of pressure to accomplish extrusion may cause the material to compact. The specific physical characteristics of a solid are:

solids	> 50% by weight
particle size	> $^1/_{16}$ inch (0.16 cm)

3.3.2.2 Values reported on the Waste Analysis Form must be reported in terms of the "*as received*" concentration, (i.e., the actual concentration of each parameter in the waste received at the TSCA Incinerator, as opposed to reporting the concentration on a dry weight basis). The "as received" concentration is the measurement of critical importance to incinerator operation, storage requirements and treatment. Reporting all values in those terms will help minimize potential misinterpretation of data.

3.3.3 Waste Analysis Form - General Information (Appendix B)

3.3.3.1 The Disposal Number is the number assigned by TSCA Operations to a particular waste shipment from the "Request for Disposal/Storage of Waste Materials and Equipment", form UCN-12463. This number may be filled in by the Waste Generator.

The Laboratory Number is the internal tracking number assigned at a particular site. It shall be filled in by the generator to provide cross-referencing and tracking of reported results.

3.3.3.2 The first section of the Waste Analysis Form - General Information should indicate whether the waste being submitted is a solid, liquid, or sludge, based on the definitions in Section 3.1.

3.3.3.3 In the second line of the form, indicate whether the waste is soluble or insoluble in water.

3.3.3.4 The next three lines on the form are used to specifically identify the waste in terms of the regulatory, safety, and operational considerations for the TSCA Incinerator. The Environmental Protection Agency (EPA) Hazardous Waste Identification Code as described in 40 CFR 261 must be provided for the waste.

NOTE: Since the toxicity characteristic hazard under RCRA imposes some special considerations, it should be specifically noted that if any of the EPA codes D004 through D043 are not listed on the form, that indicates the waste is known to *not* be characteristically toxic for the specific material, according to the limitations imposed under the Toxicity Characteristic Leaching Procedure (TCLP) as described in Table 2.

If the waste is classified as carcinogenic by the OSHA, certain additional storage and labelling precautions may be required at the TSCA Incinerator facility. Indicate, by marking the appropriate box on the form, whether the waste is known to be carcinogenic. If the waste is not classified by the OSHA as carcinogenic, mark the "no" box.

The TSCA Incinerator Waste Stream Identification Number is the number assigned to an individual waste stream being generated within a given plant process (i.e., from the Long-Range Burn Plan). If the waste being prepared for shipment has not been assigned an identification number, contact the TSCA Incinerator Operations staff.

3.3.3.5 Major Constituents

In the next section of the form, indicate the category or categories that best describe the waste form, providing an estimated percentage by weight for each item marked. The weight percent does not need to be precise and can be based on the generation history of the waste rather than on specific analyses. However, the estimate of weight percentages listed on the form must total at least 90%. If 90% of the weight of the waste cannot be determined, constituents of the waste should be determined using gas chromatography/infrared analysis.

Chemical parameters:

total sulphur
total chloride
total fluoride
metals

3.4.1.3 For the following parameters, the analytical method used must be capable of attaining at least the following lower limits of detection.

Parameter	Lower Limit of Detection
Total chloride	0.1%
Ash	0.05%
Viscosity	5 cp
Heating Value	50 BTU/lb
PCBs	0.5 ppm
Lead	3 ppm
Beryllium	0.045 ppm
Mercury	0.08 ppm

3.5 Acceptance Criteria for Solid Waste

NOTE: Refer to Table 2 for specific analytical methods required by the K-1435 TSCA Incinerator Operating Permit.

3.5.1 General Criteria

3.5.1.1 The set of Waste Analysis Forms addressing solid wastes (Appendix C) describes the data required on such wastes, specifying the limits which must be met where such limits are applicable. The specific analytical procedures for obtaining waste characterization information are listed in the following narrative descriptions.

3.5.1.2 The contents of drummed solids should be shreddable, so that rebar, pipe, and concrete over 2 inches in diameter should be excluded. Uncontainerized bulk solids must be free of solid material over 4 inches in diameter. Material that cannot be compacted such as bolts or rebar, must not exceed 2 inches in diameter. If it cannot be shown that wastes are free of such material, the uncontainerized bulk solid waste must be screened prior to shipment.

3.5.1.3 The following parameters must be known to within ± 10% accuracy:

Physical parameters: ash content
heating value

Chemical parameters: total chloride
total fluoride
total sulfur
metals

3.6.1.3 For the following parameters, the analytical method used must be capable of attaining at least the following lower limits of detection.

Parameter	Lower Limit of Detection
Total chloride	0.1%
Ash	0.05%
Heating Value	50 BTU/lb
PCBs	20 ppm
Lead	3 ppm
Beryllium	0.5 ppm
Mercury	0.08 ppm

3.7 Acceptance Criteria for Radionuclides

3.7.1 Process Knowledge as Basis for Analysis

Analysis of waste streams for radionuclides is based on knowledge of the waste generation process. By reviewing the history of the facility in which the waste was generated, the activities that resulted in its generation, and the radionuclides which were involved in the process, a list of the specific radionuclides which may be expected to occur in the waste can be developed. This list may be developed for individual processes at a given facility or, if the operations are sufficiently similar, to encompass all waste from a given facility. Through a series of discussions with the waste generating sites which will ship waste to the TSCA Incinerator, two general lists of radionuclides were developed. The first list includes radionuclides which may result from operations at the Oak Ridge K-25 Site, the Paducah Gaseous Diffusion Plant, the Portsmouth Gaseous Diffusion Plant, the Oak Ridge Y-12 plant, Fernald Environmental Management Project, or the RMI Extrusion Plant. The second list is specific to the Oak Ridge National Laboratory. These two lists are shown on the respective forms in this Section. The rationale for developing the lists was similar to the approach taken to determine radionuclide parameters for environmental monitoring at the facilities (i.e., after examining the operations, the radionuclides considered to be potentially present in the waste were listed).

3.7.1.1 Required Analysis

Each waste stream shall be analyzed (refer to Section 3.7.4.) for all radionuclides considered as being potentially present, based on the waste generator's process knowledge.

3.7.1.2 Excluding Radionuclides from Waste Analysis List

The lists shown on the Waste Analysis Forms - Appendix D and Appendix E were developed to be as complete an inventory as possible of radionuclides that may be expected to occur in waste sent to the TSCA Incinerator. In many instances, the waste generator's knowledge of a specific process within the facility may indicate that some of the general list of radionuclides would not be expected to be present in the waste resulting from that process. In those instances, it is not necessary to analyze for the excluded radionuclides. If that applies to a given waste being shipped to the TSCA Incinerator, the waste generator should:

(a) write "NA" on the Waste Analysis Form in the blank beside the applicable radionuclide, and

3.7.2.3 Screening Methods

Screening analysis should be performed by gross liquid scintillation counting. Gross alpha/beta gas proportional counting may also be used, but, due to loss of volatile radionuclides during analysis, it is not the preferred method. A gamma spectroscopy screen shall also be performed and each identified activity shall be reported.

3.7.3 Reporting Analytical Results

All radionuclide analyses must be reported as the actual measurement result, whether positive or negative, with its associated uncertainty. Reporting results as "less than" values or as "not detected" is not acceptable. The precision of radionuclide analytical results shall be reported as a range, a variance, a standard deviation, a standard error, or a confidence interval.

3.7.4 Radioanalytical Procedures

3.7.4.1 Lower Limits of Detection

Methods used for analysis of radionuclides in waste must be capable of achieving the following lower limits of detection:

Radionuclide	Required LLD (pCi/g)	Radionuclide	Required LLD (pCi/g)
H^{3}	60	Pb^{210}	1
C^{14}	60	Th^{228}	1
P^{32}	5	Th^{230}	1
Co^{57}	0.1	Th^{232}	1
Co^{60}	0.5	Th^{234}	1
Kr^{85}	5	Pa^{234m}	1
Sr^{90}	5	U-alpha	1
Tc^{99}	20	Np^{237}	1
I^{131} [a]	0.7	Pu^{238}	1
Cs^{137}	1	Pu^{239}	1

[a] If the waste has been in storage for more than six months, analysis for I^{131} is not required.

3.7.4.2 Recommended Methods

The following procedures are recommended:

Parameter	Method
Np, Pu, Th,	ACD-1664, K-25 Site Analytical Chemistry
U-alpha	Department Technical Procedures Manual
Technetium-99	(1) EC-186, "Technetium-99 in Water (Radiochemical Method)," Martin Marietta Energy Systems Environmental and Effluent Analysis Manual
	(2) EC-260, "Technetium-99 in Air Filters (Radiochemical Method)," Martin Marietta Energy Systems Environmental and Effluent Analysis Manual
	(3) EC-355, "Technetium-99 in Sediment and Soil (Radiochemical Method)," Martin Marietta Energy Systems Environmental and Effluent Analysis Manual

4.1 Initiating a Request for Variance

4.1.1 Initial Discussions

When a generator considers requesting a variance from one of the waste acceptance criteria, the specific criterion in question and the difficulty in meeting it should first be discussed informally with the K-25 Site Waste Management Operations and TSCA Operations Division. These initial discussions will serve as an alert that a request for variance may be submitted, will assist in identifying the specific difficulties in meeting the criterion, and will allow investigation of possible options for supplying acceptable alternative characterization data as a substitute for the specific criterion.

4.1.2 Formal Request

If the informal discussion indicates that it may be possible to accept the variant waste through some other mechanism than that described in the waste acceptance criteria, a formal request for variance must be submitted to the TSCA Operations Division during the waste acceptance process. The request must contain the following information:

4.1.2.1 Specific criterion for which the variance is requested. The criterion may be an analytical procedure, a specific chemical, physical, or radiological limit, a sample collection procedure, or other criteria listed in Section 3.0.

4.1.2.2 Explanation of why the variance from the waste acceptance criteria is needed.

4.1.2.3 Indication whether the variance is needed for a single waste shipment or on a continuing basis.

4.1.2.4 Description of the method or limit being proposed as a substitute, including the type and quality of data that will be collected, as appropriate.

4.1.2.5 Comparison of the proposed method or limit with the published waste acceptance criteria, including evaluation of the comparative impacts on waste characterization activities, personnel exposures, and quality of characterization data.

4.1.2.6 Additional procedures or process controls that will be implemented at the generator facility as a result of the variance, if applicable.

4.2 Disposition of Requests

Requests for variances from the waste acceptance criteria will be reviewed and evaluated on an individual basis. If additional information is needed to adequately evaluate the impact on operations of granting the request, the applicable information will be requested and must be provided before disposition of the request can be made. Disposition of each request will be approved by TSCA Operations and will be made formally in writing. Variance to the Waste Acceptance Criteria can be granted by the TSCA Program Manager, Deputy Program Manager, Blend Master, or Burn Plan Manager. The actions that may be taken on an individual request are:

5.1.3 Nuclear Materials Transfer Documentation

The appropriate documentation for shipments of special nuclear materials must be completed when applicable and must accompany the shipments to the K-1435 TSCA Incinerator. The documents are as follows:

"Nuclear Materials Transportation Request" form DOE/NRC-741
"Request for Authorization to Ship Material to K-25" form UCN-16409

5.1.4 Material Safety Data Sheet

A Material Safety Data Sheet (MSDS) must be provided to the TSCA Incinerator personnel for compounds identified in the waste when the waste characterization analytical data or process knowledge information is available.

5.1.5 LDR Notification

As required by 40 CFR 268; use standard forms such as McCoy and Associates.

5.1.6 Operation Records

Files are maintained for each generator at the TSCA Operations Division offices at the K-25 Site. These files contain all correspondence, pretreatment information, DAC numbers and shipment schedules, shipment inspection information, and waste verification results.

5.2 Review of Waste Characterization Data

The TSCA Division reviews the waste characterization analytical data and process knowledge provided by the waste generator. The information is complied into a DAC package and is reviewed by the K-25 Site Industrial Hygiene, Health Physics, and Waste Managements groups to specify personnel protective equipment, and anti-C clothing. During the reviews, variances can be granted on a case-by-case basis. A representative from all four groups signs the DAC package after the review cycle is completed.

6.0 WASTE PACKAGING REQUIREMENTS

6.1 General Information

All material shall be packaged, labeled, and shipped according to Department of Transportation (DOT) regulations, the requirements of the Resource Conservation and Recovery Act Toxic Substances Control Act, and applicable state regulations.

6.2 DOT Regulations

All transport containers must comply with the DOT shipping regulations of Title 49 Code of Federal Regulations, and with DOE Order 5820.2A, Radioactive Waste Management.

6.3 Radiation Requirements

Individual shipping containers of waste must not exceed the following radiation levels:

6.3.1 The maximum dose equivalent rate at the surface of the container must not exceed 50 mrem/h.

6.3.2 The maximum dose equivalent rate at two feet from the surface of the container must not exceed 5 mrem/h.

6.3.3 The amount of transferrable contamination on exterior surfaces of the container must not exceed 1000 dpm/100 cm^2 for beta-gamma contamination or 200 dpm/100 cm^2 for alpha contamination.

6.5.3 Drum Freeboard Specification

In waste shipments contained in drums, the generator shall leave a minimum drum freeboard of 5%. This requirement will provide protection against drum damage due to weather-related phase changes, liquid expansion, and gas over-pressure.

6.5.4 Handling and Department of Transportation Requirements

Liquid wastes must be packaged in 17E specification bung drums to allow for easier access to and removal of the waste in the drum.

PCB containing wastes must be packaged in drums which meet DOT Specification and the requirements of 40 CFR 761. Present requirements are 17E for liquids and 17C for solids.

TABLE 1 SUMMARY OF WASTE INFORMATION		
Hazardous Waste	Hazard	EPA Hazardous Waste Code
2,4-Dinitrotoluene	Toxic	D030
Heptachlor	Toxic	D031
Hexachlorobenzene	Toxic	D032
Hexachlorobutadiene	Toxic	D033
Hexachloroethane	Toxic	D034
Methyl Ehtyl Ketone	Toxic	D035
Nitrobenzene	Toxic	D036
Pentachlorophenol	Toxic	D037
Pyridine	Toxic	D038
Tetrachloroethylene	Toxic	D039
Trichloroethylene	Toxic	D040
2, 4, 5-Trichlorophenol	Toxic	D041
2, 4, 6-Trichlorophenol	Toxic	D042
Vinyl Chloride	Toxic	D043
Spent Halogenated Solvents, Sludges from the Recovery of Specific Solvents	Toxic	F001 and F002
Spent Non-Halogenated Solvents, Sludges from the Recovery of Specific Solvents	Ignitable	F003
Spent Non-Hazardous Solvents, Sludges from the Recovery of Specific Solvents	Toxic	F004
Spent Non-Halogenated Solvents Sludges from the Recovery of Specific Solvents	Ignitable, Toxic	F005
Waste Water Treatment Sludges from Electroplating Operations except from Specific Processes	Toxic	F006
Plating Bath Residues from the Bottom of Plating Baths from Electroplating Operations where Cyanides are used in the Process	Reactive, Toxic	F008

TABLE 1

"P" and "U" HAZARDOUS WASTE CODES

The basis for hazardous designation for all EPA Hazardous Waste Codes is derived from Tennessee Rule Chapter 1200-1-11-.02. The name of the substance is also found in Tennessee Rule Chapter 1200-1-11-.02.

"U" Hazardous Waste Codes								
U001	U028	U056	U083	U111	U137	U164	U191	U221
U002	U029	U057	U084	U112	U138	U165	U192	U222
U003	U030	U058	U085	U113	U140	U166	U193	U223
U004	U031	U059	U086	U114	U141	U167	U194	U225
U005	U032	U060	U087	U115	U142	U168	U196	U226
U006	U033	U061	U088	U116	U143	U169	U197	U227
U007	U034	U062	U089	U117	U144	U170	U200	U228
U008	U035	U063	U090	U118	U145	U171	U201	U234
U009	U036	U064	U091	U119	U146	U172	U202	U235
U010	U037	U066	U092	U120	U147	U173	U203	U236
U011	U038	U067	U093	U121	U148	U174	U204	U237
U012	U039	U068	U094	U122	U149	U176	U205	U238
U014	U041	U069	U095	U123	U150	U177	U206	U239
U015	U042	U070	U096	U124	U151	U178	U207	U240
U016	U043	U071	U097	U125	U152	U179	U208	U243
U017	U044	U072	U098	U126	U153	U180	U209	U244
U018	U045	U073	U099	U127	U154	U181	U210	U246
U019	U046	U074	U101	U128	U155	U182	U211	U247
U020	U047	U075	U102	U129	U156	U183	U213	U248
U021	U048	U076	U103	U130	U157	U184	U214	U249
U022	U049	U077	U105	U131	U158	U185	U215	U328
U023	U050	U078	U106	U132	U159	U186	U216	U353
U024	U051	U079	U107	U133	U160	U187	U217	U359
U025	U052	U080	U108	U134	U161	U188	U218	
U026	U053	U081	U109	U135	U162	U189	U219	
U027	U055	U082	U110	U136	U163	U190	U220	

APPENDIX A

TSCA INCINERATOR OPERATIONS
WASTE ANALYSIS FORM
GENERAL INFORMATION

Disposal Number _____ Laboratory Number _____

General Plant _____

Department _____

Generator EPA ID No. _____

Quantity _____(Lbs. or Gal.) - Indicate one by circling

PCB _____ Non-PCB _____

Drum Numbers:

Prepared by _____ date _____

APPENDIX B
TSCA INCINERATOR OPERATIONS
WASTE ANALYSIS FORM - PHYSICAL PARAMETERS FOR LIQUID WASTES

Disposal Number _____ Laboratory Number _____

Drummed Waste Certification: Minimum 1 year drum shelf life: [] yes [] no
Drum Liner Compatibility [] yes [] no
Minimum 5% drum freeboard: [] yes [] no

Specific Gravity _____ Heating Value (BTU/lb) _____

Flash Point (°F) _____ Ash Content (weight %) _____

Number of phases _____ _____%

_____% _____%

Parameter	Limit	Result
Viscosity (cp)	5000	_____
Corrosivity (Organic waste only)	< 6.35 (mm/yr)	_____
OR		
pH (aqueous waste only)	8-10	_____
PCB		_____ ppm or _____ WT%

Boiling Point (°F)	>100	_____
Freezing Point (°F)	<32	_____

METAL ANALYSIS

Metal (µg/g)	Result	Metal (µg/g)	Result	Metal (µg/g)	Result
Antimony	_____	Lithium	_____	Selenium	_____
Arsenic	_____	Magnesium	_____	Sodium	_____
Barium	_____	Manganese	_____	Thallium	_____
Copper	_____	Nickel	_____	Titanium	_____
Iron	_____	Silver	_____		

Prepared by _____ date _____

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APPENDIX C
TSCA INCINERATOR OPERATIONS
WASTE ANALYSIS FORM - PARAMETERS FOR SOLID/SLUDGE WASTE

Disposal Number _____ Laboratory Number _____

PHYSICAL PARAMETERS

Parameter	Result
Ash Content (weight %)	_____
Heating Value	_____BTU/lb

CHEMICAL PARAMETERS

Parameter	Limit	Weight %	Parameter	Results
Total Chloride	75.0 %	_____	Phosphorus	_____ppm
Total Sulfur	10.0 %	_____	PCB	_____ppm or _____% WT
Total Fluoride	21.0 %	_____		

Provide the following information (if applicable and known) for any equipment from which PCB wastes are removed:

Location_____ Manufacturer_____
Serial Number _____ Date removed from service_____

Does this waste contain brominated compounds? [] yes [] no

URANIUM ANALYSIS

Requirements: Duplicate uranium and U235 analyzes are required for criticality control.

Analysis #1		Analysis #2	
Total Uranium	_____ppm	Total Uranium	_____ppm
Uranium-235	_____% by weight	Uranium-235	_____% by weight

	Limit	Result	Uncertainty
Pu-238, Pu-239, Np-237	246 pCi/g or 4 ppb	_____	_____

Prepared by _____ date _____

APPENDIX D
TSCA INCINERATOR OPERATIONS
WASTE ANALYSIS FORM - RADIONUCLIDE PARAMETERS
ALL SITES EXCEPT ORNL

Disposal Number _____ Laboratory Number _____

RESULTS NUCLIDE	UNCERTAINTY (pCi/g)	(pCi/g)	RESULTS NUCLIDE	UNCERTAINTY (pCi/g)	(pCi/g)
Tc^{99}	_____	_____	Pa^{234m}	_____	_____
Cs^{137}	_____	_____	U-alpha	_____	_____
Th^{228}	_____	_____	Np^{237}	_____	_____
Th^{230}	_____	_____	Pu^{238}	_____	_____
Th^{232}	_____	_____	Pu^{239}	_____	_____
Th^{234}	_____	_____	_____ [A]	_____	_____
_____	_____	_____	_____	_____	_____

SCREENING ANALYSIS

Gross Radioactivity Measured _____ ± _____
(pCi/g)

[A] Identify and quantify other radionuclides present in the waste, but not included on this list. Include explanation if any listed radionuclides are not expected to be present in the waste.

Prepared by _____ date _____

APPENDIX F. CHECKLIST FOR GENERATORS

The following steps must be performed in order to ship waste to the TSCA incinerator:

_____ 1. Waste Sampling Plan prepared and approved by Incinerator Operations.

_____ 2. Waste Analysis form -Part I (General Information) completed.

_____ 3. Applicable Waste Analysis forms - Part II (specific physical and chemical characterization data) completed.

_____ 4. Waste Analysis form - Part III (Radionuclide Data) completed.

_____ 5. Request for Disposal/Storage of Waste Material and Equipment Form UCN-12463 is completed.

_____ 6. Uniform Hazardous Waste Manifest completed.

_____ 7. Uniform Hazardous Waste Manifest attachment for TSCA waste completed.

_____ 8. DOE/NRC form 741 for special nuclear material completed, if applicable.

_____ 9. UCN-16409 for special nuclear material completed, if applicable.

_____ 10. Material Safety Data Sheet(s) for waste form submitted as necessary.

_____ 11. Applicable data submitted to TSCA Operations for review.

_____ 12. Approval from TSCA Operations to ship waste granted.

_____ 13. Land Disposal Restriction attachment to Uniform Hazardous Waste Manifest, if applicable.

TSCA Incinerator FY-95 Burn Plan & Waste Acceptance Plan

Information Package

This package provides information about the commitment to send waste from the FEMP to the K-1435 TSCA Incinerator during FY-95. FEMP waste designated for treatment at the TSCA Incinerator during FY-95 represents a substantial portion of the planned work at the K-1435 facility. The ability of the FEMP to meet scheduled commitments for waste shipments to the Incinerator will have a significant impact on MMES's ability to meet TSCA Incinerator FY-95 performance objectives.

This package contains the K-1435 TSCA Incinerator's FY-95 (incinerable liquids) Burn Plan and the Martin Marietta Energy Systems (MMES), Inc., Waste Acceptance Plan and Analytical Protocol for the Toxic Substances Control Act Incinerator. Specifically the package contains the following:

- TSCA Incinerator Liquid Waste Burn Plan and Summary Burn Schedule for FY1995

- TSCA Incinerator Fiscal Year (FY) 1995 Draft Burn Plan for Incinerable Liquid Waste

- Attachment 1, "Total Incinerable Waste Inventory"
  (Total volume of incinerable liquid waste, as of 6-94, stored at the DOE sites on the list)

- Attachment 2, "Total Incinerable Waste Generation Projections"
  (Estimates/Projections of the total volume of incinerable liquid wastes, in pounds (LBS), that will be generated as a result of ongoing activities, at the DOE sites listed, during FY-95 and FY-96)

- Attachment 3, "Monthly Burn Allocation Matrix for FY-95"
  (The volume of waste, in pounds (LBS), allotted to each of the generators (DOE Sites) on the list, by calendar month, for the fiscal year, 1995)
  (REVISED SCHEDULE ATTACHED)

- Attachment 4, "Quarterly Burn Plan Allocation Matrix for FY1995"
  (The volume of waste, in pounds (LBS), allotted to each of the generators (DOE Sites) on the list, by calendar quarter, for the fiscal year, 1995)

- Attachment 5, "TSCA Incinerator FY 1995 Burn Plan Implementation Issues"
  (Issues specific to each generator (DOE Site), that need to be completed and/or addressed/approved before waste shipments will proceed to the TSCA Incinerator)

- Martin Marietta Energy Systems, Inc., "Waste Acceptance Plan and Analytical Protocol for the Toxic Substances Control Act Incinerator"

REVISED ATCH 3

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Revision 1
November 28, 1994

TSCA Incinerator Liquid Waste Burn Plan and Summary Burn Schedule for FY1995

Site	Waste Group	FY1995 Burn Plan (lb)	Summary Burn Schedule (lb)											
			Oct 1994	Nov 1994	Dec 1994	Jan 1995	Feb 1995	Mar 1995	Apr 1995	May 1995	Jun 1995	Jul 1995	Aug 1995	Sep 1995
K-25	K001	1,482,000		0	97,000	83,000	236,250	213,250	139,000	0	172,500	96,500	196,500	248,000
	Total	1,482,000		0	97,000	83,000	236,250	213,250	139,000	0	172,500	96,500	196,500	248,000
Y-12	Y001	640,000		0	0	0	86,250	13,250	0	0	150,500	130,000	130,000	130,000
	Total	640,000		0	0	0	86,250	13,250	0	0	150,500	130,000	130,000	130,000
ORNL	X001	132,000		0	0	67,000	0	0	0	14,000	28,000	0	0	23,000
	Total	132,000		0	0	67,000	0	0	0	14,000	28,000	0	0	23,000
PORTS	C005	500,000		0	0	100,000	150,000	100,000	0	0	50,000	100,000	0	0
	Total	500,000		0	0	100,000	150,000	100,000	0	0	50,000	100,000	0	0
PGDP	P001	302,000		0	153,000	0	0	0	74,500	74,500	0	0	0	0
	P003	27,500		0	0	0	27,500	0	0	0	0	0	0	0
	P005	223,500		0	0	0	0	74,500	0	0	0	74,500	74,500	0
	Total	553,000		0	153,000	0	27,500	74,500	74,500	74,500	0	74,500	74,500	0
FERMCO	F005	693,000		0	0	0	0	99,000	99,000	99,000	99,000	99,000	99,000	99,000
	Total	693,000		0	0	0	0	99,000	99,000	99,000	99,000	99,000	99,000	99,000
RMI	R005	0		0	0	0	0	0	0	0	0	0	0	0
	Total	0		0	0	0	0	0	0	0	0	0	0	0
Grand Total		4,000,000		0	250,000	250,000	500,000	500,000	312,500	187,500	500,000	500,000	500,000	500,000
ORR		2,254,000		0	97,000	150,000	322,500	226,500	139,000	14,000	351,000	226,500	326,500	401,000
Off ORR		1,746,000		0	153,000	100,000	177,500	273,500	173,500	173,500	149,000	273,500	173,500	99,000

Waste Group Descriptions

Site	Waste Group	Description
PORTS	C005	NON FCA
FERMCO	F005	NON FCA
K-25	K001	RCRA/LDR FFCA APPENDIX A
PGDP	P001	RCRA/LDR FFCA APPENDIX A
	P003	TSCA/PCB FFCA
	P005	NON FCA
RMI	R005	NON FCA
ORNL	X001	RCRA LDR FFCA APPENDIX A
Y-12	Y001	RCRA LDR FFCA APPENDIX A

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To Kevin Cossen	From B Sayler
Co./Dept.	Co.
Phone # 6458	Phone # (615) 576-4926
Fax # (615) 138-8 7386958	Fax #

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August 12, 1994

Distribution

Draft TSCA Incinerator Burn Plan for Fiscal Year (FY) 1995

Please review the enclosed information supporting the TSCA Incinerator burn plan for incinerable liquid waste for FY 1995. Your review should include concurrence and approval of the burn capacity allocations for your site and completion of the site issues for implementation of the burn plan. The list of issues is presented in Attachment 5.

I would like to issue the final burn plan and configuration management requirements by September 1, 1994. Thereafter, the burn plan will be maintained current using configuration management. To meet this schedule please submit your comments via fax to me at (615) 576-6222, or Brenda Snyder at (615) 576-5380 no later than August 19, 1994.

If you have any questions, please contact me at (615) 576-6797.

Sincerely,

Angel L. Rivera

Angel L. Rivera, K-1037, MS-7357
Energy Systems Waste Management Organization

ALR:tmh - ESWMO(OI):94-035

Enclosures

c/enc: V. Adams
P. A. Flowers
C. E. Frye
L. J. Mezga
F. Perez
W. K. Simon
B. S. Snyder
S. T. Wright
File - ALR

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TSCA INCINERATOR FISCAL YEAR (FY) 1995 BURN PLAN FOR INCINERABLE LIQUID WASTE

On July 28, 1994, a meeting was held at the Garden Plaza Hotel in Oak Ridge, Tennessee to develop the TSCA Incinerator burn plan for incinerable liquid waste for FY 1995. The following sites representatives participated in this planning activity:

K-25 Site, Mark Saunders
Y-12 Plant, Chuck Eblen
Oak Ridge National Laboratory (ORNL), Jeff Gilpin
Paducah Gaseous Diffusion Plant (PAD), Richard Kuehn
FERMCO, Kevin Crossen, Robert F. Schulten
RMI, M. Lyn Johnson
TSCA Incinerator, Brenda Snyder
Angel L. Rivera, Energy Systems Waste Management Organization Central
Kevin Rarsh, ORNL Computing Applications Division

Table 1 presents the TSCA Incinerator burn targets for liquid waste for FY 1995.

Table 1
Liquid Waste Burn Plan for FY 1995

Site	Burn Target (lb)	Percent Allocation
K-25	1,475,000	36.9
Y-12	800,000	20.0
ORNL	132,000	3.3
Portsmouth Gaseous Diffusion Plant (PORTS)	500,000	12.5
PGDP	400,000	10.0
FERMCO	693,000	17.3
RMI	0	0
Grand Total	4,000,000	100
Total Oak Ridge Reservation (ORR)	2,407,000	60.2
Total Off-ORR	1,592,000	39.8

Additional information supporting the development and implementation of the FY 1995 Burn Plan is presented in the following attachments for your review and comment.

- **Attachment 1** provides a summary of the incinerable liquid waste inventories at your site as of October 1994. A total liquid waste inventory of 5,872,032 pounds (lbs) was used as basis for the FY 1995 Burn Plan.

- **Attachment 2** provides estimates of the projected generation rates for FY 1995 and FY 1996. These generation rates will be used in updating the **Long-Range Burn Plan**.

- **Attachment 3** presents the burn targets by month for FY 1995. These targets are to be used as guidance for burn scheduling. Burn scheduling include waste selection, sampling, analysis, issue the requests for incineration, shipment, incineration, and certification.

- **Attachment 4** presents the burn targets by fiscal quarter. These targets will be used to report progress to the Department of Energy (DOE) Oak Ridge Operations Office (ORO) in the implementation for the burn plan.

- **Attachment 5** presents a list of issues that each site identified as significant in the implementation of the burn plan. Please review this issues as applicable to your site. Action plans will be developed for the resolution of these issues.

Information on notification requirements for corrosive (D002) waste treated at non-wastewater treatment facilities and ignitable (D001) waste with less than 10 percent total organic carbon will be distributed at a later date. If you found any reference containing this information please let me know.

I would like to propose the following implementation progress tracking and reporting requirements for this plan:

(1) Monthly progress reports to the sites on the progress and status of the following elements of the burn schedule to be maintained by Brenda Snyder.

- site requests for changes to the original burn targets
- revised burn targets (TSCA Incinerator)
- revised burn targets (sites)
- waste characterization
- requests for incineration
- waste acceptance
- shipment schedules
- waste received
- waste treated
- certificate of destruction

(2) Quarterly progress reports to DOE/ORO on revised burn targets, actual burn, and variances.

The proposed schedule in support of implementation of the FY 1995 burn plan is listed in Table 2.

Table 2
Propose Schedule in Support of FY 1995 Burn Plan

Activity	Target Date
Receive comments on the Draft FY 1995 Burn Plan	August 19, 1994
Resolve issues and issue Final FY 1995 Burn Plan for Configuration Management	September 1, 1994
Monthly Status and Implementation Progress Reports to the Sites on the FY 1995 Burn Plan	October 15, 1994 November 15, 1994 December 15, 1994 January 15, 1995 February 15, 1995 March 15, 1995 April 15, 1995 May 15, 1995 June 15, 1995 July 15, 1995 August 15, 1995 September 15, 1995
Quarterly Progress Reports to DOE/ORO on Implementation of the FY 1995 Burn Plan	January 31, 1995 April 31, 1995 July 31, 1995 October 31, 1995

Attachment 1

Total Incinerable Waste Inventory

Site	Waste Group	Most Recent Inventory	Prior Inventory	Inventory Date
K-25	K001	1,894,656		10/1994
	SITE TOTAL	1,894,656		
Y-12	Y001	552,000		10/1994
	SITE TOTAL	552,000		
ORNL	X001	132,000		10/1994
	SITE TOTAL	132,000		
'ORTS	C005	947,000		10/1994
	SITE TOTAL	947,000		
PGDP	P001	370,000		10/1994
	P003	363,796		10/1994
	P005	663,190		10/1994
	SITE TOTAL	1,396,986		
FERMCO	F005	872,000		10/1994
	SITE TOTAL	872,000		
RMI	R005	77,390		10/1994
	SITE TOTAL	77,390		
	GRAND TOTAL	5,872,032		

Attachment 2

Total Incinerable Waste Generation Projections

Burn Period	Site	Projected Generation
FY1995	K-25	25,000
	Y-12	300,000
	ORNL	42,000
	PORTS	362,909
	PGDP	150,000
	FERMCO	50,000
	RMI	7,200
	TOTAL	937,109
FY1996	K-25	25,000
	Y-12	200,000
	ORNL	42,000
	PORTS	306,000
	PGDP	150,000
	FERMCO	100,000
	TOTAL	823,000

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Attachment 3

Monthly Burn Allocation Matrix for FY1995

Waste Group	Site	October	November	December	January	February	March	April	May	June	July	August	September	Total
K001	K-25	0	0	0	173,000	236,250	213,250	139,000	0	172,500	96,500	196,500	248,000	1,475,000
SITE TOTAL		0	0	0	173,000	236,250	213,250	139,000	0	172,500	96,500	196,500	248,000	1,475,000
Y001	Y-12	0	0	0	160,000	86,250	13,250	0	0	150,500	130,000	130,000	130,000	800,000
SITE TOTAL		0	0	0	160,000	86,250	13,250	0	0	150,500	130,000	130,000	130,000	800,000
X001	ORNL	0	0	0	67,000	0	0	0	14,000	28,000	0	0	23,000	132,000
SITE TOTAL		0	0	0	67,000	0	0	0	14,000	28,000	0	0	23,000	132,000
C005	PORTS	0	0	0	100,000	150,000	100,000	0	0	50,000	100,000	0	0	500,000
SITE TOTAL		0	0	0	100,000	150,000	100,000	0	0	50,000	100,000	0	0	500,000
P001	PGDP	0	0	0	0	0	0	74,500	74,500	0	0	0	0	149,000
P003	PGDP	0	0	0	0	27,500	0	0	0	0	0	0	0	27,500
P005	PGDP	0	0	0	0	0	74,500	0	0	0	74,500	74,500	0	223,500
SITE TOTAL		0	0	0	0	27,500	74,500	74,500	74,500	0	74,500	74,500	0	400,000
F005	FERMCO	0	0	0	0	0	99,000	99,000	99,000	99,000	99,000	99,000	99,000	693,000
SITE TOTAL		0	0	0	0	0	99,000	99,000	99,000	99,000	99,000	99,000	99,000	693,000
R005	RMI	0	0	0	0	0	0	0	0	0	0	0	0	0
SITE TOTAL		0	0	0	0	0	0	0	0	0	0	0	0	0
GRAND TOTAL		0	0	0	500,000	500,000	500,000	312,500	187,500	500,000	500,000	500,000	500,000	4,000,000

Attachment 4

Quarterly Burn Allocation Matrix for FY1995

Waste Group	Description	Site	Oct - Dec	Jan - Mar	Apr - Jun	Jul - Sep	Total
K001	RCRA LDR FFCA APPENDIX A	K-25	0	622,500	311,500	541,000	1,475,000
SITE TOTAL			0	622,500	311,500	541,000	1,475,000
Y001	RCRA LDR FFCA APPENDIX A	Y-12	0	259,500	150,500	390,000	800,000
SITE TOTAL			0	259,500	150,500	390,000	800,000
X001	RCRA LDR FFCA APPENDIX A	ORNL	0	67,000	42,000	23,000	132,000
SITE TOTAL			0	67,000	42,000	23,000	132,000
C005	NON FFCA	PORTS	0	350,000	50,000	100,000	500,000
SITE TOTAL			0	350,000	50,000	100,000	500,000
P001	RCRA LDR FFCA APPENDIX A	PGDP	0	0	149,000	0	149,000
P003	TSCA PCB FFCA	PGDP	0	27,500	0	0	27,500
P005	NON FFCA	PGDP	0	74,500	0	149,000	223,500
SITE TOTAL			0	102,000	149,000	149,000	400,000
F005	NON FFCA	FERMCO	0	99,000	297,000	297,000	693,000
SITE TOTAL			0	99,000	297,000	297,000	693,000
R005	NON FFCA	RMI	0	0	0	0	0
SITE TOTAL			0	0	0	0	0
GRAND TOTAL			0	1,500,000	1,000,000	1,500,000	4,000,000

Attachment 5

TSCA Incinerator FY 1995 Burn Plan Implementation Issues

K-25 Site

(1) There is a potential for a reduction of blending capability of tanks K-1202.

Y-12 Plant

(1) About 40,000 gallons of liquid waste containing the F039 Environmental Protection Agency waste code is being stored at the Y-12 Plant. The TSCA Incinerator does not have this code in the Resource Conservation and Recovery Act Permit.

(2) There is a Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) issue with burning waste stored in OD-9.

ORNL

(1) Acceptance of Sr-90 and Cs-137 containing liquid waste at the TSCA Incinerator.

PORTS

(1) A maximum shipment of 500,000 lbs of liquid incinerable waste per year was identified as the PORTS limit.

PAD

(1) PAD does not have bulking capabilities at this time. The tank used in the past for blending is down for repairs. Support from the TSCA Incinerator will be needed during FY 1995 to meet the burn targets.

(2) All the waste is in drums. There is lack of storage space for waste selection and sampling.

(3) Manpower is limited for handling, sampling, and bulking.

(4) Funding constraints.

FERMCO

(1) All the waste is stored in drums. A bulking program is being implemented to support the burn plan for FY 1995.

(2) Acceptance of the TSCA Incinerator of liquid incinerable waste generated during CERCLA activities.

RMI

(1) Sampling is in progress. There is a need to request approval from the State of Tennessee for shipping and incineration of RMI liquid waste.

K/TSCA-030

WASTE ACCEPTANCE PLAN

AND

ANALYTICAL PROTOCOL FOR THE

TOXIC SUBSTANCES CONTROL ACT

INCINERATOR

July 1993

Prepared by:
Oak Ridge K-25 Site
Oak Ridge, Tennessee 37831
Operated by
MARTIN MARIETTA ENERGY SYSTEMS, INC.
for the
U. S. Department of Energy
under contract DE-AC05-84OR21400

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K/TSCA-030

WASTE ACCEPTANCE PLAN

AND

ANALYTICAL PROTOCOL FOR THE

TOXIC SUBSTANCE CONTROL ACT

INCINERATOR

Effective Date of Plan: 8-2-93

Prepared by: B. S. Snyder
Burn Plan Manager

6-30-93
Date

Fidel Perez
Technical Operations

6-30-93
Date

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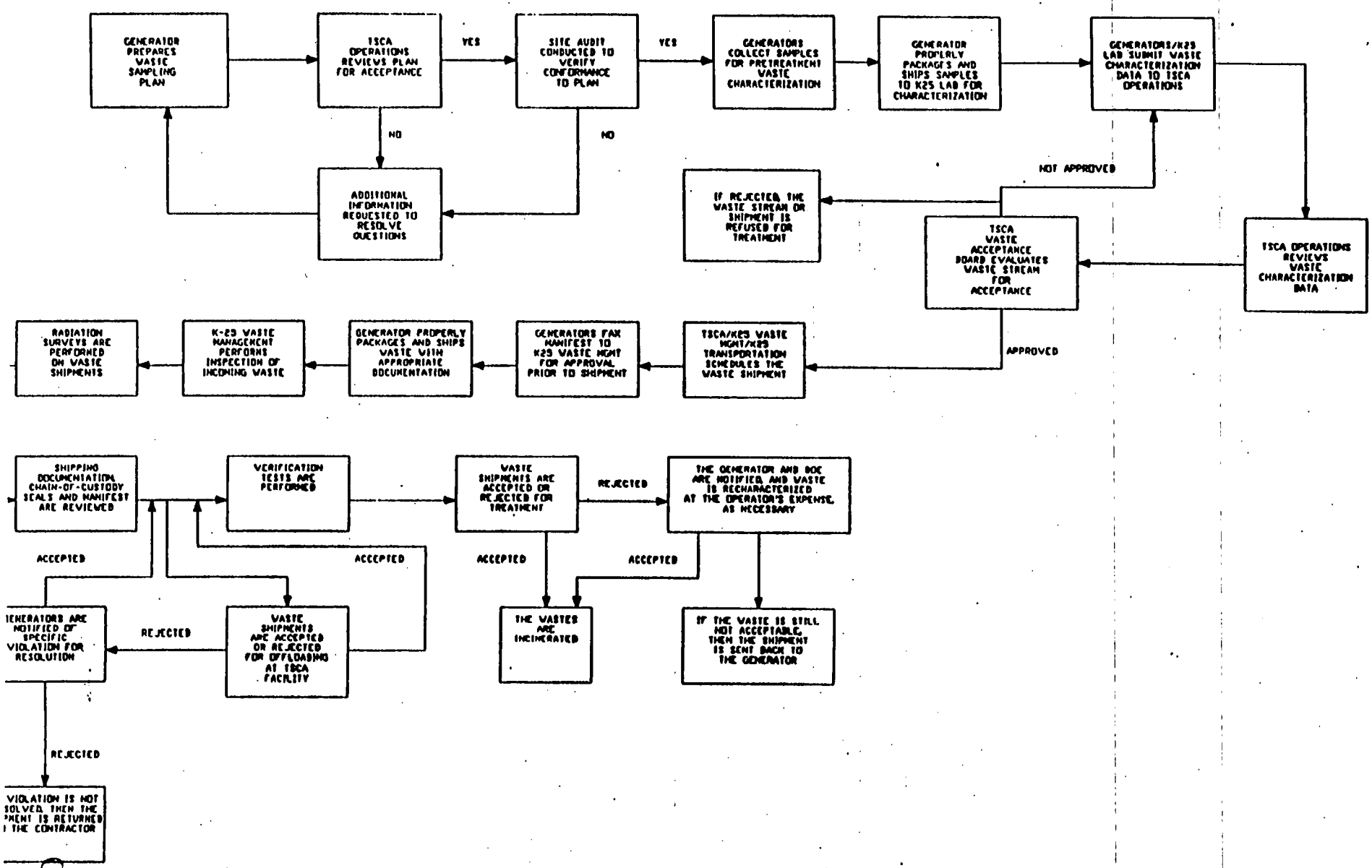

FIG. 1 WASTE ACCEPTANCE PLAN ACTIVITIES EFFECTIVE JULY 30, 1993

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2.4 Characterization of Batch Process Wastes

If the waste, which may be either homogeneous or heterogeneous, is being generated through a short-term or infrequent operation, such that the composition of the waste is expected to vary appreciably over time, the waste may be characterized as a batch process. For such operations, the sampling plan should describe the method for determining batch sizes and the mechanism for grouping wastes into batches. Batches may be defined by the following:

- specific waste generating operation with several similar operations grouped together (e.g., the applicable wastes collected from several different chemistry laboratories)
- the type of waste being generated (e.g., waste oils regardless of the point of origin)
- point of origin (e.g., all applicable wastes - either solids, liquids, or sludges, but not combinations of the three - from a given building, regardless of the generating process), or by some other method appropriate to the specific generator.

For this type of waste stream, the following information should be included in the sampling plan.

- Method of grouping waste into batches (e.g., by waste type, by generator, by point of origin, etc.)
- Size of batches which will be characterized in this manner (e.g., the amount of waste collected in one week, number of 55 gallon drums, etc.)
- Waste characterization technique (e.g., sampling and analysis, etc.)

2.5 Sample Collection Procedures

Whether waste streams arise from long-term constant processes or from inconstant operations, waste characterization techniques must include sampling the waste form for laboratory analysis, whether as the primary method of waste certification or as a method of verifying other characterization techniques, such as process controls. The sampling plan should include a description of the sampling and analytical methods which will be used to characterize the waste stream, unless the K-25 Analytical Services Division is performing the sampling and is already described in a Sampling and Analysis Plan, in which case the plan should be referenced.

2.5.1 Sample Collection Methods for Homogeneous Waste Forms

The following table summarizes the sample collection methods considered appropriate for the given waste forms. Alternate sampling methods may be acceptable, but should be submitted in advance, following the Request for Variance process described in Section 4. All the methods listed below are described in EPA SW-846, Test Methods for Evaluating Solid Waste," the most current edition.

Waste Form	Container Type	Sampling Method
Oils, solvents, chemicals, or aqueous waste	Drum	Coliwasa
	Tank truck	Coliwasa
	Tank	Grab[a]
Sludges	Drum or other	Thief sampler container
Solids	Any	Auger sampler
Unknown liquids	Drum	Coliwasa
	Tank truck	Coliwasa
Unknown solids	Any	Auger sampler

2.7 Drum Certification

For wastes contained in drums, the generator is required to describe the methods used to assess the structural integrity of the drums and overpacks, to provide information on drum age and prior life, to supply data on chemical exposure of the drums within the Waste Sampling Plan. This information will be used to evaluate potential risks (i.e., drum bulging or leaking) related to storage of the wastes. The information provided shall support the certification of the drums according to the requirements specified in Section 6.0 of this WAP.

3.0 WASTE ACCEPTANCE CRITERIA

3.1 Definition of Liquid, Sludge and Solid

The requirements for characterizing wastes to be accepted at the TSCA Incinerator are described in the following section. Characterization requirements include evaluating the physical form of the waste, analysis for specific chemical constituents, and a description of the radionuclide content for each waste form. Waste characterization requirements are operationally grouped according to the physical form of the waste as solid, liquid, or sludge, with radionuclide characterization requirements discussed separately. For the purposes of this waste acceptance criteria, the following operational definitions apply.

3.1.1 Liquid

A liquid waste form has no fixed shape, thus takes the shape of its container. Liquid wastes are easily extruded through a small orifice, and have the following physical characteristics:

viscosity	< 5,000 centipoise at 100°F
suspended solids	< 10% by weight
freezing point	< 32°F
boiling point	> 100°F

For the purposes of this document, wastes with a water content of 90 or more percent by weight are considered to be aqueous solutions.

3.1.2 Sludge

A waste in the form of a sludge is a mixture of liquid and fine solids, varying from a form that has no specific shape, thus taking that of its container, to one that has a fixed shape. A sludge can be extruded through an orifice, but high pressure may be required. Sludges have the following physical characteristics:

viscosity	> 5,000 cp and < 500,000 cp at 100°F
solids	> 10% and < 50% by weight
particle size	< $^1/_{16}$ inch (0.16 cm)

3.1.3 Solid

A solid waste form is one that has a fixed shape such that the waste cannot be extruded through an orifice. Application of pressure to accomplish extrusion may cause the material to compact. The specific physical characteristics of a solid are:

solids	> 50% by weight
particle size	> $^1/_{16}$ inch (0.16 cm)

3.3.2.2 Values reported on the Waste Analysis Form must be reported in terms of the "*as received*" concentration, (i.e., the actual concentration of each parameter in the waste received at the TSCA Incinerator, as opposed to reporting the concentration on a dry weight basis). The "as received" concentration is the measurement of critical importance to incinerator operation, storage requirements and treatment. Reporting all values in those terms will help minimize potential misinterpretation of data.

3.3.3 Waste Analysis Form - General Information (Appendix B)

3.3.3.1 The Disposal Number is the number assigned by TSCA Operations to a particular waste shipment from the "Request for Disposal/Storage of Waste Materials and Equipment", form UCN-12463. This number may be filled in by the Waste Generator.

The Laboratory Number is the internal tracking number assigned at a particular site. It shall be filled in by the generator to provide cross-referencing and tracking of reported results.

3.3.3.2 The first section of the Waste Analysis Form - General Information should indicate whether the waste being submitted is a solid, liquid, or sludge, based on the definitions in Section 3.1.

3.3.3.3 In the second line of the form, indicate whether the waste is soluble or insoluble in water.

3.3.3.4 The next three lines on the form are used to specifically identify the waste in terms of the regulatory, safety, and operational considerations for the TSCA Incinerator. The Environmental Protection Agency (EPA) Hazardous Waste Identification Code as described in 40 CFR 261 must be provided for the waste.

NOTE: Since the toxicity characteristic hazard under RCRA imposes some special considerations, it should be specifically noted that if any of the EPA codes D004 through D043 are not listed on the form, that indicates the waste is known to *not* be characteristically toxic for the specific material, according to the limitations imposed under the Toxicity Characteristic Leaching Procedure (TCLP) as described in Table 2.

If the waste is classified as carcinogenic by the OSHA, certain additional storage and labelling precautions may be required at the TSCA Incinerator facility. Indicate, by marking the appropriate box on the form, whether the waste is known to be carcinogenic. If the waste is not classified by the OSHA as carcinogenic, mark the "no" box.

The TSCA Incinerator Waste Stream Identification Number is the number assigned to an individual waste stream being generated within a given plant process (i.e., from the Long-Range Burn Plan). If the waste being prepared for shipment has not been assigned an identification number, contact the TSCA Incinerator Operations staff.

3.3.3.5 Major Constituents

In the next section of the form, indicate the category or categories that best describe the waste form, providing an estimated percentage by weight for each item marked. The weight percent does not need to be precise and can be based on the generation history of the waste rather than on specific analyses. However, the estimate of weight percentages listed on the form must total at least 90%. If 90% of the weight of the waste cannot be determined, constituents of the waste should be determined using gas chromatography/infrared analysis.

Chemical parameters:

total sulphur
total chloride
total fluoride
metals

3.4.1.3 For the following parameters, the analytical method used must be capable of attaining at least the following lower limits of detection.

Parameter	Lower Limit of Detection
Total chloride	0.1%
Ash	0.05%
Viscosity	5 cp
Heating Value	50 BTU/lb
PCBs	0.5 ppm
Lead	3 ppm
Beryllium	0.045 ppm
Mercury	0.08 ppm

3.5 Acceptance Criteria for Solid Waste

NOTE: Refer to Table 2 for specific analytical methods required by the K-1435 TSCA Incinerator Operating Permit.

3.5.1 General Criteria

3.5.1.1 The set of Waste Analysis Forms addressing solid wastes (Appendix C) describes the data required on such wastes, specifying the limits which must be met where such limits are applicable. The specific analytical procedures for obtaining waste characterization information are listed in the following narrative descriptions.

3.5.1.2 The contents of drummed solids should be shreddable, so that rebar, pipe, and concrete over 2 inches in diameter should be excluded. Uncontainerized bulk solids must be free of solid material over 4 inches in diameter. Material that cannot be compacted such as bolts or rebar, must not exceed 2 inches in diameter. If it cannot be shown that wastes are free of such material, the uncontainerized bulk solid waste must be screened prior to shipment.

3.5.1.3 The following parameters must be known to within ± 10% accuracy:

Physical parameters: ash content
heating value

Chemical parameters: total chloride
total fluoride
total sulfur
metals

3.6.1.3 For the following parameters, the analytical method used must be capable of attaining at least the following lower limits of detection.

Parameter	Lower Limit of Detection
Total chloride	0.1%
Ash	0.05%
Heating Value	50 BTU/lb
PCBs	20 ppm
Lead	3 ppm
Beryllium	0.5 ppm
Mercury	0.08 ppm

3.7 Acceptance Criteria for Radionuclides

3.7.1 Process Knowledge as Basis for Analysis

Analysis of waste streams for radionuclides is based on knowledge of the waste generation process. By reviewing the history of the facility in which the waste was generated, the activities that resulted in its generation, and the radionuclides which were involved in the process, a list of the specific radionuclides which may be expected to occur in the waste can be developed. This list may be developed for individual processes at a given facility or, if the operations are sufficiently similar, to encompass all waste from a given facility. Through a series of discussions with the waste generating sites which will ship waste to the TSCA Incinerator, two general lists of radionuclides were developed. The first list includes radionuclides which may result from operations at the Oak Ridge K-25 Site, the Paducah Gaseous Diffusion Plant, the Portsmouth Gaseous Diffusion Plant, the Oak Ridge Y-12 plant, Fernald Environmental Management Project, or the RMI Extrusion Plant. The second list is specific to the Oak Ridge National Laboratory. These two lists are shown on the respective forms in this Section. The rationale for developing the lists was similar to the approach taken to determine radionuclide parameters for environmental monitoring at the facilities (i.e., after examining the operations, the radionuclides considered to be potentially present in the waste were listed).

3.7.1.1 Required Analysis

Each waste stream shall be analyzed (refer to Section 3.7.4.) for all radionuclides considered as being potentially present, based on the waste generator's process knowledge.

3.7.1.2 Excluding Radionuclides from Waste Analysis List

The lists shown on the Waste Analysis Forms - Appendix D and Appendix E were developed to be as complete an inventory as possible of radionuclides that may be expected to occur in waste sent to the TSCA Incinerator. In many instances, the waste generator's knowledge of a specific process within the facility may indicate that some of the general list of radionuclides would not be expected to be present in the waste resulting from that process. In those instances, it is not necessary to analyze for the excluded radionuclides. If that applies to a given waste being shipped to the TSCA Incinerator, the waste generator should:

(a) write "NA" on the Waste Analysis Form in the blank beside the applicable radionuclide, and

3.7.2.3 Screening Methods

Screening analysis should be performed by gross liquid scintillation counting. Gross alpha/beta gas proportional counting may also be used, but, due to loss of volatile radionuclides during analysis, it is not the preferred method. A gamma spectroscopy screen shall also be performed and each identified activity shall be reported.

3.7.3 Reporting Analytical Results

All radionuclide analyses must be reported as the actual measurement result, whether positive or negative, with its associated uncertainty. Reporting results as "less than" values or as "not detected" is not acceptable. The precision of radionuclide analytical results shall be reported as a range, a variance, a standard deviation, a standard error, or a confidence interval.

3.7.4 Radioanalytical Procedures

3.7.4.1 Lower Limits of Detection

Methods used for analysis of radionuclides in waste must be capable of achieving the following lower limits of detection:

Radionuclide	Required LLD (pCi/g)	Radionuclide	Required LLD (pCi/g)
H^{3}	60	Pb^{210}	1
C^{14}	60	Th^{228}	1
P^{32}	5	Th^{230}	1
Co^{57}	0.1	Th^{232}	1
Co^{60}	0.5	Th^{234}	1
Kr^{85}	5	Pa^{234m}	1
Sr^{90}	5	U-alpha	1
Tc^{99}	20	Np^{237}	1
I^{131} [a]	0.7	Pu^{238}	1
Cs^{137}	1	Pu^{239}	1

[a] If the waste has been in storage for more than six months, analysis for I^{131} is not required.

3.7.4.2 Recommended Methods

The following procedures are recommended:

Parameter	Method
Np, Pu, Th,	ACD-1664, K-25 Site Analytical Chemistry
U-alpha	Department Technical Procedures Manual
Technetium-99	(1) EC-186, "Technetium-99 in Water (Radiochemical Method)," Martin Marietta Energy Systems Environmental and Effluent Analysis Manual
	(2) EC-260, "Technetium-99 in Air Filters (Radiochemical Method)," Martin Marietta Energy Systems Environmental and Effluent Analysis Manual
	(3) EC-355, "Technetium-99 in Sediment and Soil (Radiochemical Method)," Martin Marietta Energy Systems Environmental and Effluent Analysis Manual

4.1 Initiating a Request for Variance

4.1.1 Initial Discussions

When a generator considers requesting a variance from one of the waste acceptance criteria, the specific criterion in question and the difficulty in meeting it should first be discussed informally with the K-25 Site Waste Management Operations and TSCA Operations Division. These initial discussions will serve as an alert that a request for variance may be submitted, will assist in identifying the specific difficulties in meeting the criterion, and will allow investigation of possible options for supplying acceptable alternative characterization data as a substitute for the specific criterion.

4.1.2 Formal Request

If the informal discussion indicates that it may be possible to accept the variant waste through some other mechanism than that described in the waste acceptance criteria, a formal request for variance must be submitted to the TSCA Operations Division during the waste acceptance process. The request must contain the following information:

4.1.2.1 Specific criterion for which the variance is requested. The criterion may be an analytical procedure, a specific chemical, physical, or radiological limit, a sample collection procedure, or other criteria listed in Section 3.0.

4.1.2.2 Explanation of why the variance from the waste acceptance criteria is needed.

4.1.2.3 Indication whether the variance is needed for a single waste shipment or on a continuing basis.

4.1.2.4 Description of the method or limit being proposed as a substitute, including the type and quality of data that will be collected, as appropriate.

4.1.2.5 Comparison of the proposed method or limit with the published waste acceptance criteria, including evaluation of the comparative impacts on waste characterization activities, personnel exposures, and quality of characterization data.

4.1.2.6 Additional procedures or process controls that will be implemented at the generator facility as a result of the variance, if applicable.

4.2 Disposition of Requests

Requests for variances from the waste acceptance criteria will be reviewed and evaluated on an individual basis. If additional information is needed to adequately evaluate the impact on operations of granting the request, the applicable information will be requested and must be provided before disposition of the request can be made. Disposition of each request will be approved by TSCA Operations and will be made formally in writing. Variance to the Waste Acceptance Criteria can be granted by the TSCA Program Manager, Deputy Program Manager, Blend Master, or Burn Plan Manager. The actions that may be taken on an individual request are:

5.1.3 Nuclear Materials Transfer Documentation

The appropriate documentation for shipments of special nuclear materials must be completed when applicable and must accompany the shipments to the K-1435 TSCA Incinerator. The documents are as follows:

"Nuclear Materials Transportation Request" form DOE/NRC-741
"Request for Authorization to Ship Material to K-25" form UCN-16409

5.1.4 Material Safety Data Sheet

A Material Safety Data Sheet (MSDS) must be provided to the TSCA Incinerator personnel for compounds identified in the waste when the waste characterization analytical data or process knowledge information is available.

5.1.5 LDR Notification

As required by 40 CFR 268; use standard forms such as McCoy and Associates.

5.1.6 Operation Records

Files are maintained for each generator at the TSCA Operations Division offices at the K-25 Site. These files contain all correspondence, pretreatment information, DAC numbers and shipment schedules, shipment inspection information, and waste verification results.

5.2 Review of Waste Characterization Data

The TSCA Division reviews the waste characterization analytical data and process knowledge provided by the waste generator. The information is complied into a DAC package and is reviewed by the K-25 Site Industrial Hygiene, Health Physics, and Waste Managements groups to specify personnel protective equipment, and anti-C clothing. During the reviews, variances can be granted on a case-by-case basis. A representative from all four groups signs the DAC package after the review cycle is completed.

6.0 WASTE PACKAGING REQUIREMENTS

6.1 General Information

All material shall be packaged, labeled, and shipped according to Department of Transportation (DOT) regulations, the requirements of the Resource Conservation and Recovery Act Toxic Substances Control Act, and applicable state regulations.

6.2 DOT Regulations

All transport containers must comply with the DOT shipping regulations of Title 49 Code of Federal Regulations, and with DOE Order 5820.2A, Radioactive Waste Management.

6.3 Radiation Requirements

Individual shipping containers of waste must not exceed the following radiation levels:

6.3.1 The maximum dose equivalent rate at the surface of the container must not exceed 50 mrem/h.

6.3.2 The maximum dose equivalent rate at two feet from the surface of the container must not exceed 5 mrem/h.

6.3.3 The amount of transferrable contamination on exterior surfaces of the container must not exceed 1000 dpm/100 cm^2 for beta-gamma contamination or 200 dpm/100 cm^2 for alpha contamination.

6.5.3 Drum Freeboard Specification

In waste shipments contained in drums, the generator shall leave a minimum drum freeboard of 5%. This requirement will provide protection against drum damage due to weather-related phase changes, liquid expansion, and gas over-pressure.

6.5.4 Handling and Department of Transportation Requirements

Liquid wastes must be packaged in 17E specification bung drums to allow for easier access to and removal of the waste in the drum.

PCB containing wastes must be packaged in drums which meet DOT Specification and the requirements of 40 CFR 761. Present requirements are 17E for liquids and 17C for solids.

TABLE 1 SUMMARY OF WASTE INFORMATION		
Hazardous Waste	Hazard	EPA Hazardous Waste Code
2,4-Dinitrotoluene	Toxic	D030
Heptachlor	Toxic	D031
Hexachlorobenzene	Toxic	D032
Hexachlorobutadiene	Toxic	D033
Hexachloroethane	Toxic	D034
Methyl Ehtyl Ketone	Toxic	D035
Nitrobenzene	Toxic	D036
Pentachlorophenol	Toxic	D037
Pyridine	Toxic	D038
Tetrachloroethylene	Toxic	D039
Trichloroethylene	Toxic	D040
2, 4, 5-Trichlorophenol	Toxic	D041
2, 4, 6-Trichlorophenol	Toxic	D042
Vinyl Chloride	Toxic	D043
Spent Halogenated Solvents, Sludges from the Recovery of Specific Solvents	Toxic	F001 and F002
Spent Non-Halogenated Solvents, Sludges from the Recovery of Specific Solvents	Ignitable	F003
Spent Non-Hazardous Solvents, Sludges from the Recovery of Specific Solvents	Toxic	F004
Spent Non-Halogenated Solvents Sludges from the Recovery of Specific Solvents	Ignitable, Toxic	F005
Waste Water Treatment Sludges from Electroplating Operations except from Specific Processes	Toxic	F006
Plating Bath Residues from the Bottom of Plating Baths from Electroplating Operations where Cyanides are used in the Process	Reactive, Toxic	F008

TABLE 1

"P" and "U" HAZARDOUS WASTE CODES

The basis for hazardous designation for all EPA Hazardous Waste Codes is derived from Tennessee Rule Chapter 1200-1-11-.02. The name of the substance is also found in Tennessee Rule Chapter 1200-1-11-.02.

"U" Hazardous Waste Codes								
U001	U028	U056	U083	U111	U137	U164	U191	U221
U002	U029	U057	U084	U112	U138	U165	U192	U222
U003	U030	U058	U085	U113	U140	U166	U193	U223
U004	U031	U059	U086	U114	U141	U167	U194	U225
U005	U032	U060	U087	U115	U142	U168	U196	U226
U006	U033	U061	U088	U116	U143	U169	U197	U227
U007	U034	U062	U089	U117	U144	U170	U200	U228
U008	U035	U063	U090	U118	U145	U171	U201	U234
U009	U036	U064	U091	U119	U146	U172	U202	U235
U010	U037	U066	U092	U120	U147	U173	U203	U236
U011	U038	U067	U093	U121	U148	U174	U204	U237
U012	U039	U068	U094	U122	U149	U176	U205	U238
U014	U041	U069	U095	U123	U150	U177	U206	U239
U015	U042	U070	U096	U124	U151	U178	U207	U240
U016	U043	U071	U097	U125	U152	U179	U208	U243
U017	U044	U072	U098	U126	U153	U180	U209	U244
U018	U045	U073	U099	U127	U154	U181	U210	U246
U019	U046	U074	U101	U128	U155	U182	U211	U247
U020	U047	U075	U102	U129	U156	U183	U213	U248
U021	U048	U076	U103	U130	U157	U184	U214	U249
U022	U049	U077	U105	U131	U158	U185	U215	U328
U023	U050	U078	U106	U132	U159	U186	U216	U353
U024	U051	U079	U107	U133	U160	U187	U217	U359
U025	U052	U080	U108	U134	U161	U188	U218	
U026	U053	U081	U109	U135	U162	U189	U219	
U027	U055	U082	U110	U136	U163	U190	U220	

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APPENDIX A

TSCA INCINERATOR OPERATIONS
WASTE ANALYSIS FORM
GENERAL INFORMATION

Disposal Number _____ Laboratory Number _____

General Plant _____

Department _____

Generator EPA ID No. _____

Quantity _____(Lbs. or Gal.) - Indicate one by circling

PCB _____ Non-PCB _____

Drum Numbers:

Prepared by _____ date _____

APPENDIX B
TSCA INCINERATOR OPERATIONS
WASTE ANALYSIS FORM - PHYSICAL PARAMETERS FOR LIQUID WASTES

Disposal Number _____ Laboratory Number _____

Drummed Waste Certification: Minimum 1 year drum shelf life: [] yes [] no
Drum Liner Compatibility [] yes [] no
Minimum 5% drum freeboard: [] yes [] no

Specific Gravity _____ Heating Value (BTU/lb) _____

Flash Point (°F) _____ Ash Content (weight %) _____

Number of phases _____ _____%

_____% _____%

Parameter	Limit	Result
Viscosity (cp)	5000	_____
Corrosivity (Organic waste only)	< 6.35 (mm/yr)	_____
OR		
pH (aqueous waste only)	8-10	_____
PCB		_____ ppm or _____ WT%

Boiling Point (°F)	>100	_____
Freezing Point (°F)	<32	_____

METAL ANALYSIS

Metal (µg/g)	Result	Metal (µg/g)	Result	Metal (µg/g)	Result
Antimony	_____	Lithium	_____	Selenium	_____
Arsenic	_____	Magnesium	_____	Sodium	_____
Barium	_____	Manganese	_____	Thallium	_____
Copper	_____	Nickel	_____	Titanium	_____
Iron	_____	Silver	_____		

Prepared by _____ date _____

APPENDIX C
TSCA INCINERATOR OPERATIONS
WASTE ANALYSIS FORM - PARAMETERS FOR SOLID/SLUDGE WASTE

Disposal Number _____ Laboratory Number _____

PHYSICAL PARAMETERS

Parameter	Result
Ash Content (weight %)	_____
Heating Value	_____BTU/lb

CHEMICAL PARAMETERS

Parameter	Limit	Weight %	Parameter	Results
Total Chloride	75.0 %	_____	Phosphorus	_____ppm
Total Sulfur	10.0 %	_____	PCB	_____ppm or _____% WT
Total Fluoride	21.0 %	_____		

Provide the following information (if applicable and known) for any equipment from which PCB wastes are removed:

Location_____ Manufacturer_____
Serial Number _____ Date removed from service_____

Does this waste contain brominated compounds? [] yes [] no

URANIUM ANALYSIS

Requirements: Duplicate uranium and U235 analyzes are required for criticality control.

Analysis #1		Analysis #2	
Total Uranium	_____ppm	Total Uranium	_____ppm
Uranium-235	_____% by weight	Uranium-235	_____% by weight

	Limit	Result	Uncertainty
Pu-238, Pu-239, Np-237	246 pCi/g or 4 ppb	_____	_____

Prepared by _____ date _____

APPENDIX D
TSCA INCINERATOR OPERATIONS
WASTE ANALYSIS FORM - RADIONUCLIDE PARAMETERS
ALL SITES EXCEPT ORNL

Disposal Number _____ Laboratory Number _____

RESULTS NUCLIDE	UNCERTAINTY (pCi/g)	(pCi/g)	RESULTS NUCLIDE	UNCERTAINTY (pCi/g)	(pCi/g)
Tc^{99}	_____	_____	Pa^{234m}	_____	_____
Cs^{137}	_____	_____	U-alpha	_____	_____
Th^{228}	_____	_____	Np^{237}	_____	_____
Th^{230}	_____	_____	Pu^{238}	_____	_____
Th^{232}	_____	_____	Pu^{239}	_____	_____
Th^{234}	_____	_____	_____ A	_____	_____
_____	_____	_____	_____	_____	_____

SCREENING ANALYSIS

Gross Radioactivity Measured _____ ± _____
(pCi/g)

A Identify and quantify other radionuclides present in the waste, but not included on this list. Include explanation if any listed radionuclides are not expected to be present in the waste.

Prepared by _____ date _____

APPENDIX F. CHECKLIST FOR GENERATORS

The following steps must be performed in order to ship waste to the TSCA incinerator:

_____ 1. Waste Sampling Plan prepared and approved by Incinerator Operations.

_____ 2. Waste Analysis form -Part I (General Information) completed.

_____ 3. Applicable Waste Analysis forms - Part II (specific physical and chemical characterization data) completed.

_____ 4. Waste Analysis form - Part III (Radionuclide Data) completed.

_____ 5. Request for Disposal/Storage of Waste Material and Equipment Form UCN-12463 is completed.

_____ 6. Uniform Hazardous Waste Manifest completed.

_____ 7. Uniform Hazardous Waste Manifest attachment for TSCA waste completed.

_____ 8. DOE/NRC form 741 for special nuclear material completed, if applicable.

_____ 9. UCN-16409 for special nuclear material completed, if applicable.

_____ 10. Material Safety Data Sheet(s) for waste form submitted as necessary.

_____ 11. Applicable data submitted to TSCA Operations for review.

_____ 12. Approval from TSCA Operations to ship waste granted.

_____ 13. Land Disposal Restriction attachment to Uniform Hazardous Waste Manifest, if applicable.

INCINERATION PROJECT

Preliminary Evaluation of Acceptability

at the TSCA Incinerator

The attached table provides a comparison between the constituents found in the liquid mixed waste to be shipped to the TSCA Incinerator and TSCA Incinerator waste acceptance criteria (WAC). The table lists five heavy metal contaminates present in the liquid mixed waste at the FEMP and controlled by the TSCA WAC.

The table has been designed to identify the waste streams which represent the largest contributors to each batch of waste. Each line on the table contains the information for one Material Evaluation Form (MEF). Because their are approximately 139 MEFs included in this project, only MEFs which contain twenty or more drums are included in this table. 1813 of the approximately 2300 drums of waste (approx. 80%) in the project are represented in the attached table.

The left column of the table identifies the batch or tank the MEF will be in after bulking.

The second column identifies the MEF number in which the characterization data for that waste stream is contained.

The third column indicates the number of drums of waste contained in the MEF.

The fourth column indicates whether the waste within that specific MEF has been assigned a RCRA "D," "F,' waste code or both codes.

The fifth through eighth columns indicate the average concentration of specific heavy metals contained in the waste. The four listed heavy metals are the only metals contained in the waste streams that are controlled by the TSCA WAC. The top of the table, directly below each constituent of concern, indicates the TSCA WAC maximum concentration of that specific constituent.

Of the waste streams to be consolidated in this project, only two are known to contain concentrations of heavy metals in excess of the TSCA WAC. These two waste streams (MEFs 60085 and 1411) contain average concentrations of lead in excess of the TSCA WAC. However, because these waste streams comprise a small portion of the total volume of waste within their respective batches, the concentration of lead in the total batch will be well below the TSCA WAC acceptance limit.

Data from the MEF files for each waste stream is enclosed to supplement the information contained in the table. Please be advised that it is possible that the RCRA determinations of a few of the waste streams may change based on additional information. The RCRA determination of Hilco waste oil (MEF 60070), for example, is undergoing review in conjunction with a Hazardous Waste Management Unit reclassification effort of the Hilco Oil Recovery Unit. One or both RCRA waste codes assigned to the Hilco waste oil may therefore be dropped based on the results of the reclassification effort. Changing the RCRA classification for this waste stream will not change the disposal method.

INCINERATION PROJECT

Batch Number	MEF Number	Number of Drums	Parameters for Liquid Waste				
			Parameter	Cadmium	Chromium	Lead	Mercury
			Limit (PPM)	500	3,300	2,000	60
			D/F Codes				
1	10004	22	D&F	0.298	376	1.41	N/D
1	10010	529	D&F	<5 **	2.6	<50 **	N/D
2	20003	280	D&F	N/A	N/A	N/A	N/A
2	426	222	D	N/A	N/A	N/A	N/A
3	30034	85	D&F	<1.0	<5.0	<5.0	<0.2
3	60051	26	F	0.058	0.06	1.0	0.005
3	60070	60	D&F	0.1	2.8	1.21	N/D
3	60078	20	D&F	2	1.57	64	0.0001
3	60080	30	D&F	N/D	<11.8 **	1,970	N/D
3	60084	35	D&F	0.6	1.7	7.0	0.12
3	60085	53	D&F	52	888	7,885	N/D
4	418	60	D&F	N/A	N/A	N/A	N/A
4	1229	33	D	N/D	N/D	11.1	0.226
4	*** 1411	67	D&F	N/D	1307	8723	27.1
4	10026	39	D&F	0.8	2.11	1.4	5.01
4	30005	79	D&F	0.4	1.3	3.6	0.003
4	60056	20	D&F	0.38	69	52	0.433
5	425	41	D	>1.0 •	>5.0 •	>5.0 •	<0.2
5	60055	20	D	N/D	N/D	666.2	N/D
5	60301	71	Non-Haz	N/D	0.0292	2.2	N/D
5	60331	21	D	N/D	N/D	1.0	N/D

• Although these were not analyzed, process knowledge indicates a possibility of slightly elevated concentrations of these metals.
** The detection limit of the analysis exceeded the regulatory limit.
*** MEF 60057 within batch 4 has been archived into MEF 1411.
N/A – Not Analyzed
N/D – Not Detected

clj 05-Jan-95

February 24, 1994

MEF No.: 10004
MTC: 013 SRC: 735
SAP No.: 031

Sampling and Analysis Narrative

Based on the lot code marking information, the material contains from 0.50 to 0.95% U^{235}. According the 90% confidence interval on the statistical results portion of the laboratory report, this waste contains from 0.27 to 0.61% U^{235}, and up to 141.5 ppm total U.

Since the flash point is >200°F, it is assumed that this waste consists primarily of water and solvents.

Organic constituents include the following: 1,1,1 trichloroethane [<.005 to <5,000 ppm], tetrachloroethylene [27 to 125,000 ppm], dichloroethylene [1.6 to <5,000 ppm], chlorobenzene [<.005 to <5,000 ppm], toluene [<.007 to <5,000 ppm], benzene [<.005 to <5,000 ppm], trichloroethylene [<.045 to <5,000 ppm], carbon tetrachloride [<.005 to <5,000 ppm].

Inorganic constituents include the following: arsenic [<.005 to <.1 ppm], barium [0.992 to 3.8 ppm], cadmium [<.005 to 0.158 ppm], chromium [0.104 to 352 ppm], lead [<.03 to 0.71].

Because it is not possible to determine which samples came from which drums, from the information provided, I have requested the Data Review and Assessment (DR&A) information on this MEF. However, the MEF is considered complete for characterization purposes, as this waste is going to be bulked with other waste for incineration.

February 24, 1994

MEF No.: 10010
MTC: 039 SRC: 655
SAP No.: 201

Sampling and Analysis Narrative

Based on the lot code marking information, the material contains from <0.710 to 1.25% U^{235}. According the 90% confidence interval on the statistical results portion of the laboratory report, this waste contains from 0.19 to 0.41% U^{235}, and from 591 to 1091 ppm total U.

This waste consists primarily of water and oil. Additional organic constituents include the following: 1,1,1 trichloroethane [.36 to 92 ppm], acetone [1 to <20 ppm], methyl ethyl ketone [<.50 to <10 ppm], xylenes [<.25 to <5 ppm], trichloroethene [<.25 to <5 ppm], tetrachloroethylene [<.25 to <100 ppm], dichloroethylene [<.25 to <5 ppm], ethylbenzene [<.25 to <5 ppm]. Additional inorganic constituents include the following: arsenic [<.10 to .51 ppm], barium [0.23 to 1.9 ppm], cadmium [<.5 to <5], chromium [.34 to 2.6 ppm], lead [<5 to <50 ppm], silver [0.52 to 2.5 ppm].

The data were percent averaged based upon the layering volumes given in the sampling log to yield one "sample". This provided a significantly greater statistical accuracy for determining solvent constituent concentrations. The sampling and analysis train went as follows: Drums in this wastestream were sampled the second week of June. Initially, samples were taken from the individual oil and water layers in the same drum. These samples were composited (oil with oil, water with water) and the composite samples were sent for analysis. The chain-of-custody records indicate that they were received at the lab the first week of August. Therefore, the VOA's and the mercury missed the holding times. According to the sampling log, the containers were resampled the first week of November and sent for analysis of VOA's, mercury, and alpha-beta. Although only the first signature was on the new chain-of-custody, the data release review indicates that all holding times were met. It is not known why statistical analysis was not performed on the metals analysis.

While the analytical report indicates that one of the samples has a pH less than 2.0. This was, according to the chain-of-custody, an oil sample. While the majority of oil in this waste stream was originally water soluble, the acidifying and heating of the mixture has rendered the oil either non-water soluble or only slightly water soluble. Since the oil is no longer an aqueous solution, {defined as at least 50% by weight of water in the sample [OSWER directive 9443.02(85), dated February 26, 1985]} pH readings are invalid. In addition since soluble oil before use is somewhat basic, it is not expected that it will corrode steel at a rate of greater than 1/4 inch per year. All of the water samples have a pH greater than 2.0, therefore this waste stream as a whole will not be RCRA corrosive (D002). It cannot be explained why there is such a variability of pH between water samples, since the pH of the solution was supposed to be less than 1 as the treatment proceeded.

February 24, 1994

MEF No.: 10010
MTC: 039 SRC: 655
SAP No.: 201

Sampling and Analysis Narrative
(continued)

While not all the documentation is provided with this package, this wastestream was characterized in a conservative manner to provide for environmental safety and worker protection.

February 7, 1994

MEF No.: 20003
MTC: 013 SRC: YAQ
SAP No.: 011

Sampling and Analysis Narrative

Based on the lot code marking information, the material contains greater than 0.712% U^{235}. According the 90% confidence interval on the statistical results portion of the laboratory report, this waste contains from 0.71 to 0.84% U^{235}, and from 23.1 to 38.3 ppm total U

A flash point test was performed on different layers of this waste when it was in the tanks. The maximum flash point of these layers was 84°F.

The upper limit of the 90% confidence interval revealed the following organic constituents and concentrations:
1,1,1 trichloroethane - 610,000ppm; tetrachloroethylene - 900ppm; acetone - 500ppm; dichloroethylene - 370ppm; chloroform - 260ppm; toluene - 2,700ppm; xylenes - 1,200ppm; trichloroethylene - 500ppm; carbon tetrachloride - 43,000ppm; 1,1 dichloroethane - 1,100ppm; 1,2 dichloroethane - 800ppm; ethylbenzene - 500ppm; methyl ethyl ketone - 8,000ppm; methylene chloride - 260ppm; methyl pentanone - 500ppm; 1,1,2 trichloroethane - 500ppm.

Although numerous different inorganic constituents are probably a part of this waste, none are likely to exceed the toxicity characteristic limits, given the large number of drums in this waste stream. Although the process knowledge statement indicates that silver or lead may exceed the regulatory limit, it is unlikely that degreasing operations would solubilize enough lead and silver to make the waste stream as a whole exceed the toxicity characteristic for these two constituents.

MEF No.: 426
MTC: 013 SRC: 733
SAP No.: None

Process Knowledge File Narrative

Determination:

RCRA hazardous - D001

Description Name:

This waste is primarily methanol and cyclohexane that was generated in the laboratory, during the colorimetric determination of uranium using an autoanalyzer.

Process Generating the Waste:

The waste consists primarily of methanol and cyclohexane that were used as extractants in a colorimetric determination for uranium. The methanol is mixed with bromo-pyridylazo-dimetylaminopenol (Br PDAP) that will bond to the uranium. This Br PDAP and uranium complex is readily read by the autoanalyzer. The cyclohexane is mixed with trioctylphosphine oxide (TOPO) which separates uranium from major interferences and establishes the proper acidity for uranium extraction. See Method 3002 included with this file for the specifics of the reactions and procedures. According to process knowledge some RCRA characteristic metals may be extracted during the acidification process during this procedure, however, since this procedure is designed to extract uranium specifically, and in consideration of the tremendous number of samples this waste stream represents (on average it takes approximately 225 to fill a 5-gallon bucket, so the 188 buckets currently in this waste stream represent approximately 42,300 samples run), in addition to the highly diverse matrices that received uranium analysis, there is virtually no conceivable chance the waste stream as a whole will exhibit any RCRA characteristic, other than ignitibility. In addition, although the methanol is a potentially F003 RCRA listed waste, the procedure stipulates the methanol is to be combined with either Br PADAP, or Br PADAP and water prior to introduction to the autoanalyzer. By definition, the methanol before use must be either 100% methanol, or methanol mixed with at least 10% of another RCRA F-listed waste to be considered F003. Therefore, by definition, the methanol cannot be F003 listed waste.

Radiological/Chemical Composition:

According to the lot code information, the waste stream contains less than 0.710% U^{235}.

According to process knowledge, this waste stream consists of approximately 80% methanol and 20% cyclohexane. Although additional trace constituents may be present, they will vary with each sample, depending on the matrix being analyzed.

MEF No.: 426
MTC: 013 SRC: 733
SAP No.: None

Inventory:

The waste stream consists of 188 drums in 87 lots identified on the Inventory Identification Attachment to the MEF.

Reference Documents:

METHOD 3002	THE COLORIMETRIC (BR PADAP) DETERMINATION OF URANIUM USING AN AUTOANALYZER
40 CFR 261.31	DEFINITION OF F003 LISTED WASTE
	CONVERSATION REPORTS

November 14, 1994

MEF No.: 30034
MTC: 015 SRC: 741
SAP No.: None

Process Knowledge File Narrative

Determination:

RCRA hazardous: D018, F001

Descriptive Name:

The lot code marking and the MEF describes this material as contaminated insoluble oil generated at the garage.

Process Generating the Waste:

The MEF and the Documentation Of Process Knowledge form indicate this waste is probably used oil generated from changing the oil in motor vehicles, and from various other pieces of equipment. Although this is not definitive information, the analytical results appear to support these assumptions.

Analytical results indicate the presence of several solvents and metals in trace amounts that could not be readily explained. The analytical results for volatile organics is somewhat confusing in that it indicates that a TCLP extract was received at the analytical laboratory. It is unlikely that a TCLP extract was sent by this facility, when in fact it is likely the laboratory actually analyzed the material using a totals analysis, which in a liquid is equivalent to a TCLP analysis. In either case the only TC constituent to exceed the regulatory limit is benzene. Although 1,1,1-trichloroethane (TCA) was detected in relatively low concentrations, it was common practice to dump used TCA into used oil at this facility. In addition, TCA was used in the garage for its solvent properties. According to additional information provided in this MEF, at least some of the drums are likely to have originated from underground storage tank #5. That tank was used to store oil that had been skimmed from an oil/water separator in the garage. Spent TCA is known to have been washed into the oil/water separator. Therefore, this wastestream will also carry the RCRA waste code F001. No other constituents can be determined by process knowledge to be listed waste. No TC constituent is expected to exceed its respective regulatory limit, with the exception of the benzene which likely originated from gasoline leaking into the engine oil.

Radiological/Chemical Composition:

According to the lot code marking, the drums presently in inventory contain between 0.20 and 0.95% U^{235}. A calculation based on analytical data from other used oil waste streams suggested an average of 74.1 ppm of total U for this waste.
This waste stream consists primarily of oil and water.

November 14, 1994

MEF No.: 30034
MTC: 015 SRC: 741
SAP No.: None

Inventory of Materials:

This waste stream presently consists of eightyfive drums in thirteen lots as listed on the Inventory Identification Attachment to the MEF. Additional inventory may be added in the future with additional Verification MEF's.

Reference Documents:

MEF FORM
DOCUMENTATION OF PROCESS KNOWLEDGE

September 9, 1994

MEF No.: 60051
MTC: 013 SRC: 736
SAP No.: 844

Sampling and Analysis Narrative

According to the lot code marking the amount of U^{235} present in this waste will be approximately 0.50% or less. Analytical results indicate a range of U^{235} from 0.23 to 1.03%, with an 90% upper confidence interval of 0.81%.

Total uranium ranges from 1 ppm to 5,460 ppm, with an 90% upper confidence interval of 3,765 ppm.

Analytical results indicate all phases of this waste contain organic solvents. These solvents, and their 90% upper confidence interval, in parts per million, include: acetone [15458], tetrachloroethylene [102561], trichloroethane [7423], toluene [6186], xylenes [3716], and methyl isobutyl ketone [6186]. A TCLP analysis performed on the solid phase of this waste indicates that tetrachloroethylene will leach from the solids in excess of its TC regulatory limit of 0.7 ppm. The solid phase of this waste contained significantly more organics than the other phases of the waste.

Analytical results also indicate all phases of this waste contain inorganic constituents that are identified in 40 CFR 261.24. The inorganic constituents present in this waste, and the 90% upper confidence interval, in parts per million, include: arsenic [0.4], barium [0.474], cadmium [0.058], chromium [0.060], lead [1.0], and mercury [no significant range]. The TC regulatory limit for inorganic constituents was not approached in any phase of this waste.

November 9, 1993

MEF No.: 60070
MTC: 015 SRC: 530
SAP No.: 862

Sampling and Analysis Narrative

This material is contaminated insoluble oil from the Hilco Oil Recovery System in Plant 5. Process knowledge indicates the oil was machine lubricating oil, Shell Oil Company product "Shell Turbo 68". Samples were collected from ten drums out of the 60 drums total, for a total of 10 samples plus one trip blank. The samples were analyzed for Total VOCs, TCLP Metals, Total uranium, U-235 content, Flash Point, and pH (were possible). The results of the sampling are given below. Concentration ranges are given in parts per million (ppm):

Acetone:	4 - 32
Benzene:	0.5 - 15
Ethyl benzene:	0.1 - 14.3
1,1,1-trichloroethane:	0.1 - 14.3
Tetrachloroethene:	1.1 - 15.2
Toluene:	1 - 15
Trichlorofluormethane:	2 - 16
Xylenes:	1 - 15
Barium:	0.1 - 0.2
Cadmium:	no range
Chromium:	1.1 - 2.8
Lead:	0.34 - 1.21
Selenium:	0.02 - 0.13
Total uranium:	4 - 29
U-235:	0.4 - 0.60 wt %
pH:	6.9 - 7.2
Flash point:	132 - 137°F

MEF No.: 60078
MTC: 015 SRC: 739
SAP No.: 870

DATE: 12/7/93

Sampling and Analysis Narrative

The waste samples were collected and analyzed for TC metals, TC VOAs, F001-F005 solvent constituents, Total U, $U^{235/236}$, and flash point.

Radiological analysis indicated a total U concentration of 16 ppm. The weight percent of U^{235} is 0.97 %.

The analytical results reported detection of benzene (2,088 ppm), ethylbenzene (2,103 ppm), toluene (5,403 ppm), xylene (18,159 ppm), MEK (4,369 ppm), tetrachloroethylene (2,092 ppm), 1,1,1-trichloroethane (2,677 ppm), and trichlorofluoromethane (2,127 ppm).

Benzene, ethylbenzene, toluene, and xylenes are constituents of oils and fuels and are therefore considered components of the waste matrix and not spent solvents.

The garage may have used a degreasing compound which contained xylenes however there is no process knowledge to indicate the degreaser used contained a before use concentration of xylene required for an F003 listing. In order for the detection of xylene to be considered for listing, the before use concentration must be 100% xylene or a mixture of xylene with 10% or more of other F001 through F005 constituents and only these constituents. The presence of any other non-regulated constituent such as mineral oil and the solution does not meet the before use concentration requirement for F003 listing. Process knowledge indicates primarily xylene solution was not used for degreasing in the garage.

Process knowledge indicates MEK was a component of degreasing solutions and is considered to be a spent solvent in this waste stream. The halogen compounds detected, tetrachloroethylene, 1,1,1-trichloroethane, and trichlorofluoromethane are considered spent solvents in accordance with the EPA's rebuttable presumption policy for halogens in used oil codified in 40 CFR 279. This regulation requires halogens detected at a concentration above 1,000 ppm be considered spent solvents unless the generator can demonstrate otherwise.

Of the metals detected, arsenic (0.14 ppm), barium (0.48 ppm), cadmium (2 ppm), chromium (1.57 ppm), lead (64 ppm), mercury (0.0001 ppm), selenium (0.479 ppm), and silver (0.7 ppm), cadmium and lead were reported at a concentration above the TCLP regulatory limit. The flash point for this material is as low as 87°F and therefore this material is considered ignitable.

The waste is therefore, characterized as a D001 (ignitable), D006 (cadmium), D008 (lead), F002, and F005 RCRA hazardous, low level radioactive waste.

MEF No.: 60080
MTC: 015 SRC: 745
Sample Plan No.: 872

Date: December 6, 1994

Sampling and Analysis Narrative

Samples were taken from this material in 1992 and analyzed for Total organics, Total metals, Total U, and U-235. The total organic analyses showed high concentrations of many organic constituents including: 2,181 ppm acetone; 12,417 ppm Carbon Tetrachloride; 1,053 ppm ethylbenzene; 1,093 ppm Trichloroethylene; 102,886 ppm 1,1,1-TCA (1,1,1-trichloroethane); 1,089 ppm Toluene; 1,058 ppm Xylenes; and 1,077 ppm Trichlorofluoromethane. The waste will be listed as an F002 waste. No other VOCs were identified in the oil. The following D-listings apply: D019 (Carbon Tetrachloride) and D040 (trichloroethylene).

The drums having originated from unknown sources would normally not receive F-listings. This waste stream is used waste oil <u>not</u> for recycle. In light of USEPA's "rebuttable presumption policy" (40 CFR 279.44) for recycled used oil containing greater than 0.1% (>1,000 ppm) total halogens, it is assumed to have been mixed with a listed hazardous waste and must therefore be listed as a RCRA hazardous waste. We reserve the right to apply listings to waste streams, on a case by case basis, if the evaluator justifies the listing. Though this waste oil is not for recycle, and would not normally receive an F-listing, this waste stream is sufficiently similar with the rebuttable presumption policy in the presence of high concentrations of halogenated solvent constituents that the F002 listing will be applied. We acknowledge that this approach is conservative.

Inorganic analyses revealed total metals concentrations less than the TCLP limits for all components except lead, taking into account that total analysis performed on liquids are equivalent to TCLP. The derived TCLP metal analysis found lead (1,970 ppm) in the samples taken from the waste oil. It should be noted that the detection limit for Chromium was above the reguulatory limit and thus will also receive the listing. This waste will therefore carry D007 and D008 waste codes.

<u>Radiological/Chemical Composition (cont):</u>

Flash point results showed the samples had a range of flash points from < 76°F to > 200°F. The waste in this MEF is therefore an ignitible waste and has the waste code D001.

Statistical total uranium concentrations in the waste were 45 ppm; U-235 was found between 0.51 to 1.23 % weight.

MEF No.: 60084
MTC: 015 SRC: 800
SP No: 876

October 25, 1994

Sampling and Analysis Narrative

Analytical samples were taken from 4 drums and analyzed for select Organic compounds, TCLP metals, pH and flash point, and Total U and U-235 %. The material sampled was a liquid in all but one of the samples, so Total concentrations are equivalent to TCLP concentrations in these liquid samples.

High detection limits were observed in one of the liquid samples, though analytically conservative, these data were utilized in calculation of the statistical report. The waste oil was found to contain 1,000 ppm 1,1,1-TCA (1,1,1-trichloroethane), 1,000 ppm tetrachloroethylene, and 1,000 ppm Methylene Chloride.

The drummed waste having originated from unknown sources would normally not receive F-listings. This waste stream is used waste oil not for recycle. In light of USEPA's "rebuttable presumption policy" (40 CFR 279.44) for recycled used oil containing greater than 0.1% (>1,000 ppm) total halogens, it is assumed to have been mixed with a listed hazardous waste and must therefore be listed as a RCRA hazardous waste. We reserve the right to apply listings to waste streams, on a case by case basis, if the evaluator justifies the listing. Though this waste oil is not for recycle, and would not normally receive an F-listing, this waste stream is sufficiently similar with the rebuttable presumption policy in the presence of high concentrations of halogenated solvent constituents that the F002 listing will be applied. We acknowledge that this approach is conservative.

The actual total organic concentrations in the single solid sample are as follows:

Tetrachloroethylene:	27.0
1,1,1-Trichloroethane:	29.0
Trichloroethene:	17.0
Xylenes:	2.8

Dividing the concentration of tetrachloroethylene (PERC) in the solid sample by 20 (as is done in the TCLP procedure with a 20x dilution), would yield a concentration of 1.35 ppm, almost twice the TCLP regulatory limit. The same holds for trichloroethene (TCE). Based on these values the wastes in this MEF could be coded D039 (PERC) and D040 (TCE). This characterization, however, does not require that the waste be D-listed for the constituents tetrachloroethylene (D039) and trichloroethene (D040) since they are covered under the LDR treatment standards for the F002 listing.

For the inorganic analyses, the statistical calculations for lead (D008), and selenium (D010) show they exceed the TCLP limits. These values were performed using the ICP method and may be high due to uranium interference. The Graphite Furnace Method was not performed on the sample, therefore, the D-listings for metals will apply.

Sampling and Analysis Narrative (continued)

Uranium analyses yielded total Uranium concentrations of 0 - 10,200 ppm and U-235 concentrations of 0.32 - 0.76 weight %. Flash point results ranged from 69°F to 101°F on the liquid samples, making the waste D001 ignitible.

This material is therefore characterized as RCRA Hazardous D001 (ignitable), D008 (lead), D010 (selenium) and F002 low level radioactive waste.

MEF No.: 60085
MTC: 015 SRC: 801
Sample Plan No.: 877

Date: April 18, 1994

Sampling and Analysis Narrative

Sampling and analyses were performed on this material in 1992 and analyzed for Total Organics, Total (TC list) metals, Total U, and U-235, under Sampling Plan 877.

Total Volatile organics sample results (expressed as the upper CI in ppm) were; 1,1,1-trichloroethane (109,100), acetone (7,223), cyclohexanone (43,131), ethyl benzene (1,348), methylene chloride (5,531), toluene (1,350), and xylenes (1,408).

Total metals sample results (expressed as the upper CI(90%) in ppm) were; barium (289), cadmium (52), chromium (888), lead (7,885) and selenium (22).

Flash point results showed the samples had a range of flash points from < 55°F up to greater than 200°F, with two of the drums exhibiting flash points of 55°F and 90°F.

Radiological analyses and applied statistical formulas indicate the upper CI total uranium (ppm) and U-235 (wt%) concentrations to be 95 and 0.79 respectively.

From J. T. Hey / 6061 WEMCO:EM:EMON:92-1219

Date: August 19, 1992

Subject: **STATISTICAL REPORT FOR RCRA DETERMINATION OF SAMPLING PLAN 877 (MATERIAL TYPE 015, SOURCE CODE 801)**

To : C. S. Waugh

This report summarizes pertinent information to be used for the RCRA determination of the waste stream sampled and analyzed under Sampling Plan # 877. This waste stream is included in the "23,000 Drums Under the Newly Identified Materials."

This material is coded as "Contaminated Oil, Insoluble" from Plant 8 Maintenance. Logbook entries indicate that the material sampled from drum # R095-801-V015-7331 #48 to be liquid separated into two layers described as a "clear liquid" and a "dark brown liquid." Logbook entries indicated the material sampled from the other drums to be a liquid described as a "black liquid." A Paint Filter Liquid Test (PFLT) was not requested due to the nature of the materials sampled.

The stream is contained in 53 (fifty-three) drums segregated into 2 (two) lots. This is consistent with the inventory provided by MC&A dated July 8, 1992. A list of the Lot Marking System Number(s) is provided in Attachment A.

Sampling and analysis were conducted in accordance with SW-846, "Test Methods for Evaluating Solid Wastes." Attachment B Part I, "Review of Analyses," provides the following information relating to sample analysis:

- Laboratory Number (AnaLIS Number), and Customer Number.
- Matrix description for each sample.
- Analysis results.

Attachment B Part II, "Statistical Results," is a summary of the following information:

- Mean of the results for each constituent detected in the stream
- Standard Deviation, Confidence Interval, and Coefficient of Variance (CV) for each constituent.
- Discussion of statistical methods used.

If you have any questions or comments, please contact Mary K. Morse or me at extension 8482 or 6061, respectively.

James T. Hey, Technologist II
Environmental Monitoring / Site Media Sampling

MKM/lrk

attachments

000098

Lab No. Cust. No. Matrix Lot/Drum No.	Organic Constituent(s):	Total (ppm)	Metal Constituent(s):	TCLP (ppm)	Total (ppm)	Radiological Constituent(s):		Other Analyses:		Rel #/ Lab	Date Met ?
920311-072	Acetone	<12.5	Barium		<0.2	Total U (ppm)	<1	pH	6.3	1288	Y Hg
R877-1	Ethyl Benzene	<6.25	Cadmium		<0.2	U-235 (% wt)	ND	FP	>200	TCT	Y VOAs
2 Ph (clear liquid)	1,1,1 -Trichloroethane	<6.25	Chromium		<0.45	Alpha (pCi/ml)	<27				
R095-801-V015-7331 #48	Toluene	<6.25	Lead		3.9	Beta (pCi/ml)	<70				
72.0%	Xylene	61.5	Selenium		<0.05						
	Methylene Chloride	<6.25									
	Cyclohexanone	<200									
920311-074	Acetone	<125	Barium		<0.2	Total U (ppm)	4	pH	void	1288	Y Hg
R877-3	Ethyl Benzene	106	Cadmium		<0.2	U-235 (% wt)	0.51	FP	>200	TCT	Y VOAs
2 Ph (dark brown liquid)	1,1,1 -Trichloroethane	<62.5	Chromium		<0.45	Alpha (pCi/ml)	<27				
R095-801-V015-7331 #48	Toluene	<62.5	Lead		64.5	Beta (pCi/ml)	<70				
28%	Xylene	1,090	Selenium		<0.05						
	Methylene Chloride	86.4									
	Cyclohexanone	<2,000									
920311-073	Acetone	<12.5	Barium		<0.2	Total U (ppm)	<1	pH	6.4	1288	Y Hg
R877-2(1D)	Ethyl Benzene	<6.25	Cadmium		<0.2	U-235 (% wt)	0.45	FP	>200	TCT	Y VOAs
2 Ph (clear liquid)	1,1,1 -Trichloroethane	<6.25	Chromium		<0.45	Alpha (pCi/ml)	<27				
R095-801-V015-7331 #48	Toluene	<6.25	Lead		0.608	Beta (pCi/ml)	<70				
72%	Xylene	17.7	Selenium		<0.05						
	Methylene Chloride	<6.25									
	Cyclohexanone	<200									

Sampling Plan: 877
Mat. Type: Contaminated Oil, Insoluble
Revised: 08-04-92

Review of Analyses

ATTACHMENT
Part I

Rev. [illegible]

Lab No. / Cust. No. / Matrix / Lot/Drum No.	Organic Constituent(s):	Total (ppm)	Metal Constituent(s):	TCLP (ppm)	Total (ppm)	Radiological Constituent(s):		Other Analyses:		Rel #/ Lab	Date Met ?
920311-075	Acetone	<125	Barium		<0.2	Total U (ppm)	4	pH	void	1288	Y Hg
R877-4(3D)	Ethyl Benzene	72.3	Cadmium		<0.2	U-235 (% wt)	0.39	FP	149	TCT	Y VOAs
2 Ph (dark brown liquid)	1,1,1 -Trichloroethane	<62.5	Chromium		<0.45	Alpha (pCi/ml)	<27				
R095-801-V015-7331#48	Toluene	<62.5	Lead		36	Beta (pCi/ml)	<70				
28%	Xylene	730	Selenium		<0.05						
	Methylene Chloride	<62.5									
	Cyclohexanone	<2,000									
920311-076	Acetone	2,780	Barium		2.2	Total U (ppm)	61	pH	void	1288	Y Hg
R877-5	Ethyl Benzene	<625	Cadmium		0.35	U-235 (% wt)	0.32	FP	>200	TCT	Y VOAs
1 Ph (liquid)	1,1,1 -Trichloroethane	779	Chromium		0.45	Alpha (pCi/ml)	<27				
S095-801-V015-7331 # 20	Toluene	<625	Lead		76	Beta (pCi/ml)	<70				
	Xylene	<625	Selenium		<0.05						
	Methylene Chloride	1,170									
	Cyclohexanone	<20,000									
920311-077	Acetone	16,500	Barium		0.95	Total U (ppm)	4	pH	void	1288	Y Hg
R877-6	Ethyl Benzene	<6,250	Cadmium		<0.2	U-235 (% wt)	ND	FP	55	TCT	Y VOAs
1 Ph (liquid)	1,1,1 -Trichloroethane	224,000	Chromium		2.4	Alpha (pCi/ml)	<27				
S095-801-V015-7331 # 5	Toluene	<6,250	Lead		12.6	Beta (pCi/ml)	<70				
	Xylene	<6,250	Selenium		<0.05						
	Methylene Chloride	13,000									
	Cyclohexanone	<200,000									

000099

6099

Sampling Plan: 877
Mat. Type: Contaminated Oil, Insoluble
Revised: 08-04-92

Review of Analyses

ATTACHMENT
Part I

Rev. 11/ 11
CMW

Lab No.
Cust. No.

Matrix Lot/Drum No.	Organic Constituent(s):	Total (ppm)	Metal Constituent(s):	TCLP (ppm)	Total (ppm)	Radiological Constituent(s):		Other Analyses:		Rel #/ Lab	Date Met ?
920312-099	Acetone	<12.5	Barium		0.699	Total U (ppm)	145	pH	void	1296	Y Hg
R877-7	Ethyl Benzene	7.61	Cadmium		<0.25	U-235 (% wt)	1.27	FP	90	TCT	Y VOAs
1 Ph (liquid)	1,1,1 -Trichloroethane	96,000	Chromium		<4.3	Alpha (pCi/ml)	48				
R095-801-V015-7331#9	Toluene	40.9	Lead		272	Beta (pCi/ml)	<61				
	Xylene	38.6	Selenium		0.079						
	Methylene Chloride	<6.25									
	Cyclohexanone	592									
920312-100	Acetone	<500	Barium		700	Total U (ppm)	4	pH	void	1296	Y Hg
R877-8	Ethyl Benzene	<250	Cadmium		<250	U-235 (% wt)	0.77	FP	>200	TCT	Y VOAs
1Ph (liquid)	1,1,1 -Trichloroethane	2,550	Chromium		<4,300	Alpha (pCi/ml)	<30				
R095-801-V015-7331 #16	Toluene	<250	Lead		19,000	Beta (pCi/ml)	<61				
	Xylene	328	Selenium		52						
	Methylene Chloride	<250									
	Cyclohexanone	<8,000									

Sampling Plan: 877
Mat. Type: Contaminated Oil, Insoluble
Revised: 08-04-92

Review of Analyses

ATTACHMENT
Part I

Rev. 11 11
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Lab No. / Cust. No. / Matrix / Lot/Drum No.	Organic Constituent(s):	Total (ppm)	Metal Constituent(s):	TCLP (ppm)	Total (ppm)	Radiological Constituent(s):		Other Analyses:		Rel #/ Lab	Date Met ?
920313-031	Acetone	0.0317	Barium	<0.2		Total U (ppm)	122	pH	void	1301	Y Hg
R877-9	Ethyl Benzene	<0.0125	Cadmium	<0.1		U-235 (% wt)	0.48	FP	>200	TCT	Y VOAs
1 Ph (solid)	1,1,1 -Trichloroethane	0.0422	Chromium	<0.5		Alpha (pCi/ml)	<26				
R095-801-V015-7331 #18	Toluene	0.0129	Lead	<0.2		Beta (pCi/ml)	<52				
	Xylene	0.152	Selenium	0.557							
	Methylene Chloride	<0.0125									
	Cyclohexanone	<0.4012									

TCLP VOA	ND

ND - None Detected

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Sampli in: 877
Mat. Type: Contaminated Oil, Insoluble
Revised: 08-04-92

Statistica lculations

Attachment B
Part II

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	Analyte	(TOTAL Reg. Level)	Statistical Mean	Standard Deviation	Confidence Interval (ppm)			C.V.
Total Organic Constituent(s): (ppm)	Acetone		3,260	6,577.03620	0	-	7,223	2.02
	Ethyl Benzene		600	1,242.81210	0	-	1,348	2.07
	1,1,1 -Trichloroethane		53,890	91,623.48453	0	-	109,100	1.70
	Toluene		602	1,241.23889	0	-	1,350	2.06
	Xylene		681	1,205.64707	0	-	1,408	1.77
	Methylene Chloride		2,386	5,219.63298	0	-	5,531	2.19
	Cyclohexanone		19,157	39,785.54049	0	-	43,131	2.08
TCLP Organic Constituent(s): (ppm)	All Analytes Below Detection Limits							
Total Metal Constituent(s): (ppm)	Barium	(5.0)	117	285.44425	0	-	289	2.43
	Cadmium	(1.0)	21	50.97195	0	-	52	2.43
	Chromium	(5.0)	359	877.28733	0	-	888	2.44
	Lead	(5.0)	3,229	7,726.65600	0	-	7,885	2.39
	Selenium	(1.0)	9	21.19383	0	-	22	2.43
Radiological Constituent(s):	Total U (ppm)		56	64.31495	17	-	95	<1.25
	U-235 (% wt)		0.52	0.44515	0.25	-	0.79	<1.25
	Alpha (pCi/ml)		19	14.01933	11	-	28	<1.25
	Beta (pCi/ml)		32	3.67423	30	-	34	<1.25

Other Analyses:

Sample 877-9 was analyzed for TCLP Metal Constituents and TCLP Organic Constituents. No analytes were detected.

Discussion:

Samples R877-1 and R877-3 were taken from the two liquid layers in the same drum. The data was percent averaged based on the column

Statistica .lculations

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layering recorded in the sampling log. The same is true for the following sample pairs: R877-2(1D) and R877-4(3D).

Samples R877-2(1D) and R877-4(3D) are duplicates of samples R877-1 and R877-3. The weighted average results [R877-2(1D) & 4(3D)] and [R877-1 & R877-3] were further averaged to produce one statistically significant result.

There was a total of 6(six) statistically significant results for this waste stream: R877-5; R877-6; R877-7; R877-8; and R877-9 & R877-1, R877-3, R877-2(1D) & R877-4(3D).

Mathematical comparison of the sample means and standard deviations show the data to be normally distributed for each analyte, with the following exceptions:

Analyte	Coef. of Var.
Acetone	2.02
Ethyl Benzene	2.07
1,1,1 -Trichloroethane	1.70
Toluene	2.06
Xylene	1.77
Methylene Chloride	2.19
Cyclohexanone	2.08
Barium	2.43
Cadmium	2.43
Chromium	2.44
Lead	2.39
Selenium	2.43

DATE: 09/13/94

MEF No. 390
SRC:655 - Plant 6, Water Treatment Area
MTC: 039 - Oily Sludges
SAP: 1014

Sampling and Analysis Narrative

The wastestream consists of drummed, oily sludges generated in conjunction with the oil coalescing system of the Plant 6 wastewater treatment system.

Radiological data indicates 521 ppm Total U and 0.70 ppm U-235 (upper CI). Consequently the waste is a low level radioactive waste.

TCLP data indicates the presence of the following TC metals: Arsenic (1.7 ppm), Barium (261 ppm), Cadmium (0.66 ppm), Chromium (3.60 ppm) and Lead (143 ppm). All data is cited at the upper confidence interval. Data was normally distributed for all constituents except Lead. Metals which exceeded the TC regulatory levels include Barium (D005 - 100 ppm) and Lead (D008 - 5.0 ppm).

Totals data indicates the presence of the following TC VOA constituents: Acetone (219 ppm), Ethylbenzene (109 ppm), 1,1,1-Trichloroethane (3918 ppm), Toluene (110 ppm) and Xylenes (109 ppm). The VOA data, which is cited at the upper confidence interval, is not normally distributed. There was significant variability between the various waste layers. Detection limits for the liquid phase were high (250 ppm), with 1,1,1-Trichloroethane reported at 4,430 ppm. The oil layer contained comparatively low levels of all VOAs, none of which exceeded TC regulatory levels. Some detection limits for the solid phase again were high (up to 500 ppm), with 1,1,1-Trichloroethane reported at 3,990 ppm and 3,180 ppm. None of the reported constituents are TC regulated.

The Flash Point for this waste exceeds 200 degrees F. While pH was not tested, the waste matrix indicates that it will fall into the neutral range. Similarly, the waste matrix also indicates that Reactivity criteria will not be met.

Note that because the wastestream contains over 1000 ppm Halogenated Organic Compounds (HOCs), and is a RCRA hazardous waste, California List Prohibitions for HOCs under 40 CFR 268.32 are applicable.

In summary, the wastestream is classified as a D005/D008 RCRA hazardous, low level radioactive (mixed) waste, subject to California List HOC prohibition levels.

MEF No.: 418
MTC: 013 SRC: 733
Sample Plan No.: N/A

Date: November 28, 1994

Process Knowledge File Narrative

Determination:

RCRA hazardous waste: D001 (ignitable)

Description Name:

DRAFT

This material is used Acetone from the Analytical Laboratory.

Process Generating the Waste:

This waste stream consists of used acetone generated from the drying of glassware during the cleaning process. Glassware was washed with nitric acid and then with water. The glassware was then rinsed with distilled water. The final step in cleaning the glassware is the drying process. The acetone was used to dry the glassware. Discarded acetone and a small amount of distilled rinse water were collected at a satellite accumulation area at the laboratory.

Radiological/Chemical Composition:

Sampling and analysis is not required for this waste stream. Based on the process knowledge this waste stream consists of used acetone. This compound has a pH within the range of 2 and 12. The flash point is less than 140°F, therefore this waste is considered to be ignitable (D001).

Since the acetone was used for only for drying and not for cleaning, the use for its solvent properties did not occur, therefore no spent solvent listings apply. In fact, spent acetone generated by this process could have been legally discharged under the CWA exclusion (261.31(a)(2)(iv)(d) for de minimis losses. Furthermore, this waste would also be exempt from LDR under 268.1(e)(4) per the 09/19/94 Phase II rule.

The waste is therefore, characterized as D001 (ignitable) RCRA hazardous, low level radioactive waste.

Inventory:

This waste contains 66 drums segregated into 31 lots identified in the Inventory Identification Attachment for the MEF.

References:

DRAFT

MSDS
Management of Chloroform Waste report
CWA exclusion (261.31(a)(2)(iv)(d)
CFR 268.1(e)(4) per the 09/19/94 Phase II rule

DATE: 10/05/94

MEF No. 1229
SRC:380 - Abandoned Pilot Plant Sump
MTC: 042 - Sludges
SAP: Removal Action #24 Work Plan

Sampling and Analysis File Narrative

The wastestream consists of drummed sludges that were removed from the Abandoned Pilot Plant Sump (aka Temporary Sump) during Removal Action #24.

The following discussion is based on sampling of drummed sludges, i.e. samples taken after the sludge was pumped out of the sump. While data for sludge samples taken prior to pumping out the sump was useful for assessing removal action health and safety concerns, it does not reflect levels of contaminants in the drummed material. Data limitations should be noted: 1) The number of data points is limited. 2) Samples were not correctly preserved. 3) There is potential Thorium interference.

Radiological: Radiological data indicates 6.7 - 55.7 mg/l total Uranium, 0.16 - 0.77 pCi/ml U^{235} and 0.028 - 0.98 g/l Thorium.

Metals: Totals data indicates the presence of the following TC metals: Lead (11.1 ppm) and Mercury (0.226 ppm). Given the pumpability of the material, a potential for high liquid content exists; the 20-fold dilution factor for conversion to TCLP values would not apply to the liquid portion of the wastestream. Sump sludge solids covered under MEF 2507 exhibited levels of both Lead and Mercury over TC regulated concentrations. Consequently, the D008 and D009 waste codes will be assigned based on the totals data.

Organics: Totals data indicates the presence of the following organic compounds: Acetone (14 ppm), 1,1,1-Trichloroethane (37 ppm), Tetrachloroethylene (38 ppm) and o-xylene (6.6 ppm). The TC regulated concentration for Tetrachloroethylene is exceeded for totals or TCLP converted data (D039 - 0.7 ppm)

Flash Point, pH and Reactivity: The pH ranges from 4.9 - 7.0. The Flash Point exceeds 200 degrees F. The sludge matrix and chemical constituents indicates that the waste will not meet Reactivity criteria.

May 5, 1993

MEF No.: 1411
MTC: 013 SRC: 748
SAP No.: 1149

Sampling and Analysis Narrative

On February 25, 1992, sampling and analysis of the waste stream was requested. At that time the following analyses were requested:

- -Total VOA's
- -Total metals
- -Visual inspection
- -Paint filter liquid test (PFLT)
- -Flash point and pH, if the waste failed the PFLT
- -Total U and U^{235}%

Two samples were collected from each of the three phases. The laboratory stated that pH analyses were not possible, due to the waste matrix.

The flash points detected for the liquid phases ranged from 51-65°F. Based on this information, the waste was characterized as a D001 waste.

Spent solvents were detected in all three phases of the waste in the following concentrations:

Constituent	Concentration (ppm)		
	Cloudy brown liquid	Dark brown liquid	Grey solid
Acetone	10,000	15,400	56,900
	9,400	15,500	64,200
Carbon tetrachloride	500	<6,250	<2,432
	510	<6,250	<2,948
Ethyl benzene	130	13,700	36,900
	110	12,100	41,400
Toluene	150	<6,250	4,270
	250	<6,250	4,940
1,1,1-Trichloroethane	3,600	353,000	982,000
	3,700	360,000	1,020,000
Xylenes	740	67,600	81,800
	580	60,600	103,000

Based on the analytical results for acetone, ethyl benzene, and xylene, and the determination that the waste was ignitable, the waste was determined to be F003. Based on the analytical results for toluene, the waste was determined to be F005. Based on the analytical results for 1,1,1-trichloroethane, the waste was determined to be F002. Based on the levels of carbon tetrachloride detected, the waste was determined to be D019.

The following metals were detected in the solid phase of the waste stream above regulatory limits:

Constituent	TCLP Regulatory Level (mg/l)	Total Concentration (ppm)	Concentration at the 20-fold dilution (ppm)
Barium	100	6,510	325.5
Chromium	5.0	1,520	76
	5.0	2,320	116
Lead	5.0	8,190	409.5
	5.0	14,500	725
Mercury	0.2	32.7	1.64
Selenium	1.0	249	12.45
	1.0	486	24.3

The concentrations shown above were derived by dividing the sampling results by 20. This action was taken before comparing the levels to the regulatory limits, because the samples were analyzed using the Total method, rather than the TCLP method. The "20 fold dilution" factor allowed for solids yielded TCLP estimates for metals that were then compared to the TCLP limits to determine whether the waste exhibited the characteristic of toxicity. Lead, mercury and silver were also detected in the liquid portion of the waste, above regulatory limits. The results found in the liquid portion were compared directly to the regulatory limits. Based on the above concentrations, the waste was assigned the following waste codes: D005, D007, D008, D009 and D010.

Fernald Environmental
FERMCO
Restoration Management Corporation

INTEROFFICE MEMORANDUM

To:	Kevin Waugh	Date:	April 23, 1993
Location:	MS 46	Reference:	
From:	Lawrence Love, Jr. LL	FERMCO #:	M:ESH:EP:93:0241
Location:	MS 75	Client:	DOE DE-AC05-92OR21972
Extension:	738-6727	Subject:	STATISTICAL REPORT FOR RCRA DETERMINATION OF SAMPLE PLAN 1149 (MATERIAL TYPE 013, SOURCE CODE 748, MATERIAL EVALUATION FORM (MEF) 1411)

c: File Record Storage Copy 106.4.9.2
w/o attachments
Paul Blake
Donald Fleming
Harold Knue
Charles Lower
Walter Mengel
John Muskoff, Jr.
Jeff Rowe
Edward Schonegg
Thomas Walsh
Daniel Yeager
SMS Files

This report summarizes pertinent information to be used for the RCRA determination of the waste stream sampled and analyzed under Sample Plan 1149. This waste stream is included in the "Newly Generated, Delinquent Waste Population".

This material is coded as "Contaminated Solvent - Trichlor, Perchlor, etc." from the Paint Shop. Log book entries indicate the sampled material was in three phases. The sampled material was described as being a "cloudy brown liquid", a "dark brown liquid", and a, "gray solid". A Paint Filter Liquid Test (PFLT) was run on sample 1149-6, see Attachment B, Part 1.

The waste stream is contained in one (1) drum listed as one (1) lot. This is according to the inventory provided by MC&A dated January 11, 1993. A list of the Lot Marking System Number(s) is provided in Attachment A.

Sampling and analysis was conducted in accordance with SW-846, "Test Methods for Evaluating Solid Wastes". Attachment B Part I, "Review of Analyses", provides the following information relating to sample analysis:

Fernald Environmental
FERMCO
Restoration Management Corporation

INTEROFFICE MEMORANDUM

-Laboratory Number (AnaLIS Number), and Customer Number.
-Matrix description for each sample.
-Analysis results.

Attachment B Part II, "Statistical Results", is a summary of the following information:

-Mean of the results for each constituent detected in the stream.
-Standard Deviation, Confidence Interval, and Coefficient of Variation (CV) for each constituent.
-Discussion of statistical methods used.

If you have any questions or comments, please contact Mary Morse or me at extension 8482 or 6727, respectively.

LL:MKM:dlm
Attachment

Sampling Plan 1149

Review of Analyses

ATTACHMENT B
Part I

Rev. MKM

Mat. Type: Contaminated Solvent – Trichlor, Perchlor, etc.

Revised: 4-22-93

Lab No. / Cust. No. / Matrix / Lot/Drum No.	Organic Constituent(s):	Total (ppm)	Metal Constituent(s):	Total (ppm)	Radiological Constituent(s):		Other Analyses:		Rel #/ Lab	Date Met ?
920310-986	Acetone	10,000	Arsenic	<100	Total U(ppm)	1	Flash Pt.(F)	65	1286	Y Hg
1149-1	Carbon Tetrachloride	500	Barium	<2	U-235(wt%)	0.49	pH	VOID	ITAS	Y VOA
3 Ph(Cloudy Brown Liquid)	Ethylbenzene	130	Chromium	<5				(matrix)		
R050-748-P013-0344 #1	Toluene	150	Lead	<20						
5.1%	1,1,1-Trichloroethane	3,600	Mercury	<0.1						
	Xylenes	740	Selenium	<100						
			Silver	<4						
920311-084	Acetone	15,400	Arsenic	0.058	Total U(ppm)	6	Flash Pt.	<55	1289	Y Hg
1149-3	Carbon Tetrachloride	<6,250	Barium	0.35	U-235(wt%)	0.41	pH	VOID	TCT	Y VOA
3 Ph(Dark Brown Liquid)	Ethylbenzene	13,700	Chromium	<0.45				(matrix)		
R050-748-P013-0344 #1	Toluene	<6,250	Lead	11.8						
53.5%	1,1,1-Trichloroethane	353,000	Mercury	0.304						
	Xylenes	67,600	Selenium	0.087						
			Silver	25.4						
920312-105	Acetone	56,900	Arsenic	<54.5	Total U(ppm)	39	Flash Pt.	NR	1297	Y Hg
1149-5	Carbon Tetrachloride	<2,432	Barium	1,790	U-235(wt%)	0.48	pH	NR	TCT	Y VOA
3 Ph(Gray Solid)	Ethylbenzene	36,900	Chromium	1,520						
R050-748-P013-0344 #1	Toluene	4,270	Lead	8,190						
41.4%	1,1,1-Trichloroethane	982,000	Mercury	32.7						
	Xylenes	81,800	Selenium	249						
			Silver	<6.2						

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Sampling Plan 1149

Mat. Type: Contaminated Solvent – Trichlor, Perchlor, etc.

Revised: 4-22-93

Review of Analyses

ATTACHMENT B
Part I

Rev. MKM
CMW

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Lab No. / Cust. No. / Matrix / Lot/Drum No.	Organic Constituent(s):	Total (ppm)	Metal Constituent(s):	Total (ppm)	Radiological Constituent(s):		Other Analyses:		Rel #/ Lab	Date Met ?
920310-987	Acetone	9,400	Arsenic	<100	Total U(ppm)	<1	Flash Pt.	60	1286	Y Hg
1149-2	Carbon Tetrachloride	510	Barium	<2	U-235(wt%)	0.40	pH	VOID	ITAS	Y VOA
3 Ph(Cloudy Brown Liquid)	Ethylbenzene	110	Chromium	<5				(matrix)		
R050-748-P013-0344 #1	Toluene	250	Lead	<20						
5.1%	1,1,1-Trichloroethane	3,700	Mercury	<0.11						
	Xylenes	580	Selenium	<100						
			Silver	<4						
920311-085	Acetone	15,500	Arsenic	0.062	Total U(ppm)	2	Flash Pt.	51	1289	Y Hg
1149-4	Carbon Tetrachloride	<6,250	Barium	0.3	U-235(wt%)	0.43	pH	VOID	TCT	Y VOA
3 Ph(Dark Brown Liquid)	Ethylbenzene	12,100	Chromium	<4.3				(matrix)		
R050-748-P013-0344 #1	Toluene	<6,250	Lead	10.8						
53.5%	1,1,1-Trichloroethane	360,000	Mercury	0.278						
	Xylenes	60,600	Selenium	<0.05						
			Silver	0.65						
920312-103	Acetone	64,200	Arsenic	<66	Total U(ppm)	10	Flash Pt.	VOID	1297	Y Hg
1149-6	Carbon Tetrachloride	<2,948	Barium	6,510	U-235(wt%)	0.48	pH	VOID	TCT	Y VOA
3 Ph(Gray Solid)	Ethylbenzene	41,400	Chromium	2,320			PFLT	Failed		
R050-748-P013-0344 #1	Toluene	4,940	Lead	14,500						
41.4%	1,1,1-Trichloroethane	1,020,000	Mercury	1.6						
	Xylenes	103,000	Selenium	486						
			Silver	<7.5						

Sampling Plan 1149

Statistical Calculations

Attachment B
Part II

rev. MKM
CMW

Mat. Type: Contaminated Solvent – Trichlor, Perchlor, etc.

Revised: 4-22-93

	Analyte	Statistical Mean	Standard Deviation	Confidence Interval (ppm)			C.V.
Total Organic Constituent(s): (ppm)	Acetone	33,828	2,153.21086	29,142	-	38,515	<1.25
	Carbon Tetrachloride	2,254	75.88811	2,089	-	2,420	<1.25
	Ethylbenzene	23,116	711.33528	21,568	-	24,664	<1.25
	Toluene	3,589	199.74352	3,154	-	4,023	<1.25
	1,1,1-Trichloroethane	605,328	13,775.92502	575,345	-	635,311	<1.25
	Xylenes	72,581	3,552.24991	64,849	-	80,312	<1.25
Total Metal Constituent(s): (ppm)	Arsenic	15	1.68478	11	-	19	<1.25
	Barium	1,718	1,381.72430	0	-	4,726	<1.25
	Chromium	796	234.92200	284	-	1,307	<1.25
	Lead	4,703	1,846.82503	684	-	8,723	<1.25
	Mercury	7.3	9.11394	0	-	27.1	1.26
	Selenium	155	69.35645	4	-	306	<1.25
	Silver	8	9.17270	0	-	28	<1.25
Radiological Constituent(s):	Total U(ppm)	12	10.02076	0	-	34	<1.25
	U-235(wt%)	0.4	0.00432	0.4	-	0.5	<1.25

Discussion:

Samples 1149-1, 3, & 5 were taken from the two liquid layers and one solid layer of the same drum. The data were percent averaged based on the column layering recorded in the sampling log. The same is true for the following sample set: 1149-2, 4, & 4.

There was a total of two (2) statistically significant results for this waste stream: 1149-1, 3, &5 and 1149-2, 4, & 6.

Mathematical comparison of the sample means and standard deviations show the data to be normally distributed for each analyte, with the following exceptions:

Analyte	Coef. of Var.
Mercury	1.26

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MEF No.: 10026
MTC: 043 SRC: ~~YAQ~~ YAQ LD 11/22/94
Sample Plan No.: 1208 & 1218

Date: November 17, 1994

Sampling and Analysis Narrative (continued)

The original inventory of this waste stream was not sampled, however, MEFs 625 (SAP 1208) and 1228 (SAP 1218) were archived into this waste stream because the material source and generation were identical. The higher valued analytes of both SAPs 1208 and 1218 have been used to support the characterization of this waste stream. This waste stream was sampled and analyzed for the following parameters:

- Total VOAs
- TCLP metals
- Total U and weight percent U^{235}
- Total PCBs

Acetone (9,572 ppm), methylene chloride 840 ppm), 1,1,1 trichloroethane (21,362 ppm), trichloroethylene (827 ppm), MIBK (839 ppm), Toluene (792 ppm), trichlorofluoromethane (4,413 ppm) and carbon tetrachloride (1,744 ppm) were detected in the samples. The concentrations of chlorinated hydrocarbon constituents ranged between approximately 800 ppm to 21,000 ppm.

While organic TC regulatory levels were exceeded for carbon tetrachloride (D019 - 0.5 mg/l), and Trichloroethylene (D040 - 0.5 mg/l), these constituents are addressed in the 40 CFR Part 268 treatment standards for the F001 and F002 waste codes. Consequently, the characteristic D-waste codes were not assigned.

PCB analysis indicated that this waste contains > 50 ppm PCBs but less than 500 ppm. Therefore, this waste is must be handled and disposed of as a PCB waste.

Arsenic, cadmium, chromium, lead, and mercury were detected in the waste stream. The concentrations of these metals did not exceed their regulatory limits except for Mercury (D009).

Radiological analysis indicated a total U concentration of 1 ppm with a U^{235} weight percent of 1.5%.

Analytical data indicates a Flash Point ranges between 193 to > 200 degrees F. The pH of one sample was reported at 4.2. Consequently, the waste stream is neither ignitable nor corrosive.

The waste is therefore, characterized as D009, F001/F002 RCRA hazardous, low level radioactive waste containing PCB waste > 50 ppm.

MEF No.: 30005
MTC: 039 SRC: 853
Sample Plan No.: 019

Date: 08/02/94

Sampling and Analysis Narrative

The waste samples were collected and analyzed for TC metals, TC VOAs, F001-F005 solvent constituents, Total U, $U^{235/236}$, and flash point.

This material is coded as oily sludges from Plant 8 oil decantation unit.

The oil decantation unit received site wide waste oils for the purpose of separating out the water phase. The oils may have then been used in oil burning units site wide. This waste stream consists of oily sludges removed from the unit.

Volatile organics have been detected in this waste stream. The source for these constituents is unknown, however, based upon the rebuttable presumption regulations (40 CFR 279.44) for halogens in used oil, oil containing total halogens greater than 1000 ppm is assumed to have been mixed with listed hazardous waste. The total halogens for this waste is 35,460 ppm. This waste is therefore considered F002 RCRA hazardous waste based on the presence of chlorinated volatile organics.

Radiological analysis indicated a total U concentration of 9,200 ppm. The weight percent of U^{235} is 0.77 wt%.

The analytical results reported detection of ethylbenzene (51 ppm), tetrachloroethylene (600 ppm), toluene (130 ppm), 1,1,1-trichloroethane (34,700 ppm), 1,1,2-trichloroethane (30 ppm), trichloroethylene (70 ppm), total xylenes (230 ppm), acetone (120 ppm), MEK (80 ppm), and carbon tetrachloride (60 ppm). The source for these constituents is unknown. The decantation unit received waste oils from site wide sources and numerous different activities. Ethylbenzene, toluene, and total xylenes are most likely associated with the oil matrix and are not spent solvents. Based upon the rebuttable presumption regulation (40 CFR 279.44) for halogens in used oil, this waste is considered F002. Because there is no known source for spent solvents in this waste stream no other F-series waste codes apply.

In addition, carbon tetrachloride, tetrachloroethylene, and trichloroethylene were detected at concentrations greater than the TC regulatory limits. Since the treatment for tetrachloroethylene and trichloroethylene are addressed in the LDR treatment standard for F002 wastes, the D-codes, D039 and D040, need not be applied. The flash point for this material is as low as 126°F and therefore, this waste stream is considered ignitable, D001.

Of the metals reported, barium (3 ppm), lead (3.6 ppm), arsenic (0.7 ppm), cadmium (0.4 ppm), silver (0.3 ppm), mercury (0.003 ppm), chromium (1.3 ppm), none were reported at a concentration above the TCLP regulatory limit.

The waste is therefore, characterized as D001, D019 (carbon tetrachloride), F002 RCRA hazardous, low level radioactive waste.

MEF No.: 60056
MTC: 013 SRC: 746
Sample Plan No.: 849

Date: April 15, 1994

Sampling and Analysis Narrative

Samples were taken from this material in 1992 and analyzed for Total organics, Total metals, Total U, and U-235. The analyses showed high concentrations of tetrachloroethylene (400,212 ppm) and 1,1,1-TCA in the waste oil (199,649 ppm). The waste will be listed as an F002 waste. No other VOCs were identified in the oil.

TCLP regulatory levels were exceeded for chromium (69 ppm), lead (52 ppm), and mercury (0.433 ppm) in the samples taken from the waste oil. The hazardous waste codes of D007, D008, and D009 are thus also applied to this waste.

Flash point results showed the samples had a range of flash points from < 30°F up to 136°F. The waste in this MEF is therefore an ignitible waste and has the waste code D001.

Statistical total uranium concentrations in the waste were 183 ppm; U-235 was found at 0.5 weight %.

MEF No.: 425
MTC: 013 SRC: 733
Sample Plan No.: N/A

Date: October 20, 1994

Process Knowledge File Narrative

Determination:

RCRA hazardous waste: D001, D004, D005, D006, D007, D008, D010, D011

Description Name:

This material is coded as contaminated solvent from the Analytical Laboratory.

Process Generating the Waste:

This waste stream consists of a solution of 1-5% nitric acid in cyclohexane. This solution was used in the digestion process of samples (ANL-3002) to determine Total Uranium content. The procedure uses the colorimetric determination of low concentrations of uranium using an Autoanalyzer. The discarded solution was collected from the Autoanalyzer in a 4 liter plastic bottle during each shift. The waste material was transferred to a labeled 5-gallon safety can in the Accumulation Storage Area per SOP ANL-01-0053.

Approximately 925-20ml contaminated solvent mixtures were required to fill a 5-gallon safety can. The acid digestion of various samples constituted a total metals extraction. The cyclohexane dissolved the metals in solution. The waste stream contains over 41 containers which represents over 30,000 samples.

Radiological/Chemical Composition:

Since it cannot be demonstrated that this cyclohexane solution does not exhibit the TC for metals, all metal waste codes (D004, D005, D006, D007, D008 D010, D011) will be applied to this waste stream except for that of mercury. Mercury is not expected to be present above the TC regulatory limits because the presence of mercury in the waste matrices of the entire FEMP site waste inventory is minuscule. This is demonstrated by the fact that those waste streams that have been characterized as RCRA hazardous due to mercury represent less than 1% of the entire RCRA waste inventory at the FEMP.

Cyclohexane is not an F-series constituent. No other solvents are known to have been mixed with this process, therefore the F-series wastes codes do not apply. Though this waste stream consists up to 5% nitric acid, the cyclohexane in this mixture would have reacted with the nitric acid giving rise to a solution with a pH between 2 and 12. Therefore, this waste stream is not corrosive. The flash point of the cyclohexane is -4°F. The waste consists of 95% cyclohexane, therefore this waste stream is considered ignitable (D001).

MEF No.: 60055
MTC: 013 SRC: 744
Sampling Plan No.: 848

Feb. 24, 1994

Sampling and Analysis Narrative

Samples were collected from 2 drums of the waste. Analytical results on the material yielded a statistical result of 666.2 ppm for lead and 12,958.53 ppm for benzene. Leaded gasoline typically contains up to 6% benzene. Due to the fact that gasoline is a petroleum product, containing high concentrations of aromatic, aromatic, aliphatic and other types of hydrocarbons, the volatile organic analyses had extremely high detection limits, obscuring the actual concentrations of many of the analytes. Total statistical uranium results were 6.29 ppm and U-235 was analyzed at 1.03 wt %.

MEF No.: 60301
MTC: 015 SRC: FTA
SAP No.: 93-503

Sampling and Analysis Narrative

This waste was analyzed for the following parameters:

- TC METALS
- VOA'S
- PH
- PFLT
- FLASH POINT
- TOTAL URANIUM
- U^{235}

The results of this analysis was somewhat unusual, in that, although this waste was described by visual inspection as liquid, only one sample passed through a paint filter. Thus, for determining whether this waste was a solid or a liquid for toxicity characteristic purposes, the majority of this waste is considered a solid. Therefore, although one sample contained a total of 182 ppm of lead, the statistical analysis reports only 2.2 ppm of lead in the waste stream as a whole, since a TCLP result is used for solid matrices, thereby effectively dividing the total amount by a factor of twenty. Oil has been recognized as a problematic and unusual matrix from which to derive accurate results.

Although the majority of this waste is considered a solid for determining toxicity characteristics, it still is considered a liquid for the determination of the ignitibility characteristic, since this material does flow or slump. The flash point for each sample was reported as < 200 F. Although this does not determine whether or not the flash point is 140 or less, process knowledge indicates that this waste will <u>not</u> have a flash point of 140 or below, since it was used in a hot, friction laden environment to dampen the sparking of uranium metal. It would not make sense to use a liquid that would ignite readily to do this. The pH ranged from 6.36 to 9.15. Although a pH reading is not reliable unless there is sufficient water to effect an ion exchange, it is not clear if this waste contains sufficient water to provide an accurate pH. Since this waste is supposed to be water insoluble oil, it would not be consistent with the fact that the majority of the containers are considered solid for toxicity characteristics.

The analytical results indicate this waste contains a mean of 0.572% U^{235} and a statistical mean of 66 ppm total uranium.

Extremely small amounts of various solvents were found in this waste that can not be traced to any specific generation source, other than possibly naturally occurring impurities in the oil.

MEF No.: 60331 **Date: 07/06/94**
MTC: 012 SRC: 741
Sample Plan No.: 828C

Sampling and Analysis File Narrative

The waste samples were collected and analyzed for TC metals, TC VOAs, F001-F005 solvent constituents, Total U, $U^{235/236}$, flash point, and pH.

This material is coded as contaminated water or sump liquor, non-chloride, from the garage.

This waste stream consists of sump water and water pumped from around diesel and gasoline underground storage tanks (USTs) specifically UST No. 9. The garage was used to service site wide vehicles.

Radiological analysis indicated a total U concentration of 1 ppm. The weight percent of U^{235} is 0.99 wt%.

The analytical results reported detection of acetone (1.0 ppm), benzene (12.9 ppm), ethylbenzene (1.4 ppm), toluene (13.9 ppm), and xylenes (9.30 ppm). There is no known source for acetone in this waste stream. Acetone was not commonly used for degreasing at the facility. Because it is unknown whether the acetone was used or unused, the F-series waste codes do not apply. The remaining constituents are common constituents of gasoline and diesel and are not considered spent solvents. Benzene, however, is present in a concentration greater than the TC regulatory limit.

Of the metals reported, arsenic (0.1 ppm) and lead (1.0 ppm), neither was reported at a concentration above the TC regulatory limit. Free liquids were observed in this waste stream. The liquid phase has a flash point as low as 91°F and a pH ranging from 6.1 to 7.8. This waste is therefore considered ignitable but not corrosive.

The waste is therefore, characterized as D001, D018 (benzene) RCRA hazardous, low level radioactive waste.

Inventory Lists

Information Package

This package contains the Project Waste Inventory lists. These lists are separated into 5 batches, each batch will be pumped into a container as referenced in the Tank & Containment Specification package.

The inventory lists show the batch # at the top, the print date appears at the bottom left corner of each page, MEF number in the first column, container inventory number in the second column, the third column includes the container size and if "OP" appears this means it is Over Packed, forth column is the net weight, fifth and sixth columns are the %U-Uranium and % U-235 in the waste, seventh column includes a brief description of the waste, and the eight columns on the right side of the lists are the EPA identification codes assigned to the waste.

MEF	INV #	SIZE	NET LBS	%U	%U-235	DESCRIPTION	EPA1	EPA2	EPA3	EPA4	EPA5	EPA6	EPA7	EPA8
10004	W500764	55	193	0.02	0.94	Cont. Solvents – Trichlor, Perchlor	D007	D018	D019	D021	D029	D039	D040	F001
10004	W500766	85OP	246	0.02	0.94	Cont. Solvents – Trichlor, Perchlor	D007	D018	D019	D021	D029	D039	D040	F001
10004	W500767	85OP	557	0.02	0.94	Cont. Solvents – Trichlor, Perchlor	D007	D018	D019	D021	D029	D039	D040	F001
10004	W500776	85OP	275	0.02	0.94	Cont. Solvents – Trichlor, Perchlor	D007	D018	D019	D021	D029	D039	D040	F001
10004	W500777	55	274	0.02	0.94	Cont. Solvents – Trichlor, Perchlor	D007	D018	D019	D021	D029	D039	D040	F001
10004	W500805	85OP	575	0.02	0.94	Cont. Solvents – Trichlor, Perchlor	D007	D018	D019	D021	D029	D039	D040	F001
10004	W500810	85OP	224	0.02	0.94	Cont. Solvents – Trichlor, Perchlor	D007	D018	D019	D021	D029	D039	D040	F001
10004	W500817	55	374	0.02	0.94	Cont. Solvents – Trichlor, Perchlor	D007	D018	D019	D021	D029	D039	D040	F001
10004	W500818	55	269	0.02	0.94	Cont. Solvents – Trichlor, Perchlor	D007	D018	D019	D021	D029	D039	D040	F001
10004	W500819	85OP	325	0.02	0.94	Cont. Solvents – Trichlor, Perchlor	D007	D018	D019	D021	D029	D039	D040	F001
10004	W500855	85OP	327	0.02	0.94	Cont. Solvents – Trichlor, Perchlor	D007	D018	D019	D021	D029	D039	D040	F001
10004	W500856	55	383	0.02	0.94	Cont. Solvents – Trichlor, Perchlor	D007	D018	D019	D021	D029	D039	D040	F001
10004	W500857	85OP	184	0.02	0.94	Cont. Solvents – Trichlor, Perchlor	D007	D018	D019	D021	D029	D039	D040	F001
10004	W500859	55	387	0.02	0.94	Cont. Solvents – Trichlor, Perchlor	D007	D018	D019	D021	D029	D039	D040	F001
10004	W500860	85OP	418	0.02	0.94	Cont. Solvents – Trichlor, Perchlor	D007	D018	D019	D021	D029	D039	D040	F001
10004	W500861	55	371	0.02	0.94	Cont. Solvents – Trichlor, Perchlor	D007	D018	D019	D021	D029	D039	D040	F001
10004	W500862	55	365	0.02	0.94	Cont. Solvents – Trichlor, Perchlor	D007	D018	D019	D021	D029	D039	D040	F001
10004	W500893	85OP	529	0.01	0.5	Cont. Solvents – Trichlor, Perchlor	D007	D018	D019	D021	D029	D039	D040	F001
10004	W500894	85OP	391	0.01	0.5	Cont. Solvents – Trichlor, Perchlor	D007	D018	D019	D021	D029	D039	D040	F001
10004	W500895	85OP	529	0.01	0.5	Cont. Solvents – Trichlor, Perchlor	D007	D018	D019	D021	D029	D039	D040	F001
10004	W503700	55	428	0.02	0.94	Cont. Solvents – Trichlor, Perchlor	D007	D018	D019	D021	D029	D039	D040	F001
10010	W500131	55 OP	34	14.80	0.320	OILY SLUDGES	F001	D039	D029	D040				
10010	W500173	85 OP	481	14.80	0.320	OILY SLUDGES	F001	D039	D029	D040				
10010	W500174	55	398	14.80	0.320	OILY SLUDGES	F001	D039	D029	D040				
10010	W500175	55	469	14.80	0.320	OILY SLUDGES	F001	D039	D029	D040				
10010	W500176	85 OP	454	14.80	0.320	OILY SLUDGES	F001	D039	D029	D040				
10010	W500233	55	464	14.80	0.320	OILY SLUDGES	F001	D039	D029	D040				
10010	W500234	55	439	14.80	0.320	OILY SLUDGES	F001	D039	D029	D040				
10010	W500235	55	516	14.80	0.320	OILY SLUDGES	F001	D039	D029	D040				
10010	W500236	55	426	14.80	0.320	OILY SLUDGES	F001	D039	D029	D040				
10010	W500288	55	423	14.80	0.320	OILY SLUDGES	F001	D039	D029	D040				

000122

INCINERATION PROJECT – BATCH 1

MEF	INV #	SIZE	NET LBS	%U	%U-235	DESCRIPTION	EPA1	EPA2	EPA3	EPA4	EPA5	EPA6	EPA7	EPA8
10010	W500289	55	486	14.80	0.320	OILY SLUDGES	F001	D039	D029	D040				
10010	W500290	55	374	14.80	0.320	OILY SLUDGES	F001	D039	D029	D040				
10010	W500291	55	485	14.80	0.320	OILY SLUDGES	F001	D039	D029	D040				
10010	W500539	55	383	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W500540	55	383	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W500541	55	341	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W500542	55	378	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W500593	55	333	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W500594	55	353	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W500595	85 OP	386	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W500596	55	365	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W500642	55	315	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W500643	85 OP	335	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W500644	55	101	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W500645	55	342	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W500677	55	321	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W500678	55	359	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501137	55	284	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501138	55	330	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501139	55	355	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501140	55	294	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501141	55	331	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501142	55	336	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501775	55	282	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501776	85 OP	287	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501777	85 OP	287	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501778	55	236	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501779	85 OP	350	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501780	85 OP	320	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501781	55	266	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501782	55	312	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				

6609

000123

MEF	INV #	SIZE	NET LBS	%U	%U-235	DESCRIPTION	EPA1	EPA2	EPA3	EPA4	EPA5	EPA6	EPA7	EPA8
10010	W501783	85 OP	317	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501784	55	340	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501785	85 OP	332	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501786	55	312	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501787	55	330	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501788	85 OP	338	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501789	55	339	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501790	55	344	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501791	85 OP	180	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501792	55	380	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501793	55	331	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501794	55	343	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501795	55	320	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501797	55	355	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501798	85 OP	372	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501799	55	314	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501800	55	313	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501801	55	295	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501802	55	374	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501803	55	400	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501804	85 OP	410	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501805	55	377	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501806	85 OP	371	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501807	55	379	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501808	55	391	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501809	55	307	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501810	85 OP	363	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501811	55	355	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501812	55	400	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501813	85 OP	390	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501814	55	420	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				

INCINERATION PROJECT – BATCH 1

MEF	INV #	SIZE	NET LBS	%U	%U-235	DESCRIPTION	EPA1	EPA2	EPA3	EPA4	EPA5	EPA6	EPA7	EPA8
10010	W501815	85 OP	376	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501816	85 OP	362	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501817	55	303	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501818	85 OP	312	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501856	55	325	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501857	55	302	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501858	55	349	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501863	55	372	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501864	85 OP	391	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501865	85 OP	396	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501866	55	363	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501867	55	353	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501868	55	357	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501869	55	311	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501870	85 OP	340	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501871	55	331	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501872	55	281	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501873	55	323	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501874	55	333	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501875	85 OP	108	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501876	55	392	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501877	55	423	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501878	55	311	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501879	55	362	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501880	55	319	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501881	55	376	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501882	55	352	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501883	55	342	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501884	85 OP	457	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501885	55	362	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501886	55	359	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				

6099
000125

INCINERATION PROJECT – BATCH 1

MEF	INV #	SIZE	NET LBS	%U	%U-235	DESCRIPTION	EPA1	EPA2	EPA3	EPA4	EPA5	EPA6	EPA7	EPA8
10010	W501887	55	362	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501888	55	334	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501889	55	312	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501890	55	318	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501891	55	353	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501892	55	324	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501893	55	344	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501894	55	325	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501895	55	408	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501896	55	413	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501897	85 OP	343	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501898	55	93	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501899	55	299	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501900	55	335	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501901	55	295	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501902	55	350	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501903	55	318	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501904	55	328	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501905	55	364	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501906	55	306	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501907	55	333	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501908	55	329	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501909	55	339	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501910	55	321	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501911	55	444	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501912	55	426	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501913	55	396	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501914	55	388	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501915	55	326	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501916	55	329	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501917	55	322	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				

000126

INCINERATION PROJECT – BATCH 1

MEF	INV #	SIZE	NET LBS	%U	%U-235	DESCRIPTION	EPA1	EPA2	EPA3	EPA4	EPA5	EPA6	EPA7	EPA8
10010	W501918	55	341	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501919	55	325	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501920	55	365	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501921	55	401	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501922	55	328	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501923	55	316	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501924	55	295	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501925	55	311	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501926	55	302	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501927	55	308	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501928	55	316	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501929	55	386	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501930	55	386	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501931	55	369	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501932	85 OP	357	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501933	55	369	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501934	85 OP	369	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501935	85 OP	169	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501936	55	317	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501937	55	319	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501938	55	356	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501939	85 OP	356	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501940	55	316	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501941	55	344	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501942	55	328	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501943	55	318	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501948	55	295	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501949	55	275	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501950	85 OP	324	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501951	55	239	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501952	55	284	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				

6609

000127

INCINERATION PROJECT – BATCH 1

MEF	INV #	SIZE	NET LBS	%U	%U-235	DESCRIPTION	EPA1	EPA2	EPA3	EPA4	EPA5	EPA6	EPA7	EPA8
10010	W501953	85 OP	302	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501954	55	295	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501955	55	268	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501956	55	274	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501957	55	314	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501958	55	289	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501959	55	267	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501960	55	349	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501961	55	297	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501962	55	345	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501963	55	334	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501964	55	314	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501965	55	299	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501966	55	273	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501967	55	302	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501968	85 OP	339	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501969	85 OP	299	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501970	55	300	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501971	55	320	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501972	85 OP	315	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501973	55	271	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501974	85 OP	352	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501975	55	311	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501976	55	311	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501977	55	308	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501978	55	318	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501979	85 OP	310	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501980	55	300	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501981	55	258	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501982	55	339	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501983	85 OP	207	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				

000128

INCINERATION PROJECT – BATCH 1

MEF	INV #	SIZE	NET LBS	%U	%U-235	DESCRIPTION	EPA1	EPA2	EPA3	EPA4	EPA5	EPA6	EPA7	EPA8
10010	W501984	55	336	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501985	85 OP	328	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501986	55	328	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501987	85 OP	393	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501988	55	358	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501989	85 POLY	335	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501990	85 OP	303	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501991	85 OP	371	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501992	85 OP	331	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501993	55	313	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501994	55	299	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501995	55	334	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501996	55	368	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501997	55	341	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501998	55	337	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W501999	55	323	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502000	85 OP	384	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502001	85 OP	408	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502002	85 OP	350	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502003	55	359	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502004	55	282	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502005	55	372	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502006	55	322	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502007	55	341	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502008	55	342	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502009	55	313	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502010	55	342	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502011	55	349	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502012	85 OP	328	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502013	85 OP	374	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502014	55	365	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				

6099

000129

MEF	INV #	SIZE	NET LBS	%U	%U-235	DESCRIPTION	EPA1	EPA2	EPA3	EPA4	EPA5	EPA6	EPA7	EPA8
10010	W502015	85 OP	344	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502016	55	309	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502017	55	327	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502018	55	332	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502019	55	319	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502020	55	335	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502021	85 OP	298	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502022	55	284	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502023	55	392	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502024	85 OP	404	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502025	85 OP	285	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502026	55	353	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502027	85 OP	307	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502028	55	373	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502029	55	305	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502030	55	327	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502031	55	349	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502032	55	341	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502033	55	332	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502034	55	354	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502035	55	340	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502036	55	342	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502037	85 OP	327	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502038	55	88	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502042	55	334	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502043	55	315	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502044	85 OP	327	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502045	55	298	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502046	55	299	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502047	55	301	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502048	55	300	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				

000130

INCINERATION PROJECT – BATCH 1

MEF	INV #	SIZE	NET LBS	%U	%U-235	DESCRIPTION	EPA1	EPA2	EPA3	EPA4	EPA5	EPA6	EPA7	EPA8
10010	W502049	55	306	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502050	55	362	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502051	55	341	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502052	85 OP	291	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502053	55	324	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502054	55	346	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502055	85 OP	319	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502056	55	316	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502057	55	331	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502058	55	312	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502059	55	298	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502060	55	337	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502061	55	333	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502062	55	320	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502063	55	343	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502064	55	334	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502065	55	302	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502066	55	293	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502067	85 OP	325	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502068	55	302	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502069	55	324	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502070	55	305	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502071	55	348	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502072	55	304	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502073	55	311	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502074	55	352	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502075	55	324	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502076	85 OP	319	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502077	85 OP	359	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502078	55	304	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502079	85 OP	308	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				

6099

000131

MEF	INV #	SIZE	NET LBS	%U	%U-235	DESCRIPTION	EPA1	EPA2	EPA3	EPA4	EPA5	EPA6	EPA7	EPA8
10010	W502080	85 OP	310	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502081	55	319	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502109	85 OP	285	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502110	85 OP	288	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502111	85 OP	286	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502112	55	292	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502113	85 OP	318	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502114	85 OP	295	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502115	55	339	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502116	55	340	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502117	85 OP	366	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502118	55	318	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502119	55	354	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502120	55	240	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502121	55	298	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502122	55	347	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502123	55	333	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502124	55	315	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502125	55	343	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502126	55	322	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502127	55	306	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502128	55	311	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502129	55	323	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502130	55	311	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502131	55	306	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502132	55	300	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502133	55	298	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502134	55	287	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502135	55	291	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502136	55	390	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502137	55	343	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				

000132

INCINERATION PROJECT – BATCH 1

MEF	INV #	SIZE	NET LBS	%U	%U-235	DESCRIPTION	EPA1	EPA2	EPA3	EPA4	EPA5	EPA6	EPA7	EPA8
10010	W502138	55	344	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502139	85 OP	327	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502140	85 OP	266	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502141	55	318	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502142	55	298	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502143	55	301	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502144	55	305	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502145	85 OP	287	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502146	55	291	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502147	55	327	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502148	85 OP	301	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502149	85 OP	301	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502150	55	304	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502151	55	299	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502152	55	336	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502153	55	315	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502154	85 OP	282	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502155	55	339	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502156	30 OP	292	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502157	85 OP	365	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502158	55	328	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502159	55	284	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502160	55	290	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502161	55	283	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502162	55	333	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502163	85 OP	308	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502164	55	313	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502165	55	340	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502166	55	340	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502167	55	309	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502168	55	320	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				

6609

000133

MEF	INV #	SIZE	NET LBS	%U	%U-235	DESCRIPTION	EPA1	EPA2	EPA3	EPA4	EPA5	EPA6	EPA7	EPA8
10010	W502169	55	326	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502170	55	348	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502171	55	326	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502172	55	325	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502173	55	338	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502174	55	279	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502175	55	275	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502176	85 OP	284	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502177	55	305	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502178	85 OP	287	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502179	55	260	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502180	55	300	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502181	85 OP	315	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502182	55	333	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502183	55	325	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502184	55	343	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502185	55	353	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502186	55	341	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502267	55	279	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502268	55	282	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502269	85 OP	392	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502270	85 OP	385	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502271	55	317	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502272	55	372	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502273	55	306	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502274	55	267	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502275	55	305	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502276	55	316	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502277	55	290	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502278	55	278	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502279	85 OP	328	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				

000134

INCINERATION PROJECT – BATCH 1

MEF	INV #	SIZE	NET LBS	%U	%U-235	DESCRIPTION	EPA1	EPA2	EPA3	EPA4	EPA5	EPA6	EPA7	EPA8
10010	W502280	55	304	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502281	55	268	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502282	55	297	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502283	85 OP	28	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502284	55	290	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502285	85 OP	411	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502286	55	293	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502287	55	369	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502288	55	345	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502289	55	308	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502290	55	282	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502291	55	302	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502292	55	303	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502293	55	287	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502294	55	285	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502295	55	244	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502296	55	278	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502297	55	298	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502298	55	330	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502299	85 OP	151	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502300	55	319	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502301	55	305	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502302	55	295	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502303	55	305	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502304	85 OP	289	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502305	55	322	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502306	55	316	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502307	55	347	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502308	55	276	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502309	55	201	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502310	55	343	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				

6609

000135

MEF	INV #	SIZE	NET LBS	%U	%U-235	DESCRIPTION	EPA1	EPA2	EPA3	EPA4	EPA5	EPA6	EPA7	EPA8
10010	W502327	85 OP	307	1.60	1.250	OILY SLUDGES	F001	D039	D029	D040				
10010	W502328	85 OP	326	1.60	1.250	OILY SLUDGES	F001	D039	D029	D040				
10010	W502329	55	305	1.60	1.250	OILY SLUDGES	F001	D039	D029	D040				
10010	W502330	55	301	1.60	1.250	OILY SLUDGES	F001	D039	D029	D040				
10010	W502331	55	294	1.60	1.250	OILY SLUDGES	F001	D039	D029	D040				
10010	W502332	85 OP	282	1.60	1.250	OILY SLUDGES	F001	D039	D029	D040				
10010	W502333	55	376	1.60	1.250	OILY SLUDGES	F001	D039	D029	D040				
10010	W502334	85 OP	285	1.60	1.250	OILY SLUDGES	F001	D039	D029	D040				
10010	W502335	85 OP	259	1.60	1.250	OILY SLUDGES	F001	D039	D029	D040				
10010	W502336	55	261	1.60	1.250	OILY SLUDGES	F001	D039	D029	D040				
10010	W502337	55	320	1.60	0.947	OILY SLUDGES	F001	D039	D029	D040				
10010	W502338	55	325	1.60	0.947	OILY SLUDGES	F001	D039	D029	D040				
10010	W502339	55	315	1.60	0.947	OILY SLUDGES	F001	D039	D029	D040				
10010	W502340	85 OP	331	1.60	0.947	OILY SLUDGES	F001	D039	D029	D040				
10010	W502341	55	325	1.60	0.947	OILY SLUDGES	F001	D039	D029	D040				
10010	W502342	55	322	1.60	0.947	OILY SLUDGES	F001	D039	D029	D040				
10010	W502343	55	329	1.60	0.947	OILY SLUDGES	F001	D039	D029	D040				
10010	W502344	55	293	1.60	0.947	OILY SLUDGES	F001	D039	D029	D040				
10010	W502345	55	278	1.60	0.947	OILY SLUDGES	F001	D039	D029	D040				
10010	W502346	55	315	1.60	0.947	OILY SLUDGES	F001	D039	D029	D040				
10010	W502347	55	298	1.60	0.947	OILY SLUDGES	F001	D039	D029	D040				
10010	W502348	55	295	1.60	0.947	OILY SLUDGES	F001	D039	D029	D040				
10010	W502349	55	299	1.60	0.947	OILY SLUDGES	F001	D039	D029	D040				
10010	W502350	85 OP	310	1.60	0.947	OILY SLUDGES	F001	D039	D029	D040				
10010	W502351	55	328	1.60	0.947	OILY SLUDGES	F001	D039	D029	D040				
10010	W502352	55	325	1.60	0.947	OILY SLUDGES	F001	D039	D029	D040				
10010	W502353	55	322	1.60	0.947	OILY SLUDGES	F001	D039	D029	D040				
10010	W502354	55	308	1.60	0.947	OILY SLUDGES	F001	D039	D029	D040				
10010	W502355	55	316	1.60	0.947	OILY SLUDGES	F001	D039	D029	D040				
10010	W502356	55	336	1.60	0.947	OILY SLUDGES	F001	D039	D029	D040				
10010	W502357	55	306	1.60	0.947	OILY SLUDGES	F001	D039	D029	D040				

000136

INCINERATION PROJECT – BATCH 1

MEF	INV #	SIZE	NET LBS	%U	%U-235	DESCRIPTION	EPA1	EPA2	EPA3	EPA4	EPA5	EPA6	EPA7	EPA8
10010	W502358	55	312	1.60	0.947	OILY SLUDGES	F001	D039	D029	D040				
10010	W502359	55	299	1.60	0.947	OILY SLUDGES	F001	D039	D029	D040				
10010	W502360	85 OP	299	1.60	0.947	OILY SLUDGES	F001	D039	D029	D040				
10010	W502361	55	348	1.60	0.947	OILY SLUDGES	F001	D039	D029	D040				
10010	W502362	55	137	1.60	0.947	OILY SLUDGES	F001	D039	D029	D040				
10010	W502363	55	327	1.60	0.947	OILY SLUDGES	F001	D039	D029	D040				
10010	W502364	55	331	1.60	0.947	OILY SLUDGES	F001	D039	D029	D040				
10010	W502365	55	353	1.60	0.947	OILY SLUDGES	F001	D039	D029	D040				
10010	W502366	55	334	1.60	0.947	OILY SLUDGES	F001	D039	D029	D040				
10010	W502367	55	333	1.60	0.947	OILY SLUDGES	F001	D039	D029	D040				
10010	W502368	55	330	1.60	0.947	OILY SLUDGES	F001	D039	D029	D040				
10010	W502369	85 OP	340	1.60	0.947	OILY SLUDGES	F001	D039	D029	D040				
10010	W502370	55	362	1.60	0.947	OILY SLUDGES	F001	D039	D029	D040				
10010	W502371	55	349	1.60	0.947	OILY SLUDGES	F001	D039	D029	D040				
10010	W502372	55	325	1.60	0.947	OILY SLUDGES	F001	D039	D029	D040				
10010	W502373	55	312	1.60	0.947	OILY SLUDGES	F001	D039	D029	D040				
10010	W502374	55	293	1.60	0.947	OILY SLUDGES	F001	D039	D029	D040				
10010	W502375	55	375	1.60	0.947	OILY SLUDGES	F001	D039	D029	D040				
10010	W502376	55	257	1.60	0.947	OILY SLUDGES	F001	D039	D029	D040				
10010	W502377	55	375	1.60	0.947	OILY SLUDGES	F001	D039	D029	D040				
10010	W502378	55	354	1.60	0.947	OILY SLUDGES	F001	D039	D029	D040				
10010	W502379	55	280	1.60	0.947	OILY SLUDGES	F001	D039	D029	D040				
10010	W502380	55	412	1.60	0.947	OILY SLUDGES	F001	D039	D029	D040				
10010	W502381	85 OP	305	1.60	0.947	OILY SLUDGES	F001	D039	D029	D040				
10010	W502382	55	347	1.60	0.947	OILY SLUDGES	F001	D039	D029	D040				
10010	W502383	55	374	1.60	0.947	OILY SLUDGES	F001	D039	D029	D040				
10010	W502384	55	304	1.60	0.947	OILY SLUDGES	F001	D039	D029	D040				
10010	W502385	85 OP	341	1.60	0.947	OILY SLUDGES	F001	D039	D029	D040				
10010	W502386	55	342	1.60	0.947	OILY SLUDGES	F001	D039	D029	D040				
10010	W502387	55	331	1.60	0.947	OILY SLUDGES	F001	D039	D029	D040				
10010	W502388	55	307	1.60	0.947	OILY SLUDGES	F001	D039	D029	D040				

6609

000137

MEF	INV #	SIZE	NET LBS	%U	%U-23	DESCRIPTION	EPA1	EPA2	EPA3	EPA4	EPA5	EPA6	EPA7	EPA8
10010	W502389	55	297	1.60	0.947	OILY SLUDGES	F001	D039	D029	D040				
10010	W502390	55	297	1.60	0.947	OILY SLUDGES	F001	D039	D029	D040				
10010	W502391	55	304	1.60	0.947	OILY SLUDGES	F001	D039	D029	D040				
10010	W502392	55	298	1.60	0.947	OILY SLUDGES	F001	D039	D029	D040				
10010	W502393	55	280	1.60	0.947	OILY SLUDGES	F001	D039	D029	D040				
10010	W502394	55	305	1.60	0.947	OILY SLUDGES	F001	D039	D029	D040				
10010	W502395	85 OP	206	1.60	1.100	OILY SLUDGES	F001	D039	D029	D040				
10010	W502396	85 OP	197	1.60	1.100	OILY SLUDGES	F001	D039	D029	D040				
10010	W502397	85 OP	314	1.60	1.100	OILY SLUDGES	F001	D039	D029	D040				
10010	W502399	85 OP	296	1.60	1.100	OILY SLUDGES	F001	D039	D029	D040				
10010	W502400	55	293	1.60	1.100	OILY SLUDGES	F001	D039	D029	D040				
10010	W502401	85 OP	297	1.60	1.100	OILY SLUDGES	F001	D039	D029	D040				
10010	W502402	55	307	1.60	1.100	OILY SLUDGES	F001	D039	D029	D040				
10010	W502403	55	304	1.60	1.100	OILY SLUDGES	F001	D039	D029	D040				
10010	W502404	85 OP	315	1.60	1.100	OILY SLUDGES	F001	D039	D029	D040				
10010	W502405	55	332	1.60	1.100	OILY SLUDGES	F001	D039	D029	D040				
10010	W502406	55	285	1.60	1.100	OILY SLUDGES	F001	D039	D029	D040				
10010	W502407	55	293	1.60	1.100	OILY SLUDGES	F001	D039	D029	D040				
10010	W502408	55	303	1.60	1.100	OILY SLUDGES	F001	D039	D029	D040				
10010	W502409	55	85	1.60	1.100	OILY SLUDGES	F001	D039	D029	D040				
10010	W502493	85 OP	335	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502495	85 OP	259	1.60	0.711	OILY SLUDGES	F001	D039	D029	D040				
10010	W502496	85 OP	331	1.60	0.711	OILY SLUDGES	F001	D039	D029	D040				
10010	W502497	55	321	1.60	0.711	OILY SLUDGES	F001	D039	D029	D040				
10010	W502498	55	323	1.60	0.711	OILY SLUDGES	F001	D039	D029	D040				
10010	W502499	55	346	1.60	0.711	OILY SLUDGES	F001	D039	D029	D040				
10010	W502500	85 OP	440	1.60	0.711	OILY SLUDGES	F001	D039	D029	D040				
10010	W502501	110 OP	266	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502502	85 OP	333	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502503	55	299	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502504	55	340	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				

000138

INCINERATION PROJECT – BATCH 1

MEF	INV #	SIZE	NET LBS	%U	%U-235	DESCRIPTION	EPA1	EPA2	EPA3	EPA4	EPA5	EPA6	EPA7	EPA8
10010	W502505	55	330	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502506	55	271	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502507	55	318	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502508	55	348	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502509	55	363	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502510	55	319	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502516	85 OP	462	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502517	55	320	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502518	85 OP	343	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502519	55	335	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502540	85 OP	334	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502541	85 OP	325	1.60	0.711	OILY SLUDGES	F001	D039	D029	D040				
10010	W502542	85 OP	437	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502543	85 OP	284	1.60	1.100	OILY SLUDGES	F001	D039	D029	D040				
10010	W502544	85 OP	337	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502545	85 OP	325	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502658	55	38	1.60	1.100	OILY SLUDGES	F001	D039	D029	D040				
10010	W502689	55	403	1.60	1.100	OILY SLUDGES	F001	D039	D029	D040				
10010	W502690	85 OP	381	1.60	0.711	OILY SLUDGES	F001	D039	D029	D040				
10010	W502696	55	469	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W502791	85 OP	296	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W503514	55	290	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10010	W503775	55	316	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
10027	W501031	85 OP	447	0.01	0.200	U-CONTAMINATED OIL, INSOLUBLE IN W/	D040	D039	F001					
10027	W501033	85 OP	400	0.01	0.200	U-CONTAMINATED OIL, INSOLUBLE IN W/	D040	D039	F001					
10027	W501034	55	409	0.01	0.200	U-CONTAMINATED OIL, INSOLUBLE IN W/	D040	D039	F001					
10027	W501035	55	404	0.01	0.200	U-CONTAMINATED OIL, INSOLUBLE IN W/	D040	D039	F001					
10027	W501036	55	395	0.01	0.200	U-CONTAMINATED OIL, INSOLUBLE IN W/	D040	D039	F001					
10027	W501037	85 OP	407	0.01	0.200	U-CONTAMINATED OIL, INSOLUBLE IN W/	D040	D039	F001					
10027	W501041	55	479	0.01	0.200	U-CONTAMINATED OIL, INSOLUBLE IN W/	D040	D039	F001					
10027	W501042	55	466	0.01	0.200	U-CONTAMINATED OIL, INSOLUBLE IN W/	D040	D039	F001					

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000139

MEF	INV #	SIZE	NET LBS	%U	%U-235	DESCRIPTION	EPA1	EPA2	EPA3	EPA4	EPA5	EPA6	EPA7	EPA8
10027	W501043	55 OP	242	0.01	0.200	U-CONTAMINATED OIL, INSOLUBLE IN W/D040	D039	F001						
10027	W501044	85 OP	442	0.01	0.200	U-CONTAMINATED OIL, INSOLUBLE IN W/D040	D039	F001						
10027	W501045	55	358	0.01	0.200	U-CONTAMINATED OIL, INSOLUBLE IN W/D040	D039	F001						
10027	W501046	55	415	0.01	0.200	U-CONTAMINATED OIL, INSOLUBLE IN W/D040	D039	F001						
10027	W502558	55	296	0.01	0.200	U-CONTAMINATED OIL, INSOLUBLE IN W/D040	D039	F001						
10027	W502559	55	351	0.01	0.200	U-CONTAMINATED OIL, INSOLUBLE IN W/D040	D039	F001						

TOTAL # OF DRUMS – 564

000140

MEF	INV #	SIZE	NET LBS	%U	%U-235	DESCRIPTION	EPA CODES
00426	W503666	5 GAL	35	0.01	0.200	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W503667	5 GAL	31	0.01	0.980	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W503668	5 GAL	32	0.01	0.200	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W503712	5 GAL	27	0.01	0.200	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W503713	5 GAL	36	0.01	0.200	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W503780	5 GAL	31	0.01	0.200	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W503781	5 GAL	37	0.01	0.200	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W503818	5 GAL	32	0.01	0.200	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W503819	5 GAL	25	0.01	0.200	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W503887	5 GAL	32	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W503888	5 GAL	35	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W503905	5 GAL	30	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W503906	5 GAL	32	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W503914	5 GAL	28	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W503915	5 GAL	30	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W504297	5 GAL	15	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W504298	5 GAL	33	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W504299	5 GAL	32	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W504635	5 GAL	28	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W504804	5 GAL	26	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W504806	5 GAL	28	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W506202	5 GAL	32	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W506205	5 GAL	32	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W506206	5 GAL	30	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W506207	5 GAL	30	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W506208	5 GAL	26	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W506269	5 GAL	32	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W506270	5 GAL	32	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W506271	5 GAL	32	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W506310	5 GAL	30	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W506311	5 GAL	30	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W506312	5 GAL	28	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W506313	5 GAL	30	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W506323	5 GAL	31	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001

000741

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INCINERATION PROJEC BATCH 2

MEF	INV #	SIZE	NET LBS	%U	%U-235	DESCRIPTION	EPA CODES
00426	W506325	5 GAL	30	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W506400	5 GAL	31	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W506402	5 GAL	30	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W506403	5 GAL	30	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W506404	5 GAL	30	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W506405	5 GAL	28	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W506571	5 GAL	32	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W506572	5 GAL	32	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W506573	5 GAL	30	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W506574	5 GAL	28	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W506575	5 GAL	30	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W506576	5 GAL	28	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W506577	5 GAL	33	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W506642	5 GAL	33	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W506643	5 GAL	32	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W506644	5 GAL	27	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W506645	5 GAL	28	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W506646	5 GAL	31	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W506658	5 GAL	28	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W506659	5 GAL	30	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W506660	5 GAL	29	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W506803	5 GAL	26	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W506804	5 GAL	26	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W506805	5 GAL	28	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W506806	5 GAL	31	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W506827	5 GAL	28	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W506828	5 GAL	28	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W506829	5 GAL	30	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W506849	5 GAL	28	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W506850	5 GAL	29	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W506851	5 GAL	29	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W506852	5 GAL	30	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W506867	5 GAL	33	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W506869	5 GAL	34	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001

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MEF	INV #	SIZE	NET LBS	%U	%U-235	DESCRIPTION	EPA CODES
00426	W506870	5 GAL	28	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W506880	5 GAL	28	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W506881	5 GAL	29	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W506882	5 GAL	29	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W506883	5 GAL	28	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W506888	5 GAL	30	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W506889	5 GAL	28	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W506890	5 GAL	31	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W506891	5 GAL	28	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W507485	5 GAL	28	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W507486	5 GAL	27	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W507487	5 GAL	25	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W507488	5 GAL	30	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W507606	5 GAL	29	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W507607	5 GAL	32	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W507608	5 GAL	31	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W507615	5 GAL	32	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W507616	5 GAL	29	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W507617	5 GAL	32	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W507626	5 GAL	30	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W507627	5 GAL	28	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W507628	5 GAL	30	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W507633	5 GAL	36	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W507634	5 GAL	34	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W507635	5 GAL	34	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W507636	5 GAL	32	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W507655	5 GAL	30	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W507656	5 GAL	28	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W507657	5 GAL	29	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W507724	5 GAL	30	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W507725	5 GAL	31	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W507726	5 GAL	34	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W507727	5 GAL	32	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W507744	5 GAL	29	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001

000143

6609

INCINERATION PROJEC ATCH 2

MEF	INV #	SIZE	NET LBS	%U	%U-235	DESCRIPTION	EPA CODES
00426	W507745	5 GAL	33	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W507746	5 GAL	33	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W507783	5 GAL	35	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W507784	5 GAL	27	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W507785	5 GAL	32	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W507786	5 GAL	30	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W507787	5 GAL	30	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W507815	5 GAL	30	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W507816	5 GAL	34	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W507817	5 GAL	32	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W507818	5 GAL	29	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W507823	5 GAL	31	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W507825	5 GAL	29	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W507826	5 GAL	30	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W508118	5 GAL	34	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W508119	5 GAL	33	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W508120	5 GAL	29	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W509632	5 GAL	31	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W509633	5 GAL	35	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W509634	5 GAL	31	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W509635	5 GAL	30	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W510102	5 GAL	34	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W510103	5 GAL	27	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W510104	5 GAL	31	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W510811	5 GAL	31	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W510812	5 GAL	29	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W510813	5 GAL	37	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W510814	5 GAL	31	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W511793	5 GAL	30	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W511794	5 GAL	28	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W511795	5 GAL	32	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W513841	5 GAL	28	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W513842	5 GAL	37	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W513843	5 GAL	30	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001

00144

MEF	INV #	SIZE	NET LBS	%U	%U-235	DESCRIPTION	EPA CODES
00426	W513844	5 GAL	28	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W513858	5 GAL	28	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W513859	5 GAL	28	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W513860	5 GAL	30	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W513918	5 GAL	30	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W513919	5 GAL	30	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W513921	5 GAL	28	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W513945	5 GAL	31	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W513946	5 GAL	28	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W513951	5 GAL	35	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W513958	5 GAL	34	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W513959	5 GAL	33	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W513960	5 GAL	32	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W513974	5 GAL	26	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W513975	5 GAL	27	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W513976	5 GAL	30	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W514056	5 GAL	27	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W514057	5 GAL	27	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W514058	5 GAL	29	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W514059	5 GAL	30	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W514103	5 GAL	30	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W514104	5 GAL	26	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W514105	5 GAL	22	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W514198	5 GAL	27	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W514200	5 GAL	27	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W514201	5 GAL	23	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W514202	5 GAL	33	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W514302	5 GAL	30	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W514303	5 GAL	30	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W514304	5 GAL	23	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W514305	5 GAL	30	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W514330	5 GAL	29	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W514331	5 GAL	24	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W514332	5 GAL	25	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001

6009

001445

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MEF	INV #	SIZE	NET LBS	%U	%U-23	DESCRIPTION	EPA CODES
00426	W514333	5 GAL	26	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W514336	5 GAL	25	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W514365	5 GAL	22	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W514366	5 GAL	27	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W514367	5 GAL	25	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W514368	5 GAL	24	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W514369	5 GAL	43	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W514370	5 GAL	37	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W514543	5 GAL	20	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W514544	5 GAL	28	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W514545	5 GAL	21	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W514546	5 GAL	27	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W514547	5 GAL	26	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W514549	5 GAL	25	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W514671	5 GAL	21	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W514672	5 GAL	29	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W514673	5 GAL	23	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W514674	5 GAL	28	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W514675	5 GAL	24	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W514676	5 GAL	29	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W514700	5 GAL	30	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W514701	5 GAL	29	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W514702	5 GAL	25	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W514703	5 GAL	30	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W514704	5 GAL	27	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W514705	5 GAL	28	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W514794	5 GAL	29	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W514795	5 GAL	28	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W514796	5 GAL	31	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W514797	5 GAL	30	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W514798	5 GAL	30	0.01	0.700	METHANOL CYCLOHEXANE MIXTURE	D001
00426	W514799	5 GAL	28	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W514814	5 GAL	30	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001
00426	W514815	5 GAL	29	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001

MEF	INV #	SIZE	NET LBS	%U	%U-235	DESCRIPTION	EPA CODES							
00426	W514816	5 GAL	29	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001							
00426	W514817	5 GAL	30	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001							
00426	W514818	5 GAL	24	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001							
00426	W514819	5 GAL	26	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001							
00426	W514852	5 GAL	26	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001							
00426	W514853	5 GAL	25	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001							
00426	W514854	5 GAL	32	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001							
00426	W514855	5 GAL	25	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001							
00426	W514856	5 GAL	29	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001							
00426	W514857	5 GAL	31	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001							
00426	W514908	5 GAL	28	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001							
00426	W514909	5 GAL	31	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001							
00426	W514910	5 GAL	30	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001							
00426	W514911	5 GAL	29	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001							
00426	W514912	5 GAL	29	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001							
00426	W514913	5 GAL	25	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001							
00426	W515044	55 POLY	311	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001							
00426	W515102	55 POLY	392	0.01	0.700	METHANOL/CYCLOHEXANE MIXTURE	D001	F003						
20003	W500294	55 OP	34	0.01	1.000	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502187	55	456	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502188	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502189	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502190	85 OP	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502191	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502192	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502193	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502194	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502195	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502196	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502197	85 OP	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502198	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502199	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502200	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502201	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029

000427

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MEF	INV #	SIZE	NET LBS	%U	%U-235	DESCRIPTION	EPA CODES							
20003	W502202	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502227	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502228	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502229	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502230	85 OP	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502231	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502232	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502233	85 OP	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502234	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502235	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502236	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502237	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502238	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502239	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502240	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502241	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502242	85 OP	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502243	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502244	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502245	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502246	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502247	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502248	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502249	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502250	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502251	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502252	85 OP	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502253	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502254	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502255	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502256	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502257	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502258	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502259	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029

MEF	INV #	SIZE	NET LBS	%U	%U-235	DESCRIPTION	EPA CODES							
20003	W502260	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502261	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502262	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502263	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502264	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502265	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502266	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502613	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502614	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502615	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502616	85 OP	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502617	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502618	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502619	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502620	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502621	85 OP	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502622	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502623	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502624	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502625	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502626	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502627	85 OP	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502628	85 OP	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502629	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502630	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502631	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502661	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502662	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502663	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502664	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502665	85 OP	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502666	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502667	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502668	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029

000149

6609

INCINERATION PROJEC 3ATCH 2

MEF	INV #	SIZE	NET LBS	%U	%U-235	DESCRIPTION	EPA CODES							
20003	W502669	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502670	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502671	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502672	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502673	85 OP	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502674	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502675	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502676	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502677	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502678	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502679	85 OP	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502680	85 OP	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502720	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502721	85 OP	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502723	85 OP	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502724	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502725	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502726	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502727	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502728	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502729	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502730	85 OP	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502731	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502732	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502733	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502734	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502735	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502736	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502737	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502738	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502739	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502740	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502783	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502784	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029

001150

MEF	INV #	SIZE	NET LBS	%U	%U-235	DESCRIPTION	EPA CODES							
20003	W502785	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502786	85 OP	451	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502787	85 OP	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502788	85 OP	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502789	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502790	85 OP	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502795	85 OP	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502796	85 OP	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502797	85 OP	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502798	85 OP	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502799	85 OP	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502800	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502801	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502802	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502803	85 OP	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502804	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502805	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502806	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502807	85 OP	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502808	85 OP	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502809	85 OP	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502810	85 OP	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502811	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502812	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502813	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502814	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502815	85 OP	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502816	85 OP	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502817	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502818	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502819	85 OP	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502820	85 OP	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502821	85 OP	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502822	85 OP	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029

000151

6009

INCINERATION PROJEC ATCH 2

MEF	INV #	SIZE	NET LBS	%U	%U-235	DESCRIPTION	EPA CODES							
20003	W502839	85 OP	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502844	85 OP	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502845	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502846	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502847	85 OP	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502848	85 OP	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502849	85 OP	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502850	85 OP	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502851	85 OP	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502852	85 OP	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502853	85 OP	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502854	85 OP	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502855	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502856	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502857	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502858	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502859	85 OP	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502860	85 OP	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502861	85 OP	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502862	85 OP	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502874	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502875	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502876	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502877	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502878	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502879	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502880	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502881	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502882	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502883	55	465	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502884	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502885	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502886	55	458	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502887	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029

MEF	INV #	SIZE	NET LBS	%U	%U-235	DESCRIPTION	EPA CODES							
20003	W502888	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502889	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502890	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502891	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502892	55	468	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502893	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502894	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502895	85 OP	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502896	55	464	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502897	55	461	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502898	55	463	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502899	55	458	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502900	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502901	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502902	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502903	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502904	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502905	55	442	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502906	55	446	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502907	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502908	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502909	55	447	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502910	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502911	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502912	55	447	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502913	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502914	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502915	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502916	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502917	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502918	55	459	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502919	85 OP	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502920	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502921	85 OP	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029

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INCINERATION PROJEC 'ATCH 2

MEF	INV #	SIZE	NET LBS	%U	%U-235	DESCRIPTION	EPA CODES							
20003	W502922	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502923	55	445	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502924	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502925	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502926	85 OP	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502927	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502928	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502929	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502930	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502931	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502932	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502933	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502934	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502935	55	453	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502936	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502937	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502938	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502939	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502940	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502941	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502945	55	456	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502946	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502947	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502948	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502949	55	447	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502950	85 OP	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502951	55	447	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502952	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502953	85 OP	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502954	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502955	85 OP	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502956	85 OP	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502957	85 OP	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502958	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029

MEF	INV #	SIZE	NET LBS	%U	%U-235	DESCRIPTION	EPA CODES							
20003	W502959	85 OP	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502960	85 OP	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502961	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502962	85 OP	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502963	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502964	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502965	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502966	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502967	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502968	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502969	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502970	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502971	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502972	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502979	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502980	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502981	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502982	55	446	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502983	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502984	85 OP	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502985	85 OP	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502986	55	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502987	55	188	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W502988	85 OP	452	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W503554	55	450	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029
20003	W504629	55	27	0.01	0.950	DEGREASING SOLVENT	F001	F003	F005	D001	D019	D022	D028	D029

Total # of drums – 502

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MEF	INV. #		SIZE	NET WT.	% U	%U-235	MATERIAL DESCRIPTION	EPA1	EPA2	EPA3	EPA4	EPA5	EPA6	EPA7	EPA8
60051	W501130	R050	55	56	0.01	0.500	DRY CLEANING SLUDGES/CAKE	F001							
60051	W501131	R050	55	84	0.01	0.500	DRY CLEANING SLUDGES/CAKE	F001							
60051	W501132	R050	55	94	0.01	0.500	DRY CLEANING SLUDGES/CAKE	F001							
60051	W502687	R050	55	115	0.01	0.500	DRY CLEANING SLUDGES/CAKE	F001							
60051	W502688	R050	55	65	0.01	0.500	DRY CLEANING SLUDGES/CAKE	F001							
60051	W502697	R020	85 OP	71	0.01	0.200	USED OIL	F002							
60051	W502698	R020	55	400	0.01	0.200	USED OIL	F001							
60051	W502699	R020	55	42	0.01	0.200	USED OIL	F001							
60051	W502700	R020	55	415	0.01	0.200	USED OIL	F001							
60062	W500193	S095	55	327	0.50	0.950	SOLVENT CONTAMINATED OIL	D001	D008	D009	F002				
60062	W500194	S095	55	361	0.50	0.950	SOLVENT CONTAMINATED OIL	D001	D008	D009	F002				
60062	W500196	S095	55	315	0.50	0.950	SOLVENT CONTAMINATED OIL	D001	D008	D009	F002				
60062	W503524	R050	55	365	0.01	0.500	SOLVENT CONTAMINATED OIL	D001	D008	D009	F002				
60062	W503525	R050	85 OP	340	0.01	0.500	SOLVENT CONTAMINATED OIL	D001	D008	D009	F002				
60062	W503526	R050	55	391	0.01	0.500	SOLVENT CONTAMINATED OIL	D001	D008	D009	F002				
60062	W503527	R050	55	352	0.01	0.500	SOLVENT CONTAMINATED OIL	D001	D008	D009	F002				
60062	W503553	R050	55	87	0.01	0.500	SOLVENT CONTAMINATED OIL	D001	D008	D009	F002				
60062	W081754	W095	85	399	0.50	0.950	WASTE INVENTORY								
60062	W081755	W095	85	38	0.50	0.950	WASTE INVENTORY								
60062	W081756	W095	85	84	0.50	0.950	WASTE INVENTORY								
60062	W066927	W099	85	175	0.50	0.990	WASTE INVENTORY								
60062	W066926	W099	85	172	0.50	0.990	WASTE INVENTORY								
60062	W077671	W099	85	384	0.50	0.990	WASTE INVENTORY								
60062	W074522	W099	85	38	0.50	0.990	WASTE INVENTORY								
60062	W066925	W099	85	155	0.50	0.990	WASTE INVENTORY								
60065	W501340	R050	85 OP	402	0.01	0.500	USED OIL	F002							
60066	W503522	R050	55	112	0.01	0.500	CONTAMINATED INSOLUBLE OIL	D008	F002						
60067	W501335	R020	55	341	0.50	0.200	SOLVENT CONTAMINATED WASTE OIL	D008	F002						
60068	W503735	R020	55	381	0.01	0.200	CONTAMINATED INSOLUBLE OIL	F001	D008						
60068	W504808	R020	55	401	0.01	0.200	CONTAMINATED INSOLUBLE OIL	F001	D008						
60068	W503012	R020	55	313	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F001	D008						
60069	W500111	H093	55	413	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F001	D008						
60069	W500112	H093	55	372	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F001	D008						
60069	W500113	H093	55	379	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F001	D008						
60069	W500114	H093	55	389	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F001	D008						
60069	W500145	H093	55	247	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F001	D008						
60069	W500389	H093	55 OP	170	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F001	D008						
60069	W500390	H093	55 OP	197	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F001	D008						
60069	W500391	H093	55 OP	195	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F001	D008						
60069	W500395	H093	55	306	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F001	D008						

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MEF	INV. #		SIZE	NET WT.	% U	%U-235	MATERIAL DESCRIPTION	EPA1	EPA2	EPA3	EPA4	EPA5	EPA6	EPA7	EPA8
00023	W504205	R099	55 GAI	362	0.01	0.990	USED OIL, CONTAINS 1.1.1-TRICHLOR	F002	D008						
00379	W506522	R020	55	169	0.01	0.200	SPENT 1,1,1-TRICHLOROETHANE	F001	F002	D018	D008				
00385	W507946	R050	55	238	0.01	0.500	SOLVENT/OIL	F001	F002	D018					
00388	W506304	R050	55	382	0.01	0.500	USED OILS	F002	D010	D018					
00388	W506320	R050	55	401	0.01	0.500	USED OILS	F002	D010	D018					
00388	W506416	R050	55	375	0.01	0.500	USED OILS	F002	D010	D018					
00388	W506453	R050	55	324	0.01	0.500	USED OILS	F002	D010	D018					
00388	W506526	R050	55	328	0.01	0.500	USED OILS	F002	D010	D018					
00388	W506529	R050	55	393	0.01	0.500	USED OILS	F002	D010	D018					
00388	W506605	R050	55	396	0.01	0.500	USED OILS	F002	D010	D018					
00388	W506615	R050	55	393	0.01	0.500	USED OILS	F002	D010	D018					
00388	W506632	R050	55	378	0.01	0.500	USED OILS	F002	D010	D018					
00388	W506649	R050	55	415	0.01	0.500	USED OILS	F002	D010	D018					
00388	W506654	R050	55	367	0.01	0.500	USED OILS	F002	D010	D018					
00388	W506680	R050	55	357	0.01	0.500	USED OILS	F002	D010	D018					
00388	W506818	R050	55	347	0.01	0.500	USED OILS	F002	D010	D018					
00388	W506835	R050	55	378	0.01	0.500	USED OILS	F002	D010	D018					
00388	W506844	R050	55	403	0.01	0.500	USED OILS	F002	D010	D018					
00388	W506847	R050	55	367	0.01	0.500	USED OILS	F002	D010	D018					
00388	W506863	R050	55	345	0.01	0.500	USED OILS	F002	D010	D018					
00388	W506876	R050	55	351	0.01	0.500	USED OILS	F002	D010	D018					
00388	W506885	R050	55	393	0.01	0.500	USED OILS	F002	D010	D018					
00388	W506887	R050	55	271	0.01	0.500	USED OILS	F002	D010	D018					
00388	W507419	R050	55	366	0.01	0.500	USED OILS	F002	D010	D018					
00388	W507596	R050	55	400	0.01	0.500	USED OILS	F002	D010	D018					
00388	W507612	R050	55	343	0.01	0.500	USED OILS	F002	D010	D018					
00388	W507624	R050	55	362	0.01	0.500	USED OILS	F002	D010	D018					
00388	W507630	R050	55	353	0.01	0.500	USED OILS	F002	D010	D018					
00388	W507637	R050	55	311	0.01	0.500	USED OILS	F002	D010	D018					
00388	W507639	R050	55	403	0.01	0.500	USED OILS	F002	D010	D018					
00388	W507729	R050	55	391	0.01	0.500	USED OILS	F002	D010	D018					
00388	W507771	R050	55	367	0.01	0.500	USED OILS	F002	D010	D018					
00388	W507788	R050	55	334	0.01	0.500	USED OILS	F002	D010	D018					
00388	W507813	R050	55	350	0.01	0.500	USED OILS	F002	D010	D018					
00388	W507944	R050	55	359	0.01	0.500	USED OILS	F002	D010	D018					
00400	W506617	R020	55	231	0.01	0.200	CONTAMINATED SITE OILS	F002	D001	D008	D019				
00402	W506525	R099	55	342	0.01	0.990	USED OIL	F001	F002	D008	D018				
00402	W506832	R099	55	132	0.01	0.990	USED OIL	F001	F002	D008	D018				
00402	W507945	R099	55	380	0.01	0.990	USED OIL	F001	F002	D008	D018				
00402	W507954	R099	55	35	0.01	0.990	USED OIL	F001	F002	D008	D018				

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MEF	INV. #		SIZE	NET WT.	% U	%U-235	MATERIAL DESCRIPTION	EPA1	EPA2	EPA3	EPA4	EPA5	EPA6	EPA7	EPA8
00422	W503711	R098	5 GAL	33	0.01	0.980	METHYLENE CHLORIDE	F002							
00438	W506369	R050	55	389	0.01	0.500	HYDRAULIC OIL	D018							
00438	W506582	R050	85 OP	409	0.01	0.500	HYDRAULIC OIL	D018							
00438	W506583	R050	85 OP	246	0.01	0.500	HYDRAULIC OIL	D018							
00438	W506584	R050	85 OP	45	0.01	0.500	HYDRAULIC OIL	D018							
00460	W506321	R020	55	25	0.01	0.200	LIQUID & SOLID WASTE SAMPLES	F002	D004	D005	D006	D007	D008	D010	D018
00480	W506445	R050	55	398	0.01	0.500	USED OIL	D018	F002						
00480	W506508	R050	55	380	0.01	0.500	USED OIL	D018	F002						
00480	W506509	R050	55	385	0.01	0.500	USED OIL	D018	F002						
00480	W506510	R050	55	365	0.01	0.500	USED OIL	D018	F002						
00480	W506511	R050	55	380	0.01	0.500	USED OIL	D018	F002						
00480	W506512	R050	55	385	0.01	0.500	USED OIL	D018	F002						
00480	W513926	R050	55	290	0.01	0.500	USED OIL	D018	F002						
00742	W506637	R050	110 OF	542	0.01	0.500	OILY SLUDGE	F001							
00742	W506638	R050	85 OP	663	0.01	0.500	OILY SLUDGE	F001							
01414	W506332	R050	55	401			CONTAMINATED INSOLUBLE OIL	D001	D008						
01414	W506396	R050	55	383			CONTAMINATED INSOLUBLE OIL	D001	D008						
01423	W506307	R099	55	375			CONTAMINATED INSOLUBLE OIL	D008	D009	D039	D040	F001	F002	F003	F005
10006	W501339	R050	85 OP	269	1.00	0.500	USED OIL FROM EQUIPMENT IN LAB	D008	D009	D039	F002	F003	F005		
10007	W500392	X500	85 OP	292	1.60	0.947	OILY SLUDGE	D007	F001						
10007	W500190	X500	85 OP	330	1.60	0.947	OILY SLUDGE	D007	F001						
10007	W500192	X500	85 OP	325	1.60	0.947	OILY SLUDGE	D007	F001						
10021	W503657	R095	55	149	0.01	0.950	OILY SLUDGE	F001	D008	D039	D040				
10021	W503658	R095	55	536	0.01	0.950	OILY SLUDGE	F001	D008	D039	D040				
10028	W500388	H082	85 OP	525	1.60	0.200	OILY SLUDGE	D008	F001						
10028	W502410	S095	55	577	1.60	0.950	OILY SLUDGE	D008	F001						
10028	W502411	S095	55	243	1.60	0.950	OILY SLUDGE	D008	F001						
10028	W502412	S095	85 OP	316	1.60	0.950	OILY SLUDGE	D008	F001						
10028	W502413	S095	55	29	1.60	0.950	OILY SLUDGE	D008	F001						
10028	W502414	S095	55	188	1.60	0.950	OILY SLUDGE	D008	F001						
10028	W502415	S095	55	266	1.60	0.950	OILY SLUDGE	D008	F001						
10028	W502416	S095	55	311	1.60	0.950	OILY SLUDGE	D008	F001						
10028	W502417	S095	55	361	1.60	0.950	OILY SLUDGE	D008	F001						
10028	W502418	S095	55	436	1.60	0.950	OILY SLUDGE	D008	F001						
10029	W500191	X500	55	599	0.50	0.947	U-CONTAM. OIL, INSOLUBLE IN WATER	F001	D006	D007	D008	D029	D019	D040	
10029	W500197	X888	85 OP	412	0.50	1.100	U-CONTAM. OIL, INSOLUBLE IN WATER	F001	D006	D007	D008	D029	D019	D040	
10029	W500198	X888	55	452	0.50	1.100	U-CONTAM. OIL, INSOLUBLE IN WATER	F001	D006	D007	D008	D029	D019	D040	
10029	W500199	X888	85 OP	430	0.50	1.100	U-CONTAM. OIL, INSOLUBLE IN WATER	F001	D006	D007	D008	D029	D019	D040	
10029	W500200	X888	55	380	0.50	1.100	U-CONTAM. OIL, INSOLUBLE IN WATER	F001	D006	D007	D008	D029	D019	D040	
10029	W500256	X888	30	184	0.50	1.100	U-CONTAM. OIL, INSOLUBLE IN WATER	F001	D006	D007	D008	D029	D019	D040	

 * Shading indicates Waste drums

000158

MEF	INV. #		SIZE	NET WT	% U	%U-235	MATERIAL DESCRIPTION	EPA1	EPA2	EPA3	EPA4	EPA5	EPA6	EPA7	EPA8
10029	W500257	X888	30	145	0.50	1.100	U-CONTAM. OIL, INSOLUBLE IN WATER	F001	D006	D007	D008	D029	D019	D040	
10029	W500336	X900	85 OP	454	0.50	0.900	U-CONTAM. OIL, INSOLUBLE IN WATER	F001	D006	D007	D008	D029	D019	D040	
10032	W501654	R125	85 OP	330	0.01	1.250	U-CONTAM. OIL, INSOLUBLE IN WATER	F001							
10032	W501652	R125	55	338	0.01	1.250	U-CONTAM. OIL, INSOLUBLE IN WATER	F001							
10035	W500115	R050	55	43	0.01	0.500	CARBON TETRACHLORIDE	U211	D019						
20021	W500090	H093	55	427	0.50	0.200	HYDRAULIC OIL	F001	D019	D029	D039	D040			
20021	W500091	H093	55	434	0.50	0.200	HYDRAULIC OIL	F001	D019	D029	D039	D040			
20021	W500092	H093	55	350	0.50	0.200	HYDRAULIC OIL	F001	D019	D029	D039	D040			
20021	W500093	H093	55	440	0.50	0.200	HYDRAULIC OIL	F001	D019	D029	D039	D040			
20021	W500141	X948	55	266	0.50	0.200	HYDRAULIC OIL	F001	D019	D029	D039	D040			
20021	W500143	H093	55	246	0.50	0.200	HYDRAULIC OIL	F001	D019	D029	D039	D040			
20021	W500144	H093	55	409	0.50	0.200	HYDRAULIC OIL	F001	D019	D029	D039	D040			
20021	W500146	H093	55	454	0.50	0.200	HYDRAULIC OIL	F001	D019	D029	D039	D040			
20021	W500163	H093	85 OP	437	0.50	0.200	HYDRAULIC OIL	F001	D019	D029	D039	D040			
20021	W500164	H093	55	434	0.50	0.200	HYDRAULIC OIL	F001	D019	D029	D039	D040			
20021	W500165	H093	85 OP	434	0.50	0.200	HYDRAULIC OIL	F001	D019	D029	D039	D040			
20021	W500166	H093	55	424	0.50	0.200	HYDRAULIC OIL	F001	D019	D029	D039	D040			
20021	W501120	S020	55	341	0.50	0.200	HYDRAULIC OIL	F001	D019	D029	D039	D040			
20021	W501122	S020	55	374	0.50	0.200	HYDRAULIC OIL	F001	D019	D029	D039	D040			
20021	W501123	S020	55	338	0.50	0.200	HYDRAULIC OIL	F001	D019	D029	D039	D040			
20028	W502096	R099	55	284	0.50	0.990	QUENCH OIL	D039	D040	F001					
20028	W502097	R099	55	300	0.50	0.990	QUENCH OIL	D039	D040	F001					
20028	W502098	R099	85 OP	275	0.50	0.990	QUENCH OIL	D039	D040	F001					
20028	W502099	R099	85 OP	260	0.50	0.990	QUENCH OIL	D039	D040	F001					
20028	W502100	R099	55	286	0.50	0.990	QUENCH OIL	D039	D040	F001					
20028	W502101	R099	55	270	0.50	0.990	QUENCH OIL	D039	D040	F001					
20028	W502102	R099	55	260	0.50	0.990	QUENCH OIL	D039	D040	F001					
20028	W502103	R099	55	268	0.50	0.990	QUENCH OIL	D039	D040	F001					
20028	W502104	R099	55	302	0.50	0.990	QUENCH OIL	D039	D040	F001					
20028	W502105	R099	85 OP	238	0.50	0.990	QUENCH OIL	D039	D040	F001					
20031	W500142	S020	55	303	0.50	0.200	CONTAMINATED OIL, INSOLUBLE	F002	D008	D018	D019	D028	D029	D039	D040
20031	W502823	R020	55	402	0.50	0.200	CONTAMINATED OIL, INSOLUBLE	F002	D008	D018	D019	D028	D029	D039	D040
20031	W502824	R020	55	409	0.50	0.200	CONTAMINATED OIL, INSOLUBLE	F002	D008	D018	D019	D028	D029	D039	D040
20031	W502825	R020	55	423	0.50	0.200	CONTAMINATED OIL, INSOLUBLE	F002	D008	D018	D019	D028	D029	D039	D040
20031	W502826	R020	55	410	0.50	0.200	CONTAMINATED OIL, INSOLUBLE	F002	D008	D018	D019	D028	D029	D039	D040
20031	W502827	R020	55	296	0.50	0.200	CONTAMINATED OIL, INSOLUBLE	F002	D008	D018	D019	D028	D029	D039	D040
20031	W502828	R020	55	51	0.50	0.200	CONTAMINATED OIL, INSOLUBLE	F002	D008	D018	D019	D028	D029	D039	D040
20031	W502829	R020	55	413	0.50	0.200	CONTAMINATED OIL, INSOLUBLE	F002	D008	D018	D019	D028	D029	D039	D040
20031	W504848	R020	55 OP	74	0.01	0.200	CONTAMINATED OIL, INSOLUBLE	F002	D008	D018	D019	D028	D029	D039	D040
20038	W501337	R020	55	307	0.50	0.200	OIL	F002	F005	D006	D008	D018	D019	D028	D029

000159

6609

MEF	INV. #		SIZE	NET WT.	% U	%U-235	MATERIAL DESCRIPTION	EPA1	EPA2	EPA3	EPA4	EPA5	EPA6	EPA7	EPA8
20038	W502216	R020	55	327	0.50	0.200	OIL	F002	F005	D006	D008	D018	D019	D028	D029
20045	W500013	S109	55 OP	111	0.01	1.090	TBP, KEROSENE	F002	D019	D022	D039				
20054	W501691	H093	110 OF	376	0.03	0.200	CONTAM. SOLV.–TRICHLOR, PERCH., GREASES	F001	F005	D019	D022	D028	D029	D039	
20055	W501336	R095	55	413	0.50	0.950	OIL	F002	D029	D039					
30034	W500201	R050	55	317	0.01	0.500	U–CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500202	R050	85 OP	391	0.01	0.500	U–CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500203	R050	55	306	0.01	0.500	U–CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500337	R095	55	385	0.01	0.950	U–CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500339	R095	55	409	0.01	0.950	U–CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500340	R095	55	363	0.01	0.950	U–CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500341	R095	55	83	0.01	0.950	U–CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500342	R095	55	393	0.01	0.950	U–CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500343	R095	55	376	0.01	0.950	U–CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500344	R095	55	330	0.01	0.950	U–CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500345	R095	55	373	0.01	0.950	U–CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500346	R095	55	328	0.01	0.950	U–CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500347	R095	55	323	0.01	0.950	U–CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500348	R095	55	343	0.01	0.950	U–CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500349	R095	55	424	0.01	0.950	U–CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500350	R095	85 OP	430	0.01	0.950	U–CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500351	R095	55	199	0.01	0.950	U–CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500393	R095	85 OP	578	0.01	0.950	U–CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500394	R095	55	304	0.01	0.950	U–CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500398	R095	85 OP	366	0.01	0.950	U–CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500399	R095	55	389	0.01	0.950	U–CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500400	R095	55	361	0.01	0.950	U–CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500401	R095	55	373	0.01	0.950	U–CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500552	R095	55	10	0.01	0.950	U–CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500553	R095	55	8	0.01	0.950	U–CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500554	R095	55	6	0.01	0.950	U–CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500555	R095	55	4	0.01	0.950	U–CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500556	R095	55	227	0.01	0.950	U–CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500557	R095	55	241	0.01	0.950	U–CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500558	R095	55	276	0.01	0.950	U–CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500562	R095	85 OP	291	0.01	0.950	U–CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500563	R095	85 OP	379	0.01	0.950	U–CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500564	R095	85 OP	397	0.01	0.950	U–CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500565	R095	55	218	0.01	0.950	U–CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500566	R095	85 OP	289	0.01	0.950	U–CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500567	R095	55	221	0.01	0.950	U–CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						

000160

MEF	INV. #		SIZE	NET WT.	% U	%U-235	MATERIAL DESCRIPTION	EPA1	EPA2	EPA3	EPA4	EPA5	EPA6	EPA7	EPA8
30034	W500568	R095	85 OP	347	0.01	0.950	U-CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500569	R095	55	301	0.01	0.950	U-CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500570	R095	55	313	0.01	0.950	U-CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500571	R095	55	285	0.01	0.950	U-CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500572	R095	55	353	0.01	0.950	U-CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500607	R095	30 OP	96	0.01	0.950	U-CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500616	R095	55	406	0.01	0.950	U-CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500619	R095	55	312	0.01	0.950	U-CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500621	R095	55	346	0.01	0.950	U-CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500646	R095	55	421	0.01	0.950	U-CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500647	R095	55	383	0.01	0.950	U-CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500648	R095	85 OP	362	0.01	0.950	U-CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500649	R095	55	366	0.01	0.950	U-CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500650	R095	55	268	0.01	0.950	U-CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500651	R095	55	335	0.01	0.950	U-CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500652	R095	55	268	0.01	0.950	U-CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500653	R095	55	482	0.01	0.950	U-CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500679	R095	55	348	0.01	0.950	U-CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500680	R095	55	375	0.01	0.950	U-CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500681	R095	55	361	0.01	0.950	U-CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500682	R095	55	378	0.01	0.950	U-CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500684	R095	55	301	0.01	0.950	U-CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500685	R095	55	267	0.01	0.950	U-CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500686	R095	55	365	0.01	0.950	U-CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500687	R095	55	318	0.01	0.950	U-CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W500854	R050	85 OP	399	0.01	0.500	U-CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W501159	R020	55	510	0.01	0.200	U-CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W501160	R020	55	410	0.01	0.200	U-CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W501161	R020	55	590	0.01	0.200	U-CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W501162	R020	55	450	0.01	0.200	U-CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W501163	R020	55	299	0.01	0.200	U-CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W501164	R020	85 OP	230	0.01	0.200	U-CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W501165	R020	55	270	0.01	0.200	U-CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W501166	R095	55	112	0.01	0.950	U-CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W501167	R095	85 OP	236	0.01	0.950	U-CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W501338	R020	55	358	0.01	0.200	U-CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W501629	R050	55	343	0.01	0.500	U-CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W501630	R050	55	471	0.01	0.500	U-CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W501631	R050	55 OP	300	0.01	0.500	U-CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W501772	R050	55	251	0.50	0.500	U-CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						

000161

6099

MEF	INV. #		SIZE	NET WT.	% U	%U-235	MATERIAL DESCRIPTION	EPA1	EPA2	EPA3	EPA4	EPA5	EPA6	EPA7	EPA8
30034	W501773	R050	55	370	0.50	0.500	U-CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W501774	R050	55	340	0.50	0.500	U-CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W502083	R050	55	419	0.50	0.500	U-CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W502084	R050	55	354	0.50	0.500	U-CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W503684	R050	55	55	0.01	0.500	U-CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W503685	R050	55	420	0.01	0.500	U-CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W503686	R050	55	389	0.01	0.500	U-CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W503687	R050	55	431	0.01	0.500	U-CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
30034	W503688	R050	55	383	0.01	0.500	U-CONTAM. OIL, NOT WATER SOLUBLE	F001	D018						
60042	W506296	R099													
60044	W502214	R020	85 OP	45	0.50	0.200	SOLVENT	F002							
60044	W502213	R020	55	500	0.50	0.200	SOLVENT	F002							
60049	W500437	R050	55	148	0.01	0.500	SOLVENT	F002							
60049	W500438	R050	55	135	0.01	0.500	SOLVENT	F002							
60049	W500439	R050	55	150	0.01	0.500	SOLVENT	F002							
60049	W500440	R050	85 OP	151	0.01	0.500	SOLVENT	F002							
60049	W500492	R050	55	93	0.01	0.500	SOLVENT	F002							
60049	W500493	R050	55	89	0.01	0.500	SOLVENT	F002							
60049	W500494	R050	55	112	0.01	0.500	SOLVENT	F002							
60049	W500495	R050	55 OP	50	0.01	0.500	SOLVENT	F002							
60049	W500513	R050	55 OP	5	0.01	0.500	SOLVENT	F002							
60049	W069781	W050	85	473	0.01	0.500	WASTE INVENTORY								
60049	W066894	W050	85	85	0.01	0.500	WASTE INVENTORY								
60049	W074820	W050	110	348	0.01	0.500	WASTE INVENTORY								
60051	W500025	R050	85 OP	517	0.01	0.500	DRY CLEANING SLUDGES/CAKE	F001							
60051	W500026	R050	55	44	0.01	0.500	DRY CLEANING SLUDGES/CAKE	F001							
60051	W500027	R050	85 OP	60	0.01	0.500	DRY CLEANING SLUDGES/CAKE	F001							
60051	W500028	R050	85 OP	526	0.01	0.500	DRY CLEANING SLUDGES/CAKE	F001							
60051	W500029	R050	55	283	0.01	0.500	DRY CLEANING SLUDGES/CAKE	F001							
60051	W500030	R050	85 OP	373	0.01	0.500	DRY CLEANING SLUDGES/CAKE	F001							
60051	W500031	R050	55	283	0.01	0.500	DRY CLEANING SLUDGES/CAKE	F001							
60051	W500032	R050	85 OP	507	0.01	0.500	DRY CLEANING SLUDGES/CAKE	F001							
60051	W500033	R050	85 OP	395	0.01	0.500	DRY CLEANING SLUDGES/CAKE	F001							
60051	W500034	R050	110 OF	389	0.01	0.500	DRY CLEANING SLUDGES/CAKE	F001							
60051	W500043	R050	85 OP	168	0.01	0.500	DRY CLEANING SLUDGES/CAKE	F001							
60051	W500061	R050	55	291	0.01	0.500	DRY CLEANING SLUDGES/CAKE	F001							
60051	W500062	R050	85 OP	195	0.01	0.500	DRY CLEANING SLUDGES/CAKE	F001							
60051	W500063	R050	55	389	0.01	0.500	DRY CLEANING SLUDGES/CAKE	F001							
60051	W500070	R050	55	87	0.01	0.500	DRY CLEANING SLUDGES/CAKE	F001							
60051	W501129	R050	55	36	0.01	0.500	DRY CLEANING SLUDGES/CAKE	F001							

 * Shading indicates Waste drums

MEF	INV. #		SIZE	NET WT.	% U	%U-235	MATERIAL DESCRIPTION	EPA1	EPA2	EPA3	EPA4	EPA5	EPA6	EPA7	EPA8
60069	W501047	R050	55	408	0.01	0.500	CONTAMINATED INSOLUBLE OIL	F001	D008						
60069	W501048	R050	55	247	0.01	0.500	CONTAMINATED INSOLUBLE OIL	F001	D008						
60069	W501749	H093	55 OP	258	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F001	D008						
60069	W501750	H093	55 OP	567	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F001	D008						
60070	W500094	H093	85 OP	372	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							
60070	W500095	H093	85 OP	378	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							
60070	W500096	H093	55	372	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							
60070	W500097	H093	55	393	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							
60070	W500098	H093	55 OP	211	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							
60070	W500099	H093	30	121	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							
60070	W500100	H093	30	237	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							
60070	W500101	H093	55 OP	198	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							
60070	W500102	H093	30	199	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							
60070	W500103	H093	55	377	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							
60070	W500104	H093	55	387	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F001							
60070	W500105	H093	55	392	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							
60070	W500106	H093	55	399	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							
60070	W500107	H093	85 OP	383	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							
60070	W500108	H093	55	362	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							
60070	W500109	H093	55	346	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							
60070	W500110	H093	55	352	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							
60070	W500147	H093	55	368	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							
60070	W500148	H093	55	368	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							
60070	W500149	H093	55	408	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							
60070	W500150	H093	85 OP	374	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							
60070	W500151	H093	55	211	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							
60070	W500152	H093	85 OP	128	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							
60070	W500153	H093	55 OP	80	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							
60070	W500154	H093	55 OP	1	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							
60070	W500155	H093	55	372	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							
60070	W500156	H093	85 OP	393	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							
60070	W500157	H093	85 OP	351	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							
60070	W500158	H093	55	307	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							
60070	W500159	H093	85 OP	368	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							
60070	W500160	H093	85 OP	363	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							
60070	W500161	H093	55	392	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							
60070	W500162	H093	85 OP	365	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							
60070	W500331	H093	55 OP	149	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							
60070	W500332	H093	55 OP	145	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							
60070	W500333	H093	55 OP	157	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							

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6009

MEF	INV. #		SIZE	NET WT.	% U	%U-235	MATERIAL DESCRIPTION	EPA1	EPA2	EPA3	EPA4	EPA5	EPA6	EPA7	EPA8
60070	W500334	H093	55 OP	152	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							
60070	W501655	H093	55 OP	173	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							
60070	W501656	H093	55 OP	80	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							
60070	W501657	H093	55 OP	131	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							
60070	W501658	D690	55 OP	160	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							
60070	W501662	H093	55 OP	164	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							
60070	W501702	H093	55	360	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							
60070	W501703	H093	55	392	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							
60070	W501704	H093	55	92	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							
60070	W501705	H093	55	391	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							
60070	W501706	H093	55 OP	138	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							
60070	W501707	H093	55 OP	228	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							
60070	W501708	H093	55 OP	212	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							
60070	W501709	H093	55 OP	207	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							
60070	W501714	D690	55	3890	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							
60070	W501715	H093	55	348	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							
60070	W501716	D690	55	260	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							
60070	W501717	D690	85 OP	373	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							
60070	W501733	H093	55 OP	203	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							
60070	W501734	H093	55 OP	215	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							
60070	W501735	H093	55 OP	193	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							
60070	W501736	H093	55 OP	185	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							
60070	W501737	H093	55 OP	213	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							
60070	W501738	H093	55 OP	200	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002							
60072	W502999	R020	85 OP	329	0.50	0.200	SOLVENT CONTAMINATED WASTE OIL	D008	F002						
60072	W503000	R020	85 OP	126	0.50	0.200	SOLVENT CONTAMINED WASTE OIL	D008	F002						
60072	W503001	R020	85 OP	415	0.50	0.200	SOLVENT CONTAMINATED WASTE OIL	D008	F002						
60072	W503002	R020	85 OP	413	0.50	0.200	SOLVENT CONTAMINATED WASTE OIL	D008	F002						
60073	W502741	R020	85 OP	214	0.50	0.200	USED OIL	F002	D008						
60074	W503856	R020	55	395	0.01	0.200	USED OIL	F002							
60074	W501330	D690	55	362	0.50	0.200	USED OIL	F002							
60074	W503857	R020	55	137	0.01	0.200	USED OIL	F002							
60074	W066918	H093	85	390	0.50	0.200	WASTE INVENTORY								
60074	W066849	H093	55	432	0.50	0.200	WASTE INVENTORY								
60074	W066852	H093	55	468	0.50	0.200	WASTE INVENTORY								
60074	W067437	H093	55	362	0.50	0.200	WASTE INVENTORY								
60074	W067431	H093	85	476	0.50	0.200	WASTE INVENTORY								
60074	W067434	H093	85	409	0.50	0.200	WASTE INVENTORY								
60074	W067433	H093	85	463	0.50	0.200	WASTE INVENTORY								
60074	W066851	H093	55	424	0.50	0.200	WASTE INVENTORY								

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 * Shading indicates Waste drums

MEF	INV. #		SIZE	NET WT.	% U	%U-235	MATERIAL DESCRIPTION	EPA1	EPA2	EPA3	EPA4	EPA5	EPA6	EPA7	EPA8
60074	W070824	H093	85	359	0.50	0.200	WASTE INVENTORY								
60074	W066850	H093	55	390	0.50	0.200	WASTE INVENTORY								
60075	W501331	D690	55	305	0.50	0.200	USED OIL	F002							
60075	W501332	D690	55	507	0.50	0.200	USED OIL	F002							
60078	W500015	R050	55 OP	40	0.01	0.500	USED OIL	F002	D010						
60078	W500017	R050	85 OP	75	0.01	0.500	USED OIL	F002	D010						
60078	W502975	R050	55	381	0.50	0.500	USED OIL	F002	D010						
60078	W502992	R099	55	112	0.50	0.990	USED OIL	F002	D010						
60078	W503366	R050	55	373	0.50	0.500	USED OIL	F002	D010						
60078	W503372	R050	55	415	0.50	0.500	USED OIL	F003	D010						
60078	W503569	R050	55	366	0.01	0.500	USED OIL	F002	D010						
60078	W503669	R050	85 OP	375	0.01	0.500	USED OIL	F002	D010						
60078	W503782	R050	55	388	0.01	0.500	USED OIL	D018	D008						
60078	W503855	R050	55	348	0.01	0.500	USED OIL	F002	D010						
60078	W503908	R050	55	342	0.01	0.500	USED OIL	F002	D010						
60078	W503922	R050	55	337	0.01	0.500	USED OIL	F002	D010						
60078	W504469	R050	55	396	0.01	0.500	USED OIL	F002	D010						
60078	W504603	R050	55	364	0.01	0.500	USED OIL	F002	D010						
60078	W504628	R050	55	244	0.01	0.500	USED OIL	F002	D010						
60078	W504668	R050	55	378	0.01	0.500	USED OIL	D010	F002	F005					
60078	W504800	R050	55	380	0.01	0.500	USED OIL	D010	F002	F005					
60078	W506157	R050	55	404	0.01	0.500	USED OIL	D010	F002	F005					
60078	W506239	R050	55	369	0.01	0.500	USED OIL	D010	F002	F005					
60078	W506268	R050	55	408	0.01	0.500	USED OIL	D001	D006	D008	F002	F005			
60079	W506392	R020	55	341	0.01	0.200	CONTAMINATED INSOLUBLE OIL	F002	D018						
60079	W506397	R050	55	357	0.01	0.500	CONTAMINATED INSOLUBLE OIL	D018							
60079	W506398	R050	55	185	0.01	0.500	CONTAMINATED INSOLUBLE OIL	D018							
60079	W506399	R050	55	309	0.01	0.500	CONTAMINATED INSOLUBLE OIL	D018							
60079	W506412	R050	55	391	0.01	0.500	CONTAMINATED INSOLUBLE OIL	D018							
60079	W506413	R050	55	135	0.01	0.500	CONTAMINATED INSOLUBLE OIL	D018							
60079	W506414	R050	55	219	0.01	0.500	CONTAMINATED INSOLUBLE OIL	D018							
60079	W506580	R020	85 OP	447	0.01	0.200	CONTAMINATED INSOLUBLE OIL	D018							
60079	W506581	R020	85 OP	401	0.01	0.200	CONTAMINATED INSOLUBLE OIL	D018							
60080	W500076	R050	55	365	0.01	0.500	USED OIL	D008	F002						
60080	W500078	R050	55	363	0.01	0.500	USED OIL	D008	F002						
60080	W500079	R050	30	144	0.01	0.500	USED OIL	D008	F002						
60080	W501334	R020					USED OIL	D008	F002						
60080	W502567	R050	55	396	0.01	0.500	USED OIL	D008	F002						
60080	W502568	R050	55	405	0.01	0.500	USED OIL	D008	F002						
60080	W502569	R050	55	393	0.01	0.500	USED OIL	D008	F002						

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MEF	INV. #	SIZE	NET WT.	% U	%U-235	MATERIAL DESCRIPTION	EPA1	EPA2	EPA3	EPA4	EPA5	EPA6	EPA7	EPA8
60080	W502570	R050 55	408	0.01	0.500	USED OIL	D008	F002						
60080	W502571	R050 85 OP	377	0.01	0.500	USED OIL	D008	F002						
60080	W502572	R050 55	431	0.01	0.500	USED OIL	D008	F002						
60080	W502573	R050 55	417	0.01	0.500	USED OIL	D008	F002						
60080	W502574	R050 85 OP	373	0.01	0.500	USED OIL	D008	F002						
60080	W502575	R050 55	376	0.01	0.500	USED OIL	D008	F002						
60080	W502576	R050 85 OP	430	0.01	0.500	USED OIL	D008	F002						
60080	W502577	R050 55	417	0.01	0.500	USED OIL	D008	F002						
60080	W502578	R050 55	390	0.01	0.500	USED OIL	D008	F002						
60080	W502579	R050 55	423	0.01	0.500	USED OIL	D008	F002						
60080	W502580	R050 85 OP	502	0.01	0.500	USED OIL	D008	F002						
60080	W502581	R050 85 OP	372	0.01	0.500	USED OIL	D008	F002						
60080	W502582	R050 55	337	0.01	0.500	USED OIL	D008	F002						
60080	W502583	R050 55	416	0.01	0.500	USED OIL	D008	F002						
60080	W502584	R050 55	392	0.01	0.500	USED OIL	D008	F002						
60080	W502792	R050 55	116	0.50	0.500	USED OIL	D008	F002						
60080	W502793	R050 55	103	0.50	0.500	USED OIL	D008	F002						
60080	W502794	R050 85 OP	461	0.50	0.500	USED OIL	D008	F002						
60080	W503011	R020 55	407	0.50	0.500	USED OIL	D008	F002						
60081	W500012	R020 85 OP	140	0.01	0.200	CONTAMINATED INSOLUBLE OIL	D008	F002						
60081	W502085	R050 55	41	0.50	0.500	CONTAMINATED INSOLUBLE OIL	D008	F002						
60081	W502086	R050 55	9	0.50	0.500	CONTAMINATED INSOLUBLE OIL	D008	F002						
60081	W507960	R050 55	394	0.01	0.500	USED OIL	D018	F002	D008					
60081	W507961	R050 55	392	0.01	0.500	USED OIL	D018	F002	D008					
60081	W507969	R050 55	288	0.01	0.500	USED OIL	D018	F002	D008					
60083	W503582	R020 55	440	0.01	0.200	CONTAMINATED SITE OILS	F002	D001	D008	D019				
60083	W506319	R020 55	334	0.01	0.200	CONTAMINATED SITE OILS	F002	D001	D008	D019				
60083	W506892	R020 55	386	0.50	0.200	CONTAMINATED SITE OILS	F002	D001	D008	D019				
60083	W513979	R020 55	326	0.01	0.200	CONTAMINATED SITE OILS	F002	D001	D008	D019				
60083	W067558	W020 85	327	0.01	0.200	WASTE INVENTORY								
60084	W500083	R050 85 OP	83	0.01	0.500	CONTAMINATED INSOLUBLE OIL	F002	D008						
60084	W500136	H082 85 OP	131	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002	D008						
60084	W500248	S095 55	267	0.50	0.950	CONTAMINATED INSOLUBLE OIL	F002	D008						
60084	W500249	S095 55	403	0.50	0.950	CONTAMINATED INSOLUBLE OIL	F002	D008						
60084	W500250	S095 55	311	0.50	0.950	CONTAMINATED INSOLUBLE OIL	F002	D008						
60084	W500327	H082 55	373	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002	D008						
60084	W500328	H082 55	366	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002	D008						
60084	W500329	H082 85 OP	298	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002	D008						
60084	W500330	H082 55	360	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002	D008						
60084	W500385	H082 55	263	3.00	0.200	OIL FIBERS; OILY SUMP CAKE	F002	D008						

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MEF	INV. #		SIZE	NET WT.	% U	%U-235	MATERIAL DESCRIPTION	EPA1	EPA2	EPA3	EPA4	EPA5	EPA6	EPA7	EPA8
60084	W500386	H082	85 OP	378	0.50	0.200	CONTAMINATED INSOLUBLE OIL	F002	D008						
60084	W500387	H082	85 OP	139	3.00	0.200	OILY FIBERS; OILY SUMP CAKE	F002	D008						
60084	W502520	R095	85 OP	504	0.01	0.950	CONTAMINATED INSOLUBLE OIL	F002	D008						
60084	W502521	R095	55	567	0.01	0.950	CONTAMINATED INSOLUBLE OIL	F002	D008						
60084	W502522	R095	55	547	0.01	0.950	CONTAMINATED INSOLUBLE OIL	F002	D008						
60084	W502523	R095	85 OP	592	0.01	0.950	CONTAMINATED INSOLUBLE OIL	F002	D008						
60084	W502524	R095	55	224	0.01	0.950	CONTAMINATED INSOLUBLE OIL	F002	D008						
60084	W502525	R095	85 OP	251	0.01	0.950	CONTAMINATED INSOLUBLE OIL	F002	D008						
60084	W502526	R095	85 OP	385	0.01	0.950	CONTAMINATED INSOLUBLE OIL	F002	D008						
60084	W502527	R095	85 OP	370	0.01	0.950	CONTAMINATED INSOLUBLE OIL	F002	D008						
60084	W502528	R095	55	347	0.01	0.950	CONTAMINATED INSOLUBLE OIL	F002	D008						
60084	W502529	R095	55	337	0.01	0.950	CONTAMINATED INSOLUBLE OIL	F002	D008						
60084	W502530	R095	85 OP	357	0.01	0.950	CONTAMINATED INSOLUBLE OIL	F002	D008						
60084	W502531	R095	85 OP	471	0.01	0.950	CONTAMINATED INSOLUBLE OIL	F002	D008						
60084	W502532	R095	55	440	0.01	0.950	CONTAMINATED INSOLUBLE OIL	F002	D008						
60084	W502533	R095	55	380	0.01	0.950	CONTAMINATED INSOLUBLE OIL	F002	D008						
60084	W502534	R095	55	392	0.01	0.950	CONTAMINATED INSOLUBLE OIL	F002	D008						
60084	W502535	R095	55	381	0.01	0.950	CONTAMINATED INSOLUBLE OIL	F002	D008						
60084	W502536	R095	85 OP	107	0.01	0.950	CONTAMINATED INSOLUBLE OIL	F002	D008						
60084	W502537	R095	85 OP	438	0.01	0.950	CONTAMINATED INSOLUBLE OIL	F002	D008						
60084	W502538	R095	55	342	0.01	0.950	CONTAMINATED INSOLUBLE OIL	F002	D008						
60084	W502539	R095	55	171	0.01	0.950	CONTAMINATED INSOLUBLE OIL	F002	D008						
60084	W502546	R095	55	262	0.01	0.950	CONTAMINATED INSOLUBLE OIL	F002	D008						
60084	W502547	R095	55	408	0.01	0.950	CONTAMINATED INSOLUBLE OIL	F002	D008						
60084	W502548	R095	85 OP	395	0.01	0.950	CONTAMINATED INSOLUBLE OIL	F002	D008						
60085	W502587	R095	85 OP	263	0.01	0.950	CONTAMINATED OILS	D001	D005	D006	D007	D008	D010	F002	
60085	W502588	R095	55	364	0.01	0.950	CONTAMINATED OILS	D001	D005	D006	D007	D008	D010	F002	
60085	W502589	R095	55	230	0.01	0.950	CONTAMINATED OILS	D001	D005	D006	D007	D008	D010	F002	
60085	W502590	R095	55	439	0.01	0.950	CONTAMINATED OILS	D001	D005	D006	D007	D008	D010	F002	
60085	W502591	R095	55	436	0.01	0.950	CONTAMINATED OILS	D001	D005	D006	D007	D008	D010	F002	
60085	W502592	R095	85 OP	212	0.01	0.950	CONTAMINATED OILS	D001	D005	D006	D007	D008	D010	F002	
60085	W502593	R095	55	274	0.01	0.950	CONTAMINATED OILS	D001	D005	D006	D007	D008	D010	F002	
60085	W502594	R095	55	281	0.01	0.950	CONTAMINATED OILS	D001	D005	D006	D007	D008	D010	F002	
60085	W502595	R095	55	300	0.01	0.950	CONTAMINATED OILS	D001	D005	D006	D007	D008	D010	F002	
60085	W502596	R095	55	295	0.01	0.950	CONTAMINATED OILS	D001	D005	D006	D007	D008	D010	F002	
60085	W502597	R095	55	377	0.01	0.950	CONTAMINATED OILS	D001	D005	D006	D007	D008	D010	F002	
60085	W502598	R095	85 OP	336	0.01	0.950	CONTAMINATED OILS	D001	D005	D006	D007	D008	D010	F002	
60085	W502599	R095	55	322	0.01	0.950	CONTAMINATED OILS	D001	D005	D006	D007	D008	D010	F002	
60085	W502600	R095	55	306	0.01	0.950	CONTAMINATED OILS	D001	D005	D006	D007	D008	D010	F002	
60085	W502601	R095	85 OP	426	0.01	0.950	CONTAMINATED OILS	D001	D005	D006	D007	D008	D010	F002	

* Shading indicates Waste drums

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6609

MEF	INV #		SIZE	NET WT.	% U	%U-235	MATERIAL DESCRIPTION	EPA1	EPA2	EPA3	EPA4	EPA5	EPA6	EPA7	EPA8
60085	W502602	R095	55	461	0.01	0.950	CONTAMINATED OILS	D001	D005	D006	D007	D008	D010	F002	
60085	W502603	R095	55	384	0.01	0.950	CONTAMINATED OILS	D001	D005	D006	D007	D008	D010	F002	
60085	W502604	R095	55	53	0.01	0.950	CONTAMINATED OILS	D001	D005	D006	D007	D008	D010	F002	
60085	W502605	R095	55	359	0.01	0.950	CONTAMINATED OILS	D001	D005	D006	D007	D008	D010	F002	
60085	W502606	R095	85 OP	222	0.01	0.950	CONTAMINATED OILS	D001	D005	D006	D007	D008	D010	F002	
60085	W502607	R095	85 OP	389	0.01	0.950	CONTAMINATED OILS	D001	D005	D006	D007	D008	D010	F002	
60085	W502608	R095	55	331	0.01	0.950	CONTAMINATED OILS	D001	D005	D006	D007	D008	D010	F002	
60085	W502609	R095	55	423	0.01	0.950	CONTAMINATED OILS	D001	D005	D006	D007	D008	D010	F002	
60085	W502610	R095	85 OP	483	0.01	0.950	CONTAMINATED OILS	D001	D005	D006	D007	D008	D010	F002	
60085	W502611	R095	85 OP	434	0.01	0.950	CONTAMINATED OILS	D001	D005	D006	D007	D008	D010	F002	
60085	W502612	R095	55	407	0.01	0.950	CONTAMINATED OILS	D001	D005	D006	D007	D008	D010	F002	
60085	W502632	R095	55	406	0.01	0.950	CONTAMINATED OILS	D001	D005	D006	D007	D008	D010	F002	
60085	W502633	R095	55	453	0.01	0.950	CONTAMINATED OILS	D001	D005	D006	D007	D008	D010	F002	
60085	W502634	R095	55	432	0.01	0.950	CONTAMINATED OILS	D001	D005	D006	D007	D008	D010	F002	
60085	W502635	R095	55	423	0.01	0.950	CONTAMINATED OILS	D001	D005	D006	D007	D008	D010	F002	
60085	W502636	R095	85 OP	296	0.01	0.950	CONTAMINATED OILS	D001	D005	D006	D007	D008	D010	F002	
60085	W502637	R095	85 OP	382	0.01	0.950	CONTAMINATED OILS	D001	D005	D006	D007	D008	D010	F002	
60085	W502638	R095	85 OP	260	0.01	0.950	CONTAMINATED OILS	D001	D005	D006	D007	D008	D010	F002	
60085	W502639	R095	85 OP	261	0.01	0.950	CONTAMINATED OILS	D001	D005	D006	D007	D008	D010	F002	
60085	W502640	R095	85 OP	12	0.01	0.950	CONTAMINATED OILS	D001	D005	D006	D007	D008	D010	F002	
60085	W502641	R095	85 OP	49	0.01	0.950	CONTAMINATED OILS	D001	D005	D006	D007	D008	D010	F002	
60085	W502642	R095	85 OP	10	0.01	0.950	CONTAMINATED OILS	D001	D005	D006	D007	D008	D010	F002	
60085	W502643	R095	55	141	0.01	0.950	CONTAMINATED OILS	D001	D005	D006	D007	D008	D010	F002	
60085	W502644	R095	55	327	0.01	0.950	CONTAMINATED OILS	D001	D005	D006	D007	D008	D010	F002	
60085	W502645	R095	85 OP	358	0.01	0.950	CONTAMINATED OILS	D001	D005	D006	D007	D008	D010	F002	
60085	W502646	R095	55	175	0.01	0.950	CONTAMINATED OILS	D001	D005	D006	D007	D008	D010	F002	
60085	W502647	R095	55	307	0.01	0.950	CONTAMINATED OILS	D001	D005	D006	D007	D008	D010	F002	
60085	W502648	R095	55	201	0.01	0.950	CONTAMINATED OILS	D001	D005	D006	D007	D008	D010	F002	
60085	W502649	R095	55	417	0.01	0.950	CONTAMINATED OILS	D001	D005	D006	D007	D008	D010	F002	
60085	W502650	R095	55	335	0.01	0.950	CONTAMINATED OILS	D001	D005	D006	D007	D008	D010	F002	
60085	W502651	R095	55	359	0.01	0.950	CONTAMINATED OILS	D001	D005	D006	D007	D008	D010	F002	
60085	W502653	R095	55	521	0.01	0.950	CONTAMINATED OILS	D001	D005	D006	D007	D008	D010	F002	
60085	W502656	R095	55 OP	235	0.01	0.950	CONTAMINATED OILS	D001	D005	D006	D007	D008	D010	F002	
60085	W502657	R095	85 OP	333	0.01	0.950	CONTAMINATED OILS	D001	D005	D006	D007	D008	D010	F002	
60085	W502691	R095	85 OP	401	0.01	0.950	CONTAMINATED OILS	D001	D005	D006	D007	D008	D010	F002	
60085	W502707	R020	55	416	0.50	0.200	CONTAMINATED OILS	D001	D005	D006	D007	D008	D010	F002	
60085	W502708	R020	55	415	0.01	0.200	CONTAMINATED OILS	D001	D005	D006	D007	D008	D010	F002	
60085	W502709	R020	55	416	0.50	0.200	CONTAMINATED OILS	D001	D005	D006	D007	D008	D010	F002	
60086	W503736	W095	55	326	0.01	0.950	WASTE INVENTORY								
60087	W500003	X095	85 OP	363			CONTAMINATED INSOLUBLE OIL	D001	D008	D039	F002				

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MEF	INV. #		SIZE	NET WT.	% U	%U-235	MATERIAL DESCRIPTION	EPA1	EPA2	EPA3	EPA4	EPA5	EPA6	EPA7	EPA8
60087	W500185	X095	55	420			CONTAMINATED INSOLUBLE OIL	D001	D008	D039	F002				
60087	W500186	X095	55	402			CONTAMINATED INSOLUBLE OIL	D001	D008	D039	F002				
60087	W500187	X095	55	407			CONTAMINATED INSOLUBLE OIL	D001	D008	D039	F002				
60087	W500188	X095	55	390			CONTAMINATED INSOLUBLE OIL	D001	D008	D039	F002				
60087	W500205	X095	55	383			CONTAMINATED INSOLUBLE OIL	D001	D008	D039	F002				
60087	W500206	X095	55	384			CONTAMINATED INSOLUBLE OIL	D001	D008	D039	F002				
60087	W500207	X095	55	397			CONTAMINATED INSOLUBLE OIL	D001	D008	D039	F002				
60087	W500208	X095	55	408			CONTAMINATED INSOLUBLE OIL	D001	D008	D039	F002				
60087	W500245	X095	55	257			CONTAMINATED INSOLUBLE OIL	D001	D008	D039	F002				
60087	W500246	X095	55	408			CONTAMINATED INSOLUBLE OIL	D001	D008	D039	F002				
60087	W500247	X095	55	152			CONTAMINATED INSOLUBLE OIL	D001	D008	D039	F002				
60110	W500375	R050	55 OP	338	0.01	0.500	OILY SLUDGES	F002							
60110	W067696	H093	85	433	1.60	0.200	WASTE INVENTORY								
60111	W502652	R050	85 OP	80	0.01	0.500	OILY SLUDGES	F002							
60115	W500545	R095	55	386	0.01	0.950	OILY SLUDGES	F002	D010						
60115	W500547	R095	85 OP	200	0.01	0.950	OILY SLUDGES	F002	D010						
60115	W500559	R095	55	229	0.01	0.950	OILY SLUDGES	F002	D010						
60115	W500560	R095	55	249	0.01	0.950	OILY SLUDGES	F002	D010						
60115	W500612	R095	55	276	0.01	0.950	OILY SLUDGES	F002	D010						
60115	W500613	R095	85 OP	209	0.01	0.950	OILY SLUDGES	F002	D010						
60115	W500614	R095	55	406	0.01	0.950	OILY SLUDGES	F002	D010						
60115	W500615	R095	55	486	0.01	0.950	OILY SLUDGES	F002	D010						
60115	W500617	R095	55	246	0.01	0.950	OILY SLUDGES	F002	D010						
60115	W500618	R095	85 OP	359	0.01	0.950	OILY SLUDGES	F002	D010						
60117	W502712	R020	55	531	0.01	0.200	OILY SLUDGES	F001	F002	F003	D008				
60328	W500638	D690	85 OP	317	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
60328	W500639	D690	55	351	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
60328	W500640	D690	85 OP	232	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
60328	W500641	D690	55	400	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
60328	W503591	R020	55	395	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
60328	W503592	R020	55	398	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
60328	W503593	R020	55	392	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
60328	W503594	R020	55	397	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
60328	W503595	R020	55	372	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
60328	W503596	R020	55	379	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
60328	W503597	R020	55	382	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
60328	W503598	R020	55	390	1.60	0.200	OILY SLUDGES	F001	D039	D029	D040				
60328	W503689	R020	85 OP	366	0.01	0.200	OILY SLUDGES	F001	D039	D029	D040				
60328	W503690	R020	85 OP	371	0.01	0.200	OILY SLUDGES	F001	D039	D029	D040				
60328	W503691	R020	55	363	0.01	0.200	OILY SLUDGES	F001	D039	D029	D040				

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MEF	INV. #		SIZE	NET WT.	% U	%U-235	MATERIAL DESCRIPTION	EPA1	EPA2	EPA3	EPA4	EPA5	EPA6	EPA7	EPA8
60328	W503692	R020	55	398	0.01	0.200	OILY SLUDGES	F001	D039	D029	D040				
60328	W503693	R020	55	360	0.01	0.200	OILY SLUDGES	F001	D039	D029	D040				
60328	W503694	R020	55	353	0.01	0.200	OILY SLUDGES	F001	D039	D029	D040				
60328	W503695	R020	85 OP	356	0.01	0.200	OILY SLUDGES	F001	D039	D029	D040				
60328	W503696	R020	55	375	0.01	0.200	OILY SLUDGES	F001	D039	D029	D040				
60328	W503918	R020	55	278	0.01	0.200	OILY SLUDGES	F001	D039	D029	D040				
60328	W503919	R020	55	346	0.01	0.200	OILY SLUDGES	F001	D039	D029	D040				
60328	W503920	R020	55	361	0.01	0.200	OILY SLUDGES	F001	D039	D029	D040				
60328	W503921	R020	55	326	0.01	0.200	OILY SLUDGES	F001	D039	D029	D040				
60342	W504619	R050	55	409	0.01	0.500	U-CONTAM. OIL, NOT WATER SOLUBLE	F001							
60342	W504626	R050	55	385	0.01	0.500	U-CONTAM. OIL, NOT WATER SOLUBLE	F001							
60342	W504624	R050	55	416	0.01	0.500	U-CONTAM. OIL, NOT WATER SOLUBLE	F001							
60342	W504627	R050	55	457	0.01	0.500	U-CONTAM. OIL, NOT WATER SOLUBLE	F001							
60342	W504618	R050	55	422	0.01	0.500	U-CONTAM. OIL, NOT WATER SOLUBLE	F001							
60342	W504620	R050	85 OP	462	0.01	0.500	U-CONTAM. OIL, NOT WATER SOLUBLE	F001							
60342	W504625	R050	55	401	0.01	0.500	U-CONTAM. OIL, NOT WATER SOLUBLE	F001							
60342	W504617	R050	55	445	0.01	0.500	U-CONTAM. OIL, NOT WATER SOLUBLE	F001							
60342	W504621	R050	55	445	0.01	0.500	U-CONTAM. OIL, NOT WATER SOLUBLE	F001							
60342	W504623	R050	85 OP	474	0.01	0.500	U-CONTAM. OIL, NOT WATER SOLUBLE	F001							
60342	W504622	R050	55	366	0.01	0.500	U-CONTAM. OIL, NOT WATER SOLUBLE	F001							

TOTAL # OF DRUMS – 580

MEF	INV. #		SIZE	NET WT.	%U	%U-235	MATERIAL DESCRIPTION	EPA1	EPA2	EPA3	EPA4	EPA5	EPA6	EPA7	EPA8
00414	W506801	R050	55	348	0.01	0.500	USED OIL	D001	D006	D008	D009	D039	F001	F002	
00414	W507972	R050	55	89	0.01	0.500	USED OIL	D001	D006	D008	D009	D039	F001	F002	
00418	W503626	R090	5 GAL	39	0.01	0.900	WASTE ACETONE	D001	F003						
00418	W503628	R090	5 GAL	31	0.01	0.900	WASTE ACETONE	D001	F003						
00418	W503779	R098	5 GAL	36	0.01	0.980	WASTE ACETONE	D001	F003						
00418	W503820	R098	5 GAL	30	0.01	0.980	WASTE ACETONE	D001	F003						
00418	W503889	R098	5 GAL	38	0.01	0.980	WASTE ACETONE	D001	F003						
00418	W503907	R098	5 GAL	40	0.01	0.980	WASTE ACETONE	D001	F003						
00418	W503916	R098	5 GAL	33	0.01	0.980	WASTE ACETONE	D001	F003						
00418	W504809	R090	5 GAL	21	0.01	0.900	WASTE ACETONE	D001	F003						
00418	W506314	R098	5 GAL	42	0.01	0.980	WASTE ACETONE	D001	F003						
00418	W506315	R098	5 GAL	40	0.01	0.980	WASTE ACETONE	D001	F003						
00418	W506578	R098	5 GAL	42	0.01	0.980	WASTE ACETONE	D001	F003						
00418	W506579	R098	5 GAL	36	0.01	0.980	WASTE ACETONE	D001	F003						
00418	W506814	R098	5 GAL	37	0.01	0.980	WASTE ACETONE	D001	F003						
00418	W506815	R098	5 GAL	34	0.01	0.980	WASTE ACETONE	D001	F003						
00418	W506865	R098	5 GAL	40	0.01	0.980	WASTE ACETONE	D001	F003						
00418	W506866	R098	5 GAL	40	0.01	0.980	WASTE ACETONE	D001	F003						
00418	W507618	R098	5 GAL	42	0.01	0.980	WASTE ACETONE	D001	F003						
00418	W507619	R098	5 GAL	36	0.01	0.980	WASTE ACETONE	D001	F003						
00418	W507620	R098	5 GAL	34	0.01	0.980	WASTE ACETONE	D001	F003						
00418	W507621	R098	5 GAL	37	0.01	0.980	WASTE ACETONE	D001	F003						
00418	W507622	R098	5 GAL	31	0.01	0.980	WASTE ACETONE	D001	F003						
00418	W507739	R098	5 GAL	32	0.01	0.980	WASTE ACETONE	D001	F003						
00418	W507740	R098	5 GAL	32	0.01	0.980	WASTE ACETONE	D001	F003						
00418	W507741	R098	5 GAL	31	0.01	0.980	WASTE ACETONE	D001	F003						
00418	W507748	R098	5 GAL	37	0.01	0.980	WASTE ACETONE	D001	F003						
00418	W507749	R098	5 GAL	26	0.01	0.980	WASTE ACETONE	D001	F003						
00418	W507750	R098	5 GAL	34	0.01	0.980	WASTE ACETONE	D001	F003						
00418	W507751	R098	5 GAL	31	0.01	0.980	WASTE ACETONE	D001	F003						
00418	W507752	R098	5 GAL	36	0.01	0.980	WASTE ACETONE	D001	F003						
00418	W507820	R098	5 GAL	29	0.01	0.980	WASTE ACETONE	D001	F003						
00418	W507821	R098	5 GAL	29	0.01	0.980	WASTE ACETONE	D001	F003						
00418	W507822	R098	5 GAL	33	0.01	0.980	WASTE ACETONE	D001	F003						
00418	W510099	R098	5 GAL	38	0.01	0.980	WASTE ACETONE	D001	F003						
00418	W510100	R098	5 GAL	34	0.01	0.980	WASTE ACETONE	D001	F003						
00418	W510101	R098	5 GAL	33	0.01	0.980	WASTE ACETONE	D001	F003						
00418	W510815	R098	5 GAL	38	0.01	0.980	WASTE ACETONE	D001	F003						
00418	W513836	R098	5 GAL	32	0.01	0.980	WASTE ACETONE	D001	F003						
00418	W513880	R098	5 GAL	31	0.01	0.980	WASTE ACETONE	D001	F003						
00418	W513881	R098	5 GAL	30	0.01	0.980	WASTE ACETONE	D001	F003						
00418	W513963	R098	5 GAL	28	0.01	0.980	WASTE ACETONE	D001	F003						

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INCINERAT' PROJECT – BATCH 4

MEF	INV. #		SIZE	NET WT.	%U	%U-236	MATERIAL DESCRIPTION	EPA1	EPA2	EPA3	EPA4	EPA5	EPA6	EPA7	EPA8
00418	W513964	R098	5 GAL	27	0.01	0.980	WASTE ACETONE	D001	F003						
00418	W513965	R098	5 GAL	31	0.01	0.980	WASTE ACETONE	D001	F003						
00418	W514001	R098	5 GAL	37	0.01	0.980	WASTE ACETONE	D001	F003						
00418	W514067	R098	5 GAL	34	0.01	0.980	WASTE ACETONE	D001	F003						
00418	W514160	R098	5 GAL	36	0.01	0.980	WASTE ACETONE	D001	F003						
00418	W514267	R098	5 GAL	39	0.01	0.980	WASTE ACETONE	D001	F003						
00418	W514300	R098	5 GAL	30	0.01	0.980	WASTE ACETONE	D001	F003						
00418	W514340	R098	5 GAL	30	0.01	0.980	WASTE ACETONE	D001	F003						
00418	W514341	R098	5 GAL	38	0.01	0.980	WASTE ACETONE	D001	F003						
00418	W514374	R098	5 GAL	29	0.01	0.980	WASTE ACETONE	D001	F003						
00418	W514375	R098	5 GAL	33	0.01	0.980	WASTE ACETONE	D001	F003						
00418	W514376	R098	5 GAL	28	0.01	0.980	WASTE ACETONE	D001	F003						
00418	W514800	R098	5 GAL	36	0.01	0.980	WASTE ACETONE	D001	F003						
00418	W514801	R098	5 GAL	38	0.01	0.980	WASTE ACETONE	D001	F003						
00418	W514802	R098	5 GAL	38	0.01	0.980	WASTE ACETONE	D001	F003						
00418	W514882	R098	5 GAL	35	0.01	0.980	WASTE ACETONE	D001	F003						
00418	W514883	R098	5 GAL	32	0.01	0.980	WASTE ACETONE	D001	F003						
00418	W514884	R098	5 GAL	29	0.01	0.980	WASTE ACETONE	D001	F003						
00418	W514885	R098	5 GAL	36	0.01	0.980	WASTE ACETONE	D001	F003						
00418	W515103	R098	55 POLY	138	0.01	0.980	WASTE ACETONE	D001	F003						
00419	W501334	R020	55	330	0.01	0.200	XYLENE	D001	F003						
00419	W501634	R050	30 OP	10	0.01	0.500	XYLENE	D001	F003						
00419	W506401	R098	5 GAL	32	0.01	0.980	XYLENE	D001	F003						
00419	W506816	R098	5 GAL	32	0.01	0.980	XYLENE	D001	F003						
00419	W507742	R098	5 GAL	30	0.01	0.980	XYLENE	D001	F003						
00419	W510816	R098	5 GAL	30	0.01	0.980	XYLENE	D001	F003						
00419	W513882	R098	5 GAL	32	0.01	0.980	XYLENE	D001	F003						
00419	W513978	R098	5 GAL	30	0.01	0.980	XYLENE	D001	F003						
00419	W514159	R098	5 GAL	37	0.01	0.980	XYLENE	D001	F003						
00419	W514813	R070	5 GAL	34	0.01	0.700	XYLENE	D001	F003						
00421	W503619	R020	5 GAL	37	0.01	0.200	METHANOL	F003	D001						
00421	W503620	R020	5 GAL	34	0.01	0.200	METHANOL	F003	D001						
00421	W503621	R020	30 OP	41	0.01	0.200	METHANOL	F003	D001						
00421	W503622	R020	5 GAL	32	0.01	0.200	METHANOL	F003	D001						
00421	W503623	R020	5 GAL	38	0.01	0.200	METHANOL	F003	D001						
00421	W503624	R020	5 GAL	20	0.01	0.200	METHANOL	F003	D001						
00421	W503625	R020	5 GAL	18	0.01	0.200	METHANOL	F003	D001						
00421	W504630	R070	5 GAL	28	0.01	0.700	METHANOL	F003	D001						
00421	W504632	R070	5 GAL	31	0.01	0.700	METHANOL	F003	D001						
00421	W504633	R070	5 GAL	29	0.01	0.700	METHANOL	F003	D001						
00479	W507812	R050	55	535	0.01	0.500	PAINT THINNER	D001	D006	D007	D008	D009	D011	D035	F003
00479	W506817	R050	55	425	0.01	0.500	PAINT THINNER	D001	D006	D007	D008	D009	D011	D035	F003

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MEF	INV.		SIZE	NET WT.	%U	%U-235	MATERIAL DESCRIPTION	EPA1	EPA2	EPA3	EPA4	EPA5	EPA6	EPA7	EPA8
00514	W506427	R050	85 OP	77	0.01	0.500	PAINT	F002	F003	F005	D001	D007	D008		
00514	W506428	R050	85 OP	139	0.01	0.500	PAINT	F002	F003	F005	D001	D007	D008		
00514	W506429	R050	85 OP	481	0.01	0.500	PAINT	F002	F003	F005	D001	D007	D008		
00514	W506430	R050	85 OP	448	0.01	0.500	PAINT	F002	F003	F005	D001	D007	D008		
00514	W506431	R050	85 OP	32	0.01	0.500	PAINT	F002	F003	F005	D001	D007	D008		
00514	W506432	R050	85 OP	83	0.01	0.500	PAINT	F002	F003	F005	D001	D007	D008		
00777	W506807	R020	55	338	0.01	0.200	AGITENE	D001	D008	F001	F002				
00777	W507963	R020	55	252	0.01	0.200	AGITENE	D001	D008	F001	F002				
01229	W511744	R069	55	454	0.01	0.690	CONTAMINATED SUMP WATER	D001	D008	D018	D019	D039	D040		
01229	W511745	R069	55	458	0.01	0.690	CONTAMINATED SUMP WATER	D001	D008	D018	D019	D039	D040		
01229	W511746	R069	55	454	0.01	0.690	CONTAMINATED SUMP WATER	D001	D008	D018	D019	D039	D040		
01229	W511747	R069	55	377	0.01	0.690	CONTAMINATED SUMP WATER	D001	D008	D018	D019	D039	D040		
01229	W513854	R069	55 PLAST	441	0.01	0.690	CONTAMINATED SUMP WATER	D001	D008	D018	D019	D039	D040		
01229	W513855	R069	55 PLAST	376	0.01	0.690	CONTAMINATED SUMP WATER	D001	D008	D018	D019	D039	D040		
01229	W513856	R069	55 PLAST	462	0.01	0.690	CONTAMINATED SUMP WATER	D001	D008	D018	D019	D039	D040		
01229	W513857	R069	55 PLAST	455	0.01	0.690	CONTAMINATED SUMP WATER	D001	D008	D018	D019	D039	D040		
01229	W513877	R069	55	431	0.01	0.690	CONTAMINATED SUMP WATER	D001	D008	D018	D019	D039	D040		
01229	W513878	R069	55	441	0.01	0.690	CONTAMINATED SUMP WATER	D001	D008	D018	D019	D039	D040		
01229	W513879	R069	55	386	0.01	0.690	CONTAMINATED SUMP WATER	D001	D008	D018	D019	D039	D040		
01229	W513922	R069	55	413	0.01	0.690	CONTAMINATED SUMP WATER	D001	D008	D018	D019	D039	D040		
01229	W513923	R069	55	282	0.01	0.690	CONTAMINATED SUMP WATER	D001	D008	D018	D019	D039	D040		
01229	W513924	R069	55	410	0.01	0.690	CONTAMINATED SUMP WATER	D001	D008	D018	D019	D039	D040		
01229	W513925	R069	55	446	0.01	0.690	CONTAMINATED SUMP WATER	D001	D008	D018	D019	D039	D040		
01229	W513940	R069	55	179	0.01	0.690	CONTAMINATED SUMP WATER	D001	D008	D018	D019	D039	D040		
01229	W513941	R069	55	370	0.01	0.690	CONTAMINATED SUMP WATER	D001	D008	D018	D019	D039	D040		
01229	W514060	R069	55	453	0.01	0.690	CONTAMINATED SUMP WATER	D001	D008	D018	D019	D039	D040		
01229	W514061	R069	55	415	0.01	0.690	CONTAMINATED SUMP WATER	D001	D008	D018	D019	D039	D040		
01229	W514062	R069	55	446	0.01	0.690	COMTAMINATED SUMP WATER	D001	D008	D018	D019	D039	D040		
01229	W514063	R069	55	166	0.01	0.690	CONTAMINATED SUMP WATER	D001	D008	D018	D019	D039	D040		
01229	W514263	R069	55 PLAST	449	0.01	0.690	CONTAMINATED SUMP WATER	D001	D008	D018	D019	D039	D040		
01229	W514264	R069	55 PLAST	446	0.01	0.690	CONTAMINATED SUMP WATER	D001	D008	D018	D019	D039	D040		
01229	W514265	R069	55 PLAST	458	0.01	0.690	CONTAMINATED SUMP WATER	D001	D008	D018	D019	D039	D040		
01229	W514266	R069	55 PLAST	234	0.01	0.690	CONTAMINATED SUMP WATER	D001	D008	D018	D019	D039	D040		
01229	W514311	R069	55 PLAST	434	0.01	0.690	CONTAMINATED SUMP WATER	D001	D008	D018	D019	D039	D040		
01229	W514312	R069	55 PLAST	434	0.01	0.690	CONTAMINATED SUMP WATER	D001	D008	D018	D019	D039	D040		
01229	W514313	R069	55 PLAST	455	0.01	0.690	CONTAMINATED SUMP WATER	D001	D008	D018	D019	D039	D040		
01229	W514314	R069	55 PLAST	359	0.01	0.690	CONTAMINATED SUMP WATER	D001	D008	D018	D019	D039	D040		
01229	W514325	R069	55 PLAST	437	0.01	0.690	CONTAMINATED SUMP WATER	D001	D008	D018	D019	D039	D040		
01229	W514326	R069	55 PLAST	462	0.01	0.690	CONTAMINATED SUMP WATER	D001	D008	D018	D019	D039	D040		
01229	W514327	R069	55 PLAST	457	0.01	0.690	CONTAMINATED SUMP WATER	D001	D008	D018	D019	D039	D040		
01229	W514328	R069	55 PLAST	318	0.01	0.690	CONTAMINATED SUMP WATER	D001	D008	D018	D019	D039	D040		
01411	W506316	R050	55	479			CONT. SOLVENT-F002,F003,F005	D001	D005	D007	D008	D009	D010	D011	D019

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INCINERAT' PROJECT – BATCH 4

MEF	INV. #		SIZE	NET WT.	%U	%U-235	MATERIAL DESCRIPTION	EPA1	EPA2	EPA3	EPA4	EPA5	EPA6	EPA7	EPA8
01709	W514036	R050	55	353	0.01	0.500	LAB GEN. WASTE, FLAM. ORG. EXTRACTS	D001	D002						
01709	W514848	R067	55	296	0.01	0.670	AQUEOUS FLAMMABLE WASTE	D001	D002						
01998	W513795	R050	5 GAL	36	0.01	0.500	MEOH/CYCLOHEXANE	D001	F003						
01998	W513796	R050	5 GAL	38	0.01	0.500	MEOH/CYCLOHEXANE	D001	F003						
01998	W513997	R050	5 GAL	39	0.01	0.500	MEOH/CYCLOHEXANE	D001	F003						
01998	W514158	R020	5 GAL	39	0.01	0.200	MEOH/CYCLOHEXANE	D001	F003						
01998	W514337	R050	5 GAL	39	0.01	0.500	MEOH/CYCLOHEXANE	D001	F003						
01998	W514403	R050	5 GAL	37	0.01	0.500	MEOH/CYCLOHEXANE	D001	F003						
10003	W500138	S095	85 OP	645	10.00	0.950	OILY OXID. SLUDGES W/ HIGH FREE METAL	D001	F001	D039					
10003	W500189	S095	85 OP	116	10.00	0.950	OILY OXID. SLUDGES W/ HIGH FREE METAL	D001	F001	D039					
10003	W500204	S095	85 OP	436	10.00	0.950	OILY OXID. SLUDGES W/ HIGH FREE METAL	D001	F001	D039					
10003	W500251	S095	85 OP	586	10.00	0.950	OILY OXID. SLUDGES W/ HIGH FREE METAL	D001	F001	D039					
10003	W500252	S095	85 OP	328	10.00	0.950	OILY OXID. SLUDGES W/ HIGH FREE METAL	D001	F001	D039					
10003	W500253	S095	85 OP	429	10.00	0.950	OILY OXID. SLUDGES W/ HIGH FREE METAL	D001	F001	D039					
10003	W500254	S095	85 OP	321	10.00	0.950	OILY OXID. SLUDGES W/ HIGH FREE METAL	D001	F001	D039					
10003	W500255	S095	55	421	10.00	0.950	OILY OXID. SLUDGES W/ HIGH FREE METAL	D001	F001	D039					
10003	W500258	S095	85 OP	396	10.00	0.950	OILY OXID. SLUDGES W/ HIGH FREE METAL	D001	F001	D039					
10003	W500259	S095	85 OP	367	10.00	0.950	OILY OXID. SLUDGES W/ HIGH FREE METAL	D001	F001	D039					
10003	W500260	S095	85 OP	378	10.00	0.950	OILY OXID. SLUDGES W/ HIGH FREE METAL	D001	F001	D039					
10003	W500261	S095	85 OP	244	10.00	0.950	OILY OXID. SLUDGES W/ HIGH FREE METAL	D001	F001	D039					
10003	W500262	S095	85 OP	574	10.00	0.950	OILY OXID. SLUDGES W/ HIGH FREE METAL	D001	F001	D039					
10003	W500263	S095	85 OP	464	10.00	0.950	OILY OXID. SLUDGES W/ HIGH FREE METAL	D001	F001	D039					
10009	W503746	X948	55	248	0.01	0.200	SOLVENT SLUDGE	D001	D008	D035	F005				
10009	W500338	X948	85 OP	44	0.01	0.200	SOLVENT SLUDGE	D001	D008	D035	F005				
10026	W500295	S000	85 OP	255	0.01	1.000	1,1,1-TRICHLOROETHANE STILL BOTTOMS	D001	F001						
10026	W500296	S000	85 OP	186	0.01	1.000	1,1,1-TRICHLOROETHANE STILL BOTTOMS	D001	F001						
10026	W500297	S000	85 OP	418	0.01	1.000	1,1,1-TRICHLOROETHANE STILL BOTTOMS	D001	F001						
10026	W500298	S000	85 OP	338	0.01	1.000	1,1,1-TRICHLOROETHANE STILL BOTTOMS	D001	F001						
10026	W500299	S000	85 OP	345	0.01	1.000	1,1,1-TRICHLOROETHANE STILL BOTTOMS	D001	F001						
10026	W500300	S000	85 OP	353	0.01	1.000	1,1,1-TRICHLOROETHANE STILL BOTTOMS	D001	F001						
10026	W500352	S000	85 OP	380	0.01	1.000	1,1,1-TRICHLOROETHANE STILL BOTTOMS	D001	F001						
10026	W500353	S000	85 OP	364	0.01	1.000	1,1,1-TRICHLOROETHANE STILL BOTTOMS	D001	F001						
10026	W500354	S000	85 OP	400	0.01	1.000	1,1,1-TRICHLOROETHANE STILL BOTTOMS	D001	F001						
10026	W500355	S000	85 OP	454	0.01	1.000	1,1,1-TRICHLOROETHANE STILL BOTTOMS	D001	F001						
10026	W500356	S000	55	330	0.01	1.000	1,1,1-TRICHLOROETHANE STILL BOTTOMS	D001	F001						
10026	W500359	S000	85 OP	386	0.01	1.000	1,1,1-TRICHLOROETHANE STILL BOTTOMS	D001	F001						
10026	W500360	S000	85 OP	510	0.01	1.000	1,1,1-TRICHLOROETHANE STILL BOTTOMS	D001	F001						
10026	W500491	S000	85 OP	474	0.01	1.000	1,1,1-TRICHLOROETHANE STILL BOTTOMS	D001	F001						
10026	W500690	S000	85 OP	524	0.01	1.000	1,1,1-TRICHLOROETHANE STILL BOTTOMS	D001	F001						
10026	W500691	S000	85 OP	412	0.01	1.000	1,1,1-TRICHLOROETHANE STILL BOTTOMS	D001	F001						
10026	W500692	S000	85 OP	462	0.01	1.000	1,1,1-TRICHLOROETHANE STILL BOTTOMS	D001	F001						
10026	W500693	S000	85 OP	530	0.01	1.000	1,1,1-TRICHLOROETHANE STILL BOTTOMS	D001	F001						

MEF	INV #		SIZE	NET WT.	%U	%U-235	MATERIAL DESCRIPTION	EPA1	EPA2	EPA3	EPA4	EPA5	EPA6	EPA7	EPA8
10026	W500694	S000	85 OP	328	0.01	1.000	1,1,1-TRICHLOROETHANE STILL BOTTOMS	D001	F001						
10026	W500698	S000	85 OP	478	0.01	1.000	1,1,1-TRICHLOROETHANE STILL BOTTOMS	D001	F001						
10026	W500699	S000	85 OP	476	0.01	1.000	1,1,1-TRICHLOROETHANE STILL BOTTOMS	D001	F001						
10026	W500700	S000	85 OP	425	0.01	1.000	1,1,1-TRICHLOROETHANE STILL BOTTOMS	D001	F001						
10026	W500709	S000	85 OP	478	0.01	1.000	1,1,1-TRICHLOROETHANE STILL BOTTOMS	D001	F001						
10026	W500710	S000	85 OP	415	0.01	1.000	1,1,1-TRICHLOROETHANE STILL BOTTOMS	D001	F001						
10026	W500712	S000	85 OP	33	0.01	1.000	1,1,1-TRICHLOROETHANE STILL BOTTOMS	D001	F001						
10026	W500718	S000	85 OP	465	0.01	1.000	1,1,1-TRICHLOROETHANE STILL BOTTOMS	D001	F001						
10026	W500719	S000	85 OP	565	0.01	1.000	1,1,1-TRICHLOROETHANE STILL BOTTOMS	D001	F001						
10026	W500722	S000	85 OP	453	0.01	1.000	1,1,1-TRICHLOROETHANE STILL BOTTOMS	D001	F001						
10026	W500728	S000	85 OP	454	0.01	1.000	1,1,1-TRICHLOROETHANE STILL BOTTOMS	D001	F001						
10026	W500729	S000	85 OP	443	0.01	1.000	1,1,1-TRICHLOROETHANE STILL BOTTOMS	D001	F001						
10026	W500730	S000	85 OP	461	0.01	1.000	1,1,1-TRICHLOROETHANE STILL BOTTOMS	D001	F001						
10026	W503677	R095	55	360	0.01	0.950	1,1,1-TRICHLOROETHANE STILL BOTTOMS	D001	F001						
10026	W503678	R095	85 OP	356	0.01	0.950	1,1,1-TRICHLOROETHANE STILL BOTTOMS	D001	F001						
10026	W503679	R095	55	367	0.01	0.950	1,1,1-TRICHLOROETHANE STILL BOTTOMS	D001	F001						
10026	W503680	R095	55	350	0.01	0.950	1,1,1-TRICHLOROETHANE STILL BOTTOMS	D001	F001						
10026	W503681	R095	55	318	0.01	0.950	1,1,1-TRICHLOROETHANE STILL BOTTOMS	D001	F001						
10026	W503682	R095	55	177	0.01	0.950	1,1,1-TRICHLOROETHANE STILL BOTTOMS	D001	F001						
10030	W500662	R050	85 OP	104	0.01	0.500	CONTAMINATED SOLVENTS (METHANOL)	F003	D001						
10030	W500661	R050	85 OP	55	0.01	0.500	CONTAMINATED SOLVENTS (METHANOL)	F003	D001						
10034	W500118	R050	55	6	0.01	0.500	BENZENE (LABPACKED)	D001	D018	U019					
30005	W500001	X095	55	450	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500002	X095	55	504	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500004	X095	85 OP	407	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500005	X095	55	405	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500006	X095	85 OP	392	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500007	X095	55	446	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500008	X095	55	576	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500049	X095	85 OP	314	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500050	X095	55	437	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500051	X095	55	378	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500052	X095	55	403	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500053	X095	85 OP	398	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500054	X095	55	464	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500056	X095	55	492	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500177	X095	85 OP	406	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500178	X095	55	487	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500179	X095	55	517	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500180	X095	55	355	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500181	X095	55	545	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500182	X095	85 OP	331	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	

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INCINERAT' ' PROJECT – BATCH 4

MEF	IN		SIZE	NET WT.	%U	%U-235	MATERIAL DESCRIPTION	EPA1	EPA2	EPA3	EPA4	EPA5	EPA6	EPA7	EPA8
30005	W500183	X095	55	581	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500184	X095	85 OP	534	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500209	X095	85 OP	324	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500210	X095	85 OP	466	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500211	X095	85 OP	336	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500212	X095	55	315	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500213	X095	55	616	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500214	X095	85 OP	485	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500215	X095	85 OP	467	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500216	X095	85 OP	546	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500217	X095	55	306	1.60	0.950	OILY SLUDGE	F001	F005	D019	D039	D040			
30005	W500218	X095	55	289	1.60	0.950	OILY SLUDGE	F001	F005	D019	D039	D040			
30005	W500219	X095	85 OP	375	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500220	X095	85 OP	510	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500221	X095	85 OP	468	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500222	X095	85 OP	589	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500223	X095	55	461	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500224	X095	85 OP	453	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500225	X095	55	445	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500226	X095	85 OP	388	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500227	X095	85 OP	411	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500228	X095	85 OP	400	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500229	X095	55	227	1.60	0.950	OILY SLUDGE	F001	F005	D019	D039	D040			
30005	W500230	X095	85 OP	453	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500231	X095	85 OP	296	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500232	X095	85 OP	329	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500237	X095	55	456	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500238	X095	55	482	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500239	X095	85 OP	463	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500240	X095	85 OP	423	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500241	X095	55	477	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500242	X095	55	477	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500243	X095	55	422	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500244	X095	55	444	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500264	X095	85 OP	514	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500265	X095	55	345	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500266	X095	55	415	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500267	X095	85 OP	398	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500268	X095	85 OP	366	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500269	X095	55	556	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500270	X095	55	572	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500271	X095	55	492	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	

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MEF	INV. #		SIZE	NET WT.	%U	%U-235	MATERIAL DESCRIPTION	EPA1	EPA2	EPA3	EPA4	EPA5	EPA6	EPA7	EPA8
30005	W500272	X095	55	462	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500273	X095	55	399	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500274	X095	55	428	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500275	X095	55	444	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500276	X095	85 OP	344	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500277	X095	55	143	0.01	0.950	CONTAINERIZING SLUDGE FRM MEF 30005	F001	F005	D019	D039	D040			
30005	W500278	X095	85 OP	324	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500279	X095	55	370	1.60	0.950	OILY SLUDGE	F001	F005	D019	D039	D040			
30005	W500280	X095	85 OP	522	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500281	X095	55	540	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500282	X095	85 OP	326	1.60	0.950	OILY SLUDGE	F001	F005	D019	D039	D040			
30005	W500283	X095	85 OP	513	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500284	X095	85 OP	548	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500285	X095	55	482	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500286	X095	85 OP	494	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30005	W500287	X095	85 OP	415	1.60	0.950	OILY SLUDGE	D001	F001	F005	F003	D019	D039	D040	
30033	W500134	R050	55	417	0.01	0.500	U-CONTAM. SOLVENT, PAINT THINNER	D001	D039	F003	F005				
30033	W500135	R050	55	415	0.01	0.500	U-CONTAM. SOLVENT, PAINT THINNER	D001	D039	F003	F005				
30033	W501038	R050	85 OP	230	0.01	0.500	U-CONTAM. SOLVENT, PAINT THINNER	D001	D039	F003	F005				
30033	W501039	R050	85 OP	216	0.01	0.500	U-CONTAM. SOLVENT, PAINT THINNER	D001	D039	F003	F005				
30033	W501040	R050	85 OP	212	0.01	0.500	U-CONTAM. SOLVENT, PAINT THINNER	D001	D039	F003	F005				
30033	W501333	R050	55	371	0.01	0.500	U-CONTAM. SOLVENT, PAINT THINNER	D001	D039	F003	F005				
30033	W501341	R050	55	451	0.01	0.500	U-CONTAM. SOLVENT, PAINT THINNER	D001	D039	F003	F005				
30033	W501765	R020	85 OP	462	0.20	0.200	U-CONTAM. SOLVENT, PAINT THINNER	D001	D039	F003	F005				
30033	W501768	R020	55	467	0.01	0.200	U-CONTAM. SOLVENT, PAINT THINNER	D001	D039	F003	F005				
30033	W502419	R020	85 OP	465	0.01	0.200	U-CONTAM. SOLVENT, PAINT THINNER	D001	D039	F003	F005				
30033	W502563	R020	85 OP	505	0.01	0.200	U-CONTAM. SOLVENT, PAINT THINNER	D001	D039	F003	F005				
30033	W502564	R020	85 OP	445	0.01	0.200	U-CONTAM. SOLVENT, PAINT THINNER	D001	D039	F003	F005				
30033	W502566	R020	85 OP	53	0.01	0.200	U-CONTAM. SOLVENT, PAINT THINNER	D001	D039	F003	F005				
30033	W502701	R020	85 OP	157	0.10	0.200	U-CONTAM. SOLVENT, PAINT THINNER	D001	D039	F003	F005				
30033	W503890	R050	55	313	0.01	0.500	U-CONTAM. SOLVENT, PAINT THINNER	D001	D039	F003	F005				
30033	W503891	R050	55	321	0.01	0.500	U-CONTAM. SOLVENT, PAINT THINNER	D001	D039	F003	F005				
30033	W506288	R050	55	103	0.01	0.500	U-CONTAM. SOLVENT, PAINT THINNER	D001	D039	F003	F005				
50022	W513863	R125	55 OP	24	0.01	1.250	CONTAMINATED WATER	D001	F003						
50072	W511772	R070	85 OP	423	0.01	0.700	CONTAMINATED WATER	D001	D008	D019	D039	D040	F002	F003	F005
50072	W511774	R070	85 OP	701	0.01	0.700	CONTAMINATED WATER	D001	D008	D019	D039	D040	F002	F003	F005
50072	W511773	R070	85 OP	354	0.01	0.700	CONTAMINATED WATER	D001	D008	D019	D039	D040	F002	F003	F005
50096	W511755	R050	85 OP	337	0.01	0.500	CONTAMINATED SOLVENTS OR ORGANIC	D001	D007						
60027	W500140	A948	55	272	0.01	1.000	CONTAMINATED OIL-SOLUBLE	F001	F002	F003	D001				
60027	W066856	A948	55	301	0.20	0.947	WASTE INVENTORY								
60027	W048311	D690	55	65	0.20	0.200	WASTE INVENTORY								
60027	W048309	D690	55	276	0.20	0.200	WASTE INVENTORY								

0001277

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INCINERAT PROJECT – BATCH 4

MEF	INV. #		SIZE	NET WT.	%U	%U-236	MATERIAL DESCRIPTION	EPA1	EPA2	EPA3	EPA4	EPA5	EPA6	EPA7	EPA8
60027	W047498	H093	55	325	0.01	0.200	WASTE INVENTORY								
60039	W502685	R099	85 OP	459	0.01	0.990	SOLVENT	F001	D001						
60039	W502686	R099	85 OP	472	0.01	0.990	SOLVENT	F001	D001						
60039	W067642	W050	110	110	0.01	0.500	WASTE INVENTORY								
60039	W073363	W050	55	329	0.01	0.500	WASTE INVENTORY								
60041	W502565	R020	85 OP	120	0.01	0.200	SOLVENT	F001	D001						
60041	W502703	R099	85 OP	148	0.01	0.990	SOLVENT	F001	D001						
60045	W502659	R050	85 OP	94	0.10	0.500	CONTAMINATED SOLVENT	F001	D001						
60045	W502660	R050	85 OP	170	0.02	0.500	CONTAMINATED SOLVENT	F001	D001						
60052	W503014	R050	85 OP	336	0.02	0.500	SOLVENT	F001	D001						
60052	W073362	W050	55	374	0.01	0.500	WASTE INVENTORY								
60053	W074532	W020	85	45	0.01	0.200	WASTE INVENTORY								
60053	W073364	W020	55	110	0.01	0.200	WASTE INVENTORY								
60053	W074531	W020	85	123	0.01	0.200	WASTE INVENTORY								
60053	W074533	W020	85	256	0.01	0.200	WASTE INVENTORY								
60053	W073422	W020	55	51	0.01	0.200	WASTE INVENTORY								
60053	W500606	R095	30 OP	28	0.01	0.950	SOLVENT	D001	F001						
60053	W500605	R095	30 OP	15	0.01	0.950	SOLVENT	D001	F001						
60056	W500074	R050	85 OP	440	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						
60056	W500411	R050	85 OP	241	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						
60056	W500413	R050	85 OP	461	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						
60056	W500464	R050	110 OP	404	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						
60056	W500465	R050	55	147	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						
60056	W500466	R050	85 OP	2290	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						
60056	W500834	R050	85 OP	693	0.01	0.500	CONTAMINATED SOLVENT	F002							
60056	W500835	R050	85 OP	651	0.01	0.500	CONTAMINATED SOLVENT	F002							
60056	W500838	R050	85 OP	553	0.01	0.500	CONTAMINATED SOLVENT	F001							
60056	W500841	R050	85 OP	628	0.01	0.500	CONTAMINATED SOLVENT	F001	F003						
60056	W500842	R050	85 OP	591	0.01	0.500	CONTAMINATED SOLVENT	F002							
60056	W500843	R050	85 OP	543	0.01	0.500	CONTAMINATED SOLVENT	F002							
60056	W500845	R050	85 OP	600	0.01	0.500	CONTAMINATED SOLVENT	F002							
60056	W500846	R050	85 OP	548	0.01	0.500	CONTAMINATED SOLVENT	F001							
60056	W500847	R050	85 OP	493	0.01	0.500	CONTAMINATED SOLVENT	F001							
60056	W500848	R050	85 OP	549	0.01	0.500	CONTAMINATED SOLVENT	F002							
60056	W500850	R050	85 OP	524	0.01	0.500	CONTAMINATED SOLVENT	F002							
60056	W500851	R050	85 OP	523	0.01	0.500	CONTAMINATED SOLVENT	F002							
60056	W500853	R050	85 OP	661	0.01	0.500	CONTAMINATED SOLVENT	F002							
60056	W500886	R050	85 OP	634	0.01	0.500	CONTAMINATED SOLVENT	F002							
60056	W073277	W050	85	614	0.01	0.500	WASTE INVENTORY								
60056	W067681	W050	85	396	0.01	0.500	WASTE INVENTORY								
60056	W067632	W050	85	447	0.01	0.500	WASTE INVENTORY								
60056	W067633	W050	85	489	0.01	0.500	WASTE INVENTORY								

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MEF	INV. #	SIZE	NET WT.	%U	%U-236	MATERIAL DESCRIPTION	EPA1	EPA2	EPA3	EPA4	EPA5	EPA6	EPA7	EPA8
60056	W067639	W050 85	576	0.01	0.500	WASTE INVENTORY								
60056	W073281	W050 85	636	0.01	0.500	WASTE INVENTORY								
60056	W067682	W050 85	440	0.01	0.500	WASTE INVENTORY								
60056	W073278	W050 85	387	0.01	0.500	WASTE INVENTORY								
60056	W067638	W050 85	288	0.01	0.500	WASTE INVENTORY								
60056	W067640	W050 85	613	0.01	0.500	WASTE INVENTORY								
60056	W069780	W050 85	31	0.01	0.500	WASTE INVENTORY								
60056	W067641	W050 85	597	0.01	0.500	WASTE INVENTORY								
60056	W070786	W050 85	538	0.01	0.500	WASTE INVENTORY								
60056	W067635	W050 85	6	0.01	0.500	WASTE INVENTORY								
60056	W070787	W050 85	751	0.01	0.500	WASTE INVENTORY								
60056	W067683	W050 85	638	0.01	0.500	WASTE INVENTORY								
60056	W067636	W050 85	469	0.01	0.500	WASTE INVENTORY								
60056	W067643	W050 85	680	0.01	0.500	WASTE INVENTORY								
60056	W067637	W050 85	634	0.01	0.500	WASTE INVENTORY								
60056	W067634	W050 85	554	0.01	0.500	WASTE INVENTORY								
60056	W070788	W050 85	510	0.01	0.500	WASTE INVENTORY								
60056	W073276	W050 85	278	0.01	0.500	WASTE INVENTORY								
60056	W073280	W050 85	640	0.01	0.500	WASTE INVENTORY								
60056	W073279	W050 85	269	0.01	0.500	WASTE INVENTORY								
60057	W500011	R050 85 OP	235	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						
60057	W500292	R050 85 OP	40	0.01	0.500	CONTAMINATED SOLVENT	D001							
60057	W500293	R050 55	30	0.01	0.500	CONTAMINATED SOLVENT	D001							
60057	W500756	R050 55	430	0.01	0.500	CONTAMINATED SOLVENT	F002							
60057	W500758	R050 55	406	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						
60057	W500759	R050 85 OP	447	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						
60057	W500760	R050 55	391	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						
60057	W500761	R050 85 OP	295	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						
60057	W500778	R050 85 OP	449	0.01	0.500	CONTAMINATED SOLVENT	F002							
60057	W500784	R050 85 OP	415	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						
60057	W500785	R050 55	388	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						
60057	W500801	R050 85 OP	457	0.01	0.500	CONTAMINATED SOLVENT	D001	F002						
60057	W500802	R050 85 OP	455	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						
60057	W500803	R050 85 OP	396	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						
60057	W500804	R050 85 OP	337	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						
60057	W500823	R050 55	394	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						
60057	W500824	R050 85 OP	396	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						
60057	W500825	R050 85 OP	380	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						
60057	W500826	R050 85 OP	358	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						
60057	W500827	R050 85 OP	363	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						
60057	W500828	R050 85 OP	483	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						
60057	W500829	R050 85 OP	352	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						

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INCINERAT PROJECT – BATCH 4

MEF	INV. #		SIZE	NET WT.	%U	%U-236	MATERIAL DESCRIPTION	EPA1	EPA2	EPA3	EPA4	EPA5	EPA6	EPA7	EPA8
60057	W500830	R050	85 OP	489	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						
60057	W500831	R050	85 OP	332	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						
60057	W500832	R050	85 OP	316	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						
60057	W500833	R050	85 OP	366	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						
60057	W500863	R050	30	212	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						
60057	W500864	R050	55	170	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						
60057	W500865	R050	55	155	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						
60057	W500866	R050	55	240	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						
60057	W500867	R050	85 OP	475	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						
60057	W500868	R050	85 OP	496	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						
60057	W500869	R050	85 OP	418	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						
60057	W500870	R050	85 OP	373	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						
60057	W500871	R050	85 OP	413	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						
60057	W500872	R050	85 OP	463	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						
60057	W500873	R050	85 OP	270	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						
60057	W500874	R050	85 OP	345	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						
60057	W500898	R050	85 OP	415	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						
60057	W500899	R050	85 OP	382	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						
60057	W500900	R050	85 OP	474	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						
60057	W500901	R050	85 OP	300	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						
60057	W501027	R050	55	32	0.01	0.500	CONTAMINATED SOLVENT	D001	F002						
60057	W501028	R050	55	147	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						
60057	W501029	R050	55	144	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						
60057	W501030	R050	85 OP	116	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						
60057	W501126	R050	85 OP	392	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						
60057	W501127	R050	55	278	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						
60057	W501128	R050	55	398	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						
60057	W502998	R050	55	445	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						
60057	W503380	R050	85 OP	466	0.20	0.500	CONTAMINATED SOLVENT	F002	D001						
60057	W503555	R050	55	549	0.20	0.500	CONTAMINATED SOLVENT	F002	D001						
60057	W503697	R050	55	507	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						
60057	W503884	R050	55	504	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						
60057	W503929	R050	55	512	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						
60057	W504636	R050	55	499	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						
60057	W504960	R050	55	487	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						
60057	W506394	R050	55	443	0.01	0.500	CONTAMINATED SOLVENT	D001	F002	F003	F005				
60057	W506513	R050	55	447	0.01	0.500	CONTAMINATED SOLVENT	D001	F002	F003	F005				
60057	W506641	R050	55	415	0.01	0.500	CONTAMINATED SOLVENT	D001	F002	F003	F005				
60057	W506813	R050	55	442	0.01	0.500	CONTAMINATED SOLVENT	D001	F002	F003	F005				
60057	W506878	R050	55	475	0.01	0.500	CONTAMINATED SOLVENT	D001	F002	F003	F005				
60057	W507489	R050	55	453	0.01	0.500	CONTAMINATED SOLVENT	D001	F002	F003	F005				
60057	W507632	R050	55	410	0.01	0.500	CONTAMINATED SOLVENT	D001	F002	F003	F005				

001150

MEF	INV. #		SIZE	NET WT.	%U	%U-236	MATERIAL DESCRIPTION	EPA1	EPA2	EPA3	EPA4	EPA5	EPA6	EPA7	EPA8
60057	W507780	R050	55	434	0.01	0.500	CONTAMINATED SOLVENT	D001	F002	F003	F005				
60057	W507953	R050	55	292	0.01	0.500	CONTAMINATED SOLVENT	D001	F002	F003	F005				
60058	W500057	R071	55	372	0.01	0.711	CONTAMINATED SOLVENT	F002	D001						
60058	W500058	R071	55	451	0.01	0.711	CONTAMINATED SOLVENT	F002	D001						
60058	W500059	R071	55	414	0.01	0.711	CONTAMINATED SOLVENT	F002	D001						
60058	W500060	R071	55	325	0.01	0.711	CONTAMINATED SOLVENT	F002	D001						
60058	W500326	R050	55	384	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						
60058	W500384	R050	55	487	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						
60058	W500462	R050	55	33	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						
60058	W500463	R050	55	53	0.01	0.500	CONTAMINATED SOLVENT	F002	D001						
60058	W500654	R095	55	358	0.01	0.950	CONTAMINATED SOLVENT	F002	D001						
60058	W500655	R095	55	383	0.01	0.950	CONTAMINATED SOLVENT	F002	D001						
60058	W500656	R095	55	365	0.01	0.950	CONTAMINATED SOLVENT	F002	D001						
60058	W500657	R095	55	285	0.01	0.950	CONTAMINATED SOLVENT	F002	D001						
60058	W070748	W050	85	466	0.01	0.500	WASTE INVENTORY								
60058	W070745	W050	55	368	0.01	0.500	WASTE INVENTORY								
60058	W066853	W050	55	315	0.01	0.500	WASTE INVENTORY								
60059	W503698	R020	85 OP	419	0.01	0.200	CONTAMINATED SOLVENT	D001	D008	F002					
60059	W506318	R020	55	413	0.01	0.200	CONTAMINATED SOLVENT	D001	D008	F002					
60059	W506809	R020	55	227	0.01	0.200	CONTAMINATED SOLVENT	D001	D008	F002					
60119	W501143	S095	55	310	0.01	0.950	OILY SLUDGE FOR OXIDATION	D001	F001	F002					
60119	W501144	S095	55	370	0.01	0.950	OILY SLUDGE FOR OXIDATION	D001	F001	F002					
60119	W501145	S095	55	370	0.01	0.950	OILY SLUDGE FOR OXIDATION	D001	F001	F002					
60119	W501146	S095	55	410	0.01	0.950	OILY SLUDGE FOR OXIDATION	D001	F001	F002					
60119	W501147	S095	55	390	0.01	0.950	OILY SLUDGE FOR OXIDATION	D001	F001	F002					
60119	W501148	S095	55	370	0.01	0.950	OILY SLUDGE FOR OXIDATION	D001	F001	F002					
60119	W501149	S095	55	350	0.01	0.950	OILY SLUDGE FOR OXIDATION	D001	F001	F002					
60119	W501150	S095	55	350	0.01	0.950	OILY SLUDGE FOR OXIDATION	D001	F001	F002					
60119	W501151	S095	85 OP	138	0.01	0.950	OILY SLUDGE FOR OXIDATION	D001	F001	F002					
60119	W501152	S095	85 OP	590	0.01	0.950	OILY SLUDGE FOR OXIDATION	D001	F001	F002					
60119	W501153	S095	55	210	0.01	0.950	OILY SLUDGE FOR OXIDATION	D001	F001	F002					
60119	W501154	S095	55	530	0.01	0.950	OILY SLUDGE FOR OXIDATION	D001	F001	F002					
60119	W501155	S095	55	608	0.01	0.950	OILY SLUDGE FOR OXIDATION	D001	F001	F002					
60119	W501157	S095	55	393	0.01	0.950	OILY SLUDGE FOR OXIDATION	D001	F001	F002					
60119	W501672	R095	55	450	0.01	0.950	OILY SLUDGE FOR OXIDATION	D001	F001	F002					
60124	W500812	R050	85 OP	29	0.01	0.500	PERCHLOR	F001	D001						
60124	W070798	W050	85	87	0.01	0.500	WASTE INVENTORY								

TOTAL # OF DRUMS – 457

6609

000131

MEF	INV. #		SIZE	NET WT.	% U	%U-235	MATERIAL DESCRIPTION	EPA1	EPA2	EPA3	EPA4	EPA5	EPA6	EPA7	EPA8
00393	W507952	R020	55 GAL	29	0.01	0.200	LUBRICATING OIL	D008							
00393	W506824	R020	55 GAL	320	0.01	0.200	LUBRICATING OIL	D008							
00393	W506825	R020	55 GAL	377	0.01	0.200	LUBRICATING OIL	D008							
00425	W503904	R070	5 GAL	29	0.01	0.700	NITRIC ACID/CYCLOHEXANE	D001	D002						
00425	W504295	R070	5 GAL	30	0.01	0.700	NITRIC ACID/CYCLOHEXANE	D001	D002						
00425	W504805	R070	5 GAL	28	0.01	0.700	NITRIC ACID/CYCLOHEXANE	D001	D002						
00425	W506201	R070	5 GAL	26	0.01	0.700	NITRIC ACID/CYCLOHEXANE	D001	D002						
00425	W506309	R070	5 GAL	30	0.01	0.700	NITRIC ACID/CYCLOHEXANE	D001	D002						
00425	W506570	R070	5 GAL	30	0.01	0.700	NITRIC ACID/CYCLOHEXANE	D001	D002						
00425	W506647	R070	5 GAL	28	0.01	0.700	NITRIC ACID/CYCLOHEXANE	D001	D002						
00425	W506657	R070	5 GAL	29	0.01	0.700	NITRIC ACID/CYCLOHEXANE	D001	D002						
00425	W506826	R070	5 GAL	28	0.01	0.700	NITRIC ACID/CYCLOHEXANE	D001	D002						
00425	W506868	R070	5 GAL	31	0.01	0.700	NITRIC ACID/CYCLOHEXANE	D001	D002						
00425	W507605	R070	5 GAL	27	0.01	0.700	NITRIC ACID/CYCLOHEXANE	D001	D002						
00425	W507629	R070	5 GAL	33	0.01	0.700	NITRIC ACID/CYCLOHEXANE	D001	D002						
00425	W507654	R070	5 GAL	28	0.01	0.700	NITRIC ACID/CYCLOHEXANE	D001	D002						
00425	W507747	R070	5 GAL	29	0.01	0.700	NITRIC ACID/CYCLOHEXANE	D001	D002						
00425	W507782	R070	5 GAL	29	0.01	0.700	NITRIC ACID/CYCLOHEXANE	D001	D002						
00425	W507824	R070	5 GAL	30	0.01	0.700	NITRIC ACID/CYCLOHEXANE	D001	D002						
00425	W508117	R070	5 GAL	31	0.01	0.700	NITRIC ACID/CYCLOHEXANE	D001	D002						
00425	W509631	R070	5 GAL	27	0.01	0.700	NITRIC ACID/CYCLOHEXANE	D001	D002						
00425	W510105	R070	5 GAL	30	0.01	0.700	NITRIC ACID/CYCLOHEXANE	D001	D002						
00425	W511796	R070	5 GAL	29	0.01	0.700	NITRIC ACID/CYCLOHEXANE	D001	D002						
00425	W513861	R070	5 GAL	29	0.01	0.700	NITRIC ACID/CYCLOHEXANE	D001	D002						
00425	W513920	R070	5 GAL	29	0.01	0.700	NITRIC ACID/CYCLOHEXANE	D001	D002						
00425	W513952	R070	5 GAL	30	0.01	0.700	NITRIC ACID/CYCLOHEXANE	D001	D002						
00425	W513973	R070	5 GAL	31	0.01	0.700	NITRIC ACID/CYCLOHEXANE	D001	D002						
00425	W514102	R070	5 GAL	26	0.01	0.700	NITRIC ACID/CYCLOHEXANE	D001	D002						
00425	W514199	R070	5 GAL	32	0.01	0.700	NITRIC ACID/CYCLOHEXANE	D001	D002						
00425	W514299	R070	5 GAL	27	0.01	0.700	NITRIC ACID/CYCLOHEXANE	D001	D002						
00425	W514301	R070	5 GAL	25	0.01	0.700	NITRIC ACID/CYCLOHEXANE	D001	D002						
00425	W514334	R070	5 GAL	26	0.01	0.700	NITRIC ACID/CYCLOHEXANE	D001	D002						
00425	W514335	R070	5 GAL	29	0.01	0.700	NITRIC ACID/CYCLOHEXANE	D001	D002						
00425	W514364	R070	5 GAL	23	0.01	0.700	NITRIC ACID/CYCLOHEXANE	D001	D002						

000182

MEF	INV. #		SIZE	NET WT.	% U	%U-235	MATERIAL DESCRIPTION	EPA1	EPA2	EPA3	EPA4	EPA5	EPA6	EPA7	EPA8
00425	W514542	R070	5 GAL	19	0.01	0.700	NITRIC ACID/CYCLOHEXANE	D001	D002						
00425	W514548	R070	5 GAL	20	0.01	0.700	NITRIC ACID/CYCLOHEXANE	D001	D002						
00425	W514669	R070	5 GAL	25	0.01	0.700	NITRIC ACID/CYCLOHEXANE	D001	D002						
00425	W514670	R070	5 GAL	26	0.01	0.700	NITRIC ACID/CYCLOHEXANE	D001	D002						
00425	W514699	R070	5 GAL	33	0.01	0.700	NITRIC ACID/CYCLOHEXANE	D001	D002						
00425	W514792	R070	5 GAL	37	0.01	0.700	NITRIC ACID/CYCLOHEXANE	D001	D002						
00425	W514793	R070	5 GAL	24	0.01	0.700	NITRIC ACID/CYCLOHEXANE	D001	D002						
00425	W514820	R070	5 GAL	23	0.01	0.700	NITRIC ACID/CYCLOHEXANE	D001	D002						
00425	W514851	R070	5 GAL	27	0.01	0.700	NITRIC ACID/CYCLOHEXANE	D001	D002						
00425	W514907	R070	5 GAL	21	0.01	0.700	NITRIC ACID/CYCLOHEXANE	D001	D002						
00447	W093005	W050	85	392	0.01	0.500	WASTE INVENTORY								
00447	W093006	W050	85	63	0.01	0.500	WASTE INVENTORY								
00447	W146001	W050													
00448	W093004	W050	85	572	0.01	0.500	WASTE INVENTORY								
00455	W506333	R050	85 OP	245	0.01	0.500	BENZENE	D001	F001						
00459	W506334	R050	85 OP	450	0.01	0.500	PAINT	D001	F001	F002					
00485	W506406	R095	85 OP	202	0.01	0.950	KEROSENE	D001							
00507	W506420	R050	85 OP	249	0.01	0.500	CONTAMINATED SOLVENT	D001	D035						
00508	W506419	R050	85 OP	484	0.01	0.500	PAINT THINNER	D001	D035						
00584	W506483	R050	55	367	0.01	0.500	KEROSENE/SLUDGE/WATER FROM UST	D018							
00584	W506484	R050	55	377	0.01	0.500	KEROSENE/SLUDGE/WATER FROM UST	D018							
00584	W506485	R050	55	219	0.01	0.500	KEROSENE/SLUDGE/WATER FROM UST	D018							
00584	W506486	R050	55	389	0.01	0.500	KEROSENE/SLUDGE/WATER FROM UST	D018							
00584	W506487	R050	55	371	0.01	0.500	KEROSENE/SLUDGE/WATER FROM UST	D018							
00584	W506489	R050	55	134	0.01	0.500	KEROSENE/SLUDGE/WATER FROM UST	D018							
00584	W506490	R050	55	408	0.01	0.500	KEROSENE/SLUDGE/WATER FROM UST	D018							
00587	W513835	R050	85 OP	249	0.01	0.500	GREASE & WATER	D001							
00633	W506335	R050	85 OP	493	0.01	0.500	OIL	D007	D008	D009					
00633	W506587	R050	85 OP	138	0.01	0.500	OIL	D007	D008	D009					
00633	W506588	R050	85 OP	86	0.01	0.500	OIL	D007	D008	D009					
00633	W506590	R050	85 OP	140	0.01	0.500	OIL	D007	D008	D009					
00633	W506591	R050	85 OP	478	0.01	0.500	OIL	D007	D008	D009					
00633	W506592	R050	85 OP	343	0.01	0.500	OIL	D007	D008	D009					
00633	W506593	R050	85 OP	399	0.01	0.500	OIL	D007	D008	D009					

000183

6009

MEF	INV. #		SIZE	NET WT.	% U	%U-235	MATERIAL DESCRIPTION	EPA1	EPA2	EPA3	EPA4	EPA5	EPA6	EPA7	EPA8
00633	W506594	R050	85 OP	323	0.01	0.500	OIL	D007	D008	D009					
00633	W506595	R050	85 OP	139	0.01	0.500	OIL	D007	D008	D009					
00633	W506596	R050	85 OP	479	0.01	0.500	OIL	D007	D008	D009					
00633	W506597	R050	85 OP	162	0.01	0.500	OIL	D007	D008	D009					
00633	W506598	R050	85 OP	85	0.01	0.500	OIL	D007	D008	D009					
00637	W506586	X948	85 OP	242	0.50	0.200	USED OIL	D018							
00638	W506585	R050	85 OP	313	0.01	0.500	OIL FROM DRUM BALER, PLANT 1	D018							
00658	W506604	S000	85 OP	89	0.50	0.947	OIL	D018							
00870	W511556	R050	85 OP	197	0.01	0.500	VARNISH, UNUSED	D001							
00873	W506871	R000	85 OP	501	0.01	0.200	SPENT FIXER	D011							
00873	W506872	R000	85 OP	503	0.01	0.200	SPENT FIXER	D011							
00873	W513837	R050	55 OP	38	0.01	0.500	SPENT FIXER	D011							
00873	W513954	R050	85 OP	148	0.01	0.500	SPENT FIXER	D011							
00873	W513955	R050	55 OP	102	0.01	0.500	SPENT FIXER	D011							
00873	W513956	R050	55 OP	55	0.01	0.500	SPENT FIXER	D011							
01337	W513849	R050	85 OP	373	0.01	0.500	CONTAM. WATER, NON-CHLORIDE	D001							
01432	W513846	R050	85 OP	347	0.01	0.500	CONT. WATR OR SUMP LIQR., NON-CHL	D001							
01432	W513847	R050	85 OP	218	0.01	0.500	CONT. WATR OR SUMP LIQR., NON-CHL	D001							
01432	W513848	R050	85 OP	77	0.01	0.500	CONT. WATR OR SUMP LIQR., NON-CHL	D001							
01432	W513850	R050	85 OP	428	0.01	0.500	CONT. WATR OR SUMP LIQR., NON-CHL	D001							
01432	W513862	R050	85 OP	407	0.01	0.500	CONT. WATR OR SUMP LIQR., NON-CHL	D001							
01432	W514362	R125	55	437	0.01	1.250	CONT. WATR OR SUMP LIQR., NON-CHL	D001							
01725	W513947	R050	55	295	0.01	0.500	LUBRICATING OILS	D018							
01725	W513950	R050	55	366	0.01	0.500	LUBRICATING OILS	D018							
01725	W513957	R050	55	369	0.01	0.500	LUBRICATING OILS	D018							
01725	W514000	R050	55	378	0.01	0.500	LUBRICATING OILS	D018							
01725	W514187	R050	55	403	0.01	0.500	LUBRICATING OILS	D018							
01725	W514290	R050	55	356	0.01	0.500	LUBRICATING OILS	D018							
01725	W514316	R050	55	303	0.01	0.500	LUBRICATING OILS	D018							
01725	W514350	R050	55	345	0.01	0.500	LUBRICATING OILS	D018							
01725	W514538	R050	55	350	0.01	0.500	LUBRICATING OILS	D018							
01725	W514695	R050	55	389	0.01	0.500	LUBRICATING OILS	D018							
01725	W514806	R050	55	405	0.01	0.500	LUBRICATING OILS	D018							
01725	W514850	R050	55	388	0.01	0.500	USED OIL	D018							

000134

MEF	INV. #	SIZE	NET WT.	% U	%U-235	MATERIAL DESCRIPTION	EPA1	EPA2	EPA3	EPA4	EPA5	EPA6	EPA7	EPA8
01725	W514878	R050 55	392	0.01	0.500	USED OIL	D018							
01725	W514997	R050 55	397	0.01	0.500	USED OIL FROM GASOLINE ENGINES	D018							
01725	W515003	R050 55	365	0.01	0.500	USED OIL FROM GASOLINE ENGINES	D018							
01725	W515053	R050 55	291	0.01	0.500	USED OIL	D018							
01725	W515099	R050 55	407	0.01	0.500	USED OIL FROM GASOLINE ENGINES	D018							
01728	W514287	R050 85 OP	215	0.01	0.500	USED OIL	D018							
01728	W514372	R050 55	395	0.01	0.500	USED OIL	D018							
01728	W514422	R050 55	386	0.01	0.500	USED OIL	D018							
01728	W514539	R050 55	373	0.01	0.500	USED OIL	D018							
01728	W514559	R050 55	328	0.01	0.500	USED OIL	D018							
01728	W514809	R050 55	22	0.01	0.500	USED OIL	D018							
01728	W514897	R050 55	289	0.01	0.500	USED OIL	D018							
01728	W514901	R050 55	246	0.01	0.500	USED OIL	D018							
01729	W514106	R050 55	320	0.01	0.500	GASOLINE	D001	D008	D018					
01729	W514203	R050 55	295	0.01	0.500	GASOLINE	D001	D008	D018					
01729	W514288	R050 55	56	0.01	0.500	GASOLINE	D001	D008	D018					
01729	W514349	R050 55	342	0.01	0.500	GASOLINE	D001	D008	D018					
01729	W514363	R050 55	339	0.01	0.500	GASOLINE	D001	D008	D018					
01729	W514540	R050 55	336	0.01	0.500	GASOLINE	D001	D008	D018					
01729	W514541	R050 55	315	0.01	0.500	GASOLINE	D001	D008	D018					
01729	W514560	R050 55	295	0.01	0.500	GASOLINE	D001	D008	D018					
01729	W514808	R050 55	90	0.01	0.500	GASOLINE	D001	D008	D018					
02006	W513995	R050 85 OP	103	0.01	0.500	CURING COMPOUND	D001							
02006	W513996	R050 85 OP	280	0.01	0.500	CURING COMPOUND	D001							
30045	W507544	D690 85 OP	282	15.13	0.200	OILY SLUDGE	D001							
30045	W507543	D690 85 OP	311	15.13	0.200	OILY SLUDGE	D001							
30045	W507542	D690 85 OP	338	40.00	0.200	OILY SLUDGE	D001							
30045	W050194	D690 85	509	15.13	0.193	WASTE INVENTORY								
30045	W050192	D690 85	502	15.13	0.193	WASTE INVENTORY								
30045	W050193	D690 85	391	15.13	0.193	WASTE INVENTORY								
30045	W050283	D690 85	491	15.13	0.193	WASTE INVENTORY								
30045	W050197	D690 85	449	15.13	0.193	WASTE INVENTORY								
30045	W050221	D690 85	482	15.13	0.193	WASTE INVENTORY								
30045	W050219	D690 85	473	15.13	0.193	WASTE INVENTORY								

000185

6009

MEF	INV. #		SIZE	NET WT.	% U	%U-235	MATERIAL DESCRIPTION	EPA1	EPA2	EPA3	EPA4	EPA5	EPA6	EPA7	EPA8
30045	W049437	D690	85	429	15.66	0.192	WASTE INVENTORY								
30045	W049438	D690	85	481	15.66	0.192	WASTE INVENTORY								
30045	W049436	D690	85	455	15.66	0.192	WASTE INVENTORY								
30045	W076671	D690	85	422	15.66	0.192	WASTE INVENTORY								
30045	W050195	D690	85	495	15.66	0.192	WASTE INVENTORY								
30045	W050282	D690	85	515	15.66	0.192	WASTE INVENTORY								
30045	W050284	D690	85	479	15.66	0.192	WASTE INVENTORY								
30045	W076670	D690	85	483	15.66	0.192	WASTE INVENTORY								
30045	W076669	D690	85	452	15.66	0.192	WASTE INVENTORY								
30045	W050296	D690	85	485	15.66	0.192	WASTE INVENTORY								
30045	W050295	D690	85	499	15.66	0.192	WASTE INVENTORY								
30045	W050294	D690	85	488	15.66	0.192	WASTE INVENTORY								
30045	W049435	D690	85	517	15.66	0.192	WASTE INVENTORY								
30045	W049434	D690	85	442	15.66	0.192	WASTE INVENTORY								
30045	W049433	D690	85	474	15.66	0.192	WASTE INVENTORY								
30045	W050196	D690	85	470	15.66	0.192	WASTE INVENTORY								
50202	W507958	R071	55 OP	194	50.00	0.711	OILY SLUDGE FOR OXIDATION	D001	D010						
50204	W508155	X888	55 OP	336	10.00	1.100	OILY SLUDGE FOR OXIDATION	D001	D010						
50346	W511555	X888	85 OP	493	0.34	1.100	OILY SLUDGE FOR OXIDATION	D001							
50346	W511554	X888	85 OP	150	0.34	1.100	OILY SLUDGE FOR OXIDATION	D001							
50347	W511754	R095	85 OP	395	0.01	0.950	DISCARD PROCESS RESIDUE	D001							
50355	W509039	R050	85 OP	514	0.01	0.500	DISCARD PROCESS RESIDUE	D001							
50355	W509040	R050	85 OP	517	0.01	0.500	DISCARD PROCESS RESIDUE	D001							
50355	W509136	R050	55	451	0.01	0.500	DISCARD PROCESS RESIDUE	D001							
50355	W509137	R050	55	250	0.01	0.500	DISCARD PROCESS RESIDUE	D001							
50355	W509138	R050	55	471	0.01	0.500	DISCARD PROCESS RESIDUE	D001							
50355	W509139	R050	55	525	0.01	0.500	DISCARD PROCESS RESIDUE	D001							
50355	W509140	R050	55	531	0.01	0.500	DISCARD PROCESS RESIDUE	D001							
50355	W509141	R050	55	554	0.01	0.500	DISCARD PROCESS RESIDUE	D001							
50355	W509142	R050	55	574	0.01	0.500	DISCARD PROCESS RESIDUE	D001							
50355	W509143	R050	55	572	0.01	0.500	DISCARD PROCESS RESIDUE	D001							
50355	W509144	R050	55	587	0.01	0.500	DISCARD PROCESS RESIDUE	D001							
50355	W509145	R050	55	560	0.01	0.500	DISCARD PROCESS RESIDUE	D001							
50355	W509146	R050	55	543	0.01	0.500	DISCARD PROCESS RESIDUE	D001							

000186

MEF	INV. #		SIZE	NET WT.	% U	%U-235	MATERIAL DESCRIPTION	EPA1	EPA2	EPA3	EPA4	EPA5	EPA6	EPA7	EPA8
50355	W509147	R050	55	475	0.01	0.500	DISCARD PROCESS RESIDUE	D001							
50355	W509148	R050	55	529	0.01	0.500	DISCARD PROCESS RESIDUE	D001							
50355	W509149	R050	55	442	0.01	0.500	DISCARD PROCESS RESIDUE	D001							
60013	W506359	R020	55 OP	121	0.01	0.200	NON RECOVERABLE TRASH	D001							
60013	W506360	R020	55 OP	112	0.01	0.200	NON RECOVERABLE TRASH	D001							
60013	W506361	R020	55 OP	83	0.01	0.200	NON RECOVERABLE TRASH	D001							
60013	W506362	R020	55 OP	82	0.01	0.200	NON RECOVERABLE TRASH	D001							
60013	W506363	R020	55 OP	89	0.01	0.200	NON RECOVERABLE TRASH	D001							
60013	W506364	R020	55 OP	122	0.01	0.200	NON RECOVERABLE TRASH	D001							
60013	W506365	R020	55 OP	114	0.01	0.200	NON RECOVERABLE TRASH	D001							
60013	W506366	R020	55 OP	90	0.01	0.200	NON RECOVERABLE TRASH	D001							
60013	W506367	R020	55 OP	40	0.01	0.200	NON RECOVERABLE TRASH	D001							
60022	W504639	R020	85 OP	442	0.01	0.200	NON RECOVERABLE TRASH	D001							
60022	W504638	R020	85 OP	394	0.01	0.200	NON RECOVERABLE TRASH	D001							
60055	W506272	R050	55	312	0.01	0.500	LEADED GASOLINE	D001	D008	D018					
60055	W506273	R050	55	246	0.01	0.500	LEADED GASOLINE	D001	D008	D018					
60055	W506274	R050	55	253	0.01	0.500	LEADED GASOLINE	D001	D008	D018					
60055	W506275	R050	55	2870	0.01	0.500	LEADED GASOLINE	D001	D008	D018					
60055	W506276	R050	55	254	0.01	0.500	LEADED GASOLINE	D001	D008	D018					
60055	W506277	R050	55	261	0.01	0.500	LEADED GASOLINE	D001	D008	D018					
60055	W506278	R050	55	266	0.01	0.500	LEADED GASOLINE	D001	D008	D018					
60055	W506279	R050	55	256	0.01	0.500	LEADED GASOLINE	D001	D008	D018					
60055	W506280	R050	55	252	0.01	0.500	LEADED GASOLINE	D001	D008	D018					
60055	W506281	R050	55	223	0.01	0.500	LEADED GASOLINE	D001	D008	D018					
60055	W506282	R050	55	273	0.01	0.500	LEADED GASOLINE	D001	D008	D018					
60055	W506283	R050	55	257	0.01	0.500	LEADED GASOLINE	D001	D008	D018					
60055	W506284	R050	85 OP	353	0.01	0.500	LEADED GASOLINE	D001	D008	D018					
60055	W506285	R050	55	253	0.01	0.500	LEADED GASOLINE	D001	D008	D018					
60055	W506286	R050	55	243	0.01	0.500	LEADED GASOLINE	D001	D008	D018					
60055	W506287	R050	55	248	0.01	0.500	LEADED GASOLINE	D001	D008	D018					
60055	W506290	R050	55	235	0.01	0.500	LEADED GASOLINE	D001	D008	D018					
60055	W506291	R050	55	298	0.01	0.500	LEADED GASOLINE	D001	D008	D018					
60055	W506292	R050	55	192	0.01	0.500	LEADED GASOLINE	D001	D008	D018					
60055	W506293	R050	55	268	0.01	0.500	LEADED GASOLINE	D001	D008	D018					

001457

6099

MEF	INV. #		SIZE	NET WT.	% U	%U-235	MATERIAL DESCRIPTION	EPA1	EPA2	EPA3	EPA4	EPA5	EPA6	EPA7	EPA8
60060	W500757	R050	85 OP	317	0.01	0.500	MISCELLANEOUS SUSPECT RESIDUE	D001							
60301	W500926	R050	55	405	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W500927	R050	55	430	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W500928	R050	55	411	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W500929	R050	55	397	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W500930	R050	55	396	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W500931	R050	55	308	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W500932	R050	55	395	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W500933	R050	55	449	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W500934	R050	55	401	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W500935	R050	55	390	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W500936	R050	55	404	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W500937	R050	55	405	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W500938	R050	55	128	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W500939	R050	55	455	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W500940	R050	55	486	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W500941	R050	55	205	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W500942	R050	55	257	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W500943	R050	55	301	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W500944	R050	85 OP	489	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W500945	R050	55	96	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W500946	R050	55	388	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W500947	R050	55	406	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W500948	R050	55	407	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W500950	R050	55	351	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W500953	R050	55	375	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W500954	R050	55	394	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W500955	R050	55	390	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W500956	R050	55	415	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W500958	R050	55	409	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W500959	R050	85 OP	420	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W500960	R050	85 OP	422	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W500961	R050	85 OP	459	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W500962	R050	55	362	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							

MEF	INV. #		SIZE	NET WT.	% U	%U-235	MATERIAL DESCRIPTION	EPA1	EPA2	EPA3	EPA4	EPA5	EPA6	EPA7	EPA8
60301	W500963	R050	55	417	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W500964	R050	55	459	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W500965	R050	55	436	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W500986	R050	55	343	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W500987	R050	55	370	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W500988	R050	55	375	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W500989	R050	55	414	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W500990	R050	55	365	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W500991	R050	55	423	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W500992	R050	55	348	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W500993	R050	55	379	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W500994	R050	55	405	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W500995	R050	55	394	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W500996	R050	55	351	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W500997	R050	55	378	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W500998	R050	55	440	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W500999	R050	55	424	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W501000	R050	55	430	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W501001	R050	55	166	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W501002	R050	55	356	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W501003	R050	55	161	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W501004	R050	55	374	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W501005	R050	55	374	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W501006	R050	55	364	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W501007	R050	55	368	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W501008	R050	55	372	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W501010	R050	55	387	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W501011	R050	55	375	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W501012	R050	85 OP	485	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W501013	R050	55	455	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W501014	R050	55	426	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W501015	R050	55	403	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W501016	R050	55	440	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W501017	R050	55	414	0.01	0.500	U-CONTAM. OIL, INSOLUBLE IN WATER	D008							

000189

6009

MEF	INV. #		SIZE	NET WT.	% U	%U-235	MATERIAL DESCRIPTION	EPA1	EPA2	EPA3	EPA4	EPA5	EPA6	EPA7	EPA8
60301	W501018	R050	55	427	0.01	0.500	U–CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W501019	R050	85 OP	436	0.01	0.500	U–CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W501020	R050	55	412	0.01	0.500	U–CONTAM. OIL, INSOLUBLE IN WATER	D008							
60301	W501021	R050	55	297	0.01	0.500	U–CONTAM. OIL, INSOLUBLE IN WATER	D008							
60331	W506370	R050	55	342	0.01	0.500	CONTAMINATED WATER, NON–CL	D001	D018						
60331	W506371	R050	85 OP	422	0.01	0.500	CONTAMINATED WATER, NON–CL	D001	D018						
60331	W506372	R050	55	426	0.01	0.500	CONTAMINATED WATER, NON–CL	D001	D018						
60331	W506373	R050	55	430	0.01	0.500	CONTAMINATED WATER, NON–CL	D001	D018						
60331	W506374	R050	55	427	0.01	0.500	CONTAMINATED WATER, NON–CL	D001	D018						
60331	W506375	R050	85 OP	410	0.01	0.500	CONTAMINATED WATER, NON–CL	D001	D018						
60331	W506376	R050	85 OP	414	0.01	0.500	CONTAMINATED WATER, NON–CL	D001	D018						
60331	W506377	R050	55	433	0.01	0.500	CONTAMINATED WATER, NON–CL	D001	D018						
60331	W506378	R050	85 OP	433	0.01	0.500	CONTAMINATED WATER, NON–CL	D001	D018						
60331	W506379	R050	85 OP	433	0.01	0.500	CONTAMINATED WATER, NON–CL	D001	D018						
60331	W506380	R050	55	428	0.01	0.500	CONTAMINATED WATER, NON–CL	D001	D018						
60331	W506381	R050	85 OP	431	0.01	0.500	CONTAMINATED WATER, NON–CL	D001	D018						
60331	W506382	R050	55	323	0.01	0.500	CONTAMINATED WATER, NON–CL	D001	D018						
60331	W506383	R050	85 OP	415	0.01	0.500	CONTAMINATED WATER, NON–CL	D001	D018						
60331	W506384	R050	85 OP	421	0.01	0.500	CONTAMINATED WATER, NON–CL	D001	D018						
60331	W506385	R050	85 OP	417	0.01	0.500	CONTAMINATED WATER, NON–CL	D001	D018						
60331	W506386	R050	85 OP	414	0.01	0.500	CONTAMINATED WATER, NON–CL	D001	D018						
60331	W506387	R050	55	411	0.01	0.500	CONTAMINATED WATER, NON–CL	D001	D018						
60331	W506388	R050	55	413	0.01	0.500	CONTAMINATED WATER, NON–CL	D001	D018						
60331	W506389	R050	55	419	0.01	0.500	CONTAMINATED WATER, NON–CL	D001	D018						
60331	W506390	R050	55	418	0.01	0.500	CONTAMINATED WATER, NON–CL	D001	D018						

TOTAL # OF DRUMS – 297

000190

Liquid Mixed Waste Compatibility Test Data

Information Package

This package contains the qualitative test results from waste compatibility tests completed as part of the Ignitable and Combustible Liquid Mixed Waste Project. ASTM Method 5058, "Commingled Waste Compatibility", was utilized to obtain the results. All tests were conducted at the FEMP in the on-site analytical laboratory by FERMCO Technicians. Samples were collected in accordance with Site Operating Procedure, 20-C-806, "Sampling Waste for Hazard Identification". Samples were transferred from the sample lines to the laboratory using chain of custody procedures in accordance with SSOP-0018, "Processing Chain of Custody/Request for Analysis Record for Sample Control".

The test results are divided into five sections representing the five batches of waste planned for shipment to the TSCA Incinerator. The five batches are as follows:

- Listed Combustibles 1A
- Listed Ignitables 1A
- Listed Combustibles 1B
- Listed Ignitables 1B
- Non - Listed

LISTED COMBUSTIBLES 1A

Attachment A

ASTM Method 5058

Test Method A - Commingled Waste Compatibility

LISTED COMBUSTIBLES 1A

Test#1

Sample Container	Sample #	MEF #	Volume
1	93-660A-~~1~~ 5	10,010	150ml
2	93-660A-6	10,004	7ml

Sample Container	Sample #	MEF #	Volume
(1&2 above)	93-660A-~~1~~ 5 & 6	10,010&10,004	157ml
3	93-660A-~~7~~ 14	10,027	5ml

Test#2

Sample Container	Sample #	MEF #	Volume
1	93-660A-~~2~~ 4	10,010	150ml
2	93-660A-6	10,004	7ml

Sample Container	Sample #	MEF #	Volume
(1&2 above)	93-660A-~~2~~ 4 & 6	10,010&10,004	157ml
3	93-660A-~~7~~ 14	10,027	5ml

Test#3

Sample Container	Sample #	MEF #	Volume
1	93-660A-3	10,010	150ml
2	93-660A-6	10,004	7ml

Sample Container	Sample #	MEF #	Volume
(1&2 above)	93-660A-3 & 6	10,010&10,004	157ml
3	93-660A-~~7~~ 14	10,027	5ml

Attachment A

ASTM Method 5058

Test Method A - Commingled Waste Compatibility

LISTED COMBUSTIBLES 1A

Test#4

Sample Container	Sample #	MEF #	Volume
1	93-660A-~~4~~ 2	10,010	150ml
2	93-660A-6	10,004	7ml

Sample Container	Sample #	MEF #	Volume
(1&2 above)	93-660A-~~4~~ 2 & 6	10,010&10,004	157ml
3	93-660A-~~7~~ 14	10,027	5ml

Test#5

Sample Container	Sample #	MEF #	Volume
1	93-660A-~~5~~ 1	10,010	150ml
2	93-660A-6	10,004	7ml

Sample Container	Sample #	MEF #	Volume
(1&2 above)	93-660A-~~5~~ 1 & 6	10,010&10,004	157ml
3	93-660A-~~7~~ 14	10,027	5ml

Test#6

Sample Container	Sample #	MEF #	Volume
1	93-660A-~~8~~ 13	10,010	150ml
2	93-660A-~~15~~ 7	10,004	7ml

Sample Container	Sample #	MEF #	Volume
(1&2 above)	93-660A-8 & 13	10,010&10,004	157ml
3	93-660A-1~~4~~ 10	10,027	5ml

Attachment A

ASTM Method 5058

Test Method A - Commingled Waste Compatibility

LISTED COMBUSTIBLES 1A

Test#7

Sample Container	Sample #	MEF #	Volume
1	93-660A-~~9~~8	10,010	150ml
2	93-660A-~~13~~ 7	10,004	7ml

Sample Container	Sample #	MEF #	Volume
(1&2 above)	93-660A-~~9~~8 & 13	10,010&10,004	157ml
3	93-660A-1~~4~~10	10,027	5ml

Test#8

Sample Container	Sample #	MEF #	Volume
1	93-660A-~~20~~12	10,010	150ml
2	93-660A-~~13~~ 7	10,004	7ml

Sample Container	Sample #	MEF #	Volume
(1&2 above)	93-660A-~~10~~12 & 13	10,010&10,004	157ml
3	93-660A-1~~4~~10	10,027	5ml

Test#9

Sample Container	Sample #	MEF #	Volume
1	93-660A-11	10,010	150ml
2	93-660A-~~13~~ 7	10,004	7ml

Sample Container	Sample #	MEF #	Volume
(1&2 above)	93-660A-11 & 13	10,010&10,004	157ml
3	93-660A-1~~4~~10	10,027	5ml

Attachment A

ASTM Method 5058

Test Method A - Commingled Waste Compatibility

LISTED COMBUSTIBLES 1A

Test#10

Sample Container	Sample #	MEF #	Volume
1	93-660A-1~~2~~9	10,010	150ml
2	93-660A-~~13~~7	10,004	7ml

Sample Container	Sample #	MEF #	Volume
(1&2 above)	93-660A-1~~2~~9 & ~~13~~7	10,010&10,004	157ml
3	93-660A-1~~4~~10	10,027	5ml

Summary of Commingled Waste Compatibility Test

Listed Combustibles 1A

Note: In the following summary when no reaction is indicated this means as the samples were mixed no mists, fumes, dusts, gases, precipitation, bubbling, foaming, solidification, spattering or increase viscosity occurred.

Test 1

Pretest: No reaction.

Primary Test I: No reaction.

Initial Temperature 1 (sample# 93-660A-5):	71°F
Initial Temperature 2 (sample# 93-660A-6):	69°F
Temperature after mixing:	70°F
Temperature difference was:	±1°F

Primary Test II: No reaction.

Initial Temperature 1&2 (sample# 93-660A-5,6):	70°F
Initial Temperature 3 (sample# 93-660A-14):	70°F
Temperature after mixing:	70°F
Temperature difference was:	0°F

Test 2

Pretest: No reaction.

Primary Test I: No reaction.

Initial Temperature 1 (sample# 93-660A-4):	71°F
Initial Temperature 2 (sample# 93-660A-6):	69°F
Temperature after mixing:	70°F
Temperature difference was:	±1°F

Primary Test II: No reaction.

Initial Temperature 1&2 (sample# 93-660A-4,6):	70°F
Initial Temperature 3 (sample# 93-660A-14):	69°F
Temperature after mixing:	69°F
Temperature difference was:	-1 to 0°F

Test 3

Pretest: No reaction.

Primary Test I: No reaction.

Initial Temperature 1 (sample# 93-660A-3):	71°F
Initial Temperature 2 (sample# 93-660A-6):	69°F
Temperature after mixing:	70°F
Temperature difference was:	±1°F

Primary Test II: No reaction.

Initial Temperature 1&2 (sample# 93-660A-3,6):	69.5°F
Initial Temperature 3 (sample# 93-660A-14):	69°F
Temperature after mixing:	69°F
Temperature difference was:	-.5 to 0°F

Summary of Commingled Waste Compatibility Test

Listed Combustibles 1A

Test 4

Pretest: No reaction.

Primary Test I: No reaction.

Initial Temperature 1 (sample# 93-660A-2):	71°F
Initial Temperature 2 (sample# 93-660A-6):	69°F
Temperature after mixing:	69°F
Temperature difference was:	0 to 2°F

Primary Test II: No reaction.

Initial Temperature 1&2 (sample# 93-660A-2,6):	69°F
Initial Temperature 3 (sample# 93-660A-14):	69°F
Temperature after mixing:	68.5°F
Temperature difference was:	-.5°F

Test 5

Pretest: No reaction.

Primary Test I: No reaction.

Initial Temperature 1 (sample# 93-660A-2):	70°F
Initial Temperature 2 (sample# 93-660A-6):	69°F
Temperature after mixing:	70°F
Temperature difference was:	0 to 1°F

Primary Test II: No reaction.

Initial Temperature 1&2 (sample# 93-660A-2,6):	70°F
Initial Temperature 3 (sample# 93-660A-14):	69°F
Temperature after mixing:	70°F
Temperature difference was:	0 to 1°F

Test 6

Pretest: No reaction.

Primary Test I: No reaction.

Initial Temperature 1 (sample# 93-660A-13):	77°F
Initial Temperature 2 (sample# 93-660A-7):	76.5°F
Temperature after mixing:	76°F
Temperature difference was:	-1°F

Primary Test II: No reaction.

Initial Temperature 1&2 (sample# 93-660A-13,7):	76°F
Initial Temperature 3 (sample# 93-660A-10):	77°F
Temperature after mixing:	75.5°F
Temperature difference was:	-1.5°F

Summary of Commingled Waste Compatibility Test

Listed Combustibles 1A

Test 7

Pretest: No reaction.

Primary Test I: No reaction.

Initial Temperature 1 (sample# 93-660A-8):	75.5°F
Initial Temperature 2 (sample# 93-660A-7):	77°F
Temperature after mixing:	74°F
Temperature difference was:	-3°F

Primary Test II: No reaction.

Initial Temperature 1&2 (sample# 93-660A-8,7):	75°F
Initial Temperature 3 (sample# 93-660A-10):	77°F
Temperature after mixing:	75°F
Temperature difference was:	-2 to 0°F

Test 8

Pretest: No reaction.

Primary Test I: No reaction.

Initial Temperature 1 (sample# 93-660A-12):	76.5°F
Initial Temperature 2 (sample# 93-660A-7):	77°F
Temperature after mixing:	76°F
Temperature difference was:	-1°F

Primary Test II: No reaction.

Initial Temperature 1&2 (sample# 93-660A-12,7):	76°F
Initial Temperature 3 (sample# 93-660A-10):	77°F
Temperature after mixing:	76°F
Temperature difference was:	-1 to 0°F

Test 9

Pretest: No reaction.

Primary Test I: No reaction.

Initial Temperature 1 (sample# 93-660A-11):	76°F
Initial Temperature 2 (sample# 93-660A-7):	76°F
Temperature after mixing:	75°F
Temperature difference was:	-1°F

Primary Test II: No reaction.

Initial Temperature 1&2 (sample# 93-660A-11,7):	76°F
Initial Temperature 3 (sample# 93-660A-10):	77.5°F
Temperature after mixing:	75°F
Temperature difference was:	-2.5°F

Summary of Commingled Waste Compatibility Test

Listed Combustibles 1A

Test 10

Pretest: No reaction.

Primary Test I: No reaction.

Initial Temperature 1 (sample# 93-660A-9):	77°F
Initial Temperature 2 (sample# 93-660A-7):	76.5°F
Temperature after mixing:	76.5°F
Temperature difference was:	-.5 to 0°F

Primary Test II: No reaction.

Initial Temperature 1&2 (sample# 93-660A-9,7):	77°F
Initial Temperature 3 (sample# 93-660A-10):	78°F
Temperature after mixing:	76.5°F
Temperature difference was:	-1.5°F

LISTED IGNITABLES 1A

Attachment A

ASTM Method 5058

Test Method A - Commingled Waste Compatibility

LISTED IGNITABLES 1A

Place the volume amount of "1" into the 500ml beaker. Then place the volume amount of "2" into the same 500ml beaker.

Test#1

Sample Container	Sample #	MEF #	Volume
1	93-660B-1	20,003	150ml
2	93-660B-11	426	6ml

Test#2

Sample Container	Sample #	MEF #	Volume
1	93-660B-2	20,003	150ml
2	93-660B-12	426	6ml

Test#3

Sample Container	Sample #	MEF #	Volume
1	93-660B-3	20,003	150ml
2	93-660B-13	426	6ml

Test#4

Sample Container	Sample #	MEF #	Volume
1	93-660B-4	20,003	150ml
2	93-660B-14	426	6ml

Test#5

Sample Container	Sample #	MEF #	Volume
1	93-660B-5	20,003	150ml
2	93-660B-15	426	6ml

Attachment A

ASTM Method 5058

Test Method A - Commingled Waste Compatibility

LISTED IGNITABLES 1A

Test#6

Sample Container	Sample #	MEF #	Volume
1	93-660B-6	20,003	150ml
2	93-660B-16	426	6ml

Test#7

Sample Container	Sample #	MEF #	Volume
1	93-660B-7	20,003	150ml
2	93-660B-17	426	6ml

Test#8

Sample Container	Sample #	MEF #	Volume
1	93-660B-8	20,003	150ml
2	93-660B-18	426	6ml

Test#9

Sample Container	Sample #	MEF #	Volume
1	93-660B-9	20,003	150ml
2	93-660B-19	426	6ml

Test#10

Sample Container	Sample #	MEF #	Volume
1	93-660B-10	20,003	150ml
2	93-660B-20	426	6ml

Summary of Commingled Waste Compatibility Test

Listed Ignitables 1A

Note: In the following summary when no physical reaction is indicated this means as samples were mixed no mists, fumes, dusts, gases, precipitation, bubbling, foaming, solidification, spattering, or increase viscosity occurred.

Test 1

Pretest: No reaction.
Primary Test: No physical reaction was observed.

Initial Temperature 1 (sample# 93-660B-1):	68°F
Initial Temperature 2 (sample# 93-660B-11):	69.5°F
Temperature after mixing:	63°F

Temperature difference was -5°F to -6°F.

Test 2

Pretest: No reaction.
Primary Test: No physical reaction was observed.

Initial Temperature 1 (sample# 93-660B-2):	68°F
Initial Temperature 2 (sample# 93-660B-12):	69°F
Temperature after mixing:	62°F

Temperature difference was -6°F to -7°F.

Test 3

Pretest: No reaction, two layers formed.
Primary Test: No physical reaction was observed.

Initial Temperature 1 (sample# 93-660B-3):	68°F
Initial Temperature 2 (sample# 93-660B-13):	70°F
Temperature after mixing:	66°F

Temperature difference was -2°F to -4°F.

Tests 1-3 showed significant decreases in temperature. A "Follow-Up" test was performed. Sample container 1 (sample# 93-660B-3), a quantity of 100mL was placed into a beaker. An initial temperature of 68.5°F was measured, no other sample was added to the beaker. The contents of the beaker were stirred, a temperature after stirring of 65°F was measured, a decrease of 3.5°F.

Test 4

Pretest: No rection.
Primary Test: No reaction was observed.

Initial Temperature 1 (sample# 93-660B-4):	68°F
Initial Temperature 2 (sample# 93-660B-14):	68°F
Temperature after mixing:	63°F

Temperature difference was -5°F.

Test 5

Pretest: No reaction.
Primary Test: No physical reaction was observed.

Initial Temperature 1 (sample# 93-660B-5):	66°F
Initial Temperature 2 (sample# 93-660B-15):	68°F
Temperature after mixing:	62°F

Temperature difference was -4°F to -6°F.

Test 6

Pretest: No reaction.

Primary Test: No physical reaction was observed.

Initial Temperature 1 (sample# 93-660B-6):	66°F
Initial Temperature 2 (sample# 93-660B-16):	69°F
Temperature after mixing:	60°F

Temperature difference was -6°F to -9°F.

Test 7

Pretest: After the addition from sample container 2 (sample# 93-660B-17) fine particles collected at the bottom of the beaker. No reaction was observed.

Primary Test: No reaction was observed.

Initial Temperature 1 (sample# 93-660B-7) before placed in beaker:	69°F
Temperature (1) after transferred to beaker:	66°F
Initial Temperature 2 (sample# 93-660B-17):	69°F
Temperature after mixing:	64°F

Temperature difference was -2°F to -5°F.

Test 8

Pretest: After the addition from sample container 2 (sample# 93-660B-18), fine particles collected at the bottom of the beaker. No reaction was observed.

Primary Test: Thin layer of sample 2 formed on top.

Initial Temperature 1 (sample# 93-660B-8) before placed in beaker:	70°F
Temperature (1) after transferred to beaker:	66°F
Initial Temperature 2 (sample# 93-660B-18):	69°F
Temperature after mixing:	62°F

Temperature difference was -4°F to -7°F.

Test 9

Pretest: Unusual color change, a bright pink/orange clear liquid formed. No reaction noted.

Primary Test: Bright pink/orange liquid formed, a pink resisdue was left on the stirring rod.

Initial Temperature 1 (sample# 93-660B-9) before placed in beaker:	69°F
Temperature (1) after transferred to beaker:	69°F
Initial Temperature 2 (sample# 93-660B-19):	69°F
Temperature after mixing:	69°F

Temperature difference was 0°F.

Test 10

Pretest: No reaction.

Primary Test: A thin separation formed after two samples were combined.

Initial Temperature 1 (sample# 93-660B-10) before placed in beaker:	70°F
Temperature (1) after transferred to beaker:	66°F
Initial Temperature 2 (sample# 93-660B-20):	68°F
Temperature after mixing:	61°F

Temperature difference was -5°F to -7°F.

Comments: It appeared that the significant decrease in temperature was mainly due to the fact that the contents of sample container 1 would decrease in temperature when it was transferred from its' original sample container to a beaker or upon stirring.

LISTED COMBUSTIBLES 1B

Attachment A

ASTM Method 5058

Test Method A - Commingled Waste Compatibility

LISTED COMBUSTIBLES 1B

Place the volume amount of "1" into the 500ml beaker. Then place the volume amount of "2" into the same 500ml beaker.

Test#1

removed trying solids

Sample Container	Sample #	MEF #	Volume
~~1~~	~~93-660C-1~~	~~30,034~~	~~150ml~~
2	93-660C-2	60,085	94ml

Sample Container	Sample #	MEF #	Volume
(1&2 above)	93-660C-1 & 2	30,034&60,085	150ml
3	93-660C-3	60,070	55ml

Sample Container	Sample #	MEF #	Volume
(1-3 above)	multi-samples	multi-MEFs	150ml
4	93-660C-4	60,084	30ml

Sample Container	Sample #	MEF #	Volume
(1-4 above)	multi-samples	multi-MEFs	150ml
5	93-660C-5	388	24ml

Sample Container	Sample #	MEF #	Volume
(1-5 above)	multi-samples	multi-MEFs	150ml
6	93-660C-~~6~~ 67	60,080	16ml

ASTM Method 5058

Test Method A - Commingled Waste Compatility
LISTED COMBUSTIBLES 1B

Sample Container	Sample #	MEF #	Volume
(1-6 above)	multi-samples	multi-MEFs	150ml
7	93-660C-7	60,328	14ml

Sample Container	Sample #	MEF #	Volume
(1-7 above)	multi-samples	multi-MEFs	150ml
8 ~~5~~	8 93-660C-~~5~~	60,078	10ml

Sample Container	Sample #	MEF #	Volume
(1-8 above)	multi-samples	multi-MEFs	150ml
~~9~~ 5	93-660C-~~9~~ 5	60,051	9ml

Sample Container	Sample #	MEF #	Volume
(1-9 above)	multi-samples	multi-MEFs	150ml
10	93-660C-10	20,021	8ml

Sample Container	Sample #	MEF #	Volume
(1-10 above)	multi-samples	multi-MEFs	150ml
11	93-660C-11	60,342	6ml

Sample Container	Sample #	MEF #	Volume
(1-11 above)	multi-samples	multi-MEFs	150ml
12	93-660C-12	60,087	5ml

Sample Container	Sample #	MEF #	Volume
(1-12 above)	multi-samples	multi-MEFs	150ml
13	93-660C-13	60,069	5ml

ASTM Method 5058

Test Method A - Commingled Waste Compatility
LISTED COMBUSTIBLES 1B

Sample Container	Sample #	MEF #	Volume
(1-13 above)	multi-samples	multi-MEFs	150ml
14	93-660C-14	10,028	4ml

Sample Container	Sample #	MEF #	Volume
(1-14 above)	multi-samples	multi-MEFs	150ml
15	93-660C-15	10,029	3ml

Sample Container	Sample #	MEF #	Volume
(1-15 above)	multi-samples	multi-MEFs	150ml
16	93-660C-16	60,115	3ml

Sample Container	Sample #	MEF #	Volume
(1-16 above)	multi-samples	multi-MEFs	150ml
17	93-660C-17	60,079	3ml

Sample Container	Sample #	MEF #	Volume
(1-17 above)	multi-samples	multi-MEFs	150ml
18	93-660C-18	20,031	3ml

Sample Container	Sample #	MEF #	Volume
(1-18 above)	multi-samples	multi-MEFs	150ml
19	93-660C-19	20,028	3ml

Sample Container	Sample #	MEF #	Volume
(1-19 above)	multi-samples	multi-MEFs	150ml
20	93-660C-20	480	3ml

ASTM Method 5058

Test Method A - Commingled Waste Compatility
LISTED COMBUSTIBLES 1B

Sample Container	Sample #	MEF #	Volume
(1-20 above)	multi-samples	multi-MEFs	150ml
21	93-660C-21	60,062	2ml

Sample Container	Sample #	MEF #	Volume
(1-21 above)	multi-samples	multi-MEFs	150ml
22	93-660C-22	60,063	2ml

Sample Container	Sample #	MEF #	Volume
(1-22 above)	~~multi-samples~~	~~multi-MEFs~~	150ml
~~23~~	~~93-660C-23~~	~~60,072~~	1ml

used all tainted solids

Sample Container	Sample #	MEF #	Volume
(1-23 above)	multi-samples	multi-MEFs	150ml
24	93-660C-24	60,081	1ml

Sample Container	Sample #	MEF #	Volume
(1-24 above)	multi-samples	multi-MEFs	150ml
25	93-660C-25	742	1ml

Sample Container	Sample #	MEF #	Volume
(1-25 above)	multi-samples	multi-MEFs	150ml
26	93-660C-26	390	1ml

Sample Container	Sample #	MEF #	Volume
(1-26 above)	multi-samples	multi-MEFs	150ml
27	93-660C-27	60,116	1ml

ASTM Method 5058

Test Method A - Commingled Waste Compatility
LISTED COMBUSTIBLES 1B

Sample Container	Sample #	MEF #	Volume
(1-27 above)	multi-samples	multi-MEFs	150ml
28	93-660C-28	60,068	1ml

Sample Container	Sample #	MEF #	Volume
(1-28 above)	multi-samples	multi-MEFs	150ml
29	93-660C-29	10,007	1ml

Sample Container	Sample #	MEF #	Volume
(1-29 above)	multi-samples	multi-MEFs	150ml
30	93-660C-30	60,049	1ml

Sample Container	Sample #	MEF #	Volume
(1-30 above)	multi-samples	multi-MEFs	150ml
31	93-660C-31	60,074	1ml

Sample Container	Sample #	MEF #	Volume
(1-31 above)	multi-samples	multi-MEFs	150ml
32	93-660C-32	402	1ml

Sample Container	Sample #	MEF #	Volume
(1-32 above)	multi-samples	multi-MEFs	150ml
33	93-660C-33	60,075	1ml

Sample Container	Sample #	MEF #	Volume
(1-33 above)	multi-samples	multi-MEFs	150ml
34	93-660C-34	106	1ml

ASTM Method 5058

Test Method A - Commingled Waste Compatility
LISTED COMBUSTIBLES 1B

Sample Container	Sample #	MEF #	Volume
(1-34 above)	multi-samples	multi-MEFs	150ml
35	93-660C-35	60,083	1ml

Sample Container	Sample #	MEF #	Volume
(1-35 above)	multi-samples	multi-MEFs	150ml
36	93-660C-36	10,021	1ml

Sample Container	Sample #	MEF #	Volume
(1-36 above)	multi-samples	multi-MEFs	150ml
37	93-660C-37	20,038	1ml

Sample Container	Sample #	MEF #	Volume
(1&37 above)	multi-samples	multi-MEFs	150ml
38	93-660C-38	10,032	1ml

Sample Container	Sample #	MEF #	Volume
(1-38 above)	multi-samples	multi-MEFs	150ml
39	93-660C-39	60,117	1ml

Sample Container	Sample #	MEF #	Volume
(1-39 above)	multi-samples	multi-MEFs	150ml
~~40~~	93-660C-~~40~~	60,044	1ml

Sample Container	Sample #	MEF #	Volume
(1-40 above)	multi-samples	multi-MEFs	150ml
~~41~~	~~93-660C-41~~	~~60,112~~	~~1ml~~

ASTM Method 5058

Test Method A - Commingled Waste Compatility
LISTED COMBUSTIBLES 1B

Sample Container	Sample #	MEF #	Volume
(1-41 above)	multi-samples	multi-MEFs	150ml
42	93-660C-42	20,055	1ml

Sample Container	Sample #	MEF #	Volume
(1-42 above)	multi-samples	multi-MEFs	150ml
43	93-660C-43	60,065	1ml

Sample Container	Sample #	MEF #	Volume
(1-43 above)	multi-samples	multi-MEFs	150ml
44	93-660C-44	148	1ml

Sample Container	Sample #	MEF #	Volume
(1-44 above)	multi-samples	multi-MEFs	150ml
45	93-660C-45	438	1ml

Sample Container	Sample #	MEF #	Volume
(1-45 above)	multi-samples	multi-MEFs	150ml
46	93-660C-46	20,054	1ml

Sample Container	Sample #	MEF #	Volume
(1-46 above)	multi-samples	multi-MEFs	150ml
47	93-660C-47	60,064	1ml

Sample Container	Sample #	MEF #	Volume
(1-47 above)	multi-samples	multi-MEFs	150ml
48	93-660C-48	60,067	1ml

ASTM Method 5058

Test Method A - Commingled Waste Compatility
LISTED COMBUSTIBLES 1B

Sample Container	Sample #	MEF #	Volume
(1-48 above)	multi-samples	multi-MEFs	150ml
49	93-660C-49	60,110	1ml

Sample Container	Sample #	MEF #	Volume
(1-49 above)	multi-samples	multi-MEFs	150ml
50	93-660C-50	60,086	1ml

Sample Container	Sample #	MEF #	Volume
(1-50 above)	multi-samples	multi-MEFs	150ml
51	93-660C-51	10,006	1ml

Sample Container	Sample #	MEF #	Volume
(1-51 above)	multi-samples	multi-MEFs	150ml
52	93-660C-52	23	1ml

Sample Container	Sample #	MEF #	Volume
(1-52 above)	multi-samples	multi-MEFs	150ml
53	93-660C-53	385	1ml

Sample Container	Sample #	MEF #	Volume
(1-53 above)	multi-samples	multi-MEFs	150ml
54	93-660C-54	400	1ml

Sample Container	Sample #	MEF #	Volume
(1-54 above)	multi-samples	multi-MEFs	150ml
55	93-660C-55	397	1ml

ASTM Method 5058

Test Method A - Commingled Waste Compatility
LISTED COMBUSTIBLES 1B

Sample Container	Sample #	MEF #	Volume
(1-55 above)	multi-samples	multi-MEFs	150ml
56	93-660C-56	60,073	1ml

Sample Container	Sample #	MEF #	Volume
(1-56 above)	multi-samples	multi-MEFs	150ml
57	93-660C-57	379	1ml

Sample Container	Sample #	MEF #	Volume
(1-57 above)	multi-samples	multi-MEFs	150ml
58	93-660C-58	60,066	1ml

Sample Container	Sample #	MEF #	Volume
(1-58 above)	multi-samples	multi-MEFs	150ml
59	93-660C-59	20,045	1ml

Sample Container	Sample #	MEF #	Volume
(1-59 above)	multi-samples	multi-MEFs	150ml
60	93-660C-60	60,111	1ml

Sample Container	Sample #	MEF #	Volume
(1-60 above)	multi-samples	multi-MEFs	150ml
61	93-660C-61	10,035	1ml

Sample Container	Sample #	MEF #	Volume
(1-61 above)	multi-samples	multi-MEFs	150ml
62	93-660C-62	422	1ml

ASTM Method 5058

Test Method A - Commingled Waste Compatility
LISTED COMBUSTIBLES 1B

Sample Container	Sample #	MEF #	Volume
(1-62 above)	multi-samples	multi-MEFs	150ml
63	93-660C-63	60,113	1ml

Sample Container	Sample #	MEF #	Volume
(1-63 above)	multi-samples	multi-MEFs	150ml
64	93-660C-64	60,076	1ml

Summary of Commingled Waste Compatibility Test

LISTED COMBUSTILBES 1B

Note: In the following summary when no physical reaction is indicated this means as samples were mixed no mists, fumes, dusts, gases, precipitation, bubbling, foaming, solidification, spattering, or increases in viscosity occurred.

Test #1

Pretest: No reaction.

Primary Test: No physical reaction was observed, 2 layers formed.

Initial Temperature (93-660C-2): 75°F
Initial Temperature (93-660C-3): 75°F
Temperature after mixing: 75°F

Temperature difference was: 0°F

*150mL of this mixture was kept and used in the next test.

Test #2

Pretest: No reaction.

Primary Test: No reaction was observed, 3 layers formed.

Initial Temperature (93-660C-2,3): 74°F
Initial Temperature (93-660C-4): 75°F
Temperature after mixing: 74°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #3

Pretest: No reaction.

Primary Test: No reaction was observed, 2 layers formed.

Initial Temperature (93-660C-2-4): 74°F
Initial Temperature (93-660C-5): 74°F
Temperature after mixing: 74°F

Temperature difference was: 0°F

*150mL of this mixture was kept and used in the next test.

Test #4

Prestest: No reaction.

Primary Test: No reaction was observed, 1 phase of liquid.

Initial Temperature (93-660C-2-5): 74°F
Initial Temperature (933-660C-67): 75°F
Temperature after mixing: 74°F

Temperature difference was: 0°F to -1F

*150mL of this mixture was kept and used in the next test.

Test #5

Pretest: No reaction.

Primary Test: No reaction wa observed, 2 layers formed.

Initial Temperature (93-660C-2-5,67): 74°F

Initial Temperature (93-660C-7): 75°F

Temperature after mixing: 74°F

Temperature difference was: 0°F to -1°F

*150mL of this mixture was kept and used in the next test.

Test #6

Pretest: No reaction.

Primary Test: No reaction, 2 layers.

Initial Temperature (93-660C-2-5,67,7): 74°F

Initial Temperature (93-660C-8): 75°F

Temperature after mixing: 74°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #7

Pretest: No reaction.

Primary Test: No reaction, 1 phase formed.

Initial Temperature (93-660C-2-5,67,7,8): 74°F

Initial Temperature (93-660C-65): 75°F

Temperature after mixing: 74°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #8

Pretest: No reaction.

Primary Test: No reaction, 1 phase.

Initial Temperature (93-660C-2-5,67,7,8,65): 74°F

Initial Temperature (93-660C-10): 75°F

Temperature after mixing: 74°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test, in the following tests this mixture that is used in the next test will be referred to as (multiple sample #).

Test#9

Pretest: No reaction.

Primary Test: No reaction, 2 layers formed.

Initial Temperature (multiple sample #): 67°F

Initial Temperature (93-660C-11): 68°F

Temperature after mixing: 67°F

Temperature difference was: 0°F to -1°F

*150mL of this mixture was kept and used in the next test.

Test #10

Pretest: No reaction.

Primary Test: No reaction, 1 phase of liquid.

Initial Temperature (multiple sample #): 67°F

Initail Temperature (93-660C-12): 68°F

Temperature after mixing: 66°F

Temperature difference was: -1°F to -2°F.

*150mL of this mixture was kept and used in the next test.

Test #11

Pretest: No reaaction.

Primary Test: No reaction, 1 phase of liquid.

Initial Temperature (multiple sample #): 66°F

Initial Temperature (93-660C-13): 67°F

Temperature after mixing: 66°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #12

Pretest: No Reaction.

Primary Test: No reaction, 2 layers formed.

Initial Temperature (multiple sample #): 67°F

Initial Temperature (93-660C-14): 68°F

Temperature after mixing: 67°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #13

Pretest: No reaction.

Primary Test: No reaction, 2 layers.

Initial Temperature (multiple sample #): 67°F

Initial Temperature (93-660C-15): 68°F

Temperature after mixing: 67°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #14

Pretest: No reaction.

Primary Test: No reaction, 2 layers.

Initial Temperature (multiple sample #): 67°F

Initial Temperature (93-660C-16): 68°F

Temperature after mixing: 67°F

Tempereature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #15

Pretest: No reaction.

Primary Test: No reaction, 2 layers.

Initial Temperature (multiple sample #): 67°F

Initial Temperature (93-660C-17): 68°F

Temperature after mixing: 67°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #16

Pretest: No reaction.

Primary Test: No reaction, 2 layers.

Initial Temperature (multiple sample #): 67°F

Initial Temperature (93-660C-18): 68°F

Temperature after mixing: 67°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #17

Pretest: No reaction.

Primary Test: No reaction, 2 layers.

Initial Temperature (multiple sample #): 67°F

Initial Temperature (93-660C-19): 68°F

Temperature after mixing: 67°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #18

Pretest: No reaction.

Primary Test: No reaction, 2 layers.

Initial Temperature (multiple sample #): 69°F

Initial Temperature (93-660C-20): 69.5°F

Temperature after mixing: 69°F

Temperature difference was: 0°F to -.5 °F

* 150mL of this mixture was kept and used in the next test.

Test #19

Pretest: No reaction.

Primary Test: No reaction, 2 layers.

Initial Temperature (multiple sample #): 69°F

Initial Temperature (93-660C-21): 70°F

Temperature after mixing: 69°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #20

Pretest: No reaction.

Primary Test: No reaction, 2 layers.

Initial Temperature (multiple sample #):	69°F
Initial Temperature (93-660C-22):	70°F
Temperature after mixing:	69°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #21

Pretest: No reactiion.

Primary Test: No reaction, 2 layers.

Initial Temperature (multiple sample #):	69°F
Initial Temperature (93-660C-24):	70°F
Temperature after mixing:	69°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #22

Pretest: No reaction.

Primary Test: No reaction, 2 layers.

Initial Temperature (multiple sample #):	69°F
Initial Temperature (93-660C-25):	70°F
Temperature after mixing:	69°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #23

Pretest: No reaction.

Primary Test: No reaction, 2 layers.

Initial Temperature (multiple sample #):	69°F
Initial Temperature (93-660C-26):	70°F
Temperature after mixing:	69°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #24

Pretest: No reaction.

Primary Test: No reaction, 2 layers.

Initial Temperature (multiple sample #):	69°F
Initial Temperature (93-660C-27):	70°F
Temperature after mixing:	69°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #25

Pretest: No reaction.

Primary Test: No reaction, 3 layers formed.

Initial Temperature (multiple sample #): 70°F

Initial Temperature (93-660C-28): 71°F

Temperature after mixing: 70°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #26

Pretest: No reaction.

Primary Test: No reaction, 3 layers.

Initial Temperature (multiple sample #): 70°F

Initial Temperature (93-660C-29): 71°F

Temperature after mixing: 70°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #27

Pretest: No reaction.

Primary Test: No reaction, 3 layers.

Initial Temperature (multiple sample #): 70°F

Initial Temperature (93-660C-30): 71°F

Temperature after mixing: 70°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #28

Pretest: No reaction.

Primary Test: No reaction, 1st and 2nd layers not as distinguishable.

Initial Temperature (multiple sample #): 70°F

Initial Temperature (93-660C-31): 71°F

Temperature after mixing: 70°F

Temperature difference was:)°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #29

Pretest: No reaction.

Primary Test: No rection, 2 layers.

Initial Temperature (multiple sample #): 70°F

Initial Temperature (930660V-35): 71°F

Temperature after mixing: 70°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #30

Pretest: No reaction.

Primary Test: No reaction, 2 layers.

Initial Temperature (multiple sample #):	70°F
Initial Temperature (93-660C-32):	71°F
Temperature after mixing:	70°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #31

Pretest: No reaction.

Primary Test: No reaction, 2 layers.

Initial Temperature (multiple sample #):	70°F
Initial Temperature (93-660C-33):	71°F
Temperature after mixing:	70°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #32

Pretest: No reaction.

Primary Test: No reaction, 1 phase.

Initial Temperature (multiple sample #):	71°F
Initial Temperature (93-660C-34):	72°F
Temperature after mixing:	71°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #33

Pretest: No reaction.

Primary Test: No reaction, 1 phase.

Initial Temperature (multiple sample #):	69°F
Initial Temperature (93-660C-36):	70°F
Temperature after mixing:	69°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #34

Pretest: No reaction.

Primary Test: No reaction,1 phase.

Initial Temperature (multiple sample #):	69°F
Initial Temperature (93-660C-37):	70°F
Temperature after mixing:	69°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #35
Pretest: No reaction.
Primary Test: No reaction, 1 phase.
Initial Temperature (multiple sample #): 69°F
Initial Temperature (93-660C-38): 70°F
Temperature after mixing: 69°F
Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #36
Pretest: No reaction.
Primary Test: No reaction, 1 phase.
Initial Temperature (multiple sample #): 69°F
Initial Temperature (93-660C-68): 70°F
Temperature after mixing: 69°F
Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #37
Pretest: No reaction.
Primary Test: No reaction, 1 phase.
Initial Temperature (multiple sample #): 69°F
Initial Temperature (93-660C-42): 69°F
Temperature after mixing: 69°F
Temperature difference was: 0°F.

*150mL of this mixture was kept and used in the next test.

Test #38
Pretest: No reaction.
Primary Test: No reaction, 1 phase.
Initial Temperature (multiple sample #): 68°F
Initial Temperature (93-660C-43): 69°F
Temperature after mixing: 68°F
Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #39
Pretest: No reaction.
Primary Test: No reaction, 2 layers formed.
Initial Temperature (multiple sample #): 68°F
Initial Temperature (93-660C-44): 69°F
Temperature after mixing: 68°F
Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #40

Pretest: No reaction.

Primary Test: No reaction, 2 layers.

Initial Temperature (multiple sample #): 69°F

Initial Temperature (93-660C-45): 70°F

Temperature after mixing: 69°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #41

Pretest: No reaction.

Primary Test: No reaction, 2 layers.

Initial Temperature (multiple sample #): 70°F

Initial Temperature (93-660C-46): 71°F

Temperature after mixing: 70°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #42

Pretest: No reaction.

Primary Test: No reaction, 2 layers.

initial Temperature (multiple sample #): 71°F

Initial Temperature (93-660C-47): 71°F

Temperature after mixing: 71°F

Temperature difference was: 0°F.

*150mL of this mixture was kept and used in the next test.

Test #43

Pretest: No reaction.

Primary Test: No reaction, 2 layers.

Initial Temperature (multiple sample #): 71°F

Initial Temperature (93-660C-48): 72°F

Temperature after mixing: 71°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #44

Pretest: No reaction.

Primary Test: No reaction, 2 layers.

Initial Temperature (multiple sample #): 71°F

Initial Temperature (93-660C-49): 72°F

Temperature after mixing: 71°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #45
Pretest: No reaction.
Primary Test: No reaction, 2 layers.
Initial Temperature (multiple sample #): 71.5°F
Initial Temperature (93-660C-50): 72°F
Temperature after mixing: 71.5°F
Temperature difference was: 0°F to .5°F.

*150mL of this mixture was kept and used in the next test.

Test #46
Pretest: No reaction.
Primary Test: No reaction, 2 layers.
Initial Temperature (multiple sample #): 71.5°F
Initial Temperature (93-660C-51): 72°F
Temperature after mixing: 71.5°F
Temperature difference was: 0°F to -.5°F.

*150mL of this mixture was kept and used in the next test.

Test #47
Pretest: No reaction.
Primary Test: No reaction, 2 layers.
Initial Temperature (multiple sample #): 72°F
Initial Temperature (93-660C-52): 73°F
Temperature after mixing: 72°F
Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #48
Pretest: No reaction.
Primary Test: No reaction, 2 layers.
Initial Temperature (multiple sample #): 72°F
Initial Temperature (93-660C-53): 73°F
Temperature after mixing: 72°F
Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #49
Pretest: No reaction.
Primary Test: No reaction, 2 layers.
Initial Temperature (multiple sample #): 72°F
Initial Temperature (93-660C-54): 73°F
Temperature after mixing: 72°F
Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #50

Pretest: No reaction.

Primary Test: No reaction, 2 layers.

Initial Temperature (multiple sample #):	72°F
Initial Temperature (93-660C-55):	73°F
Temperature after mixing:	72°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #51

Pretest: No reaction.

Primary Test: No reaction, 2 layers.

Initial Temperature (multiple sample #):	72°F
Initial Temperature (93-660C-56):	73°F
Temperature after mixing:	72°F

Temperature difference was: 0°F to -1°.

*150mL of this mixture was kept and used in the next test.

Test #52

Pretest: No reraction.

Primary Test: No reaction,2 layers.

Initial Temperature (multiple sample #):	72°F
Initial Temperature (93-660C-57):	73°F
Temperature after mixing:	72°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #53

Pretest: No reaction.

Primary Test: No reaction, 2 layers.

Initial Temperature (multiple sample #):	72°F
Initial Temperature (93-660C-58):	73°F
Temperature after mixing:	72°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #54

Pretest: No reaction.

Primary Test: No reaction, 2 layers.

Initial Temperature (multiple sample #):	72°F
Initial Temperature (93-660C-59):	73°F
Temperature after mixing:	72°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #55

Pretest: No reaction.

Primary Test: No reaction, 2 layers.

Initial Temperature (multiple sample #): 72°F

Initial Temperature (93-660C-66): 73°F

Temperature after mixing: 72°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #56

Pretest: No reaction.

Primary Test: No reaction, 2 layers.

Initial Temperature (multiple sample #): 73°F

Initial Temperature (93-660C-60): 74°F

Temperature after mixing: 73°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #57

Pretest: No reaction.

Primary Test: No reaction, 2 layers.

Initial Temperature (multiple sample #): 73°F

Initial Temperature (93-660C-61): 74°F

Temperature after mixing: 73°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #58

Pretest: No reaction.

Primary Test: No reaction, 2 layers.

Initial Temperature (multiple sample #): 73°F

Initial Temperature (93-660C-62): 73°F

Temperature after mixing: 73°F

Temperature difference was: 0°F.

Comments: Sample containers 93-660C-1 and 93-660C-23 were not used, they were in a solid grease form.
No physical reactions were noted, no increased in temperature were recorded.

LISTED IGNITABLES 1B

Attachment A

ASTM Method 5058

Test Method A - Commingled Waste Compatibility

LISTED IGNITABLES 1B

Place the volume amount of "1" into the 500ml beaker. Then place the volume amount of "2" into the same 500ml beaker.

Test#1

Sample Container	Sample #	MEF #	Volume
1	93-660D-1	30,005	150ml
2	93-660D-2	60,057	108ml

Sample Container	Sample #	MEF #	Volume
(1&2 above)	93-660D-1 & 2	30,005&60,057	150ml
3	93-660D-3	10,026	44ml

Sample Container	Sample #	MEF #	Volume
(1-3 above)	multi-samples	multi-MEFs	150ml
4	93-660D-4	1229	23ml

Sample Container	Sample #	MEF #	Volume
(1-4 above)	multi-samples	multi-MEFs	150ml
5	93-660D-5	60,056	17ml

Sample Container	Sample #	MEF #	Volume
(1-5 above)	multi-samples	multi-MEFs	150ml
6	93-660D-6	60,119	10ml

Sample Container	Sample #	MEF #	Volume
(1-6 above)	multi-samples	multi-MEFs	150ml
7	93-660D-7	10,003	8ml

ASTM Method 5058

Test Method A - Commingled Waste Compatility
LISTED IGNITABLES 1B

Sample Container	Sample #	MEF #	Volume
(1-7 above)	multi-samples	multi-MEFs	150ml
8	93-660D-8	30,033	8ml

Sample Container	Sample #	MEF #	Volume
(1-8 above)	multi-samples	multi-MEFs	150ml
9	93-660D-9	60,058	5ml

Sample Container	Sample #	MEF #	Volume
(1-9 above)	multi-samples	multi-MEFs	150ml
10 (HB)	93-660D-10	1709	4ml

2050 -CNL -2047-
0371
#12

Sample Container	Sample #	MEF #	Volume
(1-10 above)	multi-samples	multi-MEFs	150ml
11	93-660D-11	418	2ml

Sample Container	Sample #	MEF #	Volume
(1-11 above)	multi-samples	multi-MEFs	150ml
12	93-660D-12	50,072	2ml

Sample Container	Sample #	MEF #	Volume
(1-12 above)	multi-samples	multi-MEFs	150ml
13	93-660D-13	514	1ml

Sample Container	Sample #	MEF #	Volume
(1-13 above)	multi-samples	multi-MEFs	150ml
14	93-660D-14	479	1ml

ASTM Method 5058

Test Method A - Commingled Waste Compatility
LISTED IGNITABLES 1B

Sample Container	Sample #	MEF #	Volume
(1-14 above)	multi-samples	multi-MEFs	150ml
15	93-660D-15	60,039	1ml

Sample Container	Sample #	MEF #	Volume
(1-15 above)	multi-samples	multi-MEFs	150ml
~~16~~	~~93-660D-16~~	~~419~~	~~1ml~~

Sample Container	Sample #	MEF #	Volume
(1-16 above)	multi-samples	multi-MEFs	150ml
17	93-660D-17	777	1ml

Sample Container	Sample #	MEF #	Volume
(1-17 above)	multi-samples	multi-MEFs	150ml
18	93-660D-18	60,059	1ml

Sample Container	Sample #	MEF #	Volume
(1-18 above)	multi-samples	multi-MEFs	150ml
~~19~~	~~93-660D-19~~	~~60,046~~	~~1ml~~

Sample Container	Sample #	MEF #	Volume
(1-19 above)	multi-samples	multi-MEFs	150ml
20	93-660D-20	414	1ml

Sample Container	Sample #	MEF #	Volume
(1-20 above)	multi-samples	multi-MEFs	150ml
21	93-660D-21	1412	1ml

ASTM Method 5058

Test Method A - Commingled Waste Compatility
LISTED IGNITABLES 1B

Sample Container	Sample #	MEF #	Volume
(1-21 above)	multi-samples	multi-MEFs	150ml
22	93-660D-22	50,096	1ml

Sample Container	Sample #	MEF #	Volume
(1-22 above)	multi-samples	multi-MEFs	150ml
23	93-660D-23	60,052	1ml

Sample Container	Sample #	MEF #	Volume
(1-23 above)	multi-samples	multi-MEFs	150ml
24	93-660D-24	60,041	1ml

Sample Container	Sample #	MEF #	Volume
(1-24 above)	multi-samples	multi-MEFs	150ml
25	93-660D-25	421	1ml

Sample Container	Sample #	MEF #	Volume
(1-25 above)	multi-samples	multi-MEFs	150ml
26	93-660D-26	10,009	1ml

Sample Container	Sample #	MEF #	Volume
(1-26 above)	multi-samples	multi-MEFs	150ml
27	93-660D-27	60,027	1ml

Sample Container	Sample #	MEF #	Volume
(1-27 above)	multi-samples	multi-MEFs	150ml
28	93-660D-28	60,045	1ml

ASTM Method 5058

Test Method A - Commingled Waste Compatility
LISTED IGNITABLES 1B

Sample Container	Sample #	MEF #	Volume
(1-28 above)	multi-samples	multi-MEFs	150ml
~~29~~	~~93-660D-29~~	~~50,200~~	~~1ml~~

moved
ntained
Solids

Sample Container	Sample #	MEF #	Volume
(1-29 above)	multi-samples	multi-MEFs	150ml
30	93-660D-30	10,030	1ml

Sample Container	Sample #	MEF #	Volume
(1-30 above)	multi-samples	multi-MEFs	150ml
31	93-660D-31	1998	1ml

Sample Container	Sample #	MEF #	Volume
(1-31 above)	multi-samples	~~multi-MEFs~~	~~150ml~~
~~32~~	93-660D-32	~~50,002~~	~~1ml~~

moved all
tained
Solids

Sample Container	Sample #	MEF #	Volume
(1-32 above)	multi-samples	multi-MEFs	150ml
33	93-660D-33	60,053	1ml

Sample Container	Sample #	MEF #	Volume
(1-33 above)	multi-samples	multi-MEFs	150ml
34	93-660D-34	60,124	1ml

Sample Container	Sample #	MEF #	Volume
(1-34 above)	multi-samples	multi-MEFs	150ml
35	93-660D-35	50,022	1ml

ASTM Method 5058

Test Method A - Commingled Waste Compatility
LISTED IGNITABLES 1B

Sample Container	Sample #	MEF #	Volume
(1-35 above)	multi-samples	multi-MEFs	150ml
36	93-660D-36	10,034	1ml

Summary of Commingled Waste Compatibility Test

LISTED IGNITABLES 1B

Note: In the following summary when no physical reaction is indicated this means as samples were mixed no mists, fumes, dusts, gases, spattering, bubbling, foaming, solidification, precipitation, or increase in viscosity occurred.

Test #1

Pretest: No reaction

Primary Test: No reaction, 1 phase

Initial Temperature (93-660D-01): 72°F
Initial Temperature (93-660D-02): 72°F
Temperature after mixing: 71°F

Temperature difference was: -1°.

*150mL of this mixture was kept and used in the next test.

Test #2

Pretest: No reaction.

Primary Test: No physical reaction, 1 phase.

Initial Temperature (93-660D-1,2): 68.5°F
Initial Temperature (93-660D-03): 69.5°F
Temperature after mixing: 71°F

Temperature difference was: +1.5°F to +2.5°F, slight increase in temp.

*150mL of this mixture was kept and used in the next test.

Test #3

Pretest: No reaction.

Primary Test: No reaction, 1 phase.

Initial Temperature (93-660D-1,2&3): 70°F
Initial Temperature (93-660D-04): 69.5°F
Temperature after mixing: 70°F

Temperature difference was: 0°F to +.5°F.

*150mL of this mixture was kept and used in the next test.

Test #4

Pretest: No reaction.

Primary Test: No reaction, 1 phase.

Initial Temperature (93-660D-1,2,3,&4): 69°F
Initial Temperature (93-660D-05): 69°F
Temperature after mixing: 69°F

Temperature difference was: 0°F

*150mL of this mixture was kept and used in the next test.

Test #5

Pretest: No reaction.

Primary Test: No reaction, 1 phase.

Initial Temperature (93-660D-1,2,3,4,&5):	69°F
Initial Temperature (93-660D-06):	70°F
Temperature after mixing:	69°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test. This mixture will be referred to as (multiple sample #) in the following tests.

Test #6

Pretest: No reaction.

Primary Test: No reaction, 1 phase.

Initial Temperature (93-660D-multiple sample #):	69°F
Initial Temperature (93-660D-07):	69.5F
Temperature after mixing:	69°F

Temperature difference was: 0°F to -.5°F.

*150mL of this mixture was kept and used in the next test.

Test #7

Pretest: No reaction.

Primary Test: No reaction, 1 phase.

Initial Temperature (93-660D-multiple sample #):	69°F
Initial Temperature (93-660D-08):	69.5F
Temperature after mixing:	69°F

Temperature difference was: 0°F to -.5°F.

*150mL of this mixture was kept and used in the next test.

Test #8

Pretest: No reaction.

Primary Test: Slight increase in temperature, 1 phase.

Initial Temperature (93-660D-multiple sample #):	69.5°F
Initial Temperature (93-660D-09):	68.5F
Temperature after mixing:	70°F

Temperature difference was: +.5°F to +1.5°F.

*150mL of this mixture was kept and used in the next test.

Test #9

Pretest: No reaction.

Primary Test: No reaction, 1 phase.

Initial Temperature (93-660D-multiple sample #):	66.5°F
Initial Temperature (93-660D-10):	67°F
Temperature after mixing:	66°F

Temperature difference was: -.5°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #10

Pretest: No reaction.

Primary Test: No reaction, 1 phase.

Initial Temperature (93-660D-multiple sample #):	65°F
Initial Temperature (93-660D-11):	65°F
Temperature after mixing:	64.5°F

Temperature difference was: -.5°F.

*150mL of this mixture was kept and used in the next test.

Test #11

Pretest: No reaction.

Primary Test: No reaction, 1 phase.

Initial Temperature (93-660D-multiple sample #):	64.5°F
Initial Temperature (93-660D-12):	64.5°F
Temperature after mixing:	64.5°F

Temperature difference was: 0°F.

*150mL of this mixture was kept and used in the next test.

Test #12

Pretest: No reaction.

Primary Test: No reaction, 1 phase.

Initial Temperature (93-660D-multiple sample #):	64.5°F
Initial Temperature (93-660D-13):	64.5°F
Temperature after mixing:	64.5°F

Temperature difference was: 0°F.

*150mL of this mixture was kept and used in the next test.

Test #13

Pretest: No reaction.

Primary Test: No reaction, 1 phase.

Initial Temperature (93-660D-multiple sample #):	64.5°F
Initial Temperature (93-660D-14):	64.5°F
Temperature after mixing:	64.5°F

Temperature difference was: 0°F.

*150mL of this mixture was kept and used in the next test.

Test #14

Pretest: No reaction.

Primary Test: No reaction, 1 phase.

Initial Temperature (93-660D-multiple sample #):	63.5°F
Initial Temperature (93-660D-15):	64.5°F
Temperature after mixing:	63.5°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #15

Pretest: No reaction.

Primary Test: No reaction, 1 phase.

Initial Temperature (93-660D-multiple sample #):	64°F
Initial Temperature (93-660D-17):	65°F
Temperature after mixing:	63.5°F

Temperature difference was: -.5°F to -1.5°F.

*150mL of this mixture was kept and used in the next test.

Test #16

Pretest: No reaction.

Primary Test: No reaction, 1 phase.

Initial Temperature (93-660D-multiple sample #):	64°F
Initial Temperature (93-660D-18):	65°F
Temperature after mixing:	64°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #17

Pretest: No reaction.

Primary Test: No reaction, 1 phase.

Initial Temperature (93-660D-multiple sample #):	64°F
Initial Temperature (93-660D-20):	64.5°F
Temperature after mixing:	63.5°F

Temperature difference was: .5°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #18

Pretest: No reaction.

Primary Test: No reaction, 1 phase.

Initial Temperature (93-660D-multiple sample #):	64°F
Initial Temperature (93-660D-21):	65°F
Temperature after mixing:	64°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #19

Pretest: No reaction.

Primary Test: No reaction, 1 phase.

Initial Temperature (93-660D-multiple sample #):	64°F
Initial Temperature (93-660D-22):	65°F
Temperature after mixing:	63.5°F

Temperature difference was: -.5°F to -1.5°F.

*150mL of this mixture was kept and used in the next test.

Test #20

Pretest: No reaction.

Primary Test: No reaction, 1 phase.

Initial Temperature (93-660D-multiple sample #):	64°F
Initial Temperature (93-660D-23):	65°F
Temperature after mixing:	64°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #21

Pretest: No reaction.

Primary Test: No reaction, 1 phase.

Initial Temperature (93-660D-multiple sample #):	64°F
Initial Temperature (93-660D-24):	65°F
Temperature after mixing:	64°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #22

Pretest: No reaction.

Primary Test: No reaction, 1 phase.

Initial Temperature (93-660D-multiple sample #):	66°F
Initial Temperature (93-660D-25):	67°F
Temperature after mixing:	66°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #23

Pretest: No reaction.

Primary Test: No reaction, 1 phase.

Initial Temperature (93-660D-multiple sample #):	66°F
Initial Temperature (93-660D-26):	67°F
Temperature after mixing:	65.5°F

Temperature difference was: .5°F to -1.5°F.

*150mL of this mixture was kept and used in the next test.

Test #24

Pretest: No reaction.

Primary Test: No reaction, 1 phase.

Initial Temperature (93-660D-multiple sample #):	66°F
Initial Temperature (93-660D-27):	67°F
Temperature after mixing:	66°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #25

Pretest: No reaction.

Primary Test: No reaction, 1 phase.

Initial Temperature (93-660D-multiple sample #): 66.5°F

Initial Temperature (93-660D-28): 67°F

Temperature after mixing: 66°F

Temperature difference was: .5°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #26

Pretest: No reaction.

Primary Test: No reaction, 1 phase.

Initial Temperature (93-660D-multiple sample #): 67°F

Initial Temperature (93-660D-30): 68°F

Temperature after mixing: 67°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #27

Pretest: No reaction.

Primary Test: No reaction, 1 phase.

Initial Temperature (93-660D-multiple sample #): 67°F

Initial Temperature (93-660D-33): 68°F

Temperature after mixing: 67°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #28

Pretest: No reaction.

Primary Test: No reaction, 1 phase.

Initial Temperature (93-660D-multiple sample #): 67.5°F

Initial Temperature (93-660D-34): 68.5°F

Temperature after mixing: 67°F

Temperature difference was: -.5°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #29

Pretest: No reaction.

Primary Test: No reaction, 1 phase.

Initial Temperature (93-660D-multiple sample #): 67.5°F

Initial Temperature (93-660D-31): 67°F

Temperature after mixing: 67.5°F

Temperature difference was: 0°F to +.5°F.

*150mL of this mixture was kept and used in the next test.

Test #30

Pretest: No reaction.

Primary Test: No reaction, 1 phase.

Initial Temperature (93-660D-multiple sample #):	67.5°F
Initial Temperature (93-660D-35):	68.5°F
Temperature after mixing:	67°F

Temperature difference was: -.5°F to -1.5°F.

*150mL of this mixture was kept and used in the next test.

Test #31

Pretest: No reaction.

Primary Test: No reaction, 1 phase.

Initial Temperature (93-660D-multiple sample #):	68°F
Initial Temperature (93-660D-35):	69°F
Temperature after mixing:	67.5°F

Temperature difference was: -.5°F to -1.5°F.

*150mL of this mixture was kept and used in the next test.

Comments: In Test #2 a slight increase in temperature occurred. No other reaction was noted.

The following samples were not collected and used in the Listed Ignitables 1B tests, because the drums contained only solid material:

93-660D-16
93-660D-19
93-660D-29
93-660D-32

NON LISTED

Attachment A

ASTM Method 5058

Test Method A - Commingled Waste Compatibility

NON-LISTED

Place the volume amount of "1" into the 500ml beaker. Then place the volume amount of "2" into the same 500ml beaker.

Test#1

Sample Container	Sample #	MEF #	Volume
1	93-660E-1	60,301	150ml
2	93-660E-2	~~768~~ 60331	45 ~~74~~ml

Sample Container	Sample #	MEF #	Volume
(1&2 above)	93-660E-1 & 2	60,301&768	150ml
3	93-660E-3	~~60,331~~ 50355	32 ~~30~~ml

Sample Container	Sample #	MEF #	Volume
(1-3 above)	multi-samples	multi-MEFs	150ml
~~4~~	~~93-660E-4~~	~~50,355~~ 768	~~23~~ml 26

Sample Container	Sample #	MEF #	Volume
(1-4 above)	multi-samples	multi-MEFs	150ml
~~5~~	~~93-660E-5~~	~~60,304~~	~~14~~ml 16

Sample Container	Sample #	MEF #	Volume
(1-5 above)	multi-samples	multi-MEFs	150ml
6	93-660E-6	60,035	~~12~~ml 3

18ml

Sample Container	Sample #	MEF #	Volume
(1-6 above)	multi-samples	multi-MEFs	150ml
7	93-660E-7	60,055	~~11~~ml 7

15ml

ASTM Method 5058

Test Method A - Commingled Waste Compatility

Non LISTED ~~IGNITABLES 1B~~

Removed contained all solids

Sample Container	Sample #	MEF #	Volume
(1-7 above)	multi-samples	multi-MEFs	150ml
~~8~~	~~93-660E-8~~	633	~~6ml~~

Sample Container	Sample #	MEF #	Volume
(1-8 above)	multi-samples	multi-MEFs	150ml
9	93-660E-9	1725	~~5ml~~ 7ml

Sample Container	Sample #	MEF #	Volume
(1-9 above)	multi-samples	multi-MEFs	150ml
10	93-660E-10	584	~~5~~ 6ml

Sample Container	Sample #	MEF #	Volume
(1-10 above)	multi-samples	multi-MEFs	150ml
11	93-660E-11	1432	~~3ml~~ 4ml

Sample Container	Sample #	MEF #	Volume
(1-11 above)	multi-samples	multi-MEFs	150ml
12	93-660E-12	873	3 ~~2~~ml

Removed contained all solids

Sample Container	Sample #	MEF #	Volume
(1-12 above)	multi-samples	multi-MEFs	150ml
~~13~~	~~93-660E-13~~	~~60,013~~	~~2ml~~

Sample Container	Sample #	MEF #	Volume
(1-13 above)	multi-samples	multi-MEFs	150ml
14	93-660E-14	30,045	2ml

ASTM Method 5058

Test Method A - Commingled Waste Compatility

NON - LISTED ~~IGNITABLES 1B~~

Sample Container	Sample #	MEF #	Volume
(1-14 above)	multi-samples	multi-MEFs	150ml
15	93-660E-15	425	1ml

Sample Container	Sample #	MEF #	Volume
(1-15 above)	multi-samples	multi-MEFs	150ml
16	93-660E-16	60,022	1ml

Sample Container	Sample #	MEF #	Volume
(1-16 above)	multi-samples	multi-MEFs	150ml
17	93-660E-17	393	1ml

Sample Container	Sample #	MEF #	Volume
(1-17 above)	multi-samples	multi-MEFs	150ml
18	93-660E-18	1729	1ml

Sample Container	Sample #	MEF #	Volume
(1-18 above)	multi-samples	multi-MEFs	150ml
19	93-660E-19	1728	1ml

Sample Container	Sample #	MEF #	Volume
(1-19 above)	multi-samples	multi-MEFs	150ml
20	93-660E-20	448	1ml

Sample Container	Sample #	MEF #	Volume
(1-20 above)	multi-samples	multi-MEFs	150ml
21	93-660E-21	50,346	1ml

ASTM Method 5058

Test Method A - Commingled Waste Compatility

NON - LISTED ~~IGNITABLES 1B~~

Sample Container	Sample #	MEF #	Volume
(1-21 above)	multi-samples	multi-MEFs	150ml
22	93-660E-22	457	1ml

Sample Container	Sample #	MEF #	Volume
(1-22 above)	multi-samples	multi-MEFs	150ml
23	93-660E-23	508	1ml

Sample Container	Sample #	MEF #	Volume
(1-23 above)	multi-samples	multi-MEFs	150ml
24	93-660E-24	447	1ml

Sample Container	Sample #	MEF #	Volume
(1-24 above)	multi-samples	multi-MEFs	150ml
25	93-660E-25	459	1ml

Sample Container	Sample #	MEF #	Volume
(1-25 above)	multi-samples	multi-MEFs	150ml
26	93-660E-26	50,347	1ml

Sample Container	Sample #	MEF #	Volume
(1-26 above)	multi-samples	multi-MEFs	150ml
27	93-660E-27	2006	1ml

Sample Container	Sample #	MEF #	Volume
(1-27 above)	multi-samples	multi-MEFs	150ml
28	93-660E-28	1337	1ml

ASTM Method 5058

Test Method A - Commingled Waste Compatility

NON- LISTED ~~IGNITABLES 1B~~

Sample Container	Sample #	MEF #	Volume
(1-28 above)	multi-samples	multi-MEFs	150ml
29	93-660E-29	50,204	1ml

moved contained all lids. one

Sample Container	Sample #	MEF #	Volume
~~(1-29 above)~~	multi-samples	multi-MEFs	150ml
~~30~~	~~93-660E-30~~	~~1692~~	~~1ml~~

Sample Container	Sample #	MEF #	Volume
(1-30 above)	multi-samples	multi-MEFs	150ml
31	93-660E-31	60,060	1ml

Sample Container	Sample #	MEF #	Volume
(1-31 above)	multi-samples	multi-MEFs	150ml
32	93-660E-32	638	1ml

moved contained all lids. one

Sample Container	Sample #	MEF #	Volume
~~(1-32 above)~~	multi-samples	multi-MEFs	150ml
~~33~~	~~93-660E-33~~	~~533~~	~~1ml~~

Sample Container	Sample #	MEF #	Volume
(1-33 above)	multi-samples	multi-MEFs	150ml
34	93-660E-34	587	1ml

Sample Container	Sample #	MEF #	Volume
(1-34 above)	multi-samples	multi-MEFs	150ml
35	93-660E-35	507	1ml

ASTM Method 5058

Test Method A - Commingled Waste Compatility

NON - LISTED ~~IGNITABLES 1B~~

Sample Container	Sample #	MEF #	Volume
(1-35 above)	multi-samples	multi-MEFs	150ml
36	93-660E-36	455	1ml

Sample Container	Sample #	MEF #	Volume
(1-36 above)	multi-samples	multi-MEFs	150ml
37	93-660E-37	637	1ml

Sample Container	Sample #	MEF #	Volume
(1-37 above)	multi-samples	multi-MEFs	150ml
38	93-660E-38	485	1ml

Sample Container	Sample #	MEF #	Volume
(1-38 above)	multi-samples	multi-MEFs	150ml
39	93-660E-39	870	1ml

Sample Container	Sample #	MEF #	Volume
(1-39 above)	multi-samples	multi-MEFs	150ml
40	93-660E-40	50,202	1ml

Removed contained all solids. ene

Sample Container	Sample #	MEF #	Volume
(1-40 above)	multi-samples	multi-MEFs	150ml
~~41~~	~~93-660E-41~~	50,095	~~1ml~~

Sample Container	Sample #	MEF #	Volume
(1-41 above)	multi-samples	multi-MEFs	150ml
42	93-660E-42	658	1ml

ASTM Method 5058

Test Method A - Commingled Waste Compatility

NON LISTED ~~IGNITABLES 1B~~

Sample Container	Sample #	MEF #	Volume
(1-42 above)	multi-samples	multi-MEFs	150ml
~~43~~	~~93-660E-43~~	~~30,051~~	~~1ml~~

emoved
ontained
ll solids, cru

Sample Container	Sample #	MEF #	Volume
(1-43 above)	multi-samples	multi-MEFs	150ml
~~44~~	~~93-660E-44~~	493	1ml

moved all
tained
ds. Cru

45 93-660E-45 1ml

Summary of Commingled Waste Compatibility Test

NON-LISTED WASTE

Note: In the following summary when no physical reaction is indicated this means as samples were mixed no mists, fumes, dusts, gases, spattering, foaming, solidification, precipitation, bubbling, or increases in viscosity occurred.

Test #1

Pretest: No reaction.

Primary Test: No reaction, 1 phase.

Initial Temperature (93-660E-1): 77°F
Initial Temperature (93-660E-2): 77°F
Temperature after mixing: 76°F

Temperature difference was: -1°F.

*150mL of this mixture was kept and used in the next test.

Test #2

Pretest: No reaction.

Primary Test: No reaction, 2 layers, thin black ring on top.

Initial Temperature (93-660E-1,2): 75°F
Initial Temperature (93-660E-3): 74°F
Temperature after mixing: 74°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #3

Pretest: No reaction.

Primary Test: No reaction, 2 layers, thin black ring on top.

Initial Temperature (93-660E-1,2,3): 74°F
Initial Temperature (93-660E-6): 75°F
Temperature after mixing: 74°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #4

Pretest: No reaction.

Primary Test: No reaction, 2 layers formed, dark brown on top of light brown.

Initial Temperature (93-660E-1-3,6): 74°F
Initial Temperature (93-660E-7): 74°F
Temperature after mixing: 74°F

Temperature difference was: 0°F.

*150mL of this mixture was kept and used in the next test.

Test #5

Pretest: No reaction.

Primary Test: No reaction, 2 layers.

Initial Temperature (93-660E-1-3,6,7):	72°F
Initial Temperature (93-660E-9):	73.5°F
Temperature after mixing:	72°F

Temperature difference was: 0°F to -1.5°F.

*150mL of this mixture was kept and used in the next test.

Test #6

Pretest: No reaction.

Primary Test: No reaction, 2 layers.

Initial Temperature (93-660E-1-3,6,7,9):	73.5°F
Initial Temperature (93-660E-10):	72°F
Temperature after mixing:	73°F

Temperature difference was: +1°F to -.5°F.

*150mL of this mixture was kept and used in the next test.

Test #7

Pretest: No reaction.

Primary Test: No reaction, 2 layers.

Initial Temperature (93-660E-1-3,6,7,9,10):	72.5°F
Initial Temperature (93-660E-11):	73.5°F
Temperature after mixing:	72.5°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #8

Pretest: No reaction.

Primary Test: No reaction, 2 layers.

Initial Temperature (93-660E-1-3,6,7,9,10,11):	72.5°F
Initial Temperature (93-660E-12):	73°F
Temperature after mixing:	73°F

Temperature difference was: 0°F to +.5°F.

*150mL of this mixture was kept and used in the next test.

Test #9

Pretest: No reaction.

Primary Test: No reaction, 2 layers.

Initial Temperature (93-660E-1-3,6,7,9-12):	72.5°F
Initial Temperature (93-660E-14):	73°F
Temperature after mixing:	73°F

Temperature difference was: 0°F to +.5°F.

*150mL of this mixture was kept and used in the next test. This mixture will be referred to as (multiple sample#) in the following tests.

Test #10

Pretest: No reaction.

Primary Test: No reaction, 2 layers.

Initial Temperature (multiple sample #):	72.5°F
Initial Temperature (93-660E-15):	72.5°F
Temperature after mixing:	73°F

Temperature difference was: +.5°F.

*150mL of this mixture was kept and used in the next test.

Test #11

Pretest: No reaction.

Primary Test: No reaction, 2 layers.

Initial Temperature (multiple sample #):	73°F
Initial Temperature (93-660E-16):	74°F
Temperature after mixing:	73°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #12

Pretest: No reaction.

Primary Test: No reaction, 2 layers.

Initial Temperature (multiple sample #):	73°F
Initial Temperature (93-660E-17):	73.5°F
Temperature after mixing:	73°F

Temperature difference was: 0°F to -.5°F.

*150mL of this mixture was kept and used in the next test.

Test #13

Pretest: No reaction.

Primary Test: No reaction, 2 layers.

Initial Temperature (multiple sample #): 73°F

Initial Temperature (93-660E-18): 74°F

Temperature after mixing: 73°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #14

Pretest: No reaction.

Primary Test: No reaction, 2 layers.

Initial Temperature (multiple sample #): 73°F

Initial Temperature (93-660E-45): 74°F

Temperature after mixing: 73°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #15

Pretest: No reaction.

Primary Test: No reaction, 2 layers.

Initial Temperature (multiple sample #): 73°F

Initial Temperature (93-660E-20): 74°F

Temperature after mixing: 73°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #16

Pretest: No reaction.

Primary Test: No reaction, 2 layers.

Initial Temperature (multiple sample #): 73°F

Initial Temperature (93-660E-21): 74°F

Temperature after mixing: 73°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #17

Pretest: No reaction.

Primary Test: No reaction, 2 layers.

Initial Temperature (multiple sample #): 73°F

Initial Temperature (93-660E-22): 74°F

Temperature after mixing: 73°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #18

Pretest: No reaction.

Primary Test: No reaction, 3 layers formed

Initial Temperature (multiple sample #):	73°F
Initial Temperature (93-660E-23):	74°F
Temperature after mixing:	73°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #19

Pretest: No reaction.

Primary Test: No reaction, 3 layers.

Initial Temperature (multiple sample #):	73°F
Initial Temperature (93-660E-24):	74°F
Temperature after mixing:	73°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #20

Pretest: No reaction.

Primary Test: No reaction, 3 layers.

Initial Temperature (multiple sample #):	73°F
Initial Temperature (93-660E-25):	74°F
Temperature after mixing:	73°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #21

Pretest: No reaction.

Primary Test: No reaction, 2 layers formed.

Initial Temperature (multiple sample #):	73°F
Initial Temperature (93-660E-26):	73.5°F
Temperature after mixing:	73°F

Temperature difference was: 0°F to -.5°F.

*150mL of this mixture was kept and used in the next test.

Test #22

Pretest: No reaction.

Primary Test: No reaction, 2 layers.

Initial Temperature (multiple sample #):	73.5°F
Initial Temperature (93-660E-27):	74.5°F
Temperature after mixing:	73.5°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #23

Pretest: No reaction.

Primary Test: No reaction, 2 layers.

Initial Temperature (multiple sample #):	73.5°F
Initial Temperature (93-660E-28):	74°F
Temperature after mixing:	73.5°F

Temperature difference was: 0°F to -.5°F.

*150mL of this mixture was kept and used in the next test.

Test #24

Pretest: No reaction.

Primary Test: No reaction, 2 layers.

Initial Temperature (multiple sample #):	75°F
Initial Temperature (93-660E-29):	74°F
Temperature after mixing:	74.5°F

Temperature difference was: +.5°F to -.5°F.

*150mL of this mixture was kept and used in the next test.

Test #25

Pretest: No reaction.

Primary Test: No reaction, 2 layers.

Initial Temperature (multiple sample #):	73°F
Initial Temperature (93-660E-31):	74°F
Temperature after mixing:	73°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #26

Pretest: No reaction.

Primary Test: No reaction, 3 layers formed.

Initial Temperature (multiple sample #):	68°F
Initial Temperature (93-660E-32):	66°F
Temperature after mixing:	67.5°F

Temperature difference was: +.5°F to -.5°F.

*150mL of this mixture was kept and used in the next test.

Test #27

Pretest: No reaction.

Primary Test: No reaction, 3 layers.

Initial Temperature (multiple sample #):	67.5°F
Initial Temperature (93-660E-34):	68°F
Temperature after mixing:	68°F

Temperature difference was: 0°F to +.5°F.

*150mL of this mixture was kept and used in the next test.

Test #28

Pretest: No reaction.

Primary Test: No reaction, 3 layers.

Initial Temperature (multiple sample #):	67.5°F
Initial Temperature (93-660E-35):	68°F
Temperature after mixing:	68°F

Temperature difference was: +.5°F to -.5°F.

*150mL of this mixture was kept and used in the next test.

Test #29

Pretest: No reaction.

Primary Test: No reaction, 3 layers.

Initial Temperature (multiple sample #):	67.5°F
Initial Temperature (93-660E-36):	67°F
Temperature after mixing:	67.5°F

Temperature difference was: 0°F to +.5°F.

*150mL of this mixture was kept and used in the next test.

Test #30

Pretest: No reaction.

Primary Test: No reaction, 3 layers.

Initial Temperature (multiple sample #):	67°F
Initial Temperature (93-660E-37):	68°F
Temperature after mixing:	67°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #31

Pretest: No reaction.

Primary Test: No reaction, 3 layers.

Initial Temperature (multiple sample #):	67°F
Initial Temperature (93-660E-38):	68°F
Temperature after mixing:	67°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #32

Pretest: No reaction.

Primary Test: No reaction, 3 layers.

Initial Temperature (multiple sample #):	67°F
Initial Temperature (93-660E-39):	68°F
Temperature after mixing:	67°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #33

Pretest: No reaction.

Primary Test: No reaction, 3 layers.

Initial Temperature (multiple sample #): 67°F

Initial Temperature (93-660E-40): 68°F

Temperature after mixing: 67°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Test #34

Pretest: No reaction.

Primary Test: No reaction, 3 layers.

Initial Temperature (multiple sample #): 67°F

Initial Temperature (93-660E-42): 68°F

Temperature after mixing: 67°F

Temperature difference was: 0°F to -1°F.

*150mL of this mixture was kept and used in the next test.

Comments: No physical reactions were noted or significant increases in temperature occurred in any of tests for the non-listed wastes.

The following samples were not collected due to solids in the drums:

93-660E-4	93-660E-30	93-660E-44
93-660E-5	93-660E-33	
93-660E-8	93-660E-41	
93-660E-13	93-660E-43	