BJC/PAD-288

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ENVIRONMENTAL MANAGEMENT

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MANAGEMENT AND INTEGRATION CONTRACT

Final Inventory/Characterization Report for the C-335-04 Department of Energy Material Storage Area at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky

D-17702-0145

This document has received the appropriate reviews for release to the public.

BJC/PAD-288

Final Inventory/Characterization Report for the C-335-04 Department of Energy Material Storage Area (DMSA) at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky

Date Issued – March 2002

Prepared by
WESKEM, LLC
Under subcontract 23900-BA-RMOO5F
Prepared for the
US Department of Energy
Office of Environmental Management

BECTEL JACOBS COMPANY LLC
managing the
Environmental Management Activities at the
East Tennessee Technology Park
Oak Ridge Y-12 Plant Oak Ridge National Laboratory
Paducah Gaseous Diffusion Plant Portsmouth Gaseous Diffusion Plant
Under contract DE-AC05-98OR22700
for the
U.S. DEPARTMENT OF ENERGY

CONTENTS

ACRONYMS v

EXECUTIVE SUMMARY. vii

Section 1. CHARACTERIZATION PHOTOGRAPHS

Section 2. DMSA ZONE MAP

Section 3. HP SURVEY

Section 4. HP SMEAR AND AIR SAMPLE ACTIVITY REPORT

Section 5. IH SAMPLING DATA

Section 6. SME INSPECTION

Section 7. OREIS CHARACTERIZATION REPORT

Section 8. INVENTORY AND CHARACTERIZATION REPORT

Section 9. WASTE IDENTIFIED FOR REMOVAL

Section 10. DMSA C-335-04 INVENTORY

Section 11. REUSABLE MATERIAL INVENTORY

Section 12. RFD FORMS

Section 13. REUSABLE MATERIAL FORMS

ACRONYMS

ADC	Authorized Derivative Classifier
DMSA	Department of Energy Material Storage Area
DOE	Department of Energy
EPA	Environmental Protection Agency
ft^2	Square Feet
ft^3	Cubic Feet
HP	Health Physics
IH	Industrial Hygiene
lbs	Pounds
Lc	Level Sub C
LLW	Low Level Waste
NCS	Nuclear Criticality Safety
PCB	Polychlorinated Biphenyl
PGDP	Paducah Gaseous Diffusion Plant
RCRA	Resource Conservation and Recovery Act
RFD	Request for Disposal
SAA	Satellite Accumulation Area
SME	Subject Matter Expert
TCLP	Toxicity Characteristic Leaching Procedure
TIO	Technical Information Officer
TSCA	Toxic Substances Control Act
UF_6	Uranium Hexafluoride

EXECUTIVE SUMMARY

Characterization of Department of Energy Material Storage Area **(DMSA)** C-335-04 was completed between July **30** and August 30,2001. The DMSA is located in the northwest corner of the C-335 Process Building at the Paducah Gaseous Diffusion Plant (PGDP) in Paducah, Kentucky. The DMSA occupies a floor area of **688** square feet (ft^2) and contains a mixture of process related equipment as well as other items. Thirty-three items were identified as low level waste (LLW). One group of items, which consisted of light bulbs, was identified as Resource Conservation and Recovery Act (RCRA)/Mixed waste. Two other items were identified as having potential for reuse. While the thirty-six items identified above constitute the grouping, which resulted from the characterization activity, there were many more discrete items of equipment in the DMSA. These discrete items were consolidated into like groups of equipment and given a single Request for Disposal (RFD) number and barcode inventory identification. Five B-25 boxes were used in the packaging process of these items. Container Log sheets were prepared to reflect the inventory in each B-25 box by equipment/item description. Examples of items packaged in the B-25 boxes include process valves, scrap metal, belt covers, couplings, and motor stands. Each grouping of equipment was assigned an estimated volume and weight. The total volume of this DMSA was estimated to be 1,035.53 cubic feet (ft^3) with a total estimated weight of 34,876 pounds (lbs).

RCRA/Mixed

There were seven light bulbs, which were classified as RCRA/Mixed waste and was immediately remediated. This classification was the result of process knowledge by the Subject Matter Experts (SME) and Health Physics (HP) surveys, which indicated contamination levels above free release limits. The volume of this material was 0.I ft^3 and it was placed in a 7.4 ft^3 container, which will be used for similar waste from other DMSAs.

TSCNPCB

There were no Toxic Substances Control Act (TSCA)/Polychlorinated Biphenyl (PCB) items identified in this DMSA.

Solid Waste

During the characterization activities, no solid waste was identified in this DMSA.

Low Level Waste (LLW)

LLW items found in this **DMSA** included the B-25 boxes with their contents, G-17 valves, converter parts, a control panel, waste generation containers, seal exhaust traps, a refrigeration unit, freon pump bases, hydraulic jacks, a hydraulic oil pump and its oil. During the field activities the oil was drained from the pump; both were sampled and classified as LLW. The refrigeration unit was checked and found to contain no freon. The total estimated volume was 1,0 11.43 ft^3 and the total weight was 34,075.5 lbs.

Reusable Materials

The reusable material inventory included two flanged traps. The total volume was 24 ft^3 with a total weight of 800 lbs.

Safety

There were no accidents or injuries as a result of these activities. The work included the handling of equipment with forklift trucks, working in protective clothing, handling items by hand, and moving equipment from elevated heights. Industrial Hygiene (IH) and HP personnel were in attendance during all activities inside the DMSA. Their monitoring results are included in this report. Specific plans were developed for the work and reviewed prior to work initiation. Safety was a major part of these plans. Pre and post job briefings were held at each entry into the DMSA. All personnel involved had stop work authority.

Photographs were taken to aid in documentation of the activities. These photographs are part of the permanent files. Some photographs are included in this report to aid in understanding equipment categories, RCRA/Toxic Substances Control Act (TSCA) concerns, and overall actions. These photographs are provided with descriptive headings for clarification in section one of this report.

Copies of the characterization documents are included. These documents were all reviewed to assure no release of classified material as indicated by the Authorized Derivative Classifier (ADC)/Technical Information Officer (TIO) information sheet in the front of this report.

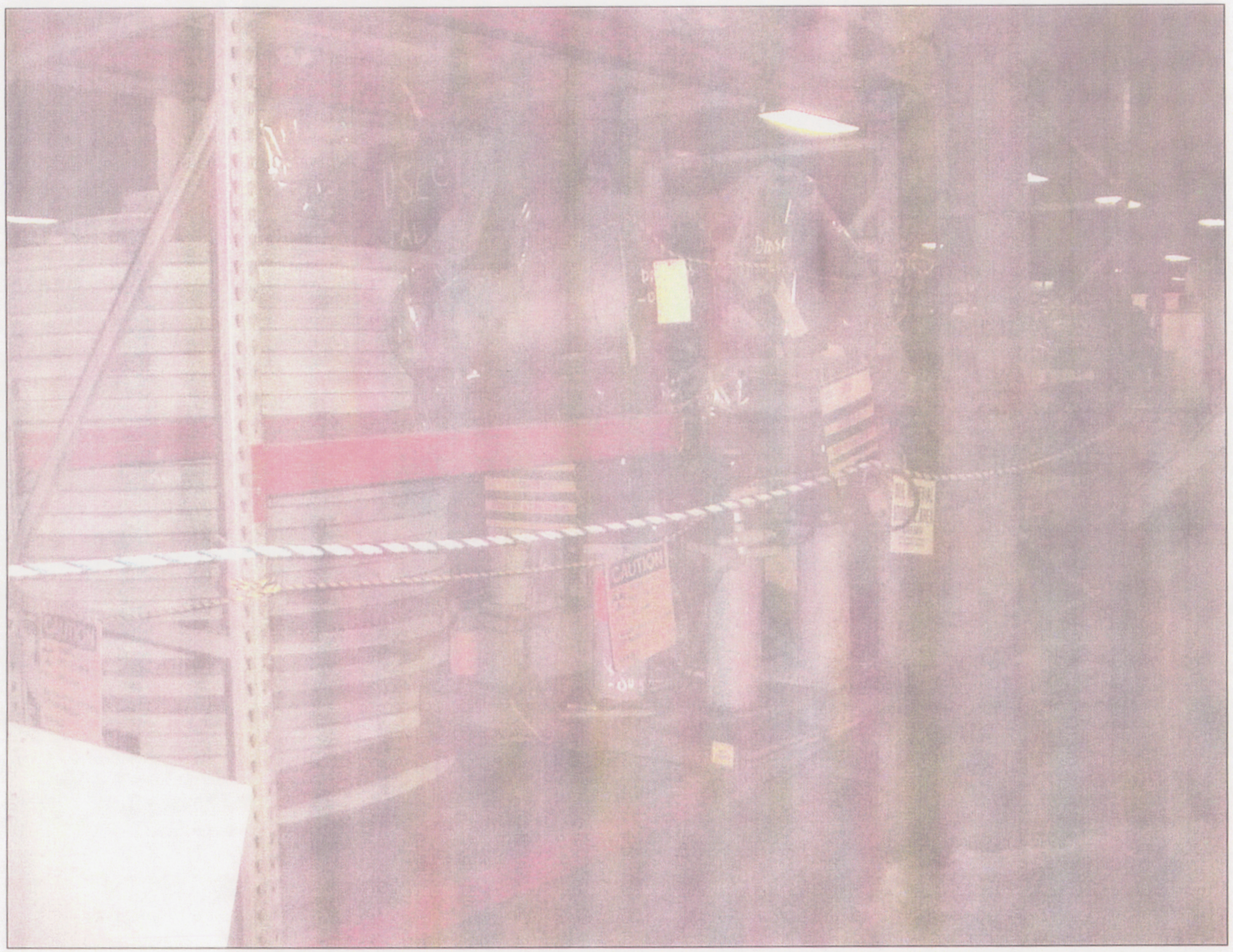
Section 1

CHARACTERIZATION PHOTOGRAPHS

DMSA **C-335-04**00 Converter Transition Pieces

DMSA C-335-04 Stove/refrigerator Unit

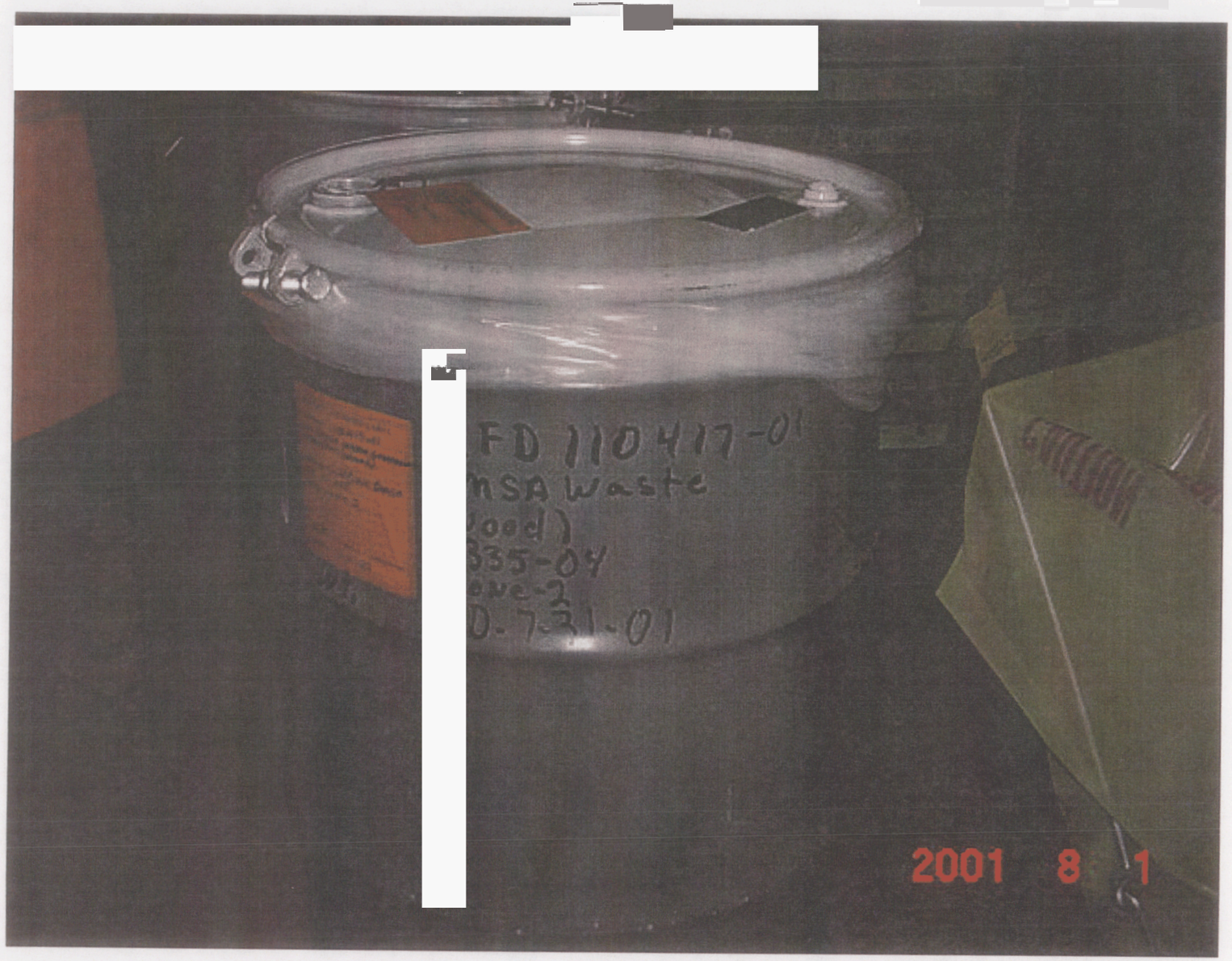
DMSA C-335-04 Hydraulic System Components & UF6 Valve Components



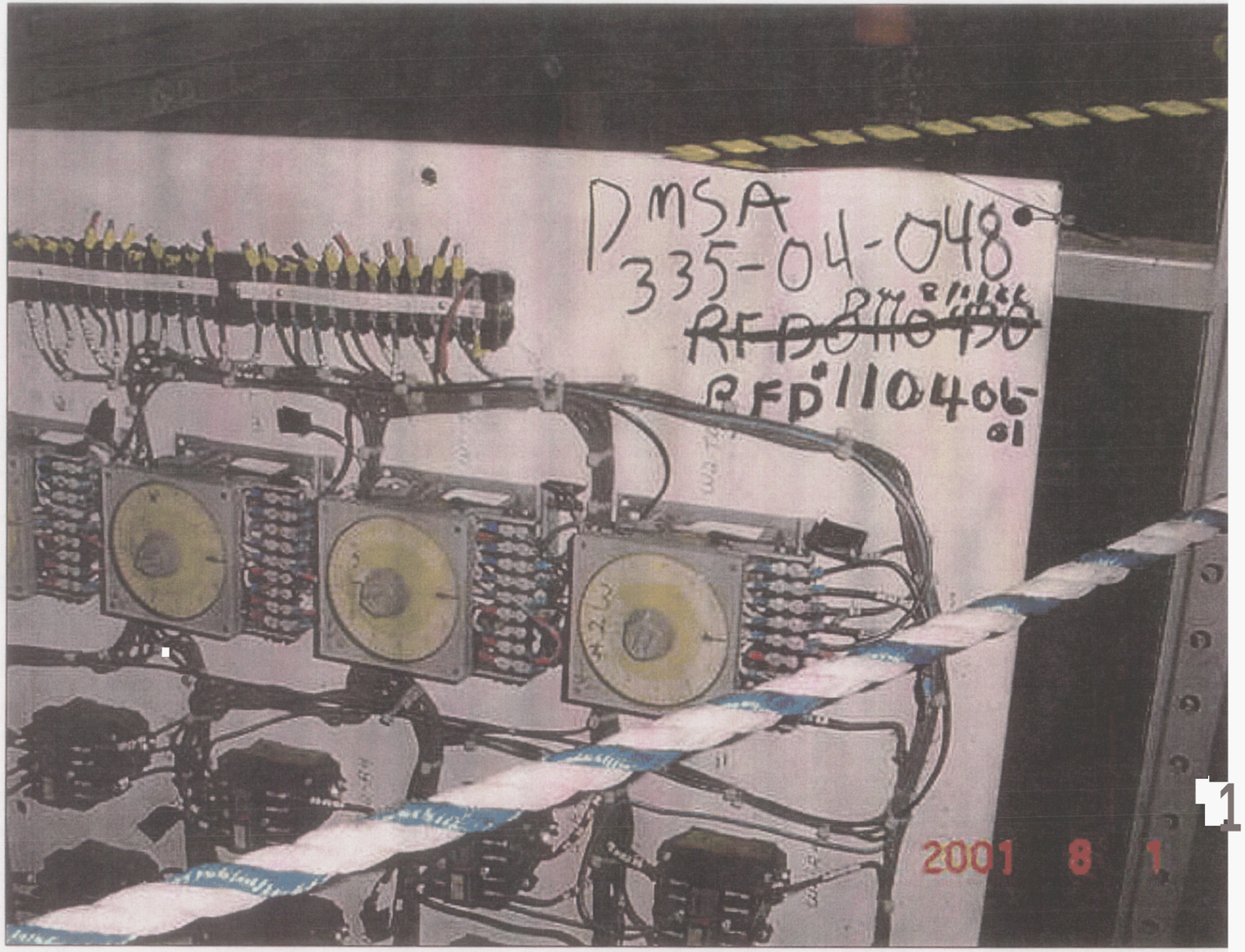
DMSA C-335-04 B-25 Box Used for Material Consolidation

DMSA C-335-04 Valves Being Consolidated into B-25 Box

DMSA C-335-04 Waste Generation Container



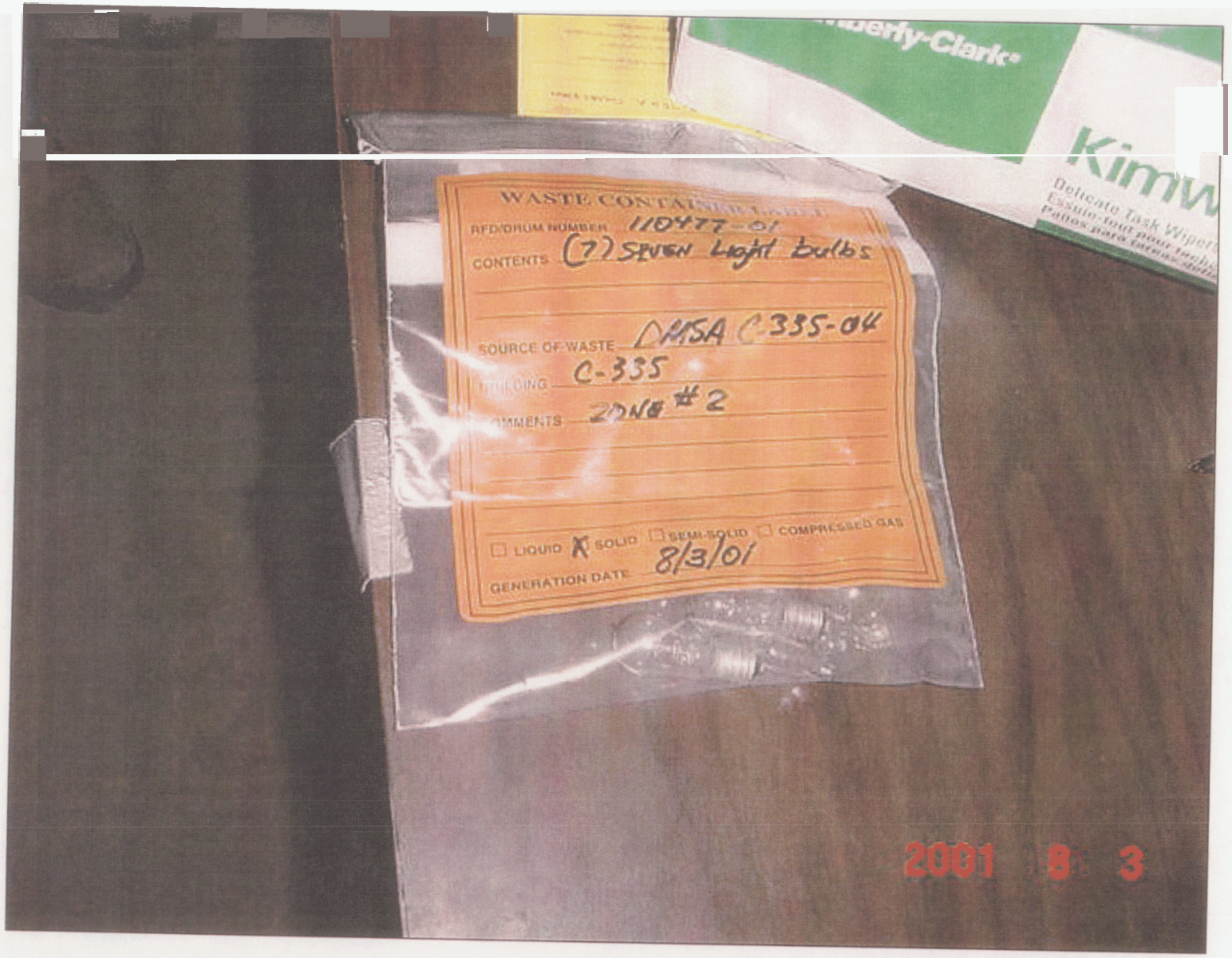
DMSA C-335-04 Control Panel Showing Wiring Layout



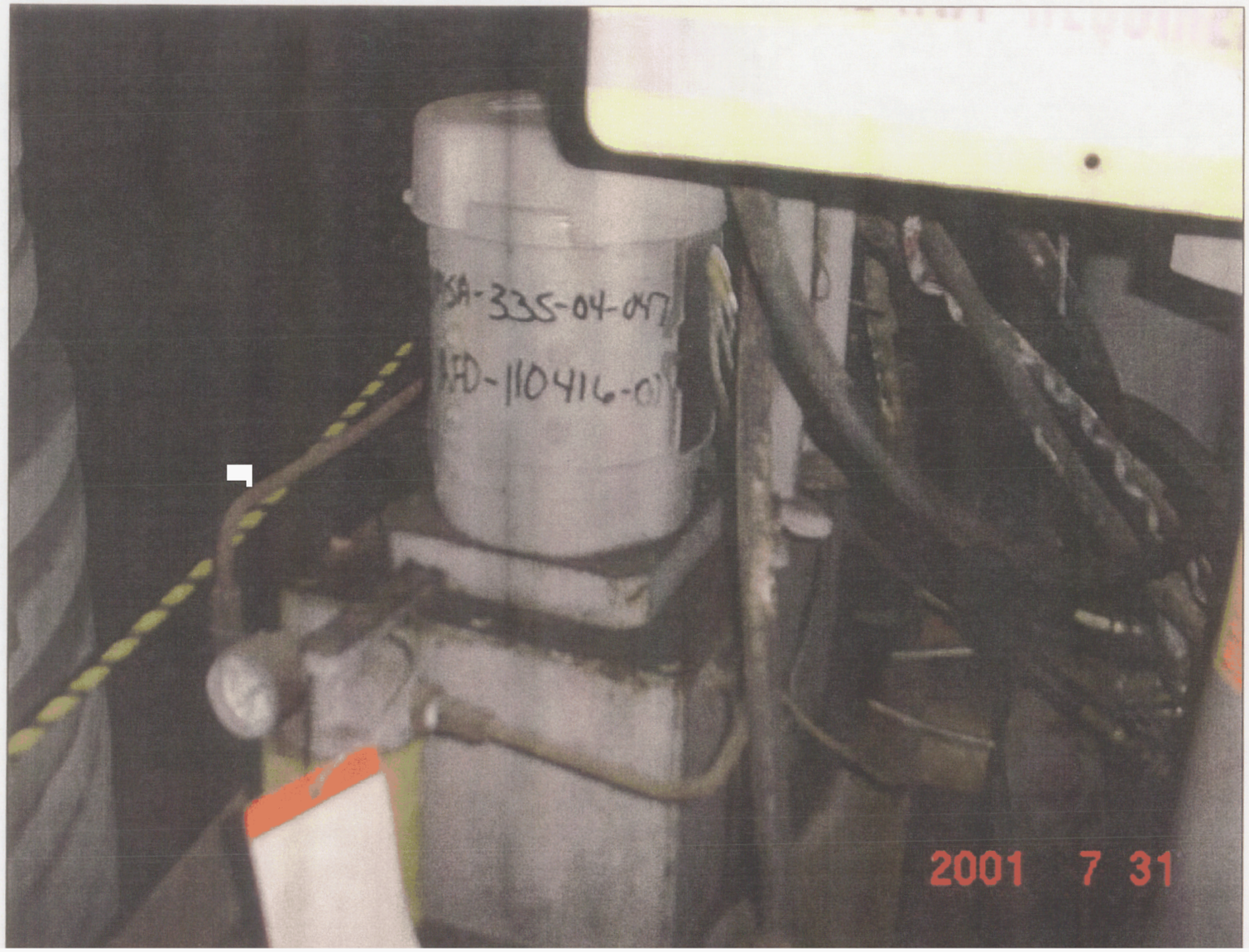
1

DMSA **C-335-04** Discovery of RCRA Waste

DMSA C-335-04 RCRA Waste Packaged for Storage

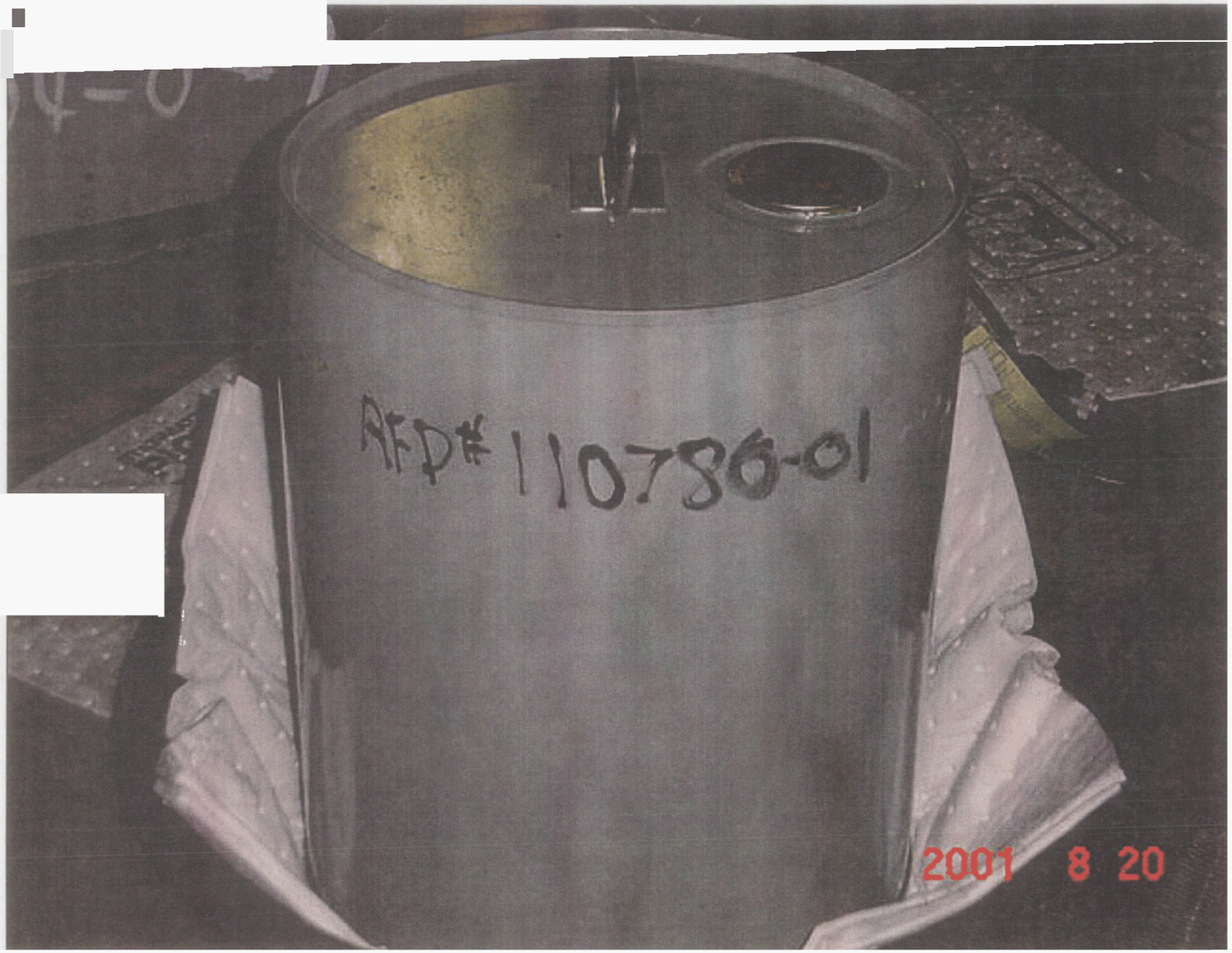


DMSA C-335-04 Hydraulic Oil Pump



DMSA **C-335-04** Hydraulic Oil **Pump** Removal

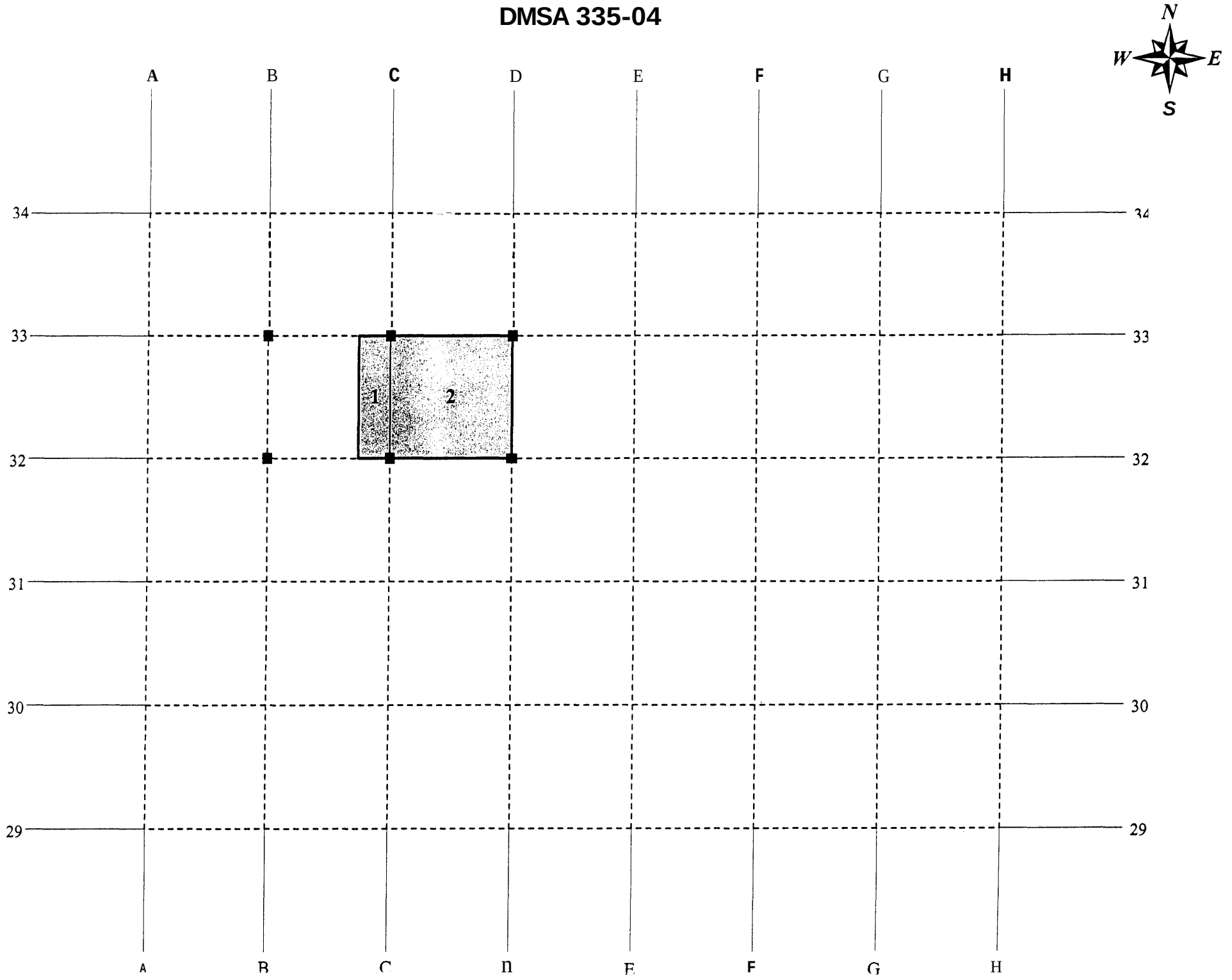
DMSA C-335-04 Hydraulic Oil Waste Container



Section 2

DMSA ZONE MAP

DMSA 335-04



Section 3

HP SURVEY

Radiological Survey Form

Survey No.: 01-ER-713-S Date: 06-05-01 Time: 10:30 RWP NO: N/A

Location of Survey – General (Site/Bldg.)/Specific (Room/Area): C-335 COL. 5-32 5MSA-04

Purpose of Survey: INITIAL ENTRY SURVEY Material Description:

Technician: JOSEPH MANSIR Badge: 617752 Technician: Matt Main Badge: 60737

Model #:	Serial #:	Cal. due date:	Probe Model #:	CF Pl.:	CF Plane:
			N	N	N
N	N	N	A	A	A
A	A	A			
			α CF: N		
			α CF: A		

Tennelec: Yes ✓ No ____ (If yes, see attached results)

Smear or Item No.	Sample Location	BKGD α / Lc	Removable α dpm/100cm²	BKGD α / Lc	Total α dpm/100cm²	BKGD β/γ / Lc	Removable β,γ dpm/100cm²	BKGD β/γ / Lc	Total β,γ dpm/100cm²	Remarks
1-20	FLOOR	* / *	*			* / *	*			SEE ATTACHED SURVEY MAP
	N		N		N		N		N	N
	A		A		A		A		A	A

COMMENTS: * SEE ATTACHED PRINTOUT FOR SMEAR RESULTS AND ALPHA/BETA BKG. + Lc'S.

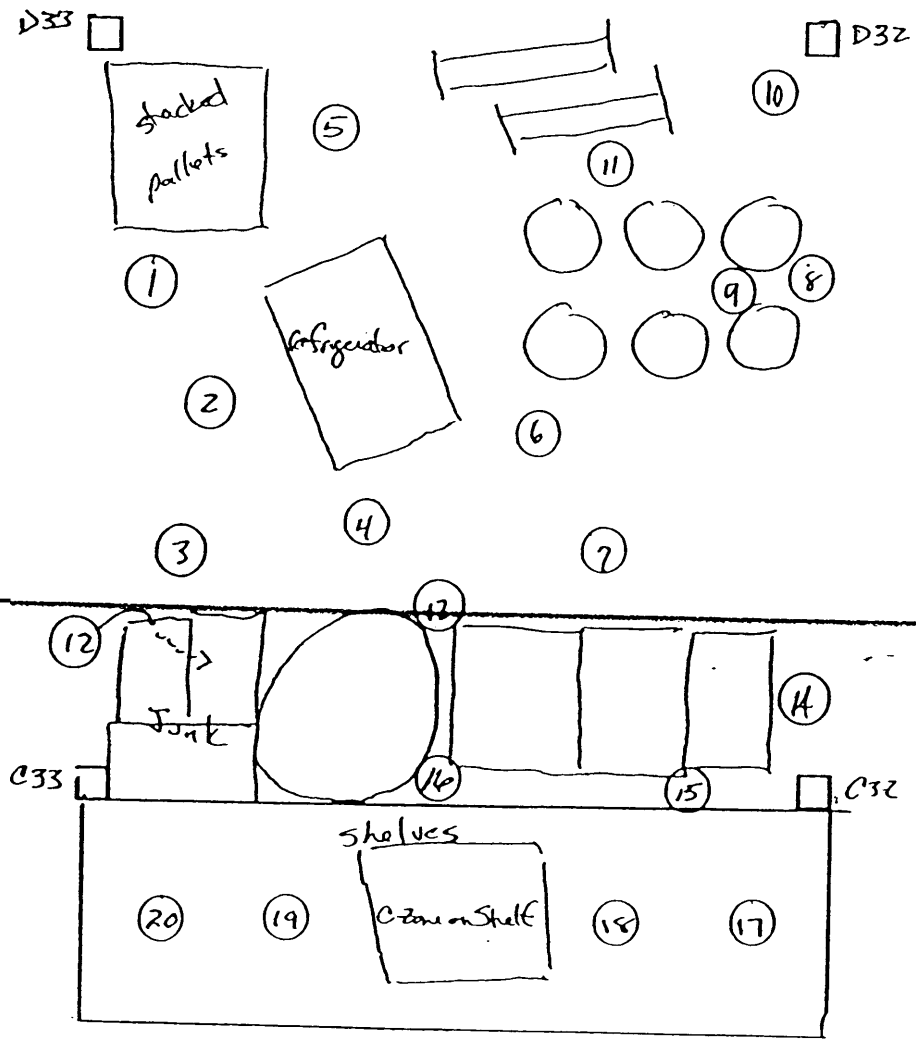
COPY

Released to: ____

HP Supervisor Review: ____ Signature/ Date

RADIATION SURVEY MAP FORM

SURVEY MAP	SURVEYNO.: 01 - E12 - 713 - S



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SEC RadCon Alliance - Paducah

2:15:20P

Survey Number 713 01-GR-~~AVR~~ KW6-501 - S

Smear and Air Sample Activity Report

6/5/01

CAL DATE: 6-22-01

Batch ID:	1 Minute Smear - 20010605 1347	**Acquisition Date:**	6/5/01
Group ID:	A **Device Serial Number:** 68676	**Acquisition Time:**	1.0
Device Name:	Tennelec Sencs 2		
Selected Geometry:	Swipe/Smear	**Operating Voltage:**	1,477.0

Efficiency Factors			Daily 30 Minute Background CPM		Batch Critical Level DPM	
Alpha Efficiency -	0.22	± 0.00	Alpha Background (CPM) -	0.27	Alpha Lc -	3.98
Beta Efficiency -	0.27	± 0.01	Beta Background (CPM) -	0.87	Beta Lc -	5.80

Sample ID	Quantity	Alpha DPM (DPM)	2σ	Alpha MDA (DPM)	Beta DPM (DPM)	2σ	Beta MDA (DPM)
20010605134754-A1	0.00	17.22	18.47	20.44	30.30	22.40	21.68
20010605134937-A2	0.00	-1.23	0.87	20.44	26.58	21.12	21.68
20010605135057-A3	0.00	3.38	9.24	20.44	37.75	24.76	21.68
20010605135217-A4	0.00	12.60	16.00	20.44	52.65	28.90	21.68
20010605135337-A5	0.00	7.99	13.07	20.44	34.03	23.61	21.68
20010605135457-A6	0.00	-1.23	0.87	20.44	37.75	24.76	21.68
20010605135617-A7	0.00	3.38	9.26	20.44	41.48	25.86	21.68
20010605135737-A8	0.00	12.60	16.00	20.44	22.85	19.76	21.68
20010605135907-A9	0.00	-1.23	0.87	20.44	37.75	24.76	21.68
20010605140027-A10	0.00	7.99	13.07	20.44	22.85	19.76	21.68
20010605140147-All	0.00	-1.23	0.87	20.44	15.40	16.71	21.68
20010605140307-A12	0.00	17.22	18.47	20.44	41.48	25.86	21.68
20010605140427-A13	0.00	35.66	26.11	20.44	75.01	34.20	21.68
20010605140547-A14	0.00	12.60	16.00	20.44	26.58	21.12	21.68
20010605140708-A15	0.00	12.60	16.00	20.44	156.97	48.97	21.68
20010605140828-A16	0.00	127.89	48.89	20.44	838.75	113.23	21.68
20010605140948-A17	0.00	17.22	18.47	20.44	71.28	33.38	21.68
20010605141118-A18	0.00	26.44	22.62	20.44	115.99	42.23	21.68
20010605141238-A19	0.00	-1.23	0.87	20.44	19.12	18.30	21.68
20010605141358-A20	0.00	3.38	9.26	20.44	37.75	24.76	21.68

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Count Room Review: [signature]

Sampling Tech Review:

Radiological Survey Form

Survey No.: 01-ER-1078-S

Date: 8-1-01 Time: 1745 RWP NO: 01-DOE-38-S

Location of Survey – General (Site/Bldg.)/Specific (Room/Area): C-335 / DMSA-04

Purpose of Survey: JOB COVERAGE / TSCA / RCRA INSPECTION Material Description: SEE SAMPLE LOCATION BELOW.

Technician: MARK TUCK / JOE MAGE / [illegible] Badge: 704925 / 617252 Technician: DANNY HAYES / MARK GARCIA / [illegible] Badge: 705193 / 705008

Model #: LUDLUM 2221	Serial #: 75476	Cal. due date: 4-3-02	Probe Model #: 43-5	CF Pt.: 7.26	CF Plane: 14.52
Model #: LUDLUM 3	Serial #: 130668	Cal. due date: 3-22-02	Probe Model #: 44-9	CF Pt.: 5.04	CF Plane: 32.48
Model #:	Serial #:	Cal. due date:	Probe Model #:	CF Pt.:	CF Plane:
Model #: N/A	Serial #: N/A	Cal. due date: N/A	Probe Model #: N/A	CF Pt.: N/A	CF Plane: N/A
Model #:	Serial #:	Cal. due date:	α CF: N/A	β/γ CF:	
Model #: BICRON RSO-5	Serial #: A794C	Cal. due date: 8-25-01	α CF:	β/γ CF: 3.67	LLD = 0.2 mrem/hr

Tennelec: Yes ____ No ____ (If yes, see attached results)

Smear or Item No.	Sample Location	BKGD α / Lc	Removable α dpm/100cm²	BKGD α / Lc	Total α dpm/100cm²	BKGD β/γ / Lc	Removable β,γ dpm/100cm²	BKGD β/γ / Lc	Total β,γ dpm/100cm²	Remarks
1-6	B-25 BOX (INSIDE) RFD-110422-01	0.6 / 13.11	< Lc	0.6 / 26.21	N/A	35 / 69.41	< Lc	35 / 447.68	N/A	DOSE RATE < LLD
7-12	B-25 BOX (OUTSIDE) RFD-110422-01	↓	↓	↓	↓	↓	↓	↓	↓	↓
13-20	DMSA-04 CA BOUNDARY (SEE MAP)	↓	↓	↓	↓	↓	↓	↓	↓	↓
21-28	DMSA-04 INSIDE CA (SEE MAP)	↓	↓	↓	↓	↓	↓	↓	↓	↓
29-34	B-25 BOX (INSIDE) RFD-110423-01	↓	↓	↓	↓	↓	↓	↓	↓	↓
						N/A				

COMMENTS: 100% SURVEY OF INSIDE OF BOX NOT COMPLETED. NOT ALL ITEMS WERE REMOVED

Released to: ____

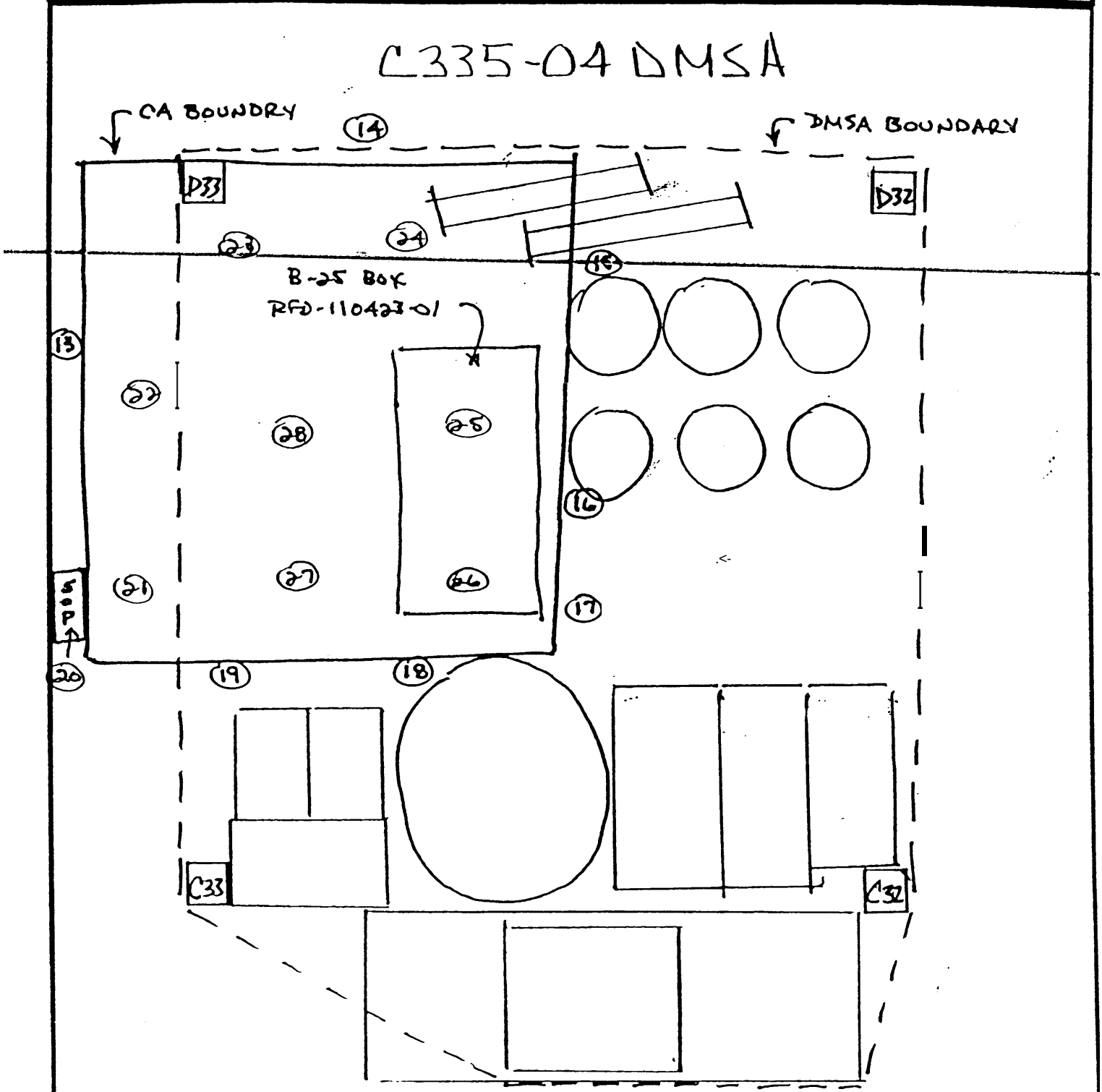
HP Supervisor Review: ____ / ____
Signature/ Date

COPY

RADIOLOGICAL SURVEY MAP FORM

SEC RADCON

SURVEY *MAP*	SURVEYNO.: 01 - GR - ____ - S



Radiological Survey Form

Survey No: 01-ER-1097-S Date: 8-2-01 Time: 1750 RWP NO: 01-DOE-38-S

Location of Survey - General (Site/Bldg.)/Specific (Room/Area): C-335 / DMSA-04

Purpose of Survey: JOB COVERAGE / TSCA / RCRA INSPECTION Material Description: SEE SAMPLE LOCATION BELOW

Technician: MARK TUCK / DAWN HAYES / [illegible] / [illegible] Badge: 704985 / 705193 Technician: JOE MANSIR / Joe Mansir Badge: 617752

Model #: LUDLUM 2221	Serial #: 84516	Cal. due date: 3-21-02	Probe Model #: 43-5	CF PL: 7.00	CF Plane: 14.00
Model #: LUDLUM 12	Serial #: 168823	Cal. due date: 3-21-02	Probe Model #: 44-9	CF PL: 4.60	CF Plane: 29.68
Model #:	Serial #:	Cal. due date:	Probe Model #: N/A	CF PL: N/A	CF Plane: N/A
Model #: N/A	Serial #: N/A	Cal. due date: N/A	Probe Model #:	CF PL:	CF Plane:
Model #:	Serial #:	Cal. due date:	α CF: N/A	β/γ CF: N/A	
Model #: BICRON RFD-5	Serial #: A794C	Cal. due date: 8-25-01	α CF:	β/γ CF: 3.67 (MAS 8-2-01)	LLD = 0.2 mrem/hr

Tennelec: Yes ____ No X (If yes, see attached results)

Smear or Item No.	Sample Location	BKGD α L	Removable α dpm/100cm²	BKGD α L	Total α dpm/100cm²	BKGD β/γ L	Removable β,γ dpm/100cm²	BKGD β/γ L	Total β,γ dpm/100cm²	Remarks
1-6	B-25 BOX (OUTSIDE) RFD-110423-01	1 / 16.31	< LC	1 / 32.61	N/A	45 / 71.93	< LC	45 / 463.94	N/A	DOSE RATE: < LLD REMOVED BOX FROM CA
7-12	B-25 BOX (INSIDE) RFD-110424-01	↓	↓	↓	↓	↓	↓	↓	↓	↓
13-18	B-25 BOX (OUTSIDE) RFD-110424-01	↓	↓	↓	↓	↓	↓	↓	↓	↓
19-24	B-25 BOX (INSIDE) RFD-110426-01	↓	↓	↓	↓	↓	↓	↓	↓	DOSE RATE: < LLD BOX STILL IN CA.
25-31	DMSA-04 CA BOUNDARY	↓	↓	↓	↓	↓	↓	↓	↓	DOSE RATE: < LLD SEE MAP ATTACHED
32	DMSA-04 SOP	↓	↓	↓	↓	↓	↓	↓	↓	↓
33-40	DMSA-04 INSIDE CA	↓	↓	↓	↓	↓	↓	↓	↓	↓
					N/A					

COMMENTS: 100% SURVEY OF INSIDE OF BOXES NOT COMPLETED. NOT ALL ITEMS WERE REMOVED FROM BOX.

Released to: N/A

HP Supervisor Review: _____ Signature/ Date

PAD/RCO-081 (Page 1 of 3) Rev. 1 (2/01)

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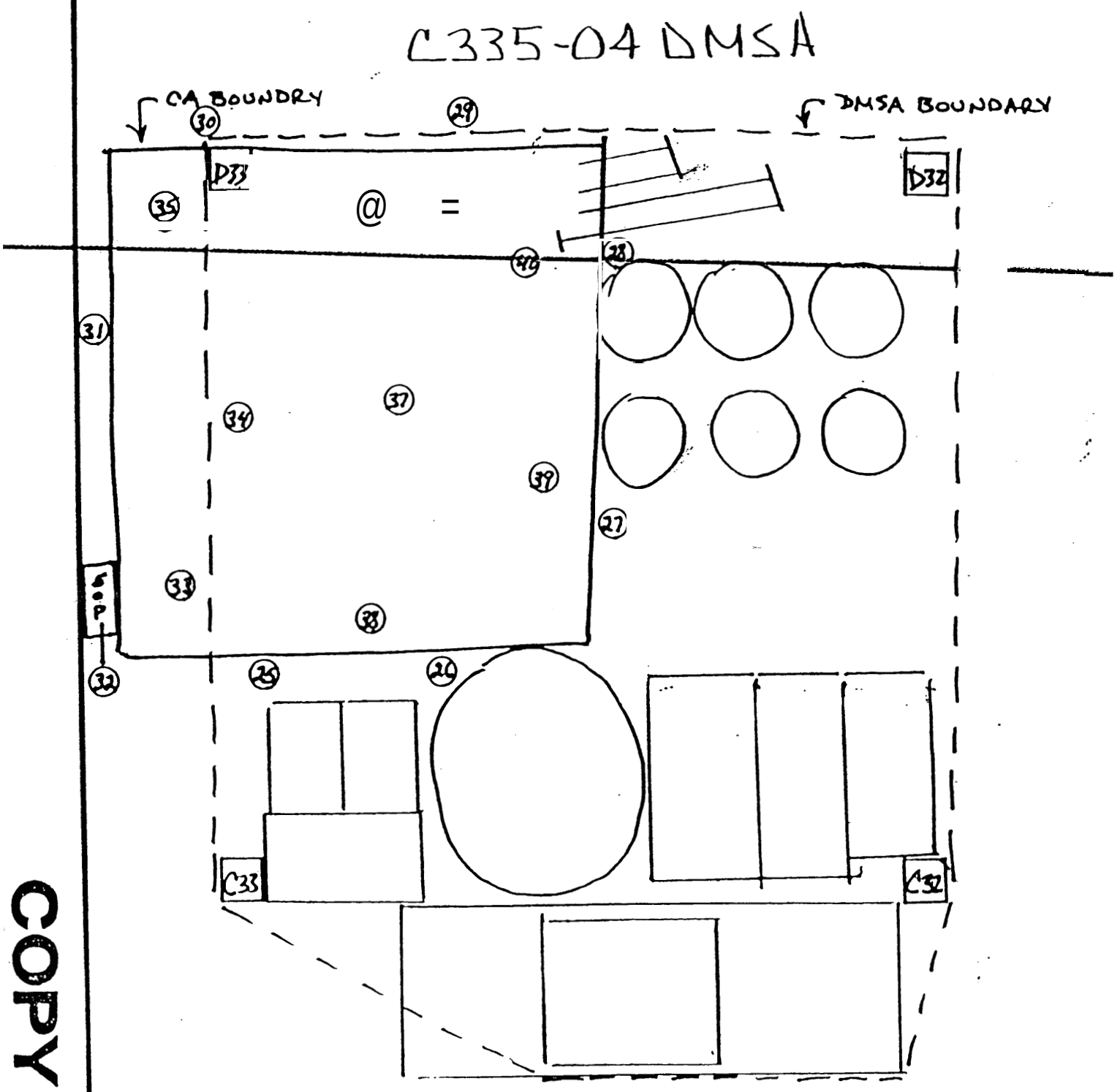
RADIOLOGICAL SURVEY MAP FORM

SEC RADCON

SURVEY MAP	SURVEYNO.: 01 - FA - 1087 - S



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Radiological Survey Form

Survey No.: 01-ER-1094-S Date: 8-3-01 Time: 1700 RWP NO: 01-DOE-38-S

Location of Survey – General (Site/Bldg.)/Specific (Room/Area): C-335 / DMSA-4

Purpose of Survey: TSCA/RCRA INSPECTION - SOB COVERAGE Material Description: SEE SAMPLE LOCATION BELOW

Technician: MARK TUCK / D Hayes / Badge: 704985 / 705193 Technician: JOE MANSIR / Badge: 617752

Model #: LUDLUM 2221	Serial #: 75476	Cal. due date: 4-3-02	Probe Model #: 43-5	CF Pl.: 7.26	CF Plane: 14.52		
Model #: LUDLUM 3	Serial #: 130668	Cal. due date: 3-22-02	Probe Model #: 44-9	CF Pl.: 5.04	CF Plane: 32.48		
Model #: N/A	Serial #: N/A	Cal. due date: N/A	Probe Model #: N/A	CF Pl.: N/A	CF Plane: N/A		
Model #: N/A	Serial #: N/A	Cal. due date: N/A	Probe Model #: N/A	CF Pl.: N/A	CF Plane: N/A		
Model #: BICRON 250-5	Serial #: A794C	Cal. due date: 8-25-01	α CF: N/A	β/γ CF: N/A			
			α CF: N/A	β/γ CF: 3.67 (MAPS 8-3-01)	LLD = 0.2 mrem/hr		

Tennelec: Yes ____ No ✓ (If yes, see attached results)

Smear or Item No.	Sample Location	BKGD α L	Removable α dpm/100cm²	BKGD α L	Total α dpm/100cm²	BKGD β/γ L	Removable β/γ dpm/100cm²	BKGD β/γ L	Total β/γ dpm/100cm²	Remarks
1-10	B-25 BOX (OUTSIDE) RFD 110426-01	0.6 / 13.11	<LC	0.6 / 26.21	N/A	40 / 74.20	<LC	40 / 478.59	N/A	< 0.2 MR/HR CONTACT
11-18	B-25 BOX (MISC. PARTS) RFD 110425-01 *									
19-28	B-25 BOX (OUTSIDE) RFD 110425-01									
29-44	CONTAMINATION AREA									DOWN GRADED POSTING FROM A CA TO A CCZ.
45-51	CA BOUNDARY									
52	SOP									
53-59	(7) INST. LIGHT BULBS RFD 110477-01				<LC				<LC	TRANSPORTED TO 752A RCRA STORAGE AREA
	N		N		N		N		N	N
										A
	A	A		A			A	A		

COMMENTS: * (100) SURVEY NOT COMPLETED. NOT ALL ITEMS WERE REMOVED FROM BOX.

Released to: N/A

HP Supervisor Review: [signature] / 8-9-2001
Signature/ Date

PAD/RCO-081 (Page 1 of 3) Rev. 1 (2/01)

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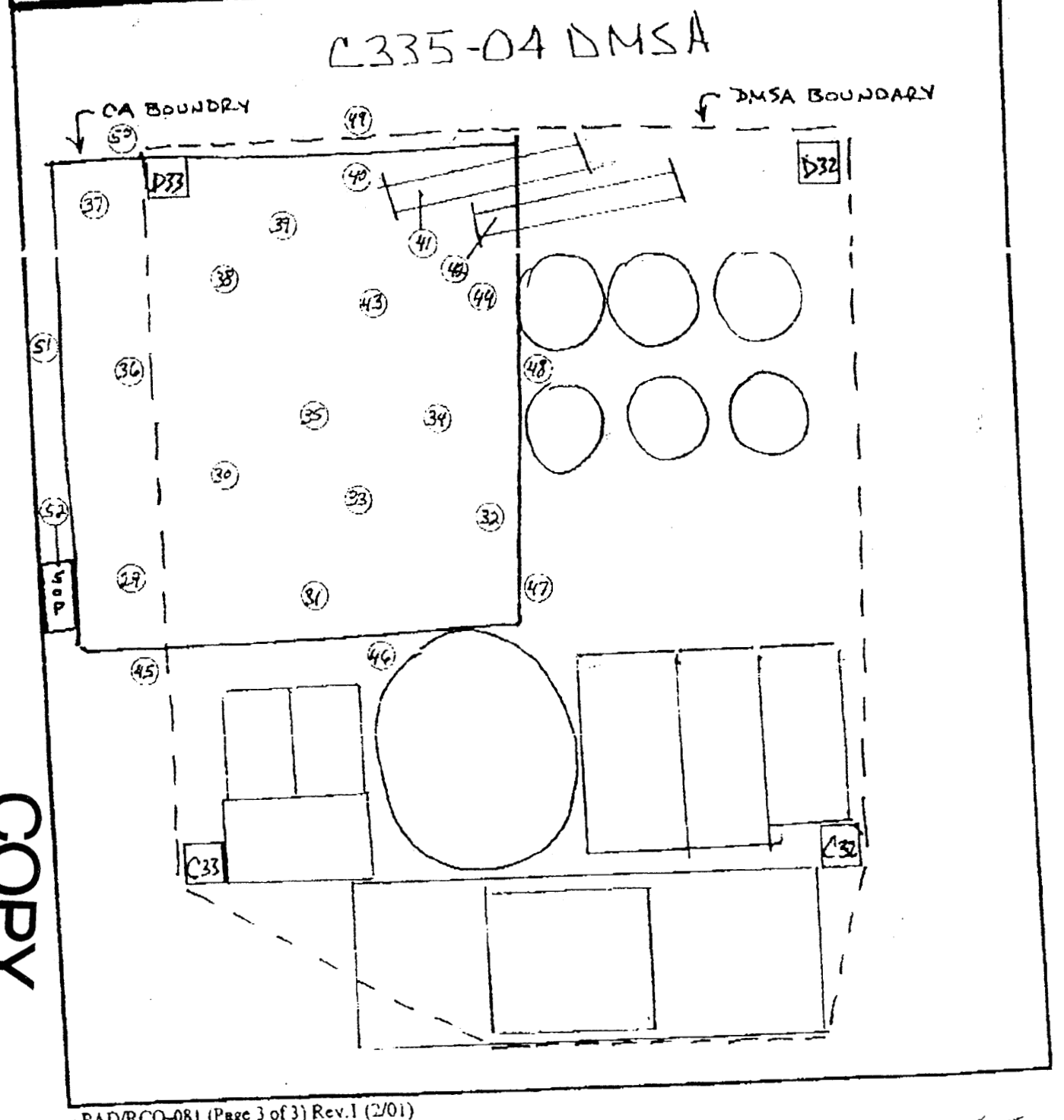
RADIOLOGICAL SURVEY MAP FORM

SEC RADCON

SURVEY MAP	SURVEY NO.: 01 - ER - 1094 - S



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Mar-04-02 07:03A SafetyBecology Corp 502 441 5182 P.08

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Radiological Survey Form

Survey No.: 01-ER-1200-5 Date: 8-20-01 Time: 1810 RWP NO: N/A

Location of Survey – General (Site/Bldg.)/Specific (Room/Area): C-335 / DMSA-04

Purpose of Survey: MOVE, TAG & DRAIN EQUIPMENT Material Description: SEE SURVEY LOCATION BELOW

Technician: MARK TUCK Badge: 704985 Technician: TOM OVERMAN Badge: 635381

Model #: LUDLUM-2221	Serial #: 75476	Cal. due date: 4-3-02	Probe Model #: 43-5	CF Pt.: 7.26	CF Plane: 14.52
Model #: LUDLUM-3	Serial #: 130668	Cal. due date: 3-22-02	Probe Model #: 44-9	CF Pt.: 5.04	CF Plane: 32.48
Model #:	Serial #:	Cal. due date:	Probe Model #:	CF Pt.:	CF Plane:
Model #: N/A	Serial #: N/A	Cal. due date: N/A	Probe Model #: N/A	CF Pt.: N/A	CF Plane: N/A
Model #:	Serial #:	Cal. due date:	α CF: N/A	βγ CF: N/A	
Model #: RO-20	Serial #: 0294	Cal. due date: 8-25-01	α CF: N/A	βγ CF: 3.22	LLD = 0.2 mrem/hr

Tennelec: Yes ____ No ✓ (If yes, see attached results)

Smear or Item No.	Sample Location	BKGD α / Lc	Removable α dpm/100cm²	BKGD α / Lc	Total α dpm/100cm²	BKGD βγ / Lc	Removable β,γ dpm/100cm²	BKGD βγ / Lc	Total β,γ dpm/100cm²	Remarks
1	HYDRAULIC JACK RFD-110412-01	2 / 23.93	<Lc	2 / 47.86	<Lc	40 / 74.20	403	40 / 478.59	8445	CONTACT DOSE RATE: <LLD
2	HYDRAULIC JACK RFD-110413-01						<LC		1949	
3	HYDRAULIC JACK RFD-110414-01						312		3248	
4	HYDRAULIC JACK RFD-110415-01						162		2631	
5	HYDRAULIC CONTROLLER RFD-110416-01						650		47907	
6	PALLET (TOP)						207		2436	
7-10	PALLET (BOTTOM)						<LC		<LC	
11-13	5 GAL BUCKET OF HYDRAULIC FLUID									
14-15	ASSORTED TOOLS									
							N/A			

COMMENTS: DRAINED FLUID FROM HYDRAULIC JACK SYSTEM. FLUID & SYSTEM STILL IN DMSA.

Released to: WESKEM

HP Supervisor Review: [signature] 8-23-2001
Signature/ Date

PAD/RCO-081 (Page 1 of 3) Rev. 1 (2101)

Radiology Corp 502 441 5182 P.11

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Radiological Survey Form

Survey No.: 01-ER-1207-5 Date: 8-21-01 Time: 1000 RWP NO: N/A

Location of Survey – General (Site/Bldg.)/Specific (Room/Area): DMSA - 335-04

Purpose of Survey: DRAIN HYDRAULIC JACK SYSTEM Material Description: SEE SAMPLE LOCATION BELOW

Technician: MARK TUCK Badge: 704985 Technician: TOM OVERMAN Badge: 655591

Model #: LUDLUM 2221	Serial #: 75476	Cal. due date: 4-3-02	Probe Model #: 43-5	CF PL: 7.26	CF Plane: 14.52
Model #: LUDLUM 12	Serial #: 168819	Cal. due date: 3-21-02	Probe Model #: 44-9	CF PL: 4.69	CF Plane: 30.24
Model #:	Serial #:	Cal. due date:	Probe Model #: N/A	CF PL: N/A	CF Plane: N/A
Model #: N/A	Serial #: N/A	Cal. due date: N/A	Probe Model #:		
Model #:	Serial #:	Cal. due date:	α CF: N/A β/γ CF: N/A		
			α CF: N/A β/γ CF: N/A		

Tennelec: Yes ____ No X (If yes, see attached results)

Smear or Item No.	Sample Location	BKGD α (L)	Removable α dpm/100cm²	BKGD α (L)	Total α dpm/100cm²	BKGD β/γ (L)	Removable β,γ dpm/100cm²	BKGD β/γ (L)	Total β,γ dpm/100cm²	Remarks
1-4	5 GAL. CONTAINER OF HYDRAULIC FLUID REF-110780-01	2 / 23.93	< LC	2 / 47.86	< LC	35 / 64.62	< LC	35 / 416.83	< LC	SURVEY OF OUTSIDE OF CONTAINER ONLY. FLUID WILL BE SAMPLED LATER
5-8	DRAIN PAN									RELEASED FROM CCZ
9	FUNNEL									
10-13	FORKLIFT WHEELS #60423									
17-18	FORKLIFT FORKS #60423									
14-16	FORK LIFT CAB #60423									
19-22	WESKEM E260 CART #10 WHEELS									
23-24	WESKEM E260 CART #10 CAB									
25-30	TRAILER ~~WHEELS~~ EXTERIOR & INTERIOR									
	N/A									

COMMENTS: SEE SURVEY # 01-ER-1200-5 FOR SURVEY OF JACK SYSTEM & PALLET.

Released to: DON WADE (WESKEM)

HP Supervisor Review: Signature/Date 8-23-2001

PAD/RCO-081 (Page 1 of 3) Rev. 1 (2/01)

Safety&Ecology Corp 302 441 3102 P.12

COPY

Radiological Survey Form

Survey No.: 01-ER-1277-S Date: 8-28-01 Time: 1300 RWPNO: NA

Location of Survey – General (Site/Bldg.)/Specific (Room/Area): L 335 - 04

Purpose of Survey: Job Coverage Material Description: Draining Oil

Technician: D Hayes Badge: 705193 Technician: na / na Badge: na

Model #: Lud 12	Serial #: 168823	Cal. due date: 3-21-02	Probe Model #: 44.9	CF Pt.: 4.60	CF Plane: 39.48
Model #: Lud 2221	Serial #: 68794	Cal. due date: 7-10-02	Probe Model #: 43-5	CF Pt.: 7.17	CF Plane: 14.35
Model #:	Serial #:	Cal. due date:	Probe Model #:	CF Pt.:	CF Plane:
Model #:	Serial #:	Cal. due date:	Probe Model #:	CF Pt.:	CF Plane:
Model #:	Serial #:	Cal. due date:	α CF:	β/γ CF:	
Model #:	Serial #:	Cal. due date:	α CF:	β/γ CF:	

Tennelec: Yes ____ No ✓ (If yes, see attached results)

Smear or Item No.	Sample Location	BKGD α / Lc	Removable α dpm/100cm²	BKGD α / Lc	Total α dpm/100cm²	BKGD β/γ / Lc	Removable β,γ dpm/100cm²	BKGD β/γ / Lc	Total β,γ dpm/100cm²	Remarks
1-5	Oil Bottles	1 / 16.71	<Lc	1 / 33.43	<Lc	39 / 67.82	<Lc	39 / 437.41	<Lc	NA
6-15	Boundary DMSA 335.04	1 / 16.71	<Lc	1 / 33.43	NA DH ~~<Lc~~ 9-4-01	39 / 67.82	<Lc	39 / 437.41	NA DH ~~<Lc~~ 9-4-01	
										NA

COMMENTS: OIL BOTTLES WERE TAGGED PRIOR TO TRANSPORTING

Released to: WESKEM

HP Supervisor Review: 9-5-2001

Signature/Date

PAD/RCO-081 (Page 1 of 3) Rev. 1 (2/01)

Radiological Survey Form

Survey No.: 01-DM-004-S Date: 9-5-01 Time: 1400 RWP NO: N/A

Location of Survey – General (Site/Bldg.)/Specific (Room/Area): DMSA - C-335-04

Purpose of Survey: HP SURVEY OF RFD # ITEMS Material Description: SEE ATTACHED RFD LIST

Technician: MARK TUCK Badge: 704985 Technician: Danny Hayes Badge: 705193

Model #: LUDLUM 2221	Serial #: 75476	Cal. due date: 4-3-02	Probe Model #: 43-5	CF Pt.: 7.26	CF Plane: 14.52		
Model #: LUDLUM 12	Serial #: 83347	Cal. due date: 6-12-02	Probe Model #: 44-9	CF Pt.: 5.20	CF Plane: 33.54		
Model #: N/A	Serial #: N/A	Cal. due date: N/A	Probe Model #: N/A	CF Pt.: N/A	CF Plane: N/A		
Model #: LUDLUM 2929	Serial #: 126141	Cal. due date: 12-22-01	α CF: 2.81	β/γ CF: 2.89			
Model #: RO-2	Serial #: 6300	Cal. due date: 12-19-01	α CF: N/A	β/γ CF: 3.6	LLD = 0.4 mrem/hr		

Tennelec: Yes X No ____ (If yes, see attached results)

Smear or Item No.	Sample Location	BKGD α / L_c	Removable α dpm/100cm²	BKGD α / L_c	Total α dpm/100cm²	BKGD β/γ / L_c	Removable β,γ dpm/100cm²	BKGD β/γ / L_c	Total β,γ dpm/100cm²	Remarks
1-2	RFD-110406	0 / 2.93	6	2 / 47.86	<Lc	80 / 60.32	<Lc	60 / 605.36	<Lc	N/A
3-4	RFD-110407	↓	8	↓	↓	↓	↓	↓	↓	↓
5	RFD-110419	2 / 23.93	51	↓	522	60 / 93.85	2600	↓	393894	4.32 mrem/hr β⁻ CONTACT
6	RFD-110420	↓	80	↓	784	↓	1586	↓	279422	2.88 mrem/hr β⁻ CONTACT
7	RFD-110421	↓	102	↓	987	↓	1237	↓	427903	4.32 mrem/hr β⁻ CONTACT
8-10	RFD-110408	0 / 2.93	<Lc	↓	<Lc	↓	<Lc	↓	<Lc	N/A
11-12	RFD-110780	↓	8	↓	↓	↓	↓	↓	↓	↓
13-14	RFD-110417	↓	<Lc	↓	↓	↓	↓	↓	↓	↓
15-16	RFD-110418	↓	↓	↓	↓	↓	↓	↓	↓	↓
17-18	RFD-110434	↓	14	↓	↓	↓	134	↓	995803	5.0 mrem/hr β⁻ CONTACT

COMMENTS: 100% SURVEY OF ITEMS NOT COMPLETED. (RFD-110419, 110420 & 110421 POSTED: CA.)

COPY

Released to: N/A

HP Supervisor Review: [signature] 9-2-2001
Signature/ Date

Radiological Survey Continuation Form

TMS 9-5-01

Survey No.: 01-DM-004-S

Smear or Item No.	Sample Location	BKGD α / Lc	Removable α dpm/100cm²	BKGD α / Lc	Total α dpm/100cm²	BKGD β/γ / Lc	Removable β/γ dpm/100cm²	BKGD β/γ / Lc	Total β/γ dpm/100cm²	Remarks
19-20	RFD-110435	0 / 2.93	14	2 / 47.86	<Lc	80 / 60.32	<Lc	60 / 605.36	299750	2.88 mrem/hr β⁻ CONTACT
21-22	RFD-110427	* / *	*	↓	↓	* / *	*	↓	<Lc	N/A
23-24	RFD-110429	↓	↓	↓	↓	↓	↓	↓	↓	↓
25-26	RFD-110428	↓	↓	↓	87	↓	↓	↓	↓	↓
27-28	RFD-110430	↓	↓	↓	<Lc	↓	↓	↓	↓	↓
29-30	RFD-110409	↓	↓	↓	↓	↓	↓	↓	2147	↓
31-32	RFD-110433	↓	↓	↓	↓	↓	↓	↓	499965	54 mrem/hr β⁻ CONTACT
33-34	RFD-110432	↓	↓	↓	↓	↓	↓	↓	99815	N/A
35-36	RFD-110431	↓	↓	↓	↓	↓	↓	↓	399750	36 mrem/hr β⁻ CONTACT
37-38	RFD-110436	↓	↓	↓	↓	↓	↓	↓	299750	36 mrem/hr β⁻ CONTACT
39-40	~~RFD~~ SMEARS NOT TAKEN. TMS 9-5-01	↓	↓	N/A / N/A	N/A	↓	↓	N/A / N/A	N/A	SMEARS NOT TAKEN.
41-42	RFD-110411	↓	↓	2 / 47.86	<Lc	↓	↓	60 / 605.36	2482	N/A
43-44	RFD-110410	↓	↓	↓	↓	↓	↓	↓	<Lc	↓
45-47	E00010	↓	↓	↓	58	↓	↓	↓	↓	↓

COMMENTS/NOTES: * SEE ATTACHED TENNELEC FORM.

COPY

Radiological Survey Continuation Form

Survey No.: 01-DM-004-5

Smear or Item No.	Sample Location	BKGD α / Lc	Removable α dpm/100cm²	BKGD α / Lc	Total α dpm/100cm²	BKGD β/γ / Lc	Removable β,γ dpm/100cm²	BKGD β/γ / Lc	Total β,γ dpm/100cm²	Remarks
48-50	E00011	* / *	*	2 / 47.86	<Lc	* / *	*	60 / 605.36	<Lc	N/A
51-56	RFD-110437	↓	↓	↓	348	↓	↓	↓	SEE REMARKS	BACKGROUND TOO HIGH FROM RFD-110419 & 110420 FOR β-γ DIRECT SURVEYS.
N/A	RFD-110422	N/A / N/A	N/A	↓	<Lc	N/A / N/A	N/A	60 / 605.36	<Lc	DIRECT SURVEYS ONLY. SURVEY TAKEN ON OUTSIDE OF B-25 BOX. SEE SURVEYS 01-ER-1078 & 1087-5
↓	RFD-110423	↓	↓	↓	↓	↓	↓	↓	↓	↓
↓	RFD-110424	↓	↓	↓	↓	↓	↓	↓	↓	↓
↓	RFD-110425	↓	↓	↓	↓	↓	↓	↓	↓	↓
↓	RFD-110426	↓	↓	↓	↓	↓	↓	↓	↓	↓
						N/A				

COMMENTS/NOTES: * SEE ATTACHED TENNELEC FORM

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SEC RadCon Alliance - Paducah 3:47:45P

Survey Number 01-DM-04-S

Smear and Air Sample Activity Report

9/5/01

Batch ID:	1 Minute Smear - 200109051458			**Acquisition Date:**	9/5/01
Group ID:	A	**Device Serial Number:**	68676	**Acquisition Time: (minutes)**	1.0
Device Name:	Tennelec Series 2				
Selected Geometry:	Swipe/Smear			**Operating Voltage: (volts)**	1,485.0

Cal due: 12/20/01

Efficiency Factors				'Daily 30 Minute Background CPM		Batch Critical Level DPM	
Alpha Efficiency -	0.23	±	0.00	**Alpha Background (CPM) -**	0.23	**Alpha Lc -**	3.57
Beta Efficiency -	0.29	±	0.01	**Beta Background (CPM) -**	1-20	**Beta Lc -**	6.42

Sample ID	Quantity	Alpha DPM (DPM)	2σ	Alpha MDA (DPM)	Beta DPM (DPM)	2σ	Beta MDA (DPM)
20010905145845-A1 21	0.00	3.39	8.88	19.11	9.81	14.09	22.32
20010905150025-A2 22	0.00	-1.03	0.78	19.11	13.31	15.74	22.32
20010905150145-A3 23	0.00	3-39	8.88	19.11	34.34	23.32	22.32
20010905150305-A4 24	0.00	12.23	15.34	19.11	48.35	27.23	22.32
20010905150426-A5 25	0.00	12-23	15.34	19.11	20.32	18.61	22.32
20010905150546-A6 26	0.00	3.39	8.88	19.11	23.82	19.89	22.32
20010905150706-A7 27	0.00	3.39	8.88	19.11	16.82	17.23	22.32
28							
29							
30							
20010905151236-A11 31	0.00	7.81	12.53	19.11	41.34	25.35	22.32
20010905151356-A12 32	0.00	16.65	17.70	19.11	72.87	33.00	22.32
20010905151516-A13 33	0.00	16-65	17.70	19.11	9.81	14.09	22.32
20010905151636-A14 34	0.00	12.23	15.34	19.11	58.86	29.84	22.32
20010905151756-A15 35	0.00	21.07	19.79	19.11	230.54	57.97	22.32
20010905151916-A16 36	0.00	21.07	19.79	19.11	184.99	51.94	22.32
20010905152036-A17 37	0.00	16.65	17.70	19.11	93.90	37.26	22.32
20010905152156-A18 38	0.00	7.81	12.53	19.11	114.92	41.09	22.32
~~20010905152326-A19 39~~	~~0.00~~	~~3.39~~	~~8.88~~	~~19.11~~	~~6.31~~	~~12.22~~	~~22.32~~
~~20010905152607-A20 40~~	~~0.00~~	~~3.39~~	~~8.88~~	~~19.11~~	~~2.80~~	~~10.01~~	~~22.32~~
20010905152717-A21 41	0.00	-1.03	0.78	19.11	23.82	19.89	22.32
20010905152727-A22 42	0.00	-1.03	0.78	19.11	16.82	17.23	22.32
20010905152847-A23 43	0.00	3.39	8.88	19.11	20.32	18.61	22.32
20010905153007-A24 44	0.00	3.39	8.88	19.11	16.82	17.23	22.32

TMJ 9.5.01

SEC RadCon Alliance - Paducah 3:47:45P

Survey Number 01-DM-04-S

Smear and Air Sample Activity Report

9/5/01

Efficiency Factors			Daily 30 Minute Background CPM		Batch Critical Level DPM	
Alpha Efficiency -	0.23	± 0.00	Alpha Background (CPM) -	0.23	Alpha Lc -	3.57
Beta Efficiency -	0.29	± 0.01	Beta Background (CPM) -	1.20	Beta Lc -	6.42

Sample ID	Quantity	Alpha DPM (DPM)	2σ	Alpha MDA (DPM)	Beta DPM (DPM)	2σ	Beta MDA (DPM)
20010905153127-A25 45	0.00	-1.03	0.78	19.11	20.32	18.61	22.32
20010905153247-A26 46	0.00	3.39	8.88	19.11	34.34	23.32	22.32
20010905153407-A27 47	0.00	3.39	8.88	19.11	98.1	14.09	22.32
20010905153527-A28 48	0.00	3.39	8.88	19.11	20.32	18.61	22.32
20010905153657-A29 49	0.00	-1.03	0.78	19.11	27.33	21.09	22.32
20010905153817-A30 50	0.00	-1.03	0.78	19.11	20.32	18.61	22.32
20010905153937-A31 51	0.00	21.07	19.79	19.11	13.31	15.74	22.32
20010905154057-A32 52	0.00	-1.03	0.78	19.11	30.83	22.23	22.32
20010905154217-A33 53	0.00	7.81	12.53	19.11	27.33	21.09	22.32
20010905154338-A34 54	0.00	7.81	12.53	19.11	44.85	26.31	22.32
20010905154614-A35 55	0.00	21.07	19.79	19.11	142.95	45.72	22.32
20010905154728-A36 56	0.00	34.34	25.03	19.11	241.05	59.28	22.32

MS 9-5*1

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Count Room Review: PIKE **Sampling Tech Review:**

Section 4

HP SMEAR AND AIR SAMPLE ACTIVITY REPORT

RECORD COPY

AIR SAMPLE CALCULATION WORKSHEET

PAGE 1 OF 3 9/7/01

SURVEY INFORMATION SAMPLING RCT NAME DANNY HAYES SIGNATURE Danny Hayes BADGE 705193

IN

SAMPLING INSTRUMENTATION

Model: ☐HD-29A ☐AVS-28A ☐MRV-1023CV ☐BuckHF ☐BuckIH ☐SKC BZA ☒TFIA ☐HVP-3800AFC ☐Basic-12 ☐VSS-12

Serial No.: 21603P Cal. Due Date: 7-20-02

MEDIA DESCRIPTION

Filter Media: ☒ What-41 – 4 inch ☐ MF ☐ What-41 – 8x10 inch ☐ AA

NOTE: 1 CFM = 28.32 LPM

COPY

		Start Flow (CFM) / LPM						

Area Posted as ARA?	Were Respirators Worn?	Respirator Type and Protection Factor? ☒ N/A	Lapel Worn By:
☐ Yes ☒ No	☐ Yes ☒ No	☐ APR (50) ☐ PAPR or Supplied Air Hood (1000) ☐ SCBA (10000) ☐ Airline or Supplied Air Full Face (2000)	Badge Number:

INSTRUMENTATION USED			Cal Due Date:	Alpha Efficiency	Beta Efficiency
☒ Tennelec (Series 2) Series 5	☐ Ludlum 2929 ☐ Berthold LB770	68676	12-21-01	0.23	0.29
INSTRUMENTATION USED		Serial#:	Cal Due Date:	Alpha Efficiency	Beta Efficiency
☐ Tennelec Series 2 / Series 5	☐ Ludlum 2929 ☐ Berthold LB770	N/A			

DATE	TIME	Type	Bkg. Time (Minutes)	Counter Lc (DPM)	Counter MDA (DPM)	Sample Count Time (Minutes)	Gross Sample (CPM)	Bkg. (CPM)	Net Sample (CPM)	Net Sample (DPM) ††	Error 2σ (DPM)
8-6-01	9:16	Alpha	30	0.38	1.36	20	0.30	0.03	0.27	1.18	1.12
		Beta	30	1.61	3.69	20	2.17	0.93	1.24	4.26	2.61
DATE	TIME	Type	Bkg Time (Minutes)	Counter Lc (DPM)	Counter MDA (DPM)	Sample Count Time (Minutes)	Gross Sample (CPM)	Bkg. (CPM)	Net Sample (CPM)	Net Sample (DPM) ††	Error 2σ (DPM)
N/A		Alpha									
		Beta									

Julie Woods

Alpha DAC (µCi/ml)	Posting Level (µCi/ml)	Concentration (µCi/ml)	Concentration (% DAC) †††
1E-11	2.5E-12	2.29E-13	2 MDC
Beta DAC (µCi/ml)	**Posting Level (µCi/ml)**	**Concentration (µCi/ml)**	**Concentration (% DAC) †††**
6 E-08	1.5 E-08	5.79E-13	9.64E-4

Alpha MDC (µCi/ml) = 2.64E-13 Beta MDC (µCi/ml) = 5.01E-13

†† Send samples 100 DPM Alpha to the laboratory for isotopic analysis.

††† Notify Operations Support Manager or designee when 10% of DAC is exceeded.

• ☐ See Air Sample Calculation Worksheet Conrinuarion Form.

Reviewed By: [illegible] Date: 8-10-01 Data Entry [illegible]

41

SEC RadCon Alliance - Paducah

Smear and Air Sample Activity Report

8/6/01

Survey Number 01-ER-1125-A

Batch ID:	20 Minute Air Samples - 200108060814			**Acquisition Date:**	8/6/01
Group ID:	D	**Device Serial Number:**	68676	**Acquisition Time: (minutes)**	20.0
Device Name:	Tennelec Series 2				
Selected Geometry:	Swipe/Smear	12-21-01		**Operating Voltage: (volt)**	1,485.0

Efficiency Factors			Daily 30 Minute Background CPM		Batch Critical Level DPM	
Alpha Efficiency -	0.23	± 0.00	**Alpha Background (CPM) -**	0.03	**Alpha Lc -**	0.38
Bet3 Efficiency -	0.29	± 0.01	**Beta Background (CPM) -**	0.93	**Reta Lc -**	**1.61**

Sample ID	Quantity	Alpha DPM (DPM)	2σ	Alpha MDA (DPM)	Beta DPM (DPM)	2σ	Beta MDA (DPM)
20010806081459-D4	0.00	**1.18**	**1.12**	1.36	4.26	2.61	3.69

COPY

Count Room Review: Kris Wurlof

Sampling Tech Reviov: NA

HI VOLS AIR SAMPLE CALCULATIONS

Survey Number	01-ER-1125-A
Start Date/Time	8/1/01 14:16
End Date/Time	8/1/01 14:41
	70/00 0:25

Days Elapsed	0	0
Hours Elapsed	0	0
Minutes Elapsed	25	25
Total Minutes		25

Activity in dpm-Alpha	1.18
Activity in dpm-Beta	4.26
Volume in L	12,036.00
Volume in mL	12,036,000.00

Alpha Activity by 4.74E-7	5.5932E-07
arV (.7)(.29)(Volume in mL)	2443308.00

Beta Activity by 4.74E-7	2.01924E-06
arV (1)(.29)(Volume in mL)	3490440.00

Stan Flow CFM	17
Stop Flow CFM	17
Average Flow	481.44
Total Volume Air (L)	12,036.00

Alpha Concentration in microCi/mL	2.29E-13
% 2e-11	1.14E+00

Beta Concentration in microCi/mL	5.79E-13
% 6E-8 (Based on TH-234)	9.64E-04
For a Different Percent DAC Enter DAC Value Below	
6.00E-08	9.64E-04

Use This for Calculating Minimum Detectible Concentration in MicroCi/mL

Enter Alpha MDA	1.361
Alpha MDA*4.74E-7	6.4464E-07
arV (.7)(.29)(Vol. in mL)	2443308
Alpha MDC in microCi/mL	2.64E-13

Enter Beta MDA	3.69
Beta MDA*4.74E-7	1.74906E-06
arV (1)(.29)(Vol. in mL)	3490440
Beta MDC in microCi/mL	5.01E-13

NOTES;

DATA TO BE ENTERED GOES IN

RESULTS ARE DISPLAYED IN

Printed Name: Julie Woods

Signature/Date: Julie Woods 8/8/01

COPY

AIR SAMPLE CALCULATION WORKSHEET

PAGE 1 OF 3

SURVEY INFORMATION SAMPLING RCT NAME M Garcia SIGNATURE M Garcia BADGE 705008

S1 CA BETO

SAMPLING INSTRUMENTATION

Model: ☐HD-29A ☐AVS-28A ☐MRV-1023CV ☐BuckHF ☐BuckIH ☐SKC BZA ☒TFIA ☐HVP-3800AFC ☐Basic-12 ☐VSS-12

Serial No.: 21603 P Cal. Due Date: 7-20-02

MEDIA DESCRIPTION

Filter Media: ☒ What-41 – 4 inch ☐ MF ☐ What4 – 8x10 inch ☐ AA

NOTE: 1 CFM = 28.32 LPM

COPY

Start Date	Start Time	Start Flow (CFM/LPM)	Stop Date	Stop Time	Stop Flow (CFM/LPM)	Flow Duration (Minutes) †	Average Flow Rate (LPM)	Total Air Volume (L)
8-1-01	1730	18	8-1-01	1755	18	25	509.76	12744.00

Area Posted as ARA?	Were Respirators Worn?	Respirator Type and Protection Factor? ☒ N/A	
☐ Yes ☒ No	☐ Yes ☒ No	☐ APR (50) ☐ PAPR or Supplied Air Hood (1000) ☐ SCBA (10000) ☐ Airline or Supplied Air Full Face (2000)	Lapel Worn By: N/A Badge Number:

LABORATORY INFORMATION LAB RCT NAME Tiffany VanCleve SIGNATURE Tiffany VanCleve BADGE 704645

INSTRUMENT-TION USED		Serial #:	Cal Due Date:	Alpha Efficiency	Beta Efficiency
☒ Tennelec Series 2 / Series 5	☐ Ludlum 2929 ☐ Berthold LB770	68676	12-21-01	0.23	0.29
INSTRUMENTATION USED			Cal Due Date:	Alpha Efficiency	Beta Efficiency
☐ Tennelec Series 2 / Series 5	☐ Ludlum 2929 ☐ Berthold LB770	N/A			

ANALYSIS INFORMATION

DATE	TIME	Type	Bkg. Time (Minutes)	Counter Lc (DPM)	Counter MDA (DPM)	Sample Count Time (Minutes)	Gross Sample (CPM)	Bkg. (CPM)	Net Sample (CPM)	Net Sample (DPM) ††	Error 2σ (DPM)
8-6-01	10:37	Alpha	30	0.38	1.36	20	0.45	0.03	0.42	1.84	1.36
		Beta	30	1.61	3.69	20	2.62	0.93	1.69	5.84	2.82
DATE	TIME	Type	Bkg. Time (Minutes)	Counter Lc (DPM)	Counter MDA (DPM)	Sample Count Time (Minutes)	Gross Sample (CPM)	Bkg. (CPM)	Net Sample (CPM)	Net Sample (DPM) ††	Error 2σ (DPM)
N/A		Alpha									
		Beta									

ANALYSIS RESULTS CALCULATED BY: NAME Julie Woods SIGNATURE Julie Woods BADGE 703511

Alpha DAC (µCi/ml)	Posting Level (µCi/ml)	Concentration (µCi/ml)	Concentration (% DAC) †††
1E-11	2.5E-12	3.37E-13	3.37
Beta DAC (µCi/ml)	**Posting Level (µCi/ml)**	**Concentration (µCi/ml)**	**Concentration (% DAC) †††**
6 E-08	1.5 E-08	7.49E-13	1.25E-3

† ☐ (Lapels Only) Sample did not run for minimum time of 120 minutes. Detector MDA @ this run time may exceed 10% of DAC.

Alpha MDC (µCi/ml) = 2.49E-13 Beta MDC (µCi/ml) = 4.73E-13

†† Send samples > 100 DPM Alpha to the laboratory for isotopic analysis.

††† Notify Operations Support Manager or designee when 10% of DAC is exceeded.

• ☐ See Air Sample Calculation Worksheet Continuation form.

Reviewed By: L.C. Hider Date: 8-10-01 Data Entry LR 8-15

H 8

SEC RadCon Alliance - Paducah 10:57:55A

Survey Number 01-EK-1130-A

Smear and Air Sample Activity Report

8/6/01

Batch ID:	20 Minute Air Samples - 20010806081 5	**Acquisition Date:**	**8/6/01**
Group ID:	H **Device Serial Number:** 68676	**Acquisition Time: (minutes)**	20.0
Device Name:	Tennelec Series 2		
Selected Geometry:	Swipe/Smear 12-21-01	**Operating Voltage: (volts)**	1,485.0

Efficiency Factors			Daily-30 Minute Background CPM		~~Batch~~ Critical Level DPM	
Alpha Efficiency -	0.23	+ 0.00	**Alpha Background (CPM) -**	0.03	**Alpha Lc -**	0.38
Beta Efficiency -	0.29	± 0.01	**Beta Background (CPM) -**	0.93	**Beta Lc -**	**1.61**

Sample ID	Quantity	Alpha DPM (DPM)	2σ	Alpha MDA (DPM)	Beta DPM (DPM)	2σ	Beta MDA (DPM)
20010806081535-H8	0.00	**1.54**	1.36	1.36	**5.84**	**2.82**	3.69

COPY

Count Room Review: [signature]

Sampling Tech Review: NA

HI VOLS AIR SAMPLE CALCULATIONS

Survey Number	01-ER-1130-A
Start Date/Time	8/1/01 17:30
End Date/Time	8/1/01 17:55
	1/0/00 0:25

Days Elapsed	0	0
Hours Elapsed	0	0
Minutes Elapsed	25	25
Total Minutes		25

Start Flow CFM	18
Stop Flow CFM	18
Average flow	509.76
Total Volume Air (L)	12,744.00

COPY

Activity in dpm-Alpha	1.84
Activity in dpm-Beta	5.84
Volume in L	12,744.00
Volume in mL	12,744,000.00

Alpha Activity by 4.74E-7	8.7216E-07
arV (.7)(.29)(Volume in mL)	2587032.00

Beta Activity by 4.74E-7	2.76816E-06
arV (1)(.29)(Volume in mL)	3695760.00

Alpha Concentration in microCi/mL	3.37E-13
% 2e-12 (Eased on Np-237)	1.69E+01
% 2e-11	1.69E+00
% 8e-11	4.21E-01
For a Different Percent DAC Enter DAC Value Below	
1.00E-11	3.37E+00

Beta Concentration in microCi/mL	7.49E-13
6E-8 (Based on TH-234)	1.25E-03
For a Different Percent DAC Enter DAC Value Below	
6.00E-08	1.25E-03

Use This for Calculating Minimum Detectible Concentration in MicroCi/mL

Enter Alpha MDA	1.36
Alpha MDA*4.74E-7	6.4464E-07
arV (.7)(.29)(Vol. In mL)	2587032
Alpha MDC in microCi/mL	2.49E-13

Enter Beta MDA	3.69
Beta MDA*4.74E-7	1.74906E-06
arV (1)(.29)(Vol. In mL)	3695760
Beta MDC in microCi/mL	4.73E-13

NOTES:

DATA TO BE ENTERED GOES IN

RESULTS ARE DISPLAYED IN

Printed Name: Julie Woods	
Signature/Date: Julie Woods	8/8/01

SURVEY INFORMATION

SAMPLING INSTRUMENTATION

Model ☐HD-29A ☐AVS-28A ☐MRV-1023CV ☐BuckHF ☒BuckIH ☐SKC BZA ☐TFIA ☐HVP-3800AFC ☐Basic-12 ☐VSS-12

Serial No 29241 Cal Due Date 8-11-01

MEDIA DESCRIPTION

Filter Media ☐ What-41 – 4 inch ☒ MF ☐ What-41 – 8x10 inch ☐ AA

NOTE 1 CFM = 28.32 LPM

COPY

Start Date	Start Time	Start Flow CFM / LPM	Stop Date	Stop Time	Stop Flow CFM / LPM	Flow Duration (Minutes) †	Average flow Rate (LPM)	Total Air Volume (L)
*	*	*	*	*	*	*	*	259.612

Area Posted as ARA?	Were Respirators Worn?	Respirator Type and Protection Factor? ☒N/A	
☐ Yes ☒ No	☐ Yes ☒ No	☐ APR (50) ☐ PAPR or Supplied Air Hood (1000) ☐ SCBA (10000) ☐ Airline or Supplied As Full Face (2000)	Lapel Worn By: * Badge Number: *

Tiffany VanCleve

INSTRUMENTATION USED		Serial #:	Cal Due Date	Alpha Efficiency	Beta Efficiency
☐Tennelec Series 2 / Series 5	☒ Ludlum 2929 ☐ Berthold LB770	142653	1-30-02	.3658	.3725
INSTRUMENTATION USED		Serial #:	Cal Due Date.	Alpha Efficiency	Beta Efficiency
☐Tennelec Series 2 / Series 5	☐ Ludlum 2929 ☐ Berthold LB770	N/A			

DATE											
8/7/01	0 / 0:310						0.37				0.24
	TIME										
N/A		Alpha									
		Beta									

ANALYSIS RESULTS CALCULATED BY: NAME Julie Woods SIGNATURE Julie Woods

		Concentration (µCi/ml)	
	2.5E	2.87E-13	-
			Concentration (% DAC) ††† ~~8.43E-12~~ LMDC

† ☒ (Lapels Only) Sample did not run for minimum time of 120 minutes. Detector MDA @ this run time may exceed 10% of DAC.

Alpha MDC (µCi/ml) = 1.07E-12 Beta MDC (µCi/ml) = 8.07E-12

†† Send samples > 100 DPM Alpha to the laboratory for isotopic analysis.

††† Notify Operations Support Manager or designee when 10% of DAC is exceeded. 112

* See Air Sample Calculation Worksheet Continuation Form. 14017

Reviewed By: [illegible] Date: 8-10-01 Data Entry [illegible] 8-16

AIR SAMPLE CALCULATION WORKSHEET

CONTINUATION FORM

Air Sample # 01 - ER - 1131 - A RWP # 01 - DOE - 3 5

COPY

Lapel User	Badge / SSN#	Date On	Time On	Start Flow LPM	Date Off	Time Off	Stop Flow LPM	Flow Duration (minutes)	Average Flow Rate LPM	Sample Volume (L)
JOE MANSIR	617752	8-1-01	1403	4.113	8-1-01	1426	4.128	23	4.121	74.772
MARK TUCK	704985	8-1-01	1705	4.122	8-1-01	1745	4.119	40	4.121	164.84
				N						
						A				
TOTALS										259.612

Comments:

N/A

MARK TUCK
Name

Signature

704985
Date

LOW VOLS/LAPEL BZA AIR SAMPLE CALCULATIONS

Survey Number	01-ER-1131-A	Start Flow LPM	
Start Date/Time		Stop Flow LPM	
End Date/Time	1/0/00 0:00	Average Flow	0.00
		Total Volume Air (L)	259.61

COPY

Days Elapsed	0		
Hours Elapsed	0		
Minutes Elapsed	0		
Total Minutes	0		
Activity in dpm-Alpha	0.11	Alpha Concentration in microCi/mL	2.87E-13
Activity in dpm-Beta	2.77	% 2e-12 (Based on Np-237)	1.43E+01
Volume in L	259.61	% 2e-11	1.43E+00
Volume in mL	259610.00	% 8e-11	3.59E-01
Alpha Activity by 4 74E-7	5.214E-08		
arV (.7)(1)(Volume in mL)	181727		
Beta Activity by 4.74E-7	1.31298E-06	Beta Concentration In microCi/mL	5.06E-12
arV (1)(1)(Volume in mL)	259610	% 6E-8 (Based on Th-234)	8.43E-03
		For a Different Percent DAC Enter DAC Value Below	
		6.00E-08	8.43E-03

Use This for Calculating Minimum Detectible Concentration In MicroCi/mL

Enter Alpha MOA	0.41	Enter Beta MDA	4.42
Alpha MDA'4.74 E-7	1.9434E-07	Beta MDA*4.74E-7	2.09508E-06
arV (.7)(1)(Vol. In mL)	181727	arV (1)(1)(Vol. In mL)	259610
Alpha MDC in microCi/mL	1.07E-12	Beta MOC in microCi/mL	8.07E-12

Use This For Calculating +/- 2 Sigma on Air Samples Counted an 2929's

	ALPHA		BETA
Gr Sample Count Rate,cpm	0.37	Gr Sample Count Rate,cpm	46.72
Gr Sample Count Time,min	300	Gr Sample Count Time,min	300
Bkgr. Count Rate. cpm	0.33	Bkgr. Count Rate, cpm	45.69
Bkgr Count Time. min.	480	Bkgr Count Time. min.	480
Counter Efficiency %	0.3658	Counter Efficiency %	0.3725
+/- 2 Sigma, dpm	0.24	+/- 2 Sigma, dpni	2.69

NOTES:

DATA TO BE ENTERED GOES IN

RESULTS ARE DISPLAYED IN

Printed Name: Julie Woods

Signature & Date: Julie Woods 8/8/01

AIR SAMPLE CALCULATION WORKSHEET

PAGE 1 OF 3

SURVEY INFORMATION SAMPLING RCT NAME MARK TUCK SIGNATURE [signature] BADGE 704985

Purpose or Survey, Jot Coverage General Area Low Vol High Vol Lapel Environmental Other

Project-Building/Location DMSA-C-335-04 Work Description: TSCA/RCRA INSPECTION

Survey # 01-ER-135-A RWP # 01-DOE-38-5 RELURUCUPP KLR 9/7/01

SAMPLING INSTRUMENTATION

Model ☐HD-29A ☐AVS-28A ☒MRV-1023CV ☐ BuckHF ☐ BuckIH ☐ SKC BZA ☐ TFIA ☐ HVP-3800AFC ☐ Basic-12 ☐ VSS-12

Serial No 8802 Cal Due Date. 8-23-01

MEDIA DESCRIPTION

Filter Media: ☐ What-41 – 4 inch ☐ MF ☐ What-41 – 8x10 inch ☒ AA

NOTE: 1 CFM = 28 32 LPM

COPY

Start Date	Start Tune	Start Flow CFM/LPM	Slop Date	Stop Time	Stop Flow CFM / LPM	Flow Duration (Minutes) †	Average Flow Pate (LPM)	Total Air Volume (L)
7-30-01	1354	55	8-2-01	0952	55	4058	55	223190

Area Posted as ARA?	Were Respirators Worn?	Respirator Type and
☐ Yes ☒ No	☐ Yes ☒ No	☐ APR (50) ☐ SCBA (10000) (2000)

Badge Number: N/A

Tiffany VanCleve BADGE 704645

			Alpha Efficiency	Beta Efficiency
			2	

DATE	TIME	Type	Bkg Time (Minutes)	Counter Lc (DPM)	Counter MDA (DPM)	Sample Count Time (Minutes)	Gross Sample (CPM)	Bkg (CPM)	Net Sample (CPM)	Net Sample (DPM) tt	Error 2σ (DPM)
8-6-01	11:30	Alpha	30	0.45	1.41	20	0.86	0.07	0.79	2.91	1.57
		Beta	30	1.34	3.02	20	.88	1.27	10.61	26.53	4.04
DATE	TIME	Type	Bkg Time (Minutes)	Counter Lc (DPM)	Counter MDA (DPM)	Sample Count Time (Minutes)	Gross Sample (CPM)	Bkg. (CPM)	Net Sample (CPM)	Net Sample (DPM) tt	Error 2σ (DPM)
N/A		Alpha									
		Beta									

Julie Woods Julie Woods

Alpha DAC (µCi/ml)	Posting Level (µCi/ml)	Concentration (µCi/ml)	Concentration (% DAC) ttt
E^{-11}	$2.5E^{-12}$	$8.83E^{-15}$	$8.83E^{-2}$
Beta DAC (µCi/ml)	**Posting Level (µCi/ml)**	**Concentration (µCi/ml)**	**Concentration (% DAC) ttt**
6 E-08	1.5 E-08	$5.63E^{-14}$	$4.39E^{-5}$

† 0 (Lapels Only) Sample did not run for minimum time of 120 minutes. Detector MDA @ this run time may exceed 10% of OAC.

Alpha MDC (µCi/ml) = $4.28E^{-15}$ Beta MDC (µCi/ml) = $6.41E^{-15}$

tt Send samples > 100 DPM Alpha to the laboratory for isotopic analysis.

ttt Notify Operations Support Manager or designee when 10% of DAC is exceeded.

☐ See Air Sample Calculation Worksheet Continuation Form.

Reviewed By: [signature] Date: 8-10-01 Data Entry KL 8-16

J

Survey Number 01-ER-1135-A

Smear and Air Sample Activity Report

8/6/01

Batch ID:	20 Minute Air Samples - 20010806082 6			Acquisition Date:	8/6/01
Group ID:	J	Device Serial Number:	36643	Acquisition Time; (minutes)	20.0
Device Name:	Tennelec Series 5				
Selected Geometry:	Swipe/Smear	12-6-01		Operating Voltage: (volts)	1,387.0

Efficiency Factors			Daily 30 Minute Background CPM		Batch Critical Level DPM	
Alpha Efficiency -	0.27	+ 0.00	Alpha Background (CPM) -	0.07	Alpha Lc -	0.45
Beta Efficiency -	0.40	± 0.01	Beta Background (CPM) -	1.27	Beta Lc.-	1.34

Sample ID	Quantity	Alpha DPM (DPM)	2σ	Alpha MDA (DPM)	Beta DYM (DPM)	2σ	Beta MDA (DPM)
20010806082625-J10	0.00	2.91	1.57	1.41	26.53	4.04	3.02

COPY

Count Room Review: Kris Wesley

Sampling Tech Review: NA

LOW VOLS/LAPEL BZA AIR SAMPLE CALCULATIONS

Survey Number	01-ER-1135-A	
Start Date/Time	7/30/01 13:54	
End Date/Time	8/2/01 9:32	
	1/2/00 19:38	
Days Elapsed	2	2880
Hours Elapsed	19	1140
Minutes Elapsed	38	38
Total Minutes		4058
	2.91	
Activity in **dpm-Alpha**	2.91	
Activity in dpm-Beta	26.53	
Volume **in** L	223190.00	
Volume **in** mL	223190000.00	
Alpha Activity by 4.74E-7	1.37934E-06	
arV (.7)(1)(Volume in mL)	156233000	
Beta Activity by 4 74E-7	1.25752E-05	
arV (1)(1)(Volume in mL)	223190000	

Start Flow LPM	55
Stop Flow **LPM**	55
Average **Flow**	55.00
Total Volume **Air** (L)	223190.00

COPY

Alpha Concentration in microCi/mL	8.83E-15
% 2e-12 (Based on Np-237)	4.41E-01
% 2e-11	4.41E-02
% 8e-11	1.10E-02
For a Different Percent DAC Enter DAC Value Below	
1.00E-11	8.83E-02
Beta Concentration in microCi/mL	5.63E-14
% 6E-8 (Based on Th-234)	9.39E-05
For a Different Percent DAC Enter DAC Value Below	
6.00E-08	9.39E-05

Use This for Calculating Minimum Oetectible Concentration in MicroCi/mL

Enter **Alpha MDA**	1.41	Enter **Beta MDA**	3.02
Alpha MDA*4 74E-7	6.6834E-07	Beta MDA*4.74E-7	1.43148E-06
arV (.7)(1)(Vol. **In** mL)	156233000	arV (1)(1)(Vol. In mL)	223190000
Alpha MDC in microCi/mL	4.28E-15	Beta MDC in microCi/mL	6.41E-15

Use This For Calculating +/- 2 Sigma on Air Samples Counted on 2929's

	ALPHA		BETA
Gr Sample Count Rate.cpm		Gr Sample Count **Rate**.cpm	
Gr Sample Count Time,min	300	Gr Sample Count Time,min	300
Bkgr. **Count Rate,** cpm		Bkgr. Count Rate, cpm	
Bkgr Count Time, min	480	Bkgr Count **Time,** min.	480
Counter Efficiency %		Counter Efficiency %	
+/- **2 Sigma,** dpm	#DIV/0!	+/- 2 Sigma, dpm	#DIV/0!

NOTES:

DATA TO BE ENTERED GOES IN	
RESULTS ARE DISPLAYED IN	

Printed Name:Julie Woods	
Signature & Date Julie Woods	8/9/01

AIR SAMPLE CALCULATION WORKSHEET

PAGE 1 OF 3

SURVEY INFORMATION SAMPLING RCT NAME Mark Tuck SIGNATURE [signature] BADGE 704985

Purpose of Survey: Job Coverage General Area - Low Vol. High Vol. Lapel Environmental Other

Work Description: TSCA

SAMPLING INSTRUMENTATION

Model: ☐HD-29A ☐AVS-28A ☐MRV-1023CV ☐ BuckHF ☐ BuckIH ☐ SKC BZA ☒ TFIA ☐ HVP-3800AFC ☐ Basic-12 ☐ VSS-12

Serial No 216038 Cal Due Date. 7-20-02

MEDIA DESCRIPTION

Filter Media ☒ What-41 – 4 inch ☐ MF ☐ What-41 – 8x10 inch ☐ AA

NOTE: 1 CFM = 28.32 LPM

COPY

Start Date	Start Time	Start Flow CFM/LPM	Stop Date	Stop Time	Stop Flow LPM	Flow Duration (Minutes) †	Average Flow Rate (LPM)	Total Air Volume (L)
8-2-01	0935	18	8-2-01	1000	18	25	509.76	12744

Area Posted as ARA? ☐ Yes ☒ No

Were Respirators Worn? ☐ Yes ☒ No

Respirator Type and Protection Factor? ☒ N/A ☐ APR (50) ☐ SCBA (10000) ☐ PAPR or Supplied Air Hood (1000) ☐ Airline or Supplied Air Full Face (2000)

Lapel Worn By: N/A

Badge Number;

Tiffany VanCleve BADGE 704645

INSTRUMENTATION USED		Serial #	Cal Due Date.	Alpha Efficiency	Beta Efficiency
☒ Tennelec Series 2 / Series 5	☐ Ludlum 2959 ☐ Berthold LB770	68676	12-21-01	0.23	0.29
INSTRUMENTATION USED		Serial #-	Cat Due Date	Alpha Efficiency	Beta Efficiency
☐ Tennelec Series 2 / Series 5	☐ Ludlum 2929 ☐ Berthold LB770	N/A			

DATE	TIME	Type	Bkg Time (Minutes)	Counter Lc (DPM)	Counter MDA (DPM)	Sample Count Time (Minutes)	Gross Sample (CPM)	Bkg (CPM)	Net Sample (CPM)	Net Sample (DPM) ††	Error 2σ (DPM)
8-6-01	11:18	Alpha	30	0.38	1.36	20	0.35	0.03	0.32	1.40	1.21
		Beta	30	1.61	3.69	20	2.06	0.93	1.13	3.91	2.57
DATE	TIME	Type	Bkg.Time (Minutes)	Counter Lc (DPM)	Counter MDA (DPM)	Sample Count Time (Minutes)	Gross Sample (CPM)	Bkg (CPM)	Net Sample (CPM)	Net Sample (DPM) ††	Error 2σ (DPM)
N/A		Alpha									

Julie

Alpha OAC (µCi/ml)	Posting Level (µCi/ml)	Concentration (µCi/ml)	Concentration (% DAC) †††
1E-11	2.5E-12	2.57E-13	2.57
Beta OAC (µCi/ml)	Posting Level (µCi/ml)	Concentration (µCi/ml)	Concentration (% DAC) †††
		6.01E-13	

Alpha MDC (µCi/ml) = 2.49E-13 Beta MDC (µCi/ml) = 4.73E-13

†† Send samples > 100 DPM Alpha to the laboratory for isotopic analysis.

††† Notify Operations Support Manager or designee when 10% of DAC is exceeded.

• ☐ See Air Sample Calculation Worksheet Continuation Form

Reviewed By: [signature] Date: 8-10-01 Data Entry KR R-16

J-10

Smear and Air Sample Activity Report

Survey Number 01-EE-1136-A

8/6/01

Batch ID:	20 Minute Air Samples - 200108060816	Acquisition Date:	8/6/01
Group ID:	J Device Serial Number: 68676	Acquisition Time: (minutes)	20.0
Device Name:	Tennelec Series 2		
Selected Geometry:	Swipe/Smear 12-21-01	Operating Voltage: (volts)	1,485.0

Efficiency Factors			Daily 30 Minute Background CYM		Batch Critical Level DPM	
Alpha Efficiency -	0.23	± 0.00	Alpha Background (CPM) -	0.03	Alpha Lc -	0.38
Beta Efficiency -	0.29	± 0.01	Beta Background (CPM) -	0.93	Beta Lc -	1.61

Sample ID	Quantity	Alpha DPM (DPM)	2σ	Alpha MDA (DPM)	Beta DPM (DPM)	2σ	Beta MDA (DPM)
200108060816 06-J10	0.00	1.40	1.21	1.36	3.91	2.57	3.69

COPY

Count Room Review: [signature]

Sampling Tech Review: NA

HI VOLS AIR SAMPLE CALCULATIONS

Survey Number	01-ER-1136-A
Start Date/Time	8/2/01 9:35
End Date/Time	8/2/01 10:00
	1/0/00 0:25

Days Elapsed	0	0
Hours Elapsed	0	0
Minutes Elapsed	25	25
Total Minutes		25

Start Flow CFM	18
Stop Flow CFM	18
Average Flow	509.76
Total Volume Air (L)	12,744.00

Activity in dpm-Alpha	1.40
Activity in dpm-Beta	3.91
Volume in L	12,744.00
Volume in mL	12,744,000.00

Alpha Activity by 4 74E-7	6.636E-07
arV (.7)(.29)(Volume in mL)	2587032.00

Beta Activity by 4.74E-7	1.85334E-06
arV (1)(.29)(Volume in mL)	3695760.00

Alpha Concentration In microCi/mL	2.57E-13
% 2e-12 (Based on Np 237)	1.28E+01
% 2e-1 ī	1.28E+00

Beta Concentration In microCi/mL	5.01E-13
% 6E-8 (Based on TH-234)	8.36E-04
For a Different Percent DAC Enter DAC Value Below	
6 00E-08	8.36E-04

Use This for Calculating Minimum Detectible Concentration In MicroCi/mL

Enter Alpha MDA	1.36
Alpha MDA*4.74E-7	6.4464E-07
arV (7)(29)(Vol. In mL)	2587032
Alpha MDC in microCi/mL	2.49E-13

Enter Beta MOA	3.69
Beta MDA*4 74E-7	1.74906E-06
arV (1)(29)(Vol. In mL)	3695760
Beta MDC in microCi/mL	4.73E-13

NOTES:

DATA TO BE ENTERED GOES IN

RESULTS ARE DISPLAYED IN

Printed Name: Julie Woods

Signature/Date: Julie Woods 8/9/01

COPY

AIR SAMPLE CALCULATION WORKSHEET

PAGE 1 OF 3

SURVEY INFORMATION SAMPLING RCT NAME Mark Tull SIGNATURE [signature] BADGE 704985

Purpose of Survey: Job Coverage General Area - Low Vol. High Vol Lapel Environmental Other. ____

5

SAMPLING INSTRUMENTATION

Model: DHD-29A ☐AVS-28A ☐MRV-1023CV ☐ BuckHF ☒BuckIH ☐ SKC BZA ☐TFIA ☐HVP-3800AFC ☐ Basic-12 ☐VSS-12

Serial No.: 29241 Cal. Due Date: 8-11-01

MEDIA DESCRIPTION

Filter Media: ☐ What-41 – 4 inch ☒MF ☐ What-41 – 8x10 inch ☐AA

NOTE: 1 CFM = 28.32 LPM

COPY

Start Date	Start Time	Start Flow CFM / LPM	Stop Date	Stop Time	Stop Flow CFM / LPM	Flow Duration (Minutes) †	Average Flow Rate (LPM)	Total Air Volume (L)
*	*	*	*	*	*	*	*	458.852 *

Area Posted as ARA?	Were Respirators Worn?	Respirator Type and Protection Factor? ☒N/A	Lapel Worn By: *
☐ Yes ☒ No	☐ Yes ☒ No	☐ APR (50) ☐ PAPR or Supplied Air Hood (1000) ☐ SCBA (10000) ☐ Airline or Supplied Air Full Face (2000)	Badge Number: *

Jeffrey Q

INSTRUMENTATION USED		Serial	Cal Due Date	Alpha Efficiency	Beta Efficiency
☐Tennelec Series 2 / Series 5	☒ Ludlum 2929 ☐ Berthold LB770	126134	3-21-02	.3478	.3732
INSTRUMENTATION USED		Serial #	Cal Due Date:	Alpha Efficiency	Beta Efficiency
☐Tennelec Series 2 /Series 5	☐ Ludlum 2929 ☐ Berthold *PO	N/A			

DATE	TIME	Type	Bkg Time (Minutes)	Counter Lc (DPM)	Counter MDA (DPM)	Sample Count Time (Minutes)	Gross Sample (CPM)	Bkg (CPM)	Net Sample (CPM)	Net Sample (DPM) ††	Error 2 a (DPM)
	0635	Alpha	480	0.20	0.42	300	0.34	0.33	0.01	0.03	0.25
		Beta		2.46	4.94	300	55.76	57.35	-1.59	-4.26	2.96

DATE	TIME	Type	Bkg Time (Minutes)	Counter Lc (DPM)	Counter MDA (DPM)	Sample Count Time (Minutes)	Gross Sample (CPM)	Bkg (CPM)	Net Sample (CPM)	Net Sample (DPM) ††	Error 2 σ (DPM)
N/A		Alpha									
		Beta									

E Jill Woods E Julie Woods

Alpha DAC (µCi/ml)	Posting Level (µCi/ml)	Concentration (µCi/ml)	Concentration (% DAC) †††
1E-11	2.5 -12	4.48E-14	LMDC
Beta DAC (µCi/ml)	**Posting Level (µCi/ml)**	**Concentration (µCi/ml)**	**Concentration (% DAC) †††**
6E98	1.5E-08	-4.45E-12	LMDC

† (Lapels Only) Sam

Alpha MDC (µCi/ml) = 6.27E-13 Beta MDC (µCi/ml) = 5.16E-12

†† Send samples > 100 DPM Alpha to the laboratory for isotopic analysis.

††† Notify Operations Support Manager or designee when 10% of DAC is exceeded. 101

* See Air Sample Calculation Worksheet Continuation Form. 16729

AIR SAMPLE CALCULATION WORKSHEET

CONTINUATION FORM

Air Sample # 01 - ER - 1149 - A RWP # 01 - DOE - 3[illegible] - S[illegible]

COPY

Lapel User	Badge I SSN#	Date On	Time On	Start Flow (LPM)	Date Off	Time Off	Stop Flow LPM	Flow Duration (minutes)	Average Flow Rate LPM	Sample Volume (L)
JOSEPH MANSIR	617752	8-2-01	0908	4.128	8-2-01	1000	4.128	52	4.124	214.448
MARTHA SHANNON	20140	8-2-01	1652	4.128	8-2-01	1740	4.128	48	4.128	198.144
DANNY HAYES	705193	8-2-01	1740	4.128	8-2-01	1750	4.130	10	4.129	41.290
				N						
					A					
TOTALS										453.882

Comments:

N A

MARK TUCK
Name

Signature

8-2-01
Date

PAD/RCO-037 Rev.10 (07/01)

COW VOLS/LAPEL BZA AIR SAMPLE CALCULATIONS

Survey Number	01-ER-1149-A
Start Date/Time	
End Date/Time	
	1/0/00 0:00

Days Elapsed		0
Hours Elapsed		0
Minutes Elapsed		0
Total Minutes		0

Activity in dpm-Alpha	0.03
Activity in dpm-Beta	-4.26
Volume in L	453.88
Volume in mL	453882.00
Alpha Activity by 4.74E-7	1.422E-08
arV (.7)(1)(Volume in mL)	317717.4
Beta Activity by 4.74E-7	-2.0124E-06
arV (1)(1)(Volume in mL)	453882

Start Flow LPM	
Stop Flow LPM	
Average Flow	0.00
Total Volume Air (L)	453.88

COPY

Alpha Concentration in microCi/mL	4.48E-14
% 2e-12 (Based on Np-237)	2.24E+00
% 2e-11	2.24E-01
% 8e-11	5.59E-02
For a Different Percent DAC Enter DAC Value Below	
1.00E-11	4.48E-01

Beta Concentration in microCi/mL	-4.45E-12
% 6E-8 (Eased an Th-234)	-7.41E-03
For a Different Percent DAC Enter DAC Value Below	
6.00E-08	-7.41E-03

Use This for Calculating Minimum Detectible Concentration In MicroCi/mL

Enter Alpha MDA	0.42)	Enter Beta MDA	4.94
Alpha MDA*4.74E-7	1.9908E-07	Beta MDA*4.74E-7	2.34156E-06
arV (.7)(1)(Vol. In mL)	317717.4	arV (1)(1)(Vol. In mL)	453882
Alpha MDC in microCi/mL	6.27E-13	Beta MDC in microCi/mL	5.16E-12

Use This For Calculating +/- 2 Sigma on Air Samples Counted on 2929's

	ALPHA		BETA
Gr Sample Count Rate,cpm	0.34	Gr Sample Count Rate,cpm	55.761
Gr Sample Count Time,min	300	Gr Sample Count Time,min	300
Bkgr Count Rate. cpm	0.33	Bkgr. Count Rate, cpm	57.351
Bkgr Count Time. min	480	Bkgr Count Time. min.	480
Counter Efficiency	0.3478	Counter Efficiency %	0.3732
+/- 2 Sigma, dpm	0.25	+/- 2 Sigma, dpm	2.96

NOTES:

DATA TO BE ENTERED GOES IN	
RESULTS ARE DISPLAYED IN	

Printed Name: Julie Woods	
Signature & Date: Julie Woods	8/9/01

9/7/01

AIR SAMPLE CALCULATION WORKSHEET

PAGE 1 OF

SURVEY INFORMATION SAMPLING RCT NAME MARK TUCK SIGNATURE BADGE 704985

Purpose of Survey: Job Coverage General Area - Low Vol. High Vol. Lapel Environmental Other: N/A

SAMPLING INSTRUMENTATION

Model: ☐HD-29A ☐AVS-28A ☐MRV-1023CV ☐ BuckHF ~~☐BuckHF~~ ☐SKC BZA ☒TFIA ☐HVP-3800AFC ☐Basic-12 ☐VSS-12

Serial No.: 21603P Cal. Due Date: 7-20-02

MEDIA DESCRIPTION

Filter Media: ☒ What-41 – 4 inch ☐ MF ☐ What-41 – 8x10 inch ☐ AA

NOTE: 1 CFM = 28.32 LPM

COPY

Start Date	Start Time	Start Flow CFM / LPM	Stop Date	Stop Time	Stop Flow CFM / LPM	Flow Duration (Minutes) †	Average Flow Rate (LPM)	Total Air Volume (L)
8-2-01	16.58	18	8-2-01	1728	18	30	509.76	1.52928E4

Area Posted as ARA? Were Respirators Worn? Respirator Type and Protection Factor? ☒N/A ☐ SCBA (10000, ☐ Airline or Supplied Air Full Face (2000)

Lapel Worn By: N/A

Badge Number:

SIGNATURE

		Serial	Cal Due Date:	Alpha Efficiency	
☒Tennelec Series 2 / Series 5	☐ Berthold LB770	68676	12-21-01	0.23	0.29
INSTRUMENTATION USED ☐Tennelec Series 2 / Series 5	☐ Ludlum 2929 ☐ Berthold LB770	Serial #: (&+--	Cal Due Date:	Alpha Efficiency	Beta Efficiency

ANALYSIS INFORMATION

DATE	TIME	Type	Bkg. Time (Minutes)	Counter Lc (DPM)	Counter MDA (DPM)	Sample Count Time (Minutes)	Gross Sample (CPM)	Bkg. (CPM)	Net Sample (CPM)	Net Sample (DPM) ††	Error 2σ (DPM)
8-6-01	4:20	Alpha	30	0.38	1.36	20	0.35	0.03	0.32	1.40	1.21
		Beta	30	1.61	3.69	20	2.57	0.93	1.64	5.66	2.80
DATE	TIME	Type	Bkg. Time (Minutes)	Counter Lc (DPM)	Counter MDA (DPM)	Sample Count Time (Minutes)	Gross Sample (CPM)	Bkg. (CPM)	Net Sample (CPM)	Net Sample (DPM) ††	Error 2σ (DPM)
N/A		Alpha									
		Beta									

ANALYSIS RESULTS CALCULATED BY: NAME Julie Woods SIGNATURE Julie Woods BADGE 703511

Alpha DAC (µCi/ml)	Posting Level (µCi/ml)	Concentration (µCi/ml)	Concentration (% DAC) †††
1E-11			
6E-08			

† ☐ (Lapels Only) Sample did not run for minimum time of 120 minutes. Detector MDA @ this run time may exceed 10% of DAC.

Alpha MDC (µCi/ml) = 2.08E-13 Beta MDC (µCi/ml) = 3.94E-13

†† Send samples > 100 DPM Alpha to the laboratory for isotopic analysis.

††† Notify Operations Support Manager or designee when 10% of DAC is exceeded.

☐ *See* Air Sample Calculation Worksheet Continuation Form.

Reviewed By: W.C. Hedges Date: 8-10-01 Data Entry K.L. 8-16

SEC RadCon Alliance - Paducah 4:40:22P

Smear and Air Sample Activity Report

8/6/01

Survey Number 01-EX-1150-A

Batch ID:	20 Minute Air Samples - **200108061459**			Acquisition Date:	8/6/01
Group ID:	E	Device Serial Number.:	68676	Acquisition Time: (minutes)	20.0
Device Name:	Tennelec Series 2				
Selected Geometry:	Swipe/Smear		12-21-01	Operating Voltage: (volts)	1,485.0

Efficiency Factors			Daily 30 Minute Background CPM		Batch Critical Level DPM	
Alpha Efficiency -	0.23	± 0.00	Alpha Background (CPM) -	0.03	Alpha Lc -	0.38
Beta Efficiency -	0.29	± 0.01	Beta Background (CPM) -	0.93	Beta Lc -	1.61

Sample ID	Quantity	Alpha DPM (DPM)	2σ	Alpha MDA (DPM)	Beta DPM (DPM)	2σ	Beta MDA (DPM)
20010806145915-E5	0.00	**1.40**	1.21	1.36	***5.66***	2.80	**3.69**

COPY

Count Room Review: Kris Wanlay

Sampling Tech Review: N/A

HI VOLS AIR SAMPLE CALCULATIONS

Survey Number	01-ER-1150-A
Start Date/Time	8/2/01 16:58
End Date/Time	8/2/01 17:28
	1/0/00 0:30

Days Elapsed	0	0
Hours Elapsed	0	0
Minutes Elapsed	30	30
Tatal Minutes		30

Start Flow CFM	18
Stop flow CFM	18
Average Flow	509.76
Total Volume Air (L)	15,292.80

Activity in dpm-Alpha	1.401
Activity in dpm-Beta	5.66
Volume in L	15,292.80
Volume in mL	15,292,800.00

Alpha Activity by 4.74E-7	6.636E-07
arV (.7)(.29)(Volume in mL)	3104438.40

Beta Activity by 4.74E-7	2.68284E-06
arV (1)(.29)(Volume in mL)	4434912.00

Alpha Concentration in microCi/mL	2.14E-13
% 2e-12 (Based on Np-237)	1.07E+01
% 2e-11	1.07E+00
% 8e-11	2.67E-01
For a Different Percent DAC Enter DAC Value Below	
1.00E-11	2.14E+00

Beta Concentration in microCi/mL	6.05E-13
% 6E-8 (Based on TH-234)	1.01E-03
For a Different Percent DAC Enter DAC Value Below	
5.00E-08	1.01E-03

Use This far Calculating Minimum Detectible Concentration in MicroCi/mL

Enter Alpha MDA	1.36
Alpha MDA*4.74E-7	6.4464E-07
arV (.7)(.29)(Vol In mL)	3104438.4
Alpha MDC in microCi/mL	2.08E-13

Enter Beta MOA	3.69
Beta MDA*4.74E-7	1.74906E-06
arV (1)(.29)(Vol. In mL)	4434912
Beta MDC in microCi/mL	3.94E-13

NOTES:

DATA TO BE ENTERED GOES IN

RESULTS ARE DISPLAYED IN

Printed Name: Julie Woods

Signature/Date: Julie Woods 8/8/01

COPY

AIR SAMPLE CALCULATION WORKSHEET

REVISED PAGE 1 OF 3

SURVEY INFORMATION SAMPLING RCT NAME D Hayes SIGNATURE D Hayes BADGE 106193

Purpose of Survey: (Job Coverage) General Area - Low Vol. (High Vol.) Lapel Environmental Other:

Project-Building/Location: Dmsa-C-335-4 Work Description: TSCA/RCRA Insp

Survey #: 01- ER - 1156 -4 RWP #: 01-DOE- 38 - S

SAMPLING INSTRUMENTATION

Model ☐HD-29A ☐AVS-28A ☐MRV-1023CV ☐BuckHF ☐BuckIH ☐SKC BZA ☐TFIA ☐HVP-3800AFC ☐Basic-12 ☐VSS-12

Serial No : 216038 Cal. Due Date: 7-20-01

MEDIA DESCRIPTION

Filter Media: ☐ ~~What-41 – 4 inch~~ ☐ MF ☐ What-41 – 8x10 inch ☐ A

COPY

NOTE: 1 CFM = 28.32 LPM

Start Date	Start Time	Start Flow (CFM) / LPM	Stop Dale	Slop Time	Stop Flow (CFM) / LPM	Flow Duration (Minutes) †	Average Flow Rate (LPM)	Total Air Volume (L)
8-3-01	1320	17	8-3-01	1345	17	25	481.44	12036

Area Posted as ARA?	Were Respirators Worn?	Respirator Type and Protection Factor? ☑ N/A	
☐ Yes ☑ No	☐ Yes ☑ No	☐ APR (50) ☐ SCBA (10000)	☐ PAPR or Supplied Air Hood (1000) ☐ Airline or Supplied Air Full Face (2000)

Lapel Worn By: na

Badge Number: na

LABORATORY INFORMATION LAB RCT NAME Tiffany VanCleve SIGNATURE Tiffany VanCleve BADGE 704645

INSTRUMENTATION USED		Serial #:	Cal Due Date:	Alpha Efficiency	Beta Efficiency
☐Tennelec (Series 2) / Series 5	☐ Ludlum 2929 ☐ Berthold LB770	686760	12-21-01	0.23	0.29
INSTRUMENTATION USED		**Serial #:**	**Cal Due Date:**	**Alpha Efficiency**	**Beta Efficiency**
☐Tennelec Series 2 / Series 5	☐ Ludlum 2929 ☐ Berthold LB770	N/A			

ANALYSIS INFORMATION

DATE	TIME	Type	Bkg. Time (Minutes)	Counter Lc (DPM)	Counter MDA (DPM)	Sample Count Time (Minutes)	Gross Sample (CPM)	Bkg. (CPM)	Net Sample (CPM)	Net Sample (DPM) ††	Error 2σ (DPM)
8-6-01	2:58	Alpha	30	0.38	1.36	20	0.35	0.03	0.32	1.40	1.21
		Beta	30	1.61	3.69	20	1.86	0.93	0.93	3.21	2.47
DATE	**TIME**	**Type**	**Bkg.Time (Minutes)**	**Counter Lc (DPM)**	**Counter MDA (DPM)**	**Sample Count Tune (Minutes)**	**Gross Sample (CPM)**	**Bkg. (CPM)**	**Net Sample (CPM)**	**Net Sample (DPM) ††**	**Error 2σ (DPM)**
N/A		Alpha									
		Beta									

ANALYSIS RESULTS CALCULATED BY: NAME Julie Woods SIGNATURE Julie Woods BADGE 703511

Alpha DAC (µCi/ml)	Posting Level (µCi/ml)	Concentration (µCi/ml)	Concentration (% OAC) †††
1E-11	2 -12	2.72E -13	2.72
Beta DAC (µCi/ml)	**Posting Level (µCi/ml)**	**Concentration (µCi/ml)**	**Concentration (% OAC) †††**
6 E-08	1.5 E-08	4.36E -13	< MDC

☐ (Lapels Only) Sample did not run for minimum time of 120 minutes. Defector MDA @ this run time may exceed 10% of DAC.

Alpha MDC (µCi/ml) = 2.64E -13 **Beta MDC** (µCi/ml) = 5.01E -13

† Send samples. > 100 DPM Alpha to the laboratory for isotopic analysis.

††† Notify Operations Support Manager or designee when 10% of DAC is exceeded.

☐ *See* Air Sample Calculation Worksheet Continuation Form.

Reviewed By: [illegible] Date: 8-10-01 Data Entry YA 8-16

PAD/RCO-037 Rev. 10 (07/01)

1

SEC RadCon Alliance - Paducah

Survey Number

Smear and Air Sample Activity Report

8/6/01

Batch ID:	20 Minute Air Samples - 200108061457	**Acquisition Date:**	8/6/01
Group ID:	A **Device Serial Number:** *68676*	**Acquisition Time: (minutes)**	20.0
Device Name:	Tennelec Series 2		
Selected Geometry:	Swipe/Smear	**Operating Voltage: (volts)**	1,485.0

12-21-01

Efficiency Factors			Daily 30 Minute Background CPM		Batch Critical Level DPM	
Alpha Efficiency -	0.23	± 0.00	**Alpha Background (CPM) -**	0.03	**Alpha Lc -**	0.38
Beta Efficiency -	0.29	± 0.01	**Beta Background (CPM) -**	*0.93*	**Beta Lc -**	1.61

Sample ID	Quantity	Alpha DPM (DPM)	2σ	Alpha MDA (DPM)	Beta DPM (DPM)	2σ	Beta MDA (DPM)
20010806145802-A1	0.00	**1.40**	1.21	1.36	**3.21**	2.47	3.69

COPY

Count Room Review: Kristen Hall

Sampling Tech Review: NA

HI VOLS AIR SAMPLE CALCULATIONS

Survey Number	01-ER-1156-A
Start Date/Time	8/3/01 13:20
End Date/Time	8/3/01 13:45
	1/0/00 0:25

Days **Elapsed**	0	0
Hours **Elapsed**	0	0
Minutes **Elapsed**	25	25
Total Minutes		25

Activity in dpm-Alpha	1.40
Activity in dpm-Beta	3.21
Volume in L	12,036.00
Volume in mL	12,036,000.00

Alpha Activity by 4.74E-7	**6.66E-07**
arV (.7)(.29)(Volume in mL)	**2443308.00**

Beta Activity by 4.74E-7	1.52154E-06
arV (1)(.29)(Volume in mL)	3490440.00

Start Flow CFM	17
Stop Flow **CFM**	17
Average **Flow**	481.44
Total Volume **Air** (L)	12,036.00

COPY

Alpha Concentration In microCi/mL	2.72E-13
% 2e-12 (Based on Np-237)	1.36E+01
% 2e-11	1.36E+00
% 8e-11	3.39E-03
For a Different Percent DAC Enter DAC Value Below	
1.00E-11	2.72E+00

Beta Concentration in microCi/mL	4.36E-13
% 6E-8 (Rased on TH-234)	7.27E-04
For a Different Percent DAC Enter DAC Value Below	
6.00E-08	7.27E-04

Use This for Calculating Minimum Detectible Concentration In MicroCi/mL

Enter **Alpha** MDA	1.36
Alpha MDA*4.74E-7	6.4464E-07
arV (.7)(.29)(Vol. In mL)	2443308
Alpha MDC in microCi/mL	2.64E-13

Enter Beta **MDA**	3.69
Beta MDA*4.74E-7	1.74906E-06
arV (1)(.29)(Vol. In mL)	3490440
Beta MDC in microCi/mL	5.01E-13

NOTES:

DATA TO BE ENTERED GOES IN

RESULTS ARE DISPLAYED IN

Printed Name: Julie Woods

Signature/Date: Julie Woods 8/8/01

AIR SAMPLE CALCULATION WORKSHEET

PAGE 1 OF 3

SURVEY INFORMATION SAMPLING RCT NAME Ron Curtis SIGNATURE [signature] BADGE 86482

Purpose of Survey (Job Coverage) General Area - Low Vol High Vol. Lapel Environmental Other

Project-Building/Location DNSA-C-335-04 Work Description TSCA/RCRA INSPECTION

Survey#. 01-ER-1158-A RWP # 01-DOE-38-

SAMPLING INSTRUMENTATION

Model OHD-29A ☐ AVS-28A ☐ MRV-1023CV ☐ BuckHF ☒ BuckIH ☐ SKC BZA ☐ TFIA ☐ HVP-3800AFC ☐ Basic-12 ☐ VSS-12

[Serial No 29208 Cal Due Date: 8-31-01

MEDIA DESCRIPTION

Filter Media ☐ What-41 – 4 inch ☒ MF ☐ What-41 – 8x10 inch ☐ AA

NOTE 1 CFM = 28.32 LPM

COPY

Start Date	Start Time	Start Flow CFM / CPM	Stop Date	Stop Time	Stop Flow CFM / LPM	Flow Duration (Minutes) †	Average Flow Rate (LPM)	Total Air Volume (L)
*	*	*	*	*	*	*	*	293.610

Area Posted as ARA? ☐ Yes ☒ No

Were Respirators Worn? ☐ Yes ☒ No

Respirator Type and Protection Factor? ☒ N/A ☐ APR (50) ☐ SCBA (10000) ☐ PAPR or Supplied Air Hood (1000) ☐ Airline or Supplied Air Full Face (2000)

Lapel Worn By: *

Badge Number: *

SIGNATURE Tiffany Pardue

INSTRUMENTATION USED		Serial #	Cal Due Date.	Alpha Efficiency	Beta Efficiency
☐ Tennelec Series 2 / Series 5	☒ Ludlum 2929 ☐ Berthold LB770	1376	3-8-02	.3658	.3281
INSTRUMENTATION USED		Serial #	Cal Due Date:	Alpha Efficiency	Beta Efficiency
☐ Tennelec Series 2 / Series 5	☐ Ludlum 2929 ☐ Berthold LB770	N/A			

DATE	TIME	Type	Bkg Time (Minutes)	Counter Lc (DPM)	Counter MDA (DPM)	Sample Count Time (Minutes)	Gross Sample (CPM)	Bkg (CPM)	Net Sample (CPM)	Net Sample (DPM) ††	Error 2 σ (DPM)
8/9/01	0615	Alpha	480	0.14	0.30	300	0.18	0.18	0.00	0.00	0.17
		Beta	480	2.52	5.07	300	47.44	46.63	0.81	247	3.08
DATE	TIME	Type	Bkg Time (Minutes)	Counter Lc (DPM)	Counter MDA (DPM)	Sample Count Time (Minutes)	Gross Sample (CPM)	Bkg (CPM)	Net Sample (CPM)	Net Sample (DPM) ††	Error 2 σ (DPM)
N/A		Alpha									
		Beta									

Alpha DAC (µCi/ml)	Posting Level (µCi/ml)	Concentration (µCi/ml)	Concentration (% DAC) †††
1E-11	2.5E-12	Ø	Ø
Beta DAC (µCi/ml)	**Posting Level (µCi/ml)**	**Concentration (µCi/ml)**	**Concentration (% DAC) †††**
6 E-08	1.5 E-08	3.99E-12	< MDC

† ☒ (Lapels Only) Sample did not run for minimum time of 120 minutes. Detector MDA @ this run time may exceed 10% of DAC.

Alpha MDC (µCi/ml) = 6.92E-13 Beta MDC (µCi/ml) = 8.18E-12

†† Send samples > 100 DPM Alpha to the laboratory for isotopic analysis.

††† Notify Operations Support Manager or designee when 10% of DAC is exceeded.

54

• ☒ See Air Sample Calculation Worksheet Continuation Form.

14232

Reviewed By: [signature] Date: 8-13-01 Data Entry [signature] 8-14

PAD/RCO-037 Rev. 10 (07/01)

AIR SAMPLE CALCULATION WORKSHEET

CONTINUATION FORM

COPY

Air Sample # 01 - ER - 1158 - A RWP # 01 - DOE - 38 - S

Lapel User	Badge / SSN#	Date On	Time On	Start Flow LPM	Date Off	Time Off	Stop Flow LPM	flow Duration (minutes)	Average Flow Rate LPM	Sample Volume (L)
MTUCK	704985	8-3-02	1314	3.759	8-3-02	1400	3.783	46	3.771	173.466
DANNY HAYES	705193	8-3-02	1655	3.754	8-3-02	1727	3.760	32	3.757	120.224
				N						
						A				
TOTALS	[redacted]									293.690

Comments:

N

A

Name

Signature

8-3-01

Date

LOW VOLS/LAPEL BZA AIR SAMPLE CALCULATIONS

Survey Number	01-ER-1158-A
Start Date/Time	
End Date/Time	1/0/00 0:00
Days Elapsed	0
Hours Elapsed	0
Minutes Elapsed	
Total Minutes	0
Activity in dpm-Alpha	0.00
Activity in dpm-Beta	2.47
Volume in L	293.69
Volume in mL	293690.00
Alpha Activity by 4.74E-7	0
arV (.7)(1)(Volume in mL)	205583
Beta Activity by 4.74E-7	1.17078E-06
arV (1)(1)(Volume in mL)	293690

Start Flow LPM	
Stop Flow LPM	
Average Flow	0.00
Total Volume Air (L)	293.69
Alpha Concentration in microCi/mL	0.00E+00
% 2e-12 (Based on Np-237)	0.00E+00
% 2e-11	0.00E+00
% 8e-11	0.00E+00
For a Different Percent DAC Enter DAC Value Below	
1.00E-11	0.00E+00
Beta Concentration in microCi/mL	3.99E-12
% 6E-8 (Based on Th-234)	

COPY

Use This for Calculating Minimum Detectible Concentration in MicroCi/mL

Enter Alpha MDA	0.31	Enter Beta MDA	5.07
Alpha MDA*4.74E-7	1.422E-07	Beta MDA*4.74 E-7	2.40318E-06
arV (.7)(1)(Vol. In mL)	205583	3rV (1)(1)(Vol. In mL)	293690
Alpha MDC in microCi/mL	6.92E-13	Beta MDC in microCi/mL	8.18E-12

Use This For Calculating +/- 2 Sigma on Air Samples Counted on 2929's

	ALPHA		BETA
Gr Sample Count Rate,cpm	0.18	Gr Sample Count Rate,cpm	47.44
Gr Sample Count Time,min	300	Gr Sample Count Time,min	300
Bkgr. Count Rate, cpm	0.18	Bkgr. Count Rate. cpm	46.63
Bkgr Count Time. min.	480	Bkgr Count Time, min.	480
Counter Efficiency %	0.3658	Counter Efficiency %	0.3281
+/- 2 Sigma, dpm	0.17	+/- 2 Sigma. dpm	3.08

NOTES:

DATA TO BE ENTERED GOES IN

RESULTS ARE DISPLAYED IN

Printed Name: Julia Woods

Signature & Date: Julia Woods 8/10/01

AIR SAMPLE CALCULATION WORKSHEET

PAGE 1 OF 3

SURVEY INFORMATION SAMPLING RCT NAME JOE MANSIR SIGNATURE Joe Mansir BADGE 617752

ge/ General Area - Low Vol. High Vol. Lapel Environmental Other: N/A

cation: DMSA C-335-04 INSPECTION FOR TSCA/RCRA

Survey #: 01- ER - 1160 -A RWP #: 01-DOE- 38 - S

SAMPLING INSTRUMENTATION

Model: ☐HD-29A ☐AVS-28A ☒MRV-1023CV ☐ BuckHF ☐ BuckIH ☐ SKC BZA ☐ TFIA ☐ HVP-3800AFC ☐ Basic-12 ☐ VSS-12

Serial No.: 8802

MEDIA DESCRIPTION

Filter Media: ☐ What-41 – 4 inch ☐ MF ☐ What-41 – 8x10 inch ☒ AA

NOTE: 1 C

COPY

Start Date	Start Time	Start Flow CFM / LPM	Stop Date	Stop Time	Stop Flow CFM / LPM	Flow Duration (Minutes) †	Average Flow Rate (LPM)	Total Air Volume (L)
8-2-01	0932	55	8-6-01	0855	55	5723	55	3.14765E5

Area Posted as ARA?	Were Respirators Worn?	Respirator Type and Protection Factor? ☒N/A	Lapel Worn By: N/A
☐ Yes ☒ No	☐ Yes ☒ No	☐ APR (50) ☐ PAPR or Supplied Air Hood (1000) ☐ SCBA (10000) ☐ Airline or Supplied Air Full Face (2000)	Badge Number: N/A

INSTRUMENTATION USED		Serial #:	Cal Due Date:	Alpha Efficiency	Beta Efficiency
☒Tennelec Series 2 / Series 5	☐ Ludlum 2929 ☐ Berthold LB770	36643	12-6-01	0.27	0.40
INSTRUMENTATION USED		Serial #:	Cal Due Date:	Alpha Efficiency	Beta Efficiency
☐Tennelec Series 2 / Series 5	☐ Ludlum 2929 ☐ Berthold LB770	N/A			

DATE	TIME	Type	Bkg. Time (Minutes)	Counter Lc (DPM)	Counter MDA (DPM)	Sample Count Time (Minutes)	Gross Sample (CPM)	Bkg. (CPM)	Net Sample (CPM)	Net Sample (DPM) ††	Error 2 σ (DPM)
8/13/01	0827	Alpha	30	0.32	1.15	20	1.55	0.03	1.52	5.63	2.08
		Beta	30	1.49	3.32	20	10.58	1.57	9.01	2252	3.85
DATE		Type	Bkg. Time (Minutes)	Counter Lc (DPM)	Counter MDA (DPM)	Sample Count Time (Minutes)	Gross Sample (CPM)	Bkg. (CPM)	Net Sample (CPM)	Net Sample (DPM) ††	Error 2 σ (DPM)
N/A		Alpha									
		Beta									

ANALYSIS RESULTS CALCULATED BY: NAME Julie Woods **SIGNATURE** Julie Woods **BADGE** 203511

Alpha DAC (µCi/ml)	Posting Level (µCi/ml)	Concentration (µCi/ml)	Concentration (% DAC) †††
1E-11	2.5E-12	1.21E-14	1.21E-1
Beta DAC (µCi/ml)	**Posting Level (µCi/ml)**	**Concentration (µCi/ml)**	**Concentration (% DAC) †††**
6 E-08	1.5 E-08	3.39E-14	5.65E-5

† ☐ (Lapels Only) Sample did not run for minimum time of 120 minutes. Detector MDA @ this run time may exceed 10% of DAC.

Alpha MOC (µCi/ml) = 2.47E-15 Beta MDC (µCi/ml) = 5.00E-15

†† Send samples > 100 DPM Alpha to the laboratory for isotopic analysis.

††† Notify Operations Support Manager or designee when 10% of DAC is exceeded.

• ☐ See Air Sample Calculation Worksheet Continuation Form.

Reviewed By: WC Hodge Date: 8-17-01 Data Entry KR 8-17

PAD/RCO-037 Rev. 10 (07/01)

SEC RadCon Alliance - Paducah

Survey Number 01-ER-1160-A

Smear and Air Sample Activity Report

8/13/01

Batch ID:	20 Minute Air Samples - 200108130728	**Acquisition Date:**	**8/13/01**
Group ID:	D **Device Serial Number:** 36643	**Acquisition Time: (minutes)**	20.0
Device Name:	Tennelec Series 5		
Selected Geometry:	Swipe/Smear	**Operating Voltage: (volts)**	1,387.0

Efficiency Factors			Daily 30 Minute Background CPM		Batch Critical Level DPM	
Alpha Efficiency -	*0.37*	± 0.00	**Alpha Background (CPM) -**	0.03	**Alpha Lc -**	**0.32**
Beta Efficiency -	0.40	± 0.01	**Beta Background (CPM) -**	**1.57**	**Retn Lc -**	**1.49**

Sample ID	Quantity	Alpha DPM (DPM)	2σ	Alpha MDA (DPM)	Beta DPM (DPM)	2σ	Beta MDA (DPM)
200108130728 52-D4	0.00	**5.63**	2.08	1.15	22.52	3.85	3.32

COPY

Count Room Review: Kris Wentzel **Sampling Tech Review:** WS

COW VOLS/LAPEL BZA AIR SAMPLE CALCULATIONS

Survey Number	01-ER-1160-A	
Start Date/Time	8/2/01 9:32	
End Date/Time	8/6/01 8:55	
	1/3/00 23:23	
Days Elapsed	3	4320
Hours Elapsed	23	1380
Minutes Elapsed	23	23
Total Minutes		5723
Activity in dpm-Alpha	5.63	
Activity in dpm-Beta	22.52	
Volume in L	314765.00	
Volume in mL	314765000.00	
Alpha Activity by 4.74E-7 arV (.7)(1)(Volume in mL)	2.66862E-06	220335500
Beta Activity by 4.74E-7 arV (1)(1)(Volume in mL)	1.06745E-05	314765000

Start Flow LPM	55
Stop Flow LPM	55
Average Flow	55.00
Total Volume Air (L)	314765.00

COPY

% 2e-12 (Based on Np-237)	6.06E-01
% 2e-11	6.06E-02
% 8e-11	1.51E-02
For a Different Percent DAC Enter DAC Value Below	
1.00E-11	1.21E-01
Beta Concentration in microCi/mL	3.39E-14
% 6E-8 (Based on Th-234)	5.65E-05
For a Different Percent DAC Enter DAC Value Below	
6.00E-08	5.65E-05

Use This for Calculating Minimum Detectible Concentration in MicroCi/mL

Enter Alpha MDA	1.15	Enter Beta MDA	3.32
Alpha MDA*4.74E-7 arV (.7)(1)(Vol. in mL)	5.451E-07 220335500	Beta MDA*4.74E-7 arV (1)(1)(Vol in mL)	1.57368E-06 314765000
Alpha MDC in microCi/mL	2.47E-15	Beta MDC in microCi/mL	5.00E-15

Use This For Calculating +/- 2 Sigma on Air Samples Counted on 2929's

	ALPHA		BETA
Gr Sample Count Rate, cpm		Gr Sample Count Rate, cpm	
Gr Sample Count Time, min	300	Gr Sample Count Time, min	300
Bkgr. Count Rate, cpm		Bkgr. Count Rate, cpm	
Bkgr Count Time, min.	480	Bkgr Count Time, min.	480
Counter Efficiency %		Counter Efficiency %	
+/- 2 Sigma, dpm	#DIV/0!	+/- 2 Sigma, dpm	#DIV/0!

NOTES:

DATA TO BE ENTERED GOES IN

RESULTS ARE DISPLAYED IN

Printed Name: Julie Woods

Signature & Date: Julie Woods 8/14/01

KLK 9/7/01

AIR SAMPLE CALCULATION WORKSHEET RECORD COPY

PAGE 1 OF 3

SURVEY INFORMATION SAMPLING RCT NAME Wm. Duncan SIGNATURE [illegible] BADGE 722798

Purpose of Survey General Area Building/Location: DMSA ~~C-337-05~~ C-335-04 6/B-33

Survey # 01- ER - 759 -A RWP # 01-DOE- 038 -S Work Description: N/A

SAMPLING INSTRUMENTATION

Model: ☒ HD-29A ☐ AVS-28A ☐ MRV-1023CV ☐ BuckHF ☐ BuckIH ☐ SKC BZA ☐ TFIA ☐ HVP-3800AFC

Serial No.: 5501 Cal. Due Date: 7-8-01

MEDIA DESCRIPTION

Filter Media: ☐ What-41 – 4 inch ☐ MF ☐ What-41 – 8x10 inch ☒ AA

NOTE: 1 CFM = 28.32 LPM

COPY

Start Date	Start Time	Start Flow CFM / LPM	Stop Date	Stop Time	Stop Flow CFM / LPM	Flow Duration (Minutes) †	Average Flow Rate (LPM)	Total Air Volume (L)
6-11-01	1220	39	6-14-01	1240	39	4340	39	~~166,400~~ 169,260

Area Posted as ARA? ☐ Yes ☑ No

Were Respirators Worn? ☐ Yes ☑ No

Respirator Type and Protection Factor? ☐ N/A ☐ APR (50) ☐ SCBA (10000) ☐ PAPR or Supplied Air Hood (1000) ☐ Airline or Supplied Air Full Face (2000)

Lapel Worn By: N/A

Badge Number:

Chris [illegible]

INSTRUMENTATION USED		Serial #	Cal Due Date	Alpha Efficiency	Beta Efficiency
☒ Tennelec Series 2 / Series 5	☐ Ludlum 2929 ☐ Berthold LB770	36643	12-6-01	0.27	0.40
INSTRUMENTATION USED	☐ Ludlum 2929	Serial #	Cal Due Date	Alpha Efficiency	Beta Efficiency
☐ Tennelec Series 2 / Series 5	☐ Berthold LB770	N/A			

DATE	TIME	Type	Bkg Time (Minutes)	Counter Lc (DPM)	Counter MDA (DPM)	Sample Count Time (Minutes)	Gross Sample (CPM)	Bkg (CPM)	Net Sample (CPM)	Net Sample (DPM) *	Error 2 σ (DPM)
6-18-01	0952	Alpha	30	0.45	1.41	20	0.76	0.07	0.69	2.54	1.48
		Beta	30		3.62	20	9.92	1.90	8.02	20.05	3.77
DATE	TIME	Type	Bkg Time (Minutes)	Counter Lc (DPM)	Counter MDA (DPM)	Sample Count Time (Minutes)	Gross Sample (CPM)	Bkg (CPM)	Sample (CPM)	Net Sample (DPM) *	Error 2 σ (DPM)
		Alpha									
		Beta									

Jw Woods

Alpha DAC (µCi/ml)	Posting Level (µCi/ml)	Concentration (µC	Concentration (% DAC) **
Beta DAC (µCi/ml) 6E-08	Posting Level (µCi/ml) 15E-08	Concentration (µCi/ml) 5.61E-14	Concentration (% DAC) ** 9.36E-5

6

[illegible]

SEC RadCon Alliance - Paducah 10:12:37A

Survey Number 01-ER-759-A

Smear and Air Sample Activity Report

6/18/01

Batch ID:	20 Minute Air Samples - 200106180810	Acquisition Date:	6/18/01
Group ID:	F Device Serial Number: 36643	Acquisition Time:	20.0
Device Name:	Tennelec Series 5		
Selected Geometry:	Swipe/Smear Cal due 12-6-01	Operating Voltage:	1,387.0

Efficiency Factors			Daily 30 Minute Background CPM		Batch Critical Level DPM	
Alpha Efficiency -	0.27	± 0.00	Alpha Background (CPM) -	0.07	Alpha Lc -	0.45
Beta Efficiency -	0.40	± 0.01	Beta Background (CPM) -	1.90	Beta Lc -	1.64

Sample ID	Quantity	Alpha DPM (DPM)	2σ	Alpha MDA (DPM)	Beta DPM (DPM)	2σ	Beta MDA (DPM)
200106180810 10-F6	0.00	2.54	1.48	1.41	20.05	3.77	3.62

COPY

Count Room Review: Chris Mels Sampling Tech Review: NA

LOW VOLS/LAPEL BZA AIR SAMPLE CALCULATIONS

Survey Number	01-ER-759-A
Start Date/Time	6/11/01 12:20
End Date/Time	6/14/01 12:40
	1/3/00 0:20

Days Elapsed	3	4320
Hours Elapsed	0	0
Minutes Elapsed	20	20
Total Minutes		4340

Activity in dpm-Alpha	2.54
Activity in dpm-Beta	20.05
Volume in L	169260.00
Volume in mL	169260000.00

Alpha Activity by 4.74E-7	1.20396E-06
arV (.7)(1)(Volume in mL)	118482000

Beta Activity by 4.74E-7	9.5037E-06
arV (1)(1)(Volume in mL)	169260000

Start Flow LPM	39
Stop Flow LPM	39
Average Flow	39.00
Total Volume Air (L)	169260.00

COPY

Alpha Concentration in microCi/mL	1.02E-14
% 2e-12 (Based on Np-237)	5.08E-01
% 1e-10 (Drum Mountain)	1.02E-02
% 1.1e-11 (Tc-99 Tank)	9.24E-02
For a Different Percent DAC Enter DAC Value Below	
1.00E-11	1.02E-01

Beta Concentration in microCi/mL	5.61E-14
% 6E-8 (Based on Th-234)	9.36E-05
For a Different Percent DAC Enter DAC Value Below	
6.00E-08	9.36E-05

Use This for Calculating Minimum Detectible Concentration in MicroCi/mL

Enter Alpha MDA	1.41
Alpha MDA 4.74 E-7	6.6834E-07
arV (.7)(1)(Vol. In mL)	118482000
Alpha MDC in microCi/mL	5.64E-15

Enter Beta MDA	3.621
Beta MDA 4.74E-7	1.71588E-06
arV (1)(1)(Vol. In mL)	169260000
Beta MDC in microCi/mL	1.01E-14

Use This For Calculating +/- 2 Sigma on Air Samples Counted on 2929's

	ALPHA	BETA
Gr Sample Count Rate, cpm		
Gr Sample Count Time, min	300	300
Bkgr. Count Rate, cpm		
Bkgr Count Time, min.	480	480
Counter Efficiency %		
+/- 2 Sigma, dpm	#DIV/0!	#DIV/0!

NOTES:

DATA TO BE ENTERED GOES IN

RESULTS ARE DISPLAYED IN

Printed Name: Julie Woods

Signature & Date: Julie Woods 6/19/01

Section 5

IH SAMPLING DATA

Johns Manville

Johns Manville Corporation
10100 W. Ute Avenue (80127)
P.O. Box 625005
Littleton, CO 80162-5005
303 978 2000

COVER PAGE

July 12,2001

NFT, Incorporated
NFT Sample Management Office
Ms. Marie Meszaros
105 Mitchell Road, Suite 202
Oak Ridge, TN 37830

Laboratory Report ID: 01062107
Laboratory Name: Johns Manville Technical Center
Industrial Hygiene Laboratory
Reference Number: KCWO05069A
Reference Name: WESKEM PAD
Site: Paducah

Dear Ms. Meszaros:

The Johns Manville Technical Center (JMTC) has performed the following analytical services as requested. The results are calculated based upon the information supplied on the submission form. All laboratory data has been filed and are available upon request.

The JMTC IH Analytical Laboratory is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program (Certificate No. 056) and in the environmental lead program for paint chips, dust wipes and soil.

If you have any questions, please call (303) 978-2584.

Scope of Work:

Requested Analysis	Number of Samples	Sampling Matrix	Method	Date of Analysis
Volatile Organic Compounds (VOCs)	1	6-liter Canister	EPA method TO-14A	7/5/2001

I certify that this sample data package is in compliance with SOW requirements (if applicable), both technically and for completeness, other than the conditions detailed in the case narrative. Release of the data contained in this hard-copy sample package and the computer-readable EDD, as applicable, submitted on diskette or by modem, has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Scott A. Steiner
Industrial Hygiene Project Manager

7-12-2001
Date

COPY

July 12,2001

Laboratory Report ID: 01062107
Laboratory Name: Johns Manville Technical Center
Industrial Hygiene Laboratory
Reference Number: KCWO05069A
Reference Name: WESKEM PAD
Requestor: Paducah

Sample Results

Date Received: 6/21/2001
Date Analyzed: 7/5/2001

Sample Matrix: 6-liter Canisters
Analytical Method: EPA method TO-14A

Laboratory **Sample** Number: **01062107-001**
Customer Sample Number: **3504Z1-2OVPS01**

Requested Analysis	MDL (ppb-v)	PQL (ppb-v)	Laboratory Blank (ppb-v)	DF	TOTAL(1) (ppb-v)	TOTAL(2) (ppb-v)	Flags*
Dichlorodifluoromethane (Freon 12)	0.28	2.00	0.00	1.00	0.97	0.97	J
Chloromethane	0.63	2.00	0.00	1.00	2.97	2.97	
1,2-Dichlorotetrafluoroethane (Freon 114)	0.50	2.00	0.00	1.00	7.38	7.38	
Vinyl chloride	0.81	2.00	0.00	1.00	ND	< MDL	U
Bromomethane	0.62	2.00	0.00	1.00	ND	< MDL	U
Chloroethane	0.83	2.00	0.00	1.00	ND	< MDL	U
Trichlorofluoromethane (Freon 11)	1.58	4.00	0.00	1.00	< MDL	< MDL	U
1,1-Dichloroethene	2.60	4.00	0.00	1.00	ND	< MDL	U
Dichloromethant (Methylene chloride)	1.85	4.00	0.00	1.00	ND	< MDL	U
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.35	4.00	0.00	1.00	ND	< MDL	U
1,1-Dichloroethane	0.88	2.00	0.00	1.00	ND	< MDL	U
cis-1,2-Dichloroethene	0.17	2.00	0.00	1.00	ND	< MDL	U
Chloroform	0.20	2.00	0.00	1.00	ND	< MDL	U
1,2-Dichloroethane	0.24	2.00	0.00	1.00	ND	< MDL	U
1,1,1-Trichloroethane	0.18	2.00	0.00	1.00	ND	< MDL	U
Benzene	0.15	2.00	0.00	1.00	0.24	0.24	
Carbon tetrachloride	0.20	2.00	0.00	1.00	< MDL	< MDL	
1,2-Dichloropropane	0.10	2.00	0.00	1.00	ND	< MDL	
Trichloroethene	0.12	2.00	0.00	1.00	ND	< MDL	U
cis-1,3-Dichloropropene	0.20	2.00	0.00	1.00	ND	< MDL	U
trans-1,3-Dichloropropene	0.29	2.00	0.00	1.00	ND	< MDL	U
1,1,2-Trichloroethane	0.08	2.00	0.00	1.00	ND	< MDL	U
Toluene	0.12	2.00	0.00	1.00	0.25	0.25	J
1,2-Dibromoethane	0.17	2.00	0.00	1.00	ND	< MDL	U
Tetrachloroethene	0.18	2.00	0.00	1.00	ND	< MDL	U
Chlorobenzene	0.10	2.00	0.00	1.00	ND	< MDL	U
Ethyl benzene	0.13	2.00	0.00	1.00		< MDL	U
m, p-Xyenes	0.20	2.00	0.00	1.00	0.20	0.20	J
Styrene	0.19				ND	< MDL	U
1,1,2,2-Tetrachloroethane	0.23				ND	< MDL	U
o-Xylene	0.12	2.00		1.00	ND	< MDL	U
1,3,5-Trimethylbenzene	0.21	2.00	0.00	1.00	ND	< MDL	U
1,2,4-Trimethylbenzene	0.18	2.00	0.00	1.00	< MDL	< MDL	U
1,3-Dichlorobenzene	0.28	2.00	0.00	1.00	< MDL	< MDL	U
1,4-Dichlorobenzene	0.31	2.00	0.00	1.00	< MDL	< MDL	U
1,2-Dichlorobenzene	0.30	2.00	0.00	1.00	ND	< MDL	U
1,2,4-Trichlorobenzene	0.77	2.00	0.00	1.00	< MDL	< MDL	U
Hexachloro-1,3-butadiene	0.66	2.00	0.00	1.00	< MDL	< MDL	U

COPY

July 12,2001

Laboratory Report ID: 01062107
Laboratory Name: Johns Manville Technical Center
Industrial Hygiene Laboratory
Reference Number: KCWO05069A
Reference Name: WESKEM PAD
Requestor: Paducah

Sample Results

Date Received: 6/21/2001
Date Analyzed: 7/5/2001

Sample Matrix: 6-liter Canisters
Analytical Method: EPA method TO-14A

Laboratory Sample Number: 01062107-001
Customer Sample Number: 3504Z1-2OVPS01

Tentatively Identified Compound (TIC)	CAS Nos.	Laboratory Blank (ppb-v)	DF	TOTAL(3) (ppb-v)	TOTAL(2) (ppb-v)	Flags*
Acetaldehyde	75-07-0	0.0	1.0	6.2	6.2	
Unknown		0.0	1.0	0.6	0.6	
Propanal	123-38-6	0.0	1.0	5.2	5.2	
Hexane	110-54-3	0.0	1.0	25.4	25.4	
Methylcyclopentane	96-37-7	0.0	1.0	6.4	6.4	
Pentanal	110-62-3	0.0	1.0	1.0	1.0	
Hexanal	66-25-1	0.0	1.0	1.3	1.3	
Hexamethylcyclotrisiloxane	541-05-9	0.0	1.0	3.0	3.0	
Heptanal	111-71-7	0.0	1.0	1.2	1.2	

Notes:

ppb-v = *parts per billion (volume/volume)*
MDL = *Method Detection Limit*
PQL = *Practical Quantitation Limit*
RL = *Reporting Limit*
DF = *Sample dilution factor*
ND = *not detected*
TOTAL(3) = *Total sample concentration after sample dilution factor adjustment*
TOTAL(2) = *Total sample concentration after sample dilution factor adjustment and laboratory blank adjustment*
TOTAL(3) = *Total sample concentration after sample dilution factor adjustment. Concentration of TIC calculated using nearest internal standard and response ratio of 1:1*

Sample Result Qualifiers

B	Analyte found in the Laboratory blank and sample.
E	Sample concentration exceeds the calibration range of the instrument.
J	Semiquantitative sample result value (value between MDL and PQL)
U	Undetected, analyzed for, but not detected (value below MDL)

COPY

July 12,2001

Laboratory Report ID: 01062107
Laboratory Name: Johns Manville Technical Center
Industrial Hygiene Laboratory
Reference Number: KCWO05069A
Reference Name: WESKEM PAD
Requestor: Paducah

Quality Assu n Results Summai

Sample Matrix: 6-liter Canisters
Analytical Method: EPA method TO-14A

Date Analyzed: 7/5/2001

Laboratory QC Type: Method Blank
Laboratory QC Number: Canister Blank

Requested Analysis	MDL (ppb-v)	PQL (ppb-v)	Actual Amount Spiked (ppb-v)	Actual Amount Recovered (ppb-v)	Percent Recovery	Pass / Fail
Dichlorodifluoromethane (Freon 12)	0.28	2.00	< MDL	< MDL	N/A	pass
Chloromethane	0.63	2.00	< MDL	< MDL	N/A	pass
1,2-Dichlorotetrafluoroethane (Freon 114)	0.50	2.00	< MDL	< MDL	N/A	pass
Vinyl chloride	0.81	2.00	< MDL	< MDL	N/A	pass
Bromomethane	0.62	2.00	< MDL	< MDL	N/A	pass
Chloroethane	0.83	2.00	< MDL	< MDL	N/A	pass
Trichlorofluoromethane (Freon 11)	1.58	4.00	< MDL	< MDL	N/A	pass
1,1-Dichloroethene	2.60	4.00	< MDL	< MDL	N/A	pass
Dichloromethane (Methylene chloride)	1.85	4.00	< MDL	< MDL	N/A	pass
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.35	4.00	< MDL	< MDL	N/A	pass
1,1-Dichloroethane	0.88	2.00	< MDL	< MDL	N/A	pass
cis-1,2-Dichloroethene	0.17	2.00	< MDL	< MDL	N/A	pass
Chloroform	0.20	2.00	< MDL	< MDL	N/A	pass
1,2-Dichloroethane	0.24	2.00	< MDL	< MDL	N/A	pass
1,1,1-Trichloroethane	0.18	2.00	< MDL	< MDL	N/A	pass
Benzene	0.15	2.00	< MDL	< MDL	N/A	pass
Carbon tetrachloride	0.20	2.00	< MDL	< MDL	N/A	pass
1,2-Dichloropropane	0.10	2.00	< MDL	< MDL	N/A	pass
Trichloroethene	0.12	2.00	< MDL	< MDL	N/A	pass
cis-1,3-Dichloropropene	0.20	2.00	< MDL	< MDL	N/A	pass
trans-1,3-Dichloropropene	0.29	2.00	< MDL	< MDL	N/A	pass
1,1,2-Trichloroethane	0.08	2.00	< MDL	< MDL	N/A	pass
Toluene	0.12	2.00	< MDL	< MDL	N/A	pass
1,2-Dibromoethane	0.17	2.00	< MDL	< MDL	N/A	pass
Tetrachloroethene	0.18	2.00	< MDL	< MDL	N/A	pass
Chlorobenzene	0.10	2.00	< MDL	< MDL	N/A	pass
Ethyl benzene	0.13	2.00	< MDL	< MDL	N/A	pass
m, p-Xyenes	0.20	2.00	< MDL	< MDL	N/A	pass
Styrene	0.19	2.00	< MDL	< MDL	N/A	pass
1,1,2,2-Tetrachloroethane	0.23	2.00	< MDL	< MDL	N/A	pass
o-Xylene	0.12	2.00	< MDL	< MDL	N/A	pass
1,3,5-Trimethylbenzene	0.21	2.00	< MDL	< MDL	N/A	pass
1,2,4-Trimethylbenzene	0.18	2.00	< MDL	< MDL	N/A	pass
1,3-Dichlorobenzene	0.28	2.00	< MDL	< MDL	N/A	pass
1,4-Dichlorobenzene	0.31	2.00	< MDL	< MDL	N/A	pass
1,2-Dichlorobenzene	0.30	2.00	< MDL	< MDL	N/A	pass
1,2,4-Trichlorobenzene	0.77	2.00	< MDL	< MDL	N/A	pass
Hexachloro-1,3-butadiene	0.66	2.00	< MDL	< MDL	N/A	pass

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July 12,2001

Laboratory Report ID: 01062107
Laboratory Name: Johns Manville Technical Center
Industrial Hygiene Laboratory
Reference Number: KCWO05069A
Reference Name: WESKEM PAD
Requestor: Paducah

Quality Assurance Results Summary

Sample Matrix: 6-liter Canisters
Date Analyzed: 7/5/2001
Analytical Method: EPA method TO-14A

Laboratory QC Type: **Laboratory Control Sample**
Laboratory QC Number: **2nd Standard**

Requested Analysis	MDL (ppb-v)	PQL (ppb-v)	Actual Amount Spiked (ppb-v)	Actual Amount Recovered (ppb-v)	Percent Recovery	Pass/ Fail
Dichlorodifluoromethane (Freon 12)	0.28	2.00	20.313	25.11	123.6%	pass
Chloromethane	0.63	2.00	20.508	23.56	114.9%	pass
1,2-Dichlorotetrafluoroethane (Freon 114)	0.50	2.00	20.508	23.77	115.9%	pass
Vinyl chloride	0.81	2.00	20.508	24.25	118.2%	pass
Bromomethane	0.62	2.00	20.508	23.06	112.4%	pass
Chloroethane	0.83	2.00	20.508	21.63	105.5%	pass
Trichlorofluoromethane (Freon 11)	1.58	4.00	20.313	21.88	107.7%	pass
1,1-Dichloroethene	2.60	4.00	20.117	24.43	121.4%	pass
Dichloromethane(Methylene chloride)	1.85	4.00	20.508	24.85	121.2%	pass
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.35	4.00	20.313	23.42	115.3%	pass
1,1-Dichloroethane	0.88	2.00	20.703	24.68	119.2%	pass
cis-1,2-Dichloroethene	0.17	2.00	20.508	24.59	119.9%	pass
Chloroform	0.20	2.00	20.703	24.59	118.8%	pass
1,2-Dichloroethane	0.24	2.00	20.703	25.76	124.4%	pass
1,1,1-Trichloroethane	0.18	2.00	20.703	24.75	119.5%	pass
Benzene	0.15	2.00	20.898	23.69	113.4%	pass
Carbon tetrachloride	0.20	2.00	20.313	30.41	149.7%	fail (>30%)
1,2-Dichloropropane	0.10	2.00	20.703	25.16	121.5%	pass
Trichloroethene	0.12	2.00	20.508	22.61	110.2%	pass
cis-1,3-Dichloropropene	0.20	2.00	20.508	24.63	120.1%	pass
trans-1,3-Dichloropropene	0.29	2.00	20.703	23.60	114.0%	pass
1,1,2-Trichloroethane	0.08	2.00	20.703	23.33	112.7%	pass
Toluene	0.12	2.00	20.703	22.77	110.0%	pass
1,2-Dibromoethane	0.17	2.00	20.703	23.77	114.8%	pass
	0.21	2.00				
	0.18	2.00	20.703	21.75		
	0.28	2.00	19.922	20.92		
	0.31	2.00	19.922	22.35		
1,2-Dichlorobenzene	0.30	2.00	19.922	21.28		
1,2,4-Trichlorobenzene	0.77	2.00	20.508	19.06	92.9%	pass
					100.6%	pass

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Johns Manville Corporation
10100 W. Ute Avenue (80127)
P.O. Box 625005
Littleton, CO 80162-5005
303 978 2000

COVER PAGE

June 6, 2001

NFT, Incorporated
NFT Sample Management Office
Ms. Marie Meszaros
105 Mitchell Road, Suite 202
Oak Ridge, TN 37830

Laboratory Report ID: 01062105
Laboratory Name: Johns Manville Technical Center Industrial Hygiene Laboratory
Reference Number: KCWO05069A
Reference Name: WESKEM PAD
Site: Paducah

Dear Ms. Meszaros:

The Johns Manville Technical Center (JMTC) has performed the following analytical services as requested. The results are calculated based upon the information supplied on the submission form. All laboratory data has been filed and are available upon request.
The JMTC IH Analytical Laboratory is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program (Certificate No. 056) and in the environmental lead program for paint chips, dust wipes and soil.
If you have any questions, please call (303) 978-2584.

Scope of Work:

Requested Analysis	Number of Samples	Sampling Matrix	Method	Date of Analysis
Asbestos Fiber Count	1	MCE filter	NIOSH 7400 ("A" rules) Issue 2,	
Organic Compounds (GC/FID)	1	Charcoal tube		

I certify that this sample data package is in compliance with SOW requirements (if applicable), both technically and for completeness, other than the conditions detailed in the case narrative. Release of the data contained in this hard-copy sample package and the computer-readable EDD, as applicable, submitted on diskette or by modem, has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Scott A. Steiner
Industrial Hygiene Project Manager

Date

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June 6,2001

Laboratory Report ID: 01062105
Laboratory Name: Johns Manville Technical Center
Industrial Hygiene Laboratory
Reference Number: KCWO05069A
Reference Name: WESKEM PAD
Requestor: Paducah

$ample Results

Date Received: 6/21/2001
Date Analyzed: 6/21/2001

Sample Matrix: MCE filter
Analytical Method: NIOSH 7400 ("A" rules)

Laboratory Sample Number	Customer Sample Number	Requested Analysis	Number of Fibers	Number of Fields	Fiber Density	Air Volume	Air Concentration
01062105-001	3504Z1-2ASBB01	Fibers by PCM ("A" rules)	9.5 fibers	100 fields	12.102 fibers/mm^2	110.6 L.	0.042 fibers/cc

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June 6,2001

Laboratory Report ID: 01062105
Laboratory Name: Johns Manville Technical Center
Industrial Hygiene Laboratory
Reference Number: KCWO05069A
Reference Name: WESKEM PAD
Requestor: Paducah

Sample Results

Date Received: 6/21/2001
Date Analyzed: 7/3/2001

Sample Matrix: Charcoal tube
Analytical Method OSHA 07

Laboratory Sample Number: 01062105-002
Customer Sample Number: 3504Z1-2OVPB01

Requested Analysis	CAS #	Reporting Limit	Backup Section	Main Section	Total	Air Volume	Air Concentration
1,1-Dichloroethane	75-34-3	10 µg	< 10 µg	< 10 µg		5.71 L.	< 0.4 ppm
1,2-Dichlorobenzene	95-50-1	11 µg	< 11 µg	< 11 µg			< 0.3 ppm
cis-1,2-Dichloroethene	540-59-0	12 µg	< 12 µg	< 12 µg			< 0.5 ppm
trans-1,2-Dichloroethene	540-59-0	12 µg	< 12 µg	< 12 µg			< 0.5 ppm
1,4-Dichlorobenzene	106-46-7	11 µg	< 11 µg	< 11 µg			< 0.3 ppm
Cyclohexane	110-82-7	10 µg	< 10 µg	< 10 µg			< 0.5 ppm
n-Hexane	110-54-3	11 µg	< 11 µg	< 11 µg			< 0.5 ppm
Isobutyl alcohol	78-83-1	10 µg	< 10 µg	< 10 µg			< 0.6 ppm

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June 6,2001

Laboratory Report ID: 01062105
Laboratory Name: Johns Manville Technical Center
Industrial Hygiene Laboratory
Reference Number: KCWO05069A
Reference Name: WESKEM PAD
Requestor: Paducah

Quality Assurance Results Summary

Sample Matrix: MCE filter
Date Analyzed: 6/21/2001
Analytical Method: NIOSH 7400 ("A" rules)

Laboratory QC Type	Laboratory QC Number	Requested Analysis	Expected Recovery	Actual Recovery	Percent Recovery	Pass / Fail
Method Blank	QC01062142	Fibers by PCM ("A" rules)	< 7 fibers/mm2	< 7 fibers/mm2	N/A	*pass*
Laboratory Control Sample	QC01062141	Fibers by PCM ("A" rules)	68.7 fibers/mm2	70.70 fibers/mm2	102.9 %	*pass*

Limits: *Minimum* (7.00 fibers/mm^2) / *Maximum* (16.60 fibers/mm^2)

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June 6,2001

Laboratory Report ID: 01062105
Laboratory Name: Johns Manville Technical Center
Industrial Hygiene Laboratory
Reference Number: KCWOO5069A
Reference Name: WESKEM PAD
Requestor: Paducah

Quality Assurance Results Summary

Sample Matrix: Charcoal tube
Date Analyzed: 7/3/2001
Analytical Method: OSHA 07

Laboratory QC Type	Laboratory QC Number	Requested Analysis	Expected Recovery	Actual Recovery	Percent Recovery	Pass / Fail
Preparation Blank	Prep. Blank	1,1-Dichloroethane	< 10 µg/ml	< 10 µg/ml	N/A	pass
		1,2-Dichlorobenzene	< 11 pglrnl	< 11 pglrnl	N/A	pass
		cis-1,2-Dichloroethene	< 12 µg/ml	< 12 µg/ml	N/A	pass
		trans-1,2-Dichloroethene	< 12 pglrnl	< 12 pglml	N/A	pass
		1,4-Dichlorobenzene	< 11 µg/ml	< 11 µg/ml	N/A	pass
		Cyclohexane	< 10 pglrnl	< 10 pglrnl	N/A	pass
		n-Hexane	< 11 pglrnl	< 11 pglrnl	N/A	pass
		Isobutyl alcohol	< 10 pglml	< 10 pglml	N/A	pass
Preparation Blank Spike	Prep. Spike	1,1-Dichloroethane	1411.2 pglml	1421.4 pglml	100.7%	pass
		1,2-Dichlorobenzene	1567.2 pglrnl	1580.8 pglml	100.9%	pass
		cis-1,2-Dichloroethene	1538.4 pglrnl	1550.5 pglml	100.8%	pass
		trans-1,2-Dichloroethene	1502.4 pglml	IS 12.0 µg/ml	100.6%	pass
		1,4-Dichlorobenzene	2040.0 µg/ml	2072.5 pglrnl	101.6%	pass
		Cyclohexane	934.8 µg/ml	936.9 pglml	100.2%	pass
		n-Hexane	792.0 µg/ml	783.6 µg/ml	98.9%	pass
		Isobutyl alcohol	963.6 pglml	965.4 pglml	100.2%	pass

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Johns Manville Corporation
10100 W. Ute Avenue (80127)
P.O. Box 625005
Littleton, CO 80162-5005
303 978 2000

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June 6,2001

NFT, Incorporated
NFT Sample Management Office
Ms. Marie Meszaros
105 Mitchell Road, Suite 202
Oak Ridge, TN 37830

Laboratory Report ID: 01062104
Laboratory Name: Johns Manville Technical Center Industrial Hygiene Laboratory
Reference Number: KCWO05069A
Reference Name: WESKEM **PAD**
Site: Paducah

Dear Ms. Meszaros:

The Johns Manville Technical Center (JMTC) has performed the following analytical services as requested. The results are calculated based upon the information supplied on the submission form. All laboratory data has been filed and are available upon request.
The JMTC IH Analytical Laboratory is accredited by the American Industrial Hygiene Association **(AIHA)** in the industrial hygiene program (Certificate No. *056)* and in the environmental lead program for paint chips, dust wipes and soil.
If you have any questions, please call **(303)** 978-2584.

Scope of Work:

Requested Analysis	Number of Samples	Sampling Matrix	Method	Date of Analysis
Asbestos Fiber Count	1	MCE filter	NIOSH 7400 (**"A"** rules) Issue 2, 4th Edition, 8/15/94	6/21/2001

I certify that this sample data package **is** in compliance with SOW requirements (if applicable), both technically and for completeness, other than the conditions detailed in the case narrative. Release of the data contained in this hard-copy sample package and the computer-readable EDD, **as** applicable, submitted on diskette or by modem, has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Scott A. Steiner
Industrial Hygiene Project Manager

7/9/01
Date

COPY

June 6,2001

Laboratory Report ID: 01062104
Laboratory Name: Johns Manville Technical Center
Industrial Hygiene Laboratory
Reference Number: KCWO05069A
Reference Name: WESKEM PAD
Requestor: Paducah

Sample Results

Date Received: 6/21/2001
Date Analyzed: 6/21/2001

Sample Matrix: MCE filter
Analytical Method: NIOSH 7400 ("A" rules)

Laboratory Sample Number	Customer Sample Number	Requested Analysis	Number of Fibers	Number of Fields	Fiber Density	Air Volume	Air Concentration
01062104-001	3504Z1-2ASBA01	Fibers by PCM ("A" rules)	0.5 fibers	100 fields	< 7 fibers/mm^2	841.6 L.	< 0.003 fibers/cc

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June 6,2001

Laboratory Report ID: 01062104
Laboratory Name: Johns Manville Technical Center
Industrial Hygiene Laboratory
Reference Number: KCWQ05069A
Reference Name: WESKEM PAD
Requestor: Paducah

Quality Assurance Results Summary

Date Analyzed: 6/21/2001

Sample Matrix: MCE filter
Analytical Method: NIOSH 7400 ("A" rules)

Laboratory QC Type	Laboratory QC Number	Requested Analysis	Expected Recovery	Actual Recovery	Percent Recovery	Pass / Fail
Method Blank	QCO1062142	Fibers by PCM ("A" rules)	< 7 fibers/mm2	< 7 fibers/mm2		
Laboratory Control Sample	QC01062141	Fibers by PCM ("A" rules)	68.7 fibers/mm2	70.70 fibers/mm2		

Limits: *Minimum* (7.00 fibers/mm^2) / *Maximum* (16.60 fibers/mm^2)

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USEC
A Global Energy Company

July 6,2001

Ms. Jan Buckmaster
5600 Hobbs Road
Paducah, KY 42001

Ms. Marie Meszaros
Sample Management Office
NFT Incorporated
East Tennessee Technical Park
Building K1035, Room 114
Hwy. 58 and Blair Road
Oak Ridge, TN 37830

Dear Ms. Buckmaster and Ms. Meszaros:

Analytical Results – SDG No. 5069B – 070601 (P.O. 0000793)

The enclosed data reports contain analytical results of samples that were submitted to the Portsmouth Laboratory for SOW KCWO05069B on June 21, 2001.

If you have any questions concerning the analyses or the data, please contact Nancy Smith at (740)897-3824.

Sincerely,

Debby Perez
ES&H Analytical Group Manager

DKP:khr

Enclosure

File: POEF-330-01-196

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United States Enrichment Corporation
Portsmouth Gaseous Diffusion Plant, P.O. Box 628, Piketon, OH 45661
Telephone *740-897-2331* **Fax 740-897-2909 http://www.usec.com**

Portsmouth Analytical Laboratory
Official Report

Customer Smpl Id: 3504Z1-2META01
Project:X-02-IH KCW0050698
Subproj Analyses:AIR
Customer:N J SMITH

Matrix: AIR
Protocol:NONE
Status: APPROVED
Location:

Sampled: 06/05/01 13:49:00
Received: 06/21/01 07:10:22
Needed: 07/05/01 23:59:00
Approved: 07/03/01 14:31:20

COC#: C4M8-3-USEC
Sample Desc:
Customer Comments:
Lab Smpl Comments:

Analy Meth:NIOSH-7300-2 QC Batch:QC01184030 Test:7300FILTER Rpt Basis:Not Corrected Date Approve
Prep Meth: Analyzed:07/02/01 00:00:00 T E SHOOK Approver: E K GILBERT 07/03/01 14:3

Analyte Name	Result	+/-	Unit	Qual	Fn	LCR	Dilu	HT	CLF
Arsenic	0.332		ug/filter	U		0.332	1		
Beryllium	0.009		ug/filter	B		0.00334	1		
Cadmium	0.0362		ug/filter	6		0.0256	1		
Chromium	0.776		ug/filter	B		0.147	1		
Lead	0.322		ug/filter	U		0.322	1		
Nickel	1.29		ug/filter			0.121	1		
Selenium	0.461		ug/filter	B		0.32	1		
Silver	0.039		ug/filter	U		0.039	1		
Thallium	0.35		ug/filter	U		0.35	1		

EPA Qualifiers:
B - Analyte result less than the Practical Quantitation Limit (PQL) and greater than or equal to the Instrument Detection Limit (IDL).
U - Analyte analyzed for but undetected. Analyte result was below the Instrument Detection Limit (IDL).

USEC PORTS Analytical Lab
P.O. Box 628 Piketon OH 45661 740-897-5702
Lab Director: Deborah K. Perez
***** END OF REPORT *****

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Portsmouth Analytical Laboratory
Official Report

Customer Smpl Id: 3504Z1-2METB01
Project:X-02-IH KCW005069B
Subproj Analyses:AIR
Customer:N J SMITH

Matrix: AIR
Protocol:NONE
Status: APPROVED
Location:

Sampled: 05/31/01 10:45:00
Received: 06/21/01 07:10:22
Needed: 07/05/01 23:59:00
Approved: 07/03/01 14:31:21

COC#: C4MB-3-USEC
Sample Desc:
Customer Comments:
Lab Smpl Comments:

Analy Meth:NIOSH-7300-2 QC Batch:QC01184030 Test:7300FILTER Rpt Basis:Not Corrected Date Approved
Prep Meth: Analyzed:07/02/01 00:00:00 T E SHOOK Approver: E K GILBERT 07/03/01 14:30

Analyte Name	Result	+/-	Unit	Qual	Fn	LCR	Dilu	HT	CLF
Arsenic	0.332		ug/filter	U		0.332	1		
Beryllium	0.0112		ug/filter	B		0.00334	1		
Cadmium	0.0256		ug/filter	U		0.0256	1		
Chromium	0.697		ug/filter	B		0.147	1		
Lead	0.322		ug/filter	U		0.322	1		
Nickel	0.733		ug/filter			0.121	1		
Selenium	0.32		ug/filter	U		0.32	1		
Silver	0.039		ug/filter	U		0.039	1		
Thallium	0.35		ug/filter	U		0.35	1		

EPA Qualifiers:

B - Analyte result less than the Practical Quantitation Limit (PQL) and greater than or equal to the Instrument Detection Limit (IDL).

U - Analyte analyzed for but undetected. Analyte result was below the Instrument Detection Limit (IDL).

USEC PORTS Analytical Lab
P.O. Box 628 Piketon OH 45661 740-897-5702
Lab Director: Deborah K. Perez

***** END OF REPORT *****

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Portsmouth Analytical Laboratory
Official Report

Customer Smpl Id: 3504Z1-2PCBB01
Project:X-02-IH KCW005069B
Subproj Analyses:AIR
Customer:N J SMITH

Matrix: AIR
Protocol:NONE
Status: APPROVED
Location:

Sampled: 06/05/01 10:45:00
Received: 06/21/01 07:10:35
Needed: 07/05/01 23:59:00
Approved: 07/03/01 14:46:56

COC#: C4MB-3-USEC
Sample Desc:
Customer Comments:
Lab Smpl Comments:

Analy Meth:NIOSH-5503 QC Batch:QC01184020 Test:PCBAIR Rpt Basis:Not Corrected Date Approve
Prep Meth: Analyzed:07/03/01 00:00:00 D G OPALINSKI Approver: P J SPROUSE 07/03/01 14:4

Analyte Name	Result	+/-	Unit	Qual	Fn	LCR	Dilu	HT	CLF
PCB, Total	.01		ug/tube	U		.01	1		

EPA Qualifiers:
U - Analyte analyzed for but undetected. Analyte result was below the Limit of Quantitation (LOQ).

USEC PORTS Analytical Lab
P.O. Box 628 Piketon OH 45661 740-897-5702
Lab Director: Deborah K. Perez
***** END OF REPORT *****

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Portsmouth Analytical Laboratory
Official Report

Customer Smpl Id: 3504Z2METW01
Project:X-02-IH KCW005069B
Subproj Analyses:WIPE
Customer:N J SMITH

Matrix: WIPE
Protocol:NONE
Status: APPROVED
Location:

Sampled: 06/05/01 10:22:00
Received: 06/21/01 07:10:32
Needed: 07/05/01 23:59:00
Approved: 07/03/01 14:31:56

COC#: 35041E-13-USEC
Sample Desc:
Customer Comments:
Lab Smpl Comments:

Analy Meth:NIOSH-7300-1 QC Batch:QC01184030 Test:7300FILTER Rpt Basis:Not Corrected Date Approved
Prep Meth: Analyzed:07/02/01 00:00:00 T E SHOOK Approver: E K GILBERT 07/03/01 14:31

Analyte Name	Result	+/-	Unit	Qual	Fn	LCR	Dilu	HT	CLF
Arsenic	0.332		ug/wipe	U		0.332	1		
Barium	2.68		ug/wipe			0.00676	1		
Beryllium	0.0106		ug/wipe	B		0.00334	1		
Cadmium	0.139		ug/wipe	B		0.0256	1		
Chromium	1.61		ug/wipe			0.147	1		
Lead	1.30		ug/wipe	B		0.322	1		
Nickel	93.8		ug/wipe			0.121	1		
Selenium	0.32		ug/wipe	U		0.32	1		
Silver	0.039		ug/wipe	U		0.039	1		
Thallium	0.35		ug/wipe	U		0.35	1		

Comments: Ba not an approved element for NIOSH 7300, however, analysis was performed per customer's request.

EPA Qualifiers:

B - Analyte result less than the Practical Quantitation Limit (PQL) and greater than or equal to the Instrument Detection Limit (IDL).

U - Analyte analyzed for but undetected. Analyte result was below the Instrument Detection Limit (IDL).

USEC PORTS Analytical Lab
P.O. Box 628 Piketon OH 45661 740-897-5702
Lab Director: Deborah K. Perez

***** END OF REPORT *****

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Portsmouth Analytical Laboratory
Official Report

Customer Smpl Id: 3504Z2PC8W01
Project:X-02-IH KCW005069B
Subproj Analyses:WIPE
Customer:N J SMITH

Matrix: WIPE
Protocol:NONE
Status: APPROVED
Location:

Sampled: 06/05/01 10:22:00
Received: 06/21/01 07:10:49
Needed: 07/05/01 23:59:00
Approved: 07/03/01 12:14:09

COC#: 3504IE-13-USEC
Sample Desc:
Customer Comnents:
Lab Smpl Comments:

Analy Meth:PORTS-XP4-TS-OA7033 QC Batch:QC01180008 Test:PCBWIPE Rpt Basis:Not Corrected Date Approve
Prep Meth: Analyzed:06/22/01 00:00:00 F R MACHESKY Approver: P J SPROUSE 07/03/01 12:1

Analyte Name	Result	+/-	Unit	Qual	Fn	LCR	Dilu	HT	CLF
PCB, Total	10		ug/wipe	U		10	1		

EPA Qualifiers:
U - Analyte analyzed for but undetected. Analyte result was below the Limit of Quantitation (LOQ).

USEC PORTS Analytical Lab
P.O. Box 628 Piketon OH 45661 740-897-5702
Lab Director: Deborah K. Perez
***** END OF REPORT *****

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SAMPLE ACCEPTANCE CHECKLIST

This checklist applies to samples received on this Chain-of-Custody form.

✓ 1. AN required data entries are complete, legible and the latest form revision is being used.

NA 2. Samples have been scanned arid do riot exhibit surface wipe contamination > 100 counts per minute with either alpha or beta/gamma survey meters.

✓ 3. Samples are not leaking, nor do they have broken or damaged places.

✓ 4. NPDES and RCRA samples are identified and the analytical methods to be used are properly identified.

NA 5. Customer cooler temperature verified to be between 2°C and 6°C. (Use a thermometer, and record the temperature read in the space for item 5.)

✓ 6. Sample label data are legible and agree exactly with information on COC Record forms.

✓ 7. pH preservation data is documented and in agreement with EPA or programmatic requirements.

✓ 8. The samples received are within their holding time and retain sufficient holding time for laboratory analysis.

NA 9. Tamper Indicating Devices on shipped samples were intact upon receipt of sample at the laboratory.

NA 10. All containers of a sample for which PCB analysis is requested have PCB labels affixed.

& 11. Volatile samples have zero headspace.

ICPD	6-21-0
Initials	Date

COMMENTS BY CHAIN-OF-CUSTODY SECTION:

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JohnsManville

Johns Manville Corporation
10100 W. Ute Avenue (80127)
P.O. Box 625005
Littleton, CO 80162-5005
303 978 2000

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November 6,2001

WESKEM, LLC.
Jan Buckmaster
5600 Hobbs Road
M/S 7431
Paducah, KY 42001

Laboratory Report ID: 01102910
Laboratory Name: Johns Manville IH Laboratory
Reference Number: KCWO05069A
Reference Name: DMSA 335-04
Site: Paducah

Dear Ms. Buckmaster:

The Johns Manville Technical Center (JMTC) has performed the following analytical services as requested. The results are calculated based upon the information supplied on the submission form. All laboratory data has been filed and are available upon request.
The JMTC IH Analytical Laboratory is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program (Certificate No. 056) and in the environmental lead program for paint chips, dust wipes and soil.
If you have any questions, please call (303) 978-2584.

Scope of Work:

Requested Analysis	Number of Samples	Sampling Matrix	Method	Date of Analysis
Organic Compounds (GC/FID)	1	Charcoal tube	OSHA 07	11/2/2001

I certify that this sample data package is in compliance with SOW requirements (if applicable), both technically and for completeness, other than the conditions detailed in the case narrative. Release of the data contained in this hard-copy sample package and the computer-readable EDD, as applicable, submitted on diskette or by modem, has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Scott A. Steiner
Industrial Hygiene Project Manager

11/6/2001
Date

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November 6,2001

Laboratory Report ID: 01102910
Laboratory Name: Johns Manville IH Laboratory
Reference Number: KCWO05069A
Reference Name: DMSA 335-04
Requestor: Paducah

Sample Results

Date Received: 10/29/2001
Date Analyzed: 11/2/2001

Sample Matrix: Charcoal tube
Analytical Method: OSHA 07

Laboratory Sample Number: 01102910-001
Customer Sample Number: 3504OVPB03

Requested Analysis	CAS #	Reporting Limit	Backup Section	Main Section	Total	Air Volume	Air Concentration
1,1-Dichloroethane	75-34-3	10 µg	< 10 µg	< 10 µg			
1,2-Dichlorobenzene	95-50-1	11 µg	< 11 µg	< 11 µg			-
cis-1,2-Dichloroethene	540-59-0	12 µg	< 12 µg	< 12 µg			-
trans-1,2-Dichloroethene	540-59-0	12 µg	< 12 µg	< 12 µg			-
1,4-Dichlorobenzene	106-46-7	11 µg	< 11 µg	< 11 µg			-
Cyclohexane	110-82-7	10 µg	< 10 µg	< 10 µg			-
n-Hexane	110-54-3	11 µg	< 11 µg	< 11 µg			-
Isobutyl alcohol	78-83-1	10 µg	< 10 µg	< 10 µg			-

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November 6,2001

Laboratory Report ID: 01102910
Laboratory Name: Johns Manville IH Laboratory
Reference Number: KCWO05069A
Reference Name: DMSA 335-04
Requestor: Paducah

Quality Assurance Results Summary

Date Analyzed: 11/2/2001

Sample Matrix: Charcoal tube
Analytical Method: OSHA 07

Laboratory QC Type	Laboratory QC Number	Requested Analysis	Expected Recovery	Actual Recovery	Percent Recovery	Pass / Fail
Preparation Blank	PB1	1,1-Dichloroethane	< 10 µg/ml	< 10 µg/ml	N/A	pass
		1,2-Dichlorobenzene	< 11 µg/ml	< 11 pglml	N/A	pass
		cis-1,2-Dichloroethene	< 12 µg/ml	< 12 µg/ml	N/A	pass
		trans-1,2-Dichloroethene	< 12 µg/ml	< 12 µg/ml	N/A	pass
		1,4-Dichlorobenzene	< 11 pglml	< 11 µg/ml	NIA	pass
		Cyclohexane	< 10 µg/ml	< 10 µg/ml	N/A	pass
		n-Hexane	< 11 µg/ml	< 11 µg/ml	NIA	pass
		Isobutyl alcohol	< 10 µg/ml	< 10 µg/ml	N/A	pass
Preparation Blank Spike	PBS1	1,1-Dichloroethane	1411.2 µg/ml	1427.5 µg/ml	101.2%	pass
		1,2-Dichlorobenzene	1567.2 pglml	1609.3 pglml	102.7%	pass
		cis-1,2-Dichloroethene	1538.4 µg/ml	1573.5 pglml	102.3%	pass
		trans-1,2-Dichloroethene	1502.4 µg/ml	1493.5 µg/ml	99.4%	pass
		1,4-Dichlorobenzene	2260.0 µg/ml	2312.0 µg/ml	102.3%	pass
		Cyclohexane	934.8 µg/ml	961.3 µg/ml	102.8%	pass
		n-Hexane	792.0 µg/ml	813.5 µg/ml	102.7%	pass
		Isobutyl alcohol	963.6 µg/ml	964.7 µg/ml	100.1%	pass
Matrix Blank	MB1	1,1-Dichloroethane	< 10 µg	< 10 µg	NIA	pass
		1,2-Dichlorobenzene	< 11 µg	< 11 µg	N/A	pass
		cis-1,2-Dichloroethene	< 12 µg	< 12 µg	N/A	pass
		trans-1,2-Dichloroethene	< 12 µg	< 12 µg	N/A	pass
		1,4-Dichlorobenzene	< 11 µg	< 11 µg	N/A	pass
		Cyclohexaae	< 10 µg	< 10 µg	N/A	pass
		n-Hexane	< 11 µg	< 11 µg	NIA	pass
		Isobutvl alcohol	< 10 µg	< 10 µg	N/A	pass
Matrix Blank Spike	MBS1	1,1-Dichloroethane	1764.0 µg	1480.3 µg	83.9%	pass
		1,2-Dichlorobenzene	1959.0 µg	1683.2 µg	85.9%	pass
		cis-1,2-Dichloroethene	1923.0 µg	1810.2 µg	94.1%	pass
		Cyclohexane	1168.5 µg	944.3 µg	80.8%	pass
		n-Hexane	990.0 jig	910.9 µg	92.0%	pass
Matrix Blank Spike	MBS1	1,1-Dichloroethane	1764.0 µg	1430.3 µg	81.1%	pass
		1,2-Dichlorobenzene	1959.0 µg	1696.4 µg	86.6%	pass
		cis-1,2-Dichloroethene	1923.0 µg	1805.3 µg	93.9%	pass
		Cyclohexane	1168.5 µg	938.6 µg	80.3%	pass
		n-Hexane	990.0 jig	901.9 µg	91.1%	pass

Limits: *80% - 120%*

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Johns Manville

Johns Manville Corporation
10100 W. Ute Avenue (80127)
P.O. Box 625005
Littleton, CO 80162-5005
303 978 2000

COVER PAGE

November 2, 2001

WESKEM, LLC.
Jan Buckmaster
5600 Hobbs Road
M/S 7431
Paducah, KY 42001

Laboratory Report ID: 01 102909
Laboratory Name: Johns Manville IH Laboratory
Reference Number: KCWO05069A
Reference Name: DMSA 335-04
Site: Paducah

Dear Ms. Buckmaster:

The Johns Manville Technical Center (JMTC) has performed the following analytical services as requested. The results are calculated based upon the information supplied on the submission form. All laboratory data has been filed and are available upon request.
The JMTC IH Analytical Laboratory is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program (Certificate No. 056) and in the environmental lead program for paint chips, dust wipes and soil.
If you have any questions, please call (303) 978-2584.

Scope of Work:

Requested Analysis	Number of Samples	Sampling Matrix	Method	Date of Analysis
Asbestos Fiber Count	1	MCE filter	NIOSH 7400 ("A" rules) Issue 2, 4th Edition, 8/15/94	11/1/2001

I certify that this sample data package is in compliance with SOW requirements (if applicable), both technically and for completeness, other than the conditions detailed in the case narrative. Release of the data contained in this hard-copy sample package and the computer-readable EDD, as applicable, submitted on diskette or by modem, has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Scott A. Steiner
Industrial Hygiene Project Manager

11/2/2001
Date

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November 2,2001

Laboratory Report ID: 01102909
Laboratory Name: Johns Manville IH Laboratory
Reference Number: KCWO05069A
Reference Name: DMSA 335-04
Requestor: Paducah

Sample Results

Date Received 10/29/2001
Date Analyzed: 11/1/2001

Sample Matrix: MCE filter
Analytical Method: **NIOSH 7400 ("A" rules)**

Laboratory Sample Number	Customer Sample Number	Requested Analysis	Number of Fibers	Number of Fields	Fiber Density	Air Volume	Air Concentration
01102909-001	3504ASBB03	Fibers by PCM ("A" rules)	5.0 fibers	100 fields	< 7 fibers/mm^2		

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November 2,2001

Laboratory Report ID: 01102909
Laboratory Name: Johns Manville IH Laboratory
Reference Number: KCWO05069A
Reference Name: DMSA 335-04
Requestor: Paducah

Quality Assurance Results Summary

Sample Matrix: **MCE** filter
Analytical Method: **NIOSH 7400 ("A"** rules)

Date Analyzed: **11/1/2001**

Laboratory QC Type	Laboratory QC Number	Requested Analysis	Expected Recovery	Actual Recovery	Percent Recovery	Pass / Fail
Method Blank	QC01103104	Fibers by **PCM ("A"** rules)	< 7 fibers/mm2	< 7 fibers/mm2	N/A	*pass*
Laboratory Control Sample	QC01103103	Fibers by **PCM ("A"** rules)	55.7 fibers/mm2	63.03 fibers/mm2	113.2%	*pass*

Limits: ***80% - 120%***

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USEC
A Global Energy Company

November 14,2001

Ms. Jan Buckmaster
5600 Hobbs Road
Paducah, KY 42001

Ms. Marie Meszaros
Sample Management Office
NFT Incorporated
East Tennessee Technical Park
Building K1035, Room 114
Hwy. 58 and Blair Road
Oak Ridge, TN 37830

Dear Ms. Buckmaster and Ms. Meszaros:

Analytical Results – SDG No. 5069B – 11 1401 (P.O. 0000793)

The enclosed data reports contain analytical results of samples that were submitted to the Portsmouth Laboratory for SOW KCWO05069B on October 29,2001.

If you have any questions concerning the analyses or the data, please contact Nancy Smith at (740) 897-3824.

Sincerely,

Debby Perez
ES&H Analytical Group Manager

DKP:NJS:ver

Enclosure

File: POEF-330-01-356

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United States Enrichment Corporation
Portsmouth Gaseous Diffusion Plant, P.O. Box 628, Piketon, OH 45661
Telephone 740-897-2331 Fax 740-897-2909 http://www.usec.com

Portsmouth Analytical Laboratory
Official Report

Customer Smpl Id: 3504PCBB03
Project:X-02-IH KCW005069B
Subproj Analyses:AIR
Customer:N J SMITH

Matrix: AIR
Protocol: NONE
Status: APPROVED
Location:

Sampled: 08/01/01 17:40:00
Received: 10/29/01 14:30:19
Needed: 11/11/01 23:59:00
Approved: 11/06/01 14:21:33

COC#: PADUCAH
Sample Desc:
Customer Comments:
Lab Smpl Comnents:

Analy Meth :NIOSH-5503 QC Batch:QC01309021 Test:PCBAIR Rpt Basis:Not Corrected Date Approve
Prep Meth: Analyzed:11/01/01 00:00:00 R J SCHWAB Approver: P J SPROUSE 11/06/01 14:2

Analyte Name	Result	+/-	Unit	Qual	Fn	LOR	Dilu	HT	CLF
PCB, Total	0.01		ug/tube	U		0.01	1	L	

EPA Qualifiers:
U - Analyte anaiyzed for but undetected. Analyte result was below the Limit of Quantitation (LOQ).

USEC PORTS Analytical Lab
P.O. Box 628 Piketon OH 45661 740-897-5702
Lab Director: Deborah K. Perez
***** END OF REPORT *****

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Portsmouth Analytical Laboratory
Official Report

Customer Smpl Id: 3504METB03
Project:X-02-IH KCW005069B
Subproj Analyses:AIR
Customer:N J SMITH

Matrix: AIR
Protocol: NONE
Status: APPROVED
Location:

Sampled: 08/01/01 17:40:00
Received: 10/29/01 14:30:46
Needed: 11/11/01 23:59:00
Approved: 11/09/01 13:46:47

COC#: PADUCAH
Sample Desc:
Customer Comments:
Lab Smpl Comments:

Analy Meth:NIOSH-7300-2 QC Batch:QC01313000 Test:7300FILTER Rpt Basis:Not Corrected Date Approve'
Prep Meth: Analyzed:11/06/01 00:00:00 T E SHOOK Approver: A L SHULTZ 11/09/01 13:4

Analyte Name	Result	+/-	Unit	Qual	Fn	LCR	Dilu	HT	CLF
Arsenic	0.332		ug/filter	U		0.332	1		
Beryllium	0.0042		ug/filter	B		0.00334	1		
Cadmium	0.0256		ug/filter	U		0.0256	1		
Chromium	1.29		ug/filter			0.147	1		
Cobalt	0.0934		ug/filter	U		0.0937	1		
Lead	0.322		ug/filter	U		0.322	1		
Nickel	0.319		ug/filter	B		0.121	1		
Selenium	0.678		ug/filter	B		0.32	1		
Silver	0.041		ug/filter	B		0.039	1		
Thallium	0.35		ug/filter	U		0.35	1		

EPA Qualifiers:
B - Analyte result less than the Practical Quantitation Limit (PQL) and greater than or equal to the Instrument Detection Limit (IDL).
U - Analyte analyzed for but undetected. Analyte result was below the Instrument Detection Limit (IDL).

USEC PORTS Analytical Lab
P.O. Box 628 Piketon OH 45661 740-897-5702
Lab Director: Deborah K. Perez
***** END OF REPORT *****

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SAMPLE ACCEPTANCE CHECKLIST

This checklist applies to samples received on this Chain-of-Custody form.

✓ 1. All required data entries are complete, legible and the latest form revision is being used.

NC 2. Samples have been scanned and do not exhibit surface wipe contamination > 100 counts per minute with either alpha or beta/gamma survey meters.

✓ 3. Samples are not leaking, nor do they have broken or damaged places.

✓ 4. NPDES and RCRA samples are identified and the analytical methods to be used are properly identified.

NC 5. Customer cooler temperature verified to be between 2°C and 6°C. (Use a thermometer, and record the temperature read in the space for item 5.)

✓ 6. Sample label data are legible and agree exactly with information on COC Record forms.

NA 7. pH preservation data is documented and in agreement with EPA or programmatic requirements.

✓ 8. m e samples received am within their holding time and retain sufficient holding time for laboratory analysis.

✓ 9. Tamper Indicating Devices on shipped samples were intact upon receipt of sample at the laboratory

NA 10. All containers of a sample for which PCB analysis is requested have PCB labels affixed.

NA 11. Volatile samples have zero headspace.

JVT — Initials

10-29-01 — Date

COMMENTS BY CHAIN-OF-CUSTODY SECTION:

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USEC
A Global Energy Company

February 7,2002

Ms. Jan Buckmaster
5600 Hobbs Road
Paducah, KY 42001

Ms. Marie Meszaros
Sample Management Office
NFT Incorporated
East Tennessee Technical Park
Building K1035, Room 114
Hwy. 58 and Blair Road
Oak Ridge, TN 37830

Dear Ms. Buckmaster and Ms. Meszaros:

Analytical Results – SDG No. 5069B – 020702(P.O. 0000793)

The enclosed data reports contain analytical results of samples that were submitted to the Portsmouth Laboratory for SOW KCWO05069B on January 16-23, 2002.

If you have any questions concerning the analyses or the data, please contact Nancy Smith at (740) 897-3824.

Sincerely,

Debby Perez
ES&H Analytical Group Manager

DKP:NJS:ver

Enclosure

File: POEF-330-02-028

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United States Enrichment Corporation
Portsmouth Gaseous Diffusion Plant, P.O. Box 628, Piketon, OH 45661
Telephone 740-897-2331 Fax 740-897-2909 http://www.usec.com

Portsmouth Analytical Laboratory
Revised Report REV 01

Customer Smpl Id: 3504METB01
Project:X-02-IH KCW005069B
Subproj Analyses:AIR
Customer:N J SMITH

Matrix: AIR
Protocol:NONE
Status: APPROVED
Location:

Sampled: 07/30/01 17:50:00
Received: 01/23/02 14:50:41
Needed: 02/05/02 23:59:00
Approved: 01/31/02 13:11:03

COC#: PADUCAH
Sample Desc:
Customer Comments:
Lab Smpl Comments:.

*Analy Meth:NIOSH-7300-2 QC Batch:QC02029003 Test:7300FILTER Rpt Basis:Not Corrected Date Approve
Prep Meth: Analyzed:01/29/02 00:00:00 K A DAYS Approver: E K GILBERT 01/31/02 13:'

Analyte Name	Result	+/-	Unit	Qual	Fn	LCR	Dilu	HT	CLF
Arsenic	0.78		ug/filter	U		0.78	1	X	
Beryllium	0.00368		ug/filter	U		0.00368	1	X	
Cadmium	0.052		ug/filter	B		0.0444	1	X	
Chromium	1.16		ug/filter			0.087	1	X	
Cobalt	0.0818		ug/filter	U		0.0818	I	X	
Lead	0.69		ug/filter	U		0.69	1	X	
Nickel	0.193		ug/filter	U		0.193	1	X	
Selenium	0.976		ug/filter	U		0.976	1	X	
Silver	0.110		ug/filter	U		0.110	1	X	
Thallium	0.446		ug/filter	U		0.446	1	X	

Comments: Air filter was sampled on July 31, 2001; sample was received January 23, 2002; analysis was completed January 29, 2002 which was outside of the 6 month holding time for metals analysis as defaulted in LIMS. After reviewing NIOSH 7300, it appears that there is no established holding time listed for air filters.

EPA Qualifiers:
B - Analyte result less than the Practical Quantitation Limit (PQL) and greater than or equal to the Instrument Detection Limit (IDL).
U - Analyte analyzed for but undetected. Analyte result was belou the Instrument Detection Limit (IDL).

An asterisk (*) beside a Cust Smpl Id, Test, Analyte Id, Aliquot or TIC CAS Id indicates a modification after re-open.

USEC PORTS Analytical Lab
P.O. Box 628 Piketon OH 45661 740-897-5702
Lab Director: Deborah K. Perez

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***** END OF REPORT *****

Portsmouth Analytical Laboratory
Revised Report REV 01

Customer Smpl Id: 3504METB02
Project:X-02-IH KCW0050698
Subproj Analyses:AIR
Customer:N J SMITH

Matrix: AIR
Protocol:NONE
Status: APPROVED
Location:

Sampled: 07/31/01 17:40:00
Received: 01/23/02 14:50:41
Needed: 02/05/02 23:59:00
Approved: 01/31/02 13:11:03

COC#: PADUCAH
Sample Desc:
Customer Comments:
Lab Smpl Comments:.

*Analy Meth:NIOSH-7300-2 QC Batch:QC02029003 Test:7300FILTER Rpt Basis:Not Corrected Date Approve
Prep Meth: Analyzed:01/29/02 00:00:00 K A DAYS Approver: E K GILBERT 01/31/02 13:1

Analyte Name	Result	+/-	Unit	Qual	Fn	LCR	Dilu	HT	CLF
Arsenic	0.78		ug/filter	U		0.78	1	X	
Beryllium	0.00368		ug/filter	U		0.00368	1	X	
Cadmium	0.0444		ug/filter	U		0.0444	1	X	
Chromium	0.691		ug/filter	B		0.087	1	X	
Cobalt	0.0818		ug/filter	U		0.0818	1	X	
Lead	0.69		ug/filter	U		0.69	1	X	
Nickel	0.193		ug/filter	U		0.193	1	X	
Selenium	0.976		ug/filter	U		0.976	1	X	
Silver	0.110		ug/filter	U		0.110	1	X	
Thallium	0.446		ug/filter	U		0.446	1	X	

Comments: Air filter was sampled on July 31, 2001; sample was received January 23, 2002; analysis was completed January 29, 2002 which was outside of the 6 month holding time for metals analysis as defaulted in LIMS. After reviewing NIOSH 7300, it appears that there is no established holding time listed for air filters.

EPA Qualifiers:
B - Analyte result less than the Practical Quantitation Limit (POL) and greater than or equal to the Instrument Detection Limit (IDL).
U - Analyte analyzed for but undetected. Analyte result was below the Instrument Detection Limit (IDL).

An asterisk (*) beside a Cust Smpl Id, Test, Analyte Id, Aliquot or TIC CAS Id indicates a modification after re-open.

USEC PORTS Analytical Lab
P.O. Box 628 Piketon OH 45661 740-897-5702
Lab Director: Deborah K. Perez

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***** END OF REPORT *****

Portsmouth Analytical Laboratory
Official Report

Customer Smpl Id: 3504METB05
Project:X-02-IH KCW005069B
Subproj Analyses:AIR
Customer:N J SMITH

Matrix: AIR
Protocol:NONE
Status: APPROVED
Location:

Sampled: 09/04/01 17:55:00
Received: 01/23/02 14:50:41
Needed: 02/05/02 23:59:00
Approved: 01/31/02 12:03:10

COC#: PADUCAH
Sample Desc:
Customer Comments:
Lab Smpl Comments:

Analy Meth:NIOSH-7300-2 QC Batch:QC02029003 Test:7300FILTER Rpt Basis:Not Corrected Date Approv
Prep Meth: Analyzed:01/29/02 00:00:00 K A DAYS Approver: A L SHULTZ 01/31/02 12:(

Analyte Name	Result	+/-	Unit	Qual	Fn	LCR	Dilu	HT	CLF
Arsenic	0.78		ug/filter	U		0.78	1		
Beryllium	0.00368		ug/filter	U		0.00368	1		
Cadmium	0.0444		ug/filter	U		0.0444	1		
Chromium	1.19		ug/filter			0.087	1		
Cobalt	0.0818		ug/filter	U		0.0818	1		
Lead	0.69		ug/filter	U		0.69	1		
Nickel	0.193		ug/filter	U		0.193	1		
Selenium	0.976		ug/filter	U		0.976	1		
Silver	0.110		ug/filter	U		0.110	1		
Thallium	0.446		ug/filter	U		0.446	1		

EPA Qualifiers:
U - Analyte analyzed for but undetected. Analyte result uas below the Instrument Detection Limit (IDL).

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USEC PORTS Analytical Lab
P.O. Box 628 Piketon OH 45661 740-897-5702
Lab Director: Deborah K. Perez
***** END OF REPORT *****

Portsmouth Analytical Laboratory
Official Report

Customer Smpl Id: 3504METB06
Project:X-02-IH KCW005069B
Subproj Analyses:AIR
Customer:N J SMITH

Matrix: AIR
Protocol:NONE
Status: APPROVED
Location:

Sampled: 09/05/01 13:55:00
Received: 01/23/02 14:50:41
Needed: 02/05/02 23:59:00
Approved: 01/31/02 12:03:08

COC#: PADUCAH
Sample Desc:
Customer Comments:
Lab Smpl Comments:

Analy Meth:NIOSH-7300-2 QC Batch:QC02029003 Test:7300FILTER Rpt Basis:Not Correctcd Date Approve
Prep Meth: Analyzed:01/29/02 00:00:00 K A DAYS Approver: A L SHULTZ 01/31/02 12:0

Analyte Name	Result	+/-	Unit	Qual	Fn	LCR	Dilu	RT	CLF
Arsenic	0.78		ug/filter	U		0.78	1		
Beryllium	0.00368		ug/filter	U		0.00368	1		
Cadmium	0.0728		ug/filter	B		0.0444	1		
Chromium	1.08		ug/filter			0.087	1		
Cobalt	0.0818		ug/filter	U		0.0818	1		
Lead	0.69		ug/filter	U		0.69	1		
Nickel	0.193		ug/filter	U		0.193	1		
Selenium	0.976		ug/filter	U		0.976	1		
Silver	0.110		ug/filter	U		0.110	1		
Thallium	0.446		ug/filter	U		0.446	1		

EPA Qualifiers:
B - Analyte result less than the Practical Quantitation Limit (PQL) and greater than or equal to the Instrument Detection Limit (IDL).
U - Analyte analyzed for but undetected. Analyte result was belou the Instrument Detection Limit (IDL).

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USEC PORTS Analytical Lab
P.O. Box 628 Piketon OH 45661 740-897-5702
Lab Director: Deborah K. Perez
***** END OF REPORT *****

Portsmouth Analytical Laboratory
Official Report

Customer Smpl Id: 3504PCBB02
Project:X-02-IH KCW005069B
Subproj Analyses:AIR
Customer:N J SMITH

Matrix: AIR
Protocol:NONE
Status: APPROVED
Location:

Sampled: 07/31/01 17:40:00
Received: 01/23/02 14:50:44
Needed: 02/05/02 23:59:00
Approved: 02/06/02 10:02:59

COC#: PADUCAH
Sample Desc:
Customer Comments:
Lab Smpl Comments:

Analy Meth:NIOSH-5503 QC Batch:QC02035051 Test:PCBAIR Rpt Basis:Not Corrected Date Approv
Prep Meth: Analyzed:01/31/02 00:00:00 D G OPALINSKI Approver: P J SPROUSE 02/06/02 10:

Anatyte Name	Result	+/-	Unit	Qual	Fn	LCR	Dilu	HT	CLF
Aroclor-1016	0.01		ug/tube	U		0.01	1	L	
Aroclor-1221	0.01		ug/tube	U		0.01	1	i	
Aroclor-1232	0.01		ug/tube	U		0.01	1	L	
Aroclor-1242	0.01		ug/tube	U		0.01	1	L	
Aroclor-1248	0.01		ug/tube	U		0.01	1	L	
Aroclor-1254	0.01		ug/tube	U		0.01	1	L	
Aroclor-1260	0.01		ug/tube	U		0.01	1	L	
Aroclor-1268	0.01		ug/tube	U		0.01	1	L	
PCE, Total	0.01		ug/tube	U		0.01	1	L	

EPA Qualifiers:
U - Analyte analyzed for but undetected. Analyte result was below the Limit of Quantitation (LOQ).

USEC PORTS Analytical Lab
P.O. Box 628 Piketon OH 45661 740-897-5702
Lab Director: Deborah K. Perez
***** END OF REPORT *****

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Portsmouth Analytical Laboratory
Official Report

Customer Smpl Id: 3504PCBB06
Project:X-02-IH KCW005069B
Subproj Analyses:AIR
Customer:N J SMITH

Matrix: AIR
Protocol:NONE
Status: APPROVED
Location:

Sampled: 09/05/01 13:55:00
Received: 01/23/02 14:50:44
Needed: 02/05/02 23:59:00
Approved: 02/06/02 10:03:40

COC#: PADUCAH
Sample Desc:
Customer Comnents:
Lab Smpl Comments:

Analy Meth:NJOSH-5503 QC Batch:QC02035051 Test:PCBAIR Rpt Basis:Not Corrected Date Approv
Prep Meth: Analyzed:01/31/02 00:00:00 D G OPALINSKJ Approver: P J SPROUSE 02/06/02 10:

Analyte Name	Result	+/-	Unit	Qual	Fn	LCR	Dilu	HT	CLF
Aroclor-1016	0.01		ug/tube	U		0.01	1	L	
Aroclor-1221	0.01		ug/tube	U		0.01	1	L	
Aroclor-1232	0.01		ug/tube	U		0.01	1	L	
Aroclor-1242	0.01		ug/tube	U		0.01	1	L	
Aroclor-1248	0.01		ug/tube	U		0.01	1	L	
Aroclor-1254	0.01		ug/tube	U		0.01	1	L	
Aroclor-1260	0.01		ug/tube	U		0.01	1	L	
Aroclor-1268	0.01		ug/tube	U		0.01	1	L	
PCB, Total	0.01		ug/tube	U		0.01	1	L	

EPA Qualifiers:
U - Analyte analyzed for but undetected.. Analyte result was below the Limit of Quantitation (LOQ).

USEC PORTS Analytical Lab
P.O. Box 628 Piketon OH 45661 740-897-5702
Lab Director: Deborah K. Perez

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***** END OF REPORT *****

CHAIN-OF-CUSTODY
SAMPLE ACCEPTANCE CHECKLIST

This checklist applies to samples received on this Chain-of-Custody form.

✓ 1. All required data entries are complete, legible and the latestform revision is being used.

na 2. Samples have been scanned and do not exhibit surface wipe contamination > 100 counts per minute with either alpha or beta/gamma survey meters.

✓ 3. Samples are not leaking, nor do they have broken or damaged places.

✓ 4. NPDES and RCRA samples are identified and the analytical methods to be used are properly identified

na 5. Customer cooler temperature verified to be between 2°C and 6°C. (Use a thermometer, and record the temperature read in the space for item 5.)

✓ 6. Sample label data are legible and agree exactly with information on COC Record forms.

na 7. pH preservation data is documented and in agreement with EPA or programmatic requirements.

✓ 8. The samples received are within their holding time and retain sufficient holding time for laboratory analysis.

✓ 9. *Tamper Indicating Devices on shipped samples were intact upon receipt of sample at the laboratory.

na 10. All containers of a sample for which PCB analysis is requested have PCB labels affixed.

na 11. Volatile samples have zero headspace.

JVT	1-23-02
Initials	Date

COMMENTS BY CHAIN-OF-CUSTODY SECTION:

COPY

USEC
A Global Energy Company

September 24, 2001

Ms. Jan Buckmaster
5600 Hobbs Road
Paducah, KY 42001

Ms. Marie Meszaros
Sample Management Office
NFT Incorporated
East Tennessee Technical Park
Building K1035, Room 114
Hwy. 58 and Blair Road
Oak Ridge, TN 37830

Dear Ms. Buckmaster and Ms. Meszaros:

Analytical Results – SDG No. 5069B – 092401 (P.0.0000793)

The enclosed data reports contain analytical results of samples that were submitted to the Portsmouth Laboratory for SOW KCWO05069B on August 28,2001 – September 10,2001. PCB sample reports to follow.

If you have any questions concerning the analyses or the data, please contact Nancy Smith at 740-897-3824.

Sincerely,

Debby Perez
ES&H Analytical Group Manager

DKP:cs

Enclosure

File: POEF-330-01-254

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United States Enrichment Corporation
Portsmouth Gaseous Diffusion Plant, P.O. Box 628, Piketon, OH 45661
Telephone 740-897-2331 Fax 740-897-2909 http://m.usec.com

Portsmouth Analytical Laboratory
Official Report

Customer Smpl Id: 3504METB04
Project:X-02-IH KCWO05069B
Subproj Analyses:AIR
Customer:N 3 SMITH

Matrix: AIR
Protocol:NONE
Status: APPROVED
Location:

Sampled: 08/02/01 17:45:00
Received: 08/29/01 15:30:13
Needed: 09/11/01 23:59:00
Approved: 09/11/01 09:45:18

COC#: PADUCAH
Sample Desc:
Customer Comments:
Lab Smpl Comments:

Analy Meth:NIOSH-7300-2 QC Batch:QC01253002 Test:7300FILTER Rpt Basis:Not Corrected Date Approve
Prep Meth: Analyzed:09/06/01 00:00:00 T E SHOOK Approver: E K GILBERT 09/11/01 09:4

Analyte Name	Result	+/-	Unit	Qual	Fn	LCR	Dilu	HT	CLF
Arsenic	0.332		ug/filter	U		0.332	1		
Beryllium	0.004		ug/filter	B		0.00334	1		
Cadmium	0.099		ug/filter	B		0.0256	1		
Chromium	1.10		ug/filter	B		0.147	1		
Coba1t	0.12		ug/filter	B		0.0934	1		
Lead	0.592		ug/filter	B		0.322	1		
Nickel	0.388		ug/filter	B		0.121	1		
Selenium	0.32		ug/filter	U		0.32	1		
Silver	0.039		ug/filter	U		0.039	1		
Tha11ium	0.589		ug/filter	B		0.35	1		

Qualifiers:
Analyte result less than the Practical Quantitation Limit (PQL) and greater than or equal to the Instrument Detection Limit (IDL).
U - Analyte analyzed for but undetected. Analyte result was below the Instrument Detection Limit (IDL).

USEC PORTS Analytical Lab
P.O. Box 628 Piketon OH 45661 740-897-5702
Lab Director: Deborah K. Perez

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***** END OF REPORT *****

Portsmouth Analytical Laboratory
Official Report

Customer Smpl Id: 3504PCBB04
Project:X-02-IH KCWO05069B
Subproj Analyses:AIR
Customer:N J SMITH

Matrix: AIR
Protocol:NONE
Status: APPROVED
Location:

Sampled: 08/02/01 17:45:00
Received: 08/29/01 15:30:20
Needed: 09/11/01 23:59:00
Approved: 09/06/01 19:07:59

COC#: PADUCAH
Sample Desc:
Customer Comments:
Lab Smpl Comments:

Analy Meth:NIOSH-5503 QC Batch:QC01249019 Test:PCBAIR Rpt Basis:Not Corrected Date Approve
Prep Meth: Analyzed:09/06/01 00:00:00 R J SCHWAB Approver: P J SPROUSE 09/06/01 19:0

Analyte Name	Result	+/-	Unit	Qual	Fn	LCR	Dilu	HT	CLF
PCB, Total	0.01		ug/tube	U		0.01	1		

EPA Qualifiers:
U - Analyte analyzed for but undetected. Analyte result was below the Limit of Quantitation (LOQ).

USEC PORTS Analytical Lab
P.O. Box 628 Piketon OH 45661 740-897-5702
Lab Director: Deborah K. Perez

***** END OF REPORT *****

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Johns Manville

Johns Manville Corporation
10100 W. Ute Avenue (80127)
P.O. Box 625005
Littleton, CO 80162-5005
303 978 2000

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September 5, 2001

WESKEM, LLC.
Jan Buckmaster
5600 Hobbs Road
M/S 7431
Paducah, KY 42001

Laboratory Report ID: 01083011
Laboratory Name: Johns Manville Technical Center Industrial Hygiene Laboratory
Reference Number: KCWO05069A
Reference Name: DMSA 335-04
Site: Paducah

Dear Ms. Buckmaster:

The Johns Manville Technical Center (JMTC) has performed the following analytical services as requested. The results are calculated based upon the information supplied on the submission form. All laboratory data has been filed and are available upon request.
The JMTC IH Analytical Laboratory is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program (Certificate No. 056) and in the environmental lead program for paint chips, dust wipes and soil.
If you have any questions, please call (303) 978-2584.

Scope of Work:

Requested Analysis	Number of Samples	Sampling Matrix	Method	Date of Analysis
Asbestos Fiber Count	1	MCE filter	NIOSH 7400 ("A" rules) issue 2, 4th Edition, 8/15/94	9/4/2001

I certify that this sample data package is in compliance With SOW requirements (if applicable), both technically and for completeness, other than the conditions detailed in the case narrative. Release of the data contained in this hard-copy sample package and the computer-readable EDD, as applicable, submitted on diskette or by modem, has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Scott A. Steiner
Industrial Hygiene Project Manager

9/5/01
Date

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September 5,2001

Laboratory Report ID: 01083011
Laboratory Name: Johns Manville Technical Center
Industrial Hygiene Laboratory
Reference Number: KCWO05069A
Reference Name: DMSA 335-04
Requestor: Paducah

Sample Results

Date Received: 8/30/2001
Date Analyzed: 9/4/2001

Sample Matrix: MCE filter
Analytical Method: NIOSH 7400 ("A" rules)

Laboratory Sample Number	Customer Sample Number	Requested Analysis	Number of Fibers	Number of Fields	Fiber Density	Air Volume	Air Concentration
01083011-001	3504ASBB04	Fibers by PCM ("A" rules)	6.0 fibers	100 fields	7.639 fibers/mm^2		

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September 5,2001

Laboratory Report ID: 01083011
Laboratory Name: Johns Manville Technical Center
Industrial Hygiene Laboratory
Reference Number: KCWO05069A
Reference Name: DMSA 335-04
Requestor: Paducah

Quality Assurance Results Summary

Date Analyzed: 9/4/2001

Sample Matrix: MCE filter
Analytical Method: NIOSH 7400 ("A" rules)

Laboratory QC Type	Laboratory QC Number	Requested Analysis	Expected Recovery	Actual Recovery	Percent Recovery	Pass / Fail
Method Blank	QC01083102	Fibers by PCM ("A" rules)	< 7 fibers/mm2	< 7 fibers/mm2	N/A	*pass*
Laboratory Control Sample	QCO I083101	Fibers by PCM ("A" rules)	55.5 fibers/mm2	59.21 fibers/mm2	106.7%	*pass*

Limits: *80% - 120%*

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September 5,2001

WESKEM, LLC.
Jan Buckmaster
5600 Hobbs Road
M/S 7431
Paducah, KY 42001

Laboratory Report ID: 01083001
Laboratory Name: Johns Manville Technical Center Industrial Hygiene Laboratory
Reference Number: KCWO05069A
Reference Name: DMSA 335-04
Site: Paducah

Dear Ms. Buckmaster:

The Johns Manville Technical Center (JMTC) has performed the following analytical services as requested. The results are calculated based upon the information supplied on the submission form. All laboratory data has been filed and are available upon request.
The JMTC IH Analytical Laboratory is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program (Certificate No. 056) and in the environmental lead program for paint chips, dust wipes and soil.
If you have any questions, please call (303) 978-2584.

Scope of Work:

Requested Analysis	Number of Samples	Sampling Matrix	Method	Date of Analysis
Organic Compounds (GC/FID)	1	Charcoal tube	OSHA 07	9/4/2001

Scott A. Steiner
Industrial Hygiene Project Manager

9/5/01
Date

COPY

September 5, 2001

Laboratory Report ID: 01083001
Laboratory Name: Johns Manville Technical Center
Industrial Hygiene Laboratory
Reference Number: KCWO05069A
Reference Name: DMSA 335-04
Requestor: Paducah

Sample Results

Date Received: 8/30/2001
Date Analyzed: 9/4/2001

Sample Matrix: Charcoal tube
Analytical Method: OSHA 07

Laboratory Sample Number: 01083001-001
Customer Sample Number: 3504OVPB04

Requested Analysis	CAS #	Reporting Limit	Backup Section	Main Section	Total	Air Volume	Air Concentration
1,1-Dichloroethane	75-34-3	10 µg	< 10 µg	< 10 µg			
1,2-Dichlorobenzene	95-50-1	11 µg	< 11 µg	< 11 µg			
cis-1,2-Dichloroethene	540-59-0	12 µg	< 12 µg	< 12 µg			
trans-1,2-Dichloroethene	540-59-0	12 µg	< 12 µg	< 12 µg			
1,4-Dichlorobenzene	106-46-7	11 µg	< 11 µg	< 11 µg			
Cyclohexane	110-82-7	10 µg	< 10 µg	< 10 µg			
n-Hexane	110-54-3	11 µg	< 11 µg	< 11 µg			
Isobutyl alcohol	78-83-1	10 µg	< 10 µg	< 10 µg			

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September 5,2001

Laboratory Report ID: 01083001
Laboratory Name: Johns Manville Technical Center
Industrial Hygiene Laboratory
Reference Number: KCWO05069A
Reference Name: DMSA 335-04
Requestor: Paducah

Quality Assurance Results Summary

Sample Matrix: Charcoal tube
Date Analyzed: 9/4/2001
Analytical Method: OSHA 07

Laboratory QC Type	Laboratory QC Number	Requested Analysis	Expected Recovery	Actual Recovery	Percent Recovery	Pass / Fail
Preparation Blank	Prep. Blank	1,1-Dichloroethane	< 10 pglml	< 10 µg/ml	N/A	pass
		1,2-Dichlorobenzene	< 11 µg/ml	< 11 pglml	N/A	pass
		cis-1,2-Dichloroethene	< 12 pglml	< 12 µg/ml	N/A	pass
		trans-1,2-Dichloroethene	< 12 pglrnl	< 12 pglml	N/A	pass
		1,4-Dichlorobenzene	< 11 µg/ml	< 11 pglml	N/A	pass
		Cyclohexane	< 10 µg/ml	< 10 pglml	N/A	pass
		n-Hexane	< 11 µg/ml	< 11 pglml	N/A	pass
		Isobutvl alcohol	< 10 pglml	< 10 µg/ml	N/A	pass
Preparation Blank Spike	Prep. Spike	1,1-Dichloroethane	1411.2 pglrnl	1310.4 pglml	92.9%	pass
		1,2-Dichlorobenzene	1567.2 µg/ml	1555.1 µg/ml	99.2%	pass
		cis-1,2-Dichloroethene	1538.4 µg/ml	1445.2 pglml	93.9%	pass
		trans-1,2-Dichloroethene	1502.4 µg/ml	1395.9 pglml	92.9%	pass
		1,4-Dichlorobenzene	2480.0 µg/ml	2272.8 pglml	91.6%	pass
		Cyclohexane	934.8 pglrnl	894.6 µg/ml	95.7%	pass
		n-Hexane	792.0 pglrnl	746.9 µg/ml	94.3%	pass
		Isobutvl alcohol	963.6 pglrnl	918.1 µg/ml	95.3%	pass

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January 28,2002

WESKEM, LLC.
Jan Buckmaster
5600 Hobbs Road
M/S 7431
Paducah, KY 42001

Laboratory Report ID: 02012307
Laboratory Name: Johns Manville IH Laboratory
Reference Number: KCWO05069A
Reference Name: DMSA 335-04
Site: Paducah

Dear **Ms.** Buckmaster:

The Johns Manville Technical Center (JMTC) has performed the following analyticalservices as requested. The results are calculated based upon the information supplied on the submission **form.** All laboratory data has been **filed and** are available upon request.
The JMTC IH Analytical Laboratory is accredited by the American Industrial Hygiene Association (AIHA) **m** the industrial hygiene program (Certificate No. 056) **and m** the environmental lead program for paint chips, dust wipes and **soil.**
If you have any questions, please call (303) 978-2584.

Scope of Work:

Requested Analysis	Number of Samples	Sampling *Matrix*	Method	Date **of** Analysis
Asbestos Fiber Count	**4**	MCE filter	NIOSH 7400 ("A" rules) Issue 2, **4th** Edition, 8/15/94	1/25/2002
Organic Compounds (GC/FID)	3	Charcoal tube	OSHA 07	1/26/2002

I certify that this sample data package is **m compliance** with **SOW** requirements **(if** applicable), **both** technically and for completeness, other than the conditions detailed in the case narrative. Release **of** the data contained **m** this hard-copy sample package and the computer-readable EDD, as applicable, submitted on diskette or by modem, has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Scott A. Steiner
Industrial Hygiene Project Manager

1/28/2002
Date

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January 28,2002

Laboratory Report ID: 02012307
Laboratory Name: Johns Manville IH Laboratory
Reference Number: KCWO05069A
Reference Name: DMSA 335-04
Requestor: Paducah

Sample Results

Date Received: 1/23/2002
Date Analyzed: 1/25/2002

Sample Matrix: MCE filter
Analytical Method: NIOSH 7400 ("A" rules)

Laboratory Sample Number	Customer Sample Number	Requested Analysis	Number of Fibers	Number of Fields	Fiber Density	Air Volume	Air Concentration
02012307-001	3504ASBB01	Fibers by PCM ("A" rules)	1.0 fibers	100 fields	< 7 fibers/mm^2	149.1 L.	< 0.018 fibers/cc
02012307-002	3504ASBB02	Fibers by PCM ("A" rules)	1.5 fibers	100 fields	< 7 fibers/mm^2	104.5 L.	< 0.026 fibers/cc
02012307-003	3504ASBB05	Fibers by PCM ("A" rules)	0.0 fibers	100 fields	< 7 fibers/mm^2	168.9 L.	< 0.016 fibers/cc
02012307-004	3504ASBB06	Fibers by PCM ("A" rules)	3.0 fibers	100 fields	< 7 fibers/mm^2	325.8 L.	< 0.0083 fibers/c

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January 28,2002

Laboratory Report ID: 02012307
Laboratory Name: Johns Manville IH Laboratory
Reference Number: KCWO05069A
Reference Name: DMSA 335-04
Requestor: Paducah

Sample Results

Date Received: 1/23/2002
Date Analyzed: 1/26/2002

Sample Matrix: Charcoal tube
Analytical Method: OSHA 07

Laboratory Sample Number: 02012307-005
Customer Sample Number: 3504OVPB01

Requested Analysis	CAS #	Reporting Limit	Backup Section	Main Section	Total	Air Volume	Air Concentration
1,1-Dichloroethane	75-34-3	10 µg	< 10 µg	< 10 µg		11 L.	< 0.22 ppm
1,2-Dichlorobenzene	95-50-1	11 µg	< 11 µg	< 11 µg			< 0.17 ppm
cis-1,2-Dichloroethene	540-59-0	12 µg	< 12 µg	< 12 µg			< 0.28 ppm
trans-1,2-Dichloroethene	540-59-0	12 µg	< 12 µg	< 12 µg			< 0.28 ppm
1,4-Dichlorobenzene	106-46-7	11 µg	< 11 µg	< 11 µg			< 0.17 ppm
Cyclohexane	110-82-7	10 µg	< 10 µg	< 10 µg			< 0.26 ppm
n-Hexane	110-54-3	11 µg	< 11 µg	< 11 µg			< 0.28 ppm
Isobutyl alcohol	78-83-1	10 µg	< 10 µg	< 10 µg			< 0.30 ppm

Date Received: 1/23/2002
Date Analyzed: 1/26/2002

Sample Matrix: Charcoal tube
Analytical Method: OSHA 07

Laboratory Sample Number: 02012307-006
Customer Sample Number: 3504OVPB02

Requested Analysis	CAS #	Reporting Limit	Backup Section	Main Section	Total	Air Volume	Air Concentration
1,1-Dichloroethane	75-34-3	10 µg	< 10 µg	< 10 µg			
1,2-Dichlorobenzene	95-50-1	11 µg	< 11 µg	< 11 µg			
cis-1,2-Dichloroethene	540-59-0	12 µg	< 12 µg	< 12 µg			
trans-1,2-Dichloroethene	540-59-0	12 µg	< 12 µg	< 12 µg			
1,4-Dichlorobenzene	106-46-7	11 µg	< 11 µg	< 11 µg			
Cyclohexane	110-82-7	10 µg	< 10 µg	< 10 µg			
n-Hexane	110-54-3	11 µg	< 11 µg	< 11 µg			
Isobutyl alcohol	78-83-1	10 µg	< 10 µg	< 10 µg			

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January 28, 2002

Laboratory Report ID: 02012307
Laboratory Name: Johns Manville IH Laboratory
Reference Number: KCWO05069A
Reference Name: DMSA 335-04
Requestor: Paducah

Sample Results

Date Received: 1/23/2002
Date Analyzed: 1/26/2002

Sample Matrix: Charcoal tube
Analytical Method: OSHA 07

Laboratory Sample Number: 02012307-007
Customer Sample Number: 3504OVPB06

Requested Analysis	CAS #	Reporting Limit	Backup Section	Main Section	Total	Air Volume	Air Concentration
1,1-Dichloroethane	75-34-3	10 µg	< 10 µg	< 10 µg		20.0 L.	< 0.12 ppm
1,2-Dichlorobenzene	95-50-1	11 µg	< 11 µg	< 11 µg			< 0.092 ppm
cis-1,2-Dichloroethene	540-59-0	12 µg	< 12 µg	< 12 µg			< 0.15 ppm
trans-1,2-Dichloroethene	540-59-0	12 µg	< 12 µg	< 12 µg			< 0.15 ppm
1,4-Dichlorobenzene	106-46-7	11 µg	< 11 µg	< 11 µg			< 0.092 ppm
Cyclohexane	110-82-7	10 µg	< 10 µg	< 10 µg			< 0.15 ppm
n-Hexane	110-54-3	11 µg	< 11 µg	< 11 µg			< 0.16 ppm
Isobutyl alcohol	78-83-1	10 µg	< 10 µg	< 10 µg			< 0.16 ppm

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January 28,2002

Laboratory Report ID: **02012307**
Laboratory Name: **Johns** Manville **IH** Laboratory
Reference Number: KCWO05069A
Reference Name: DMSA **335-04**
Requestor: Paducah

Quality Assurance Results Summary

Sample Matrix: MCE filter
Date Analyzed: 1/25/2002
Analytical Method: NIOSH 7400 ("A" rules)

Laboratory QC Type	Laboratory QC Number	Requested Analysis	Expected Recovery	Actual Recovery	Percent Recovery	Pass / Fail
Method Blank	QC020 12402	**Fibers by PCM ("A" rules)**	**< 7 fibers/mm2**	**< 7 fibers/mm2**	**N/A**	*pass*
Laboratory Control Sample	**QC02012401**	Fibers by **PCM ("A" rules)**	128.7 fibers/mm2	118.41 fibers/mm2	92.0%	*pass*

Limits: ***80% - 120%***

COPY

January 28,2002

Laboratory Report ID: 02012307
Laboratory Name: Johns Manville IH Laboratory
Reference Number: KCWO05069A
Reference Name: DMSA 335-04
Requestor: Paducah

Quality Assurance Results Summary

Sample Matrix: Charcoal tube

Date Analyzed: 1/26/2002

Analytical Method: OSHA 07

Laboratory QC Type	Laboratory QC Number	Requested Analysis	Expected Recovery	Actual Recovery	Percent Recovery	Pass / Fail
Preparation Blank	PB1	1,1-Dichloroethane	< 10 µg/ml	< 10 µg/ml	N/A	pass
		1,2-Dichlorobenzene	< 11 µg/ml	< 11 µg/ml	N/A	pass
		cis-1,2-Dichloroethene	< 12 µg/ml	< 12 µg/ml	N/A	pass
		trans-1,2-Dichloroethene	< 12 µg/ml	< 12 µg/ml	N/A	pass
		1,4-Dichlorobenzene	< 11 µg/ml	< 11 µg/ml	N/A	pass
		Cyclohexane	< 10 µg/ml	< 10 µg/ml	N/A	pass
		n-Heme	< 11 µg/ml	< 11 µg/ml	N/A	pass
		Isobutyl alcohol	< 10 µg/ml	< 10 µg/ml	N/A	pass
Preparation Blank Spike	PBS1	1,1-Dichloroethane	1411.2 µg/ml	1353.29 µg/ml	95.9%	pass
		1,2-Dichlorobenzene	1567.2 µg/ml	1556.82 µg/ml	99.3%	pass
		cis-1,2-Dichloroethene	1538.4 µg/ml	1489.52 µg/ml	96.8%	pass
		trans-1,2-Dichloroethene	1502.4 µg/ml	1447.65 µg/ml	96.4%	pass
		1,4-Dichlorobenzene	2040.0 µg/ml	2117.46 µg/ml	103.8%	pass
		Cyclohexane	934.8 µg/ml	919.02 µg/ml	98.3%	pass
		n-Heme	792.0 µg/ml	773.37 µg/ml	97.6%	pass
		Isobutyl alcohol	963.6 µg/ml	931.46 µg/ml	96.7%	pass
Matrix Blank	MB1	1,1-Dichloroethane	< 10 µg	< 10 µg	N/A	pass
		1,2-Dichlorobenzene	< 11 µg	< 11 µg	N/A	pass
		cis-1,2-Dichloroethene	< 12 µg	< 12 µg	N/A	pass
		trans-1,2-Dichloroethene	< 12 µg	< 12 µg	N/A	pass
		1,4-Dichlorobenzene	< 11 µg	< 11 µg	N/A	pass
		Cyclohexane	< 10 µg	< 10 µg	N/A	pass
		n-Heme	< 11 µg	< 11 µg	N/A	pass
		Isobutyl alcohol	< 10 µg	< 10 µg	N/A	pass

Limits: *80%* - 720%

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Section 6

SME INSPECTION

SAMPLING STRATEGY (C-335-04) 9-6-01

RFD NUMBER	DMSA	CONTENTS	FROM ZONE	TO ZONE	RCRA CHAR	RCRA METAL	RCRA VOA	RCRA SVOA	PCB	ASB	WIPE	LIQUID	SOLID	SLUDGE	NO SAMPLING REQUIRED	NCS CONTROLLED	Comments
110431	DMSA-335-04-035	SEAL EXHAUST/ WET AIR TRAP													X		
110432	DMSA-335-04-031	SEAL EXHAUST/ WET AIR TRAP													X		
110433	DMSA-335-04-032	SEAL EXHAUSTIWET AIR TRAP													X		
110434	DMSA-335-04-033	SEAL EXHAUSTIWET AIR TRAP													X		
110435	DMSA-335-04-034	SEAL EXHAUST/ WET AIR TRAP													X		
110438	DMSA-335-04-096	SEAL EXHAUST/ WET AIR TRAP													X		
110437	DMSA-335-04-001-024	00 CONVERTER TRANSITION PCS			24 PIECES, TAGGED AS ONE										X		
110409	DMSA-335-04-069	FREON PUMP BASE			RFP 110409-01										X		
110410	DMSA-335-04-070073	FREON PUMP BASE			NUMBERS RFD-110410-01										X		
110411	DMSA-335-04-071075	FREON PUMP BASE			1 ITEM, 2 NUMBERS RFD-110411-01										X		
110428	DMSA-335-04-063	12' G-17 VALVE W/ MOTOR OPERATOR													X		
110427	DMSA-335-04-061	12' G-17 VALVE W/ MOTOR OPERATOR													X		
110429	DMSA-335-04-062	12' G-17 VALVE W/ MOTOR OPERATOR													X		
110430	DMSA-335-04-064	12' G-17 VALVE W/ MOTOR OPERATOR													X		
110419	DMSA-335-04-049	TRAP 10"x4			RFD-110419-01										X		
110420	DMSA-335-04-048	TRAP 10"x4			RFD-110420-01										X		
110421	DMSA-335-04-050	TRAP 10"x4			RFD-110421-01										X		
110412	DMSA-335-04-044	HYDRAULIC JACK													X		
110413	DMSA-335-04-042	HYDRAULIC JACK													X		
110414	DMSA-335-04-043	HYDRAULIC JACK													X		
110415	DMSA-335-04-045	HYDRAULIC JACK													X		
110416	DMSA-335-04-047	HYDRAULIC OIL PUMP			TO BE SAMPLED RFD-110416-01				x		1	1					System is equipped with an oil filter If liquid is present a liquid sample should be obtained If liquid is not present a wipe sample should be obtained.
110406	DMSA-335-04-046	ELECTRIC RELAY PANEL			RFD-110406 01										X		No circuit boards, batteries. fuses, or mercury switches.
110407	DMSA-335-04-088	KITCHEN UNIT (SMK. REFRIGERATOR ETC.)		WASTE											X		No asbestos identified by visual inspection

RFD NUMBER	DMSA	CONTENTS	FROM ZONE	TO ZONE	RCRA CHAR	RCRA METAL	RCRA VOA	RCRA SVOA	PCB	ASB	WIPE	LIQUID	SOLID	SLUDGE	NO SAMPLING REQUIRED	NCS CONTROLLED	Comments
110408	NO DMSA NUMBER	9 PALLETS & 4 PIECES OF PLYWOOD		WASTE	RFD-110408 01										X		
110422	DMSA-335-04-097	8-25 BOX													X		
110423	DMSA-335-04-095	B-25 BOX		WASTE											X		
110424	DMSA-335-04-096	B-25 BOX		WASTE											X		
110425	DMSA-335-04-093	8-25 BOX		WASTE											X		
110426	DMSA-335-04-094	B-25 BOX		WASTE											X		
110780	NO NUMBER ASSIGNED	HYDRAULIC FLUID DRAINED FROM RFD#110416-01	1	1													
110417	NO NUMBER ASSIGNED	DMSA WASTE GENERATION CONTAINER (WOOD)															
110418	NO NUMBER ASSIGNED	DMSA WASTE GENERATION CONTAINER (METAL)															
110477	NO NUMBER ASSIGNED	(7) LIGHT BULBS															

E NUMBER	DMSA	CONTENTS	FROM ZONE	TO ZONE	RCRA CHAR	RCRA METAL	RCRA VOA	RCRA SVOA	PCB	ASB	WIPE	LIQUID	SOLID	SLUDGE	NO SAMPLING REQUIRED	NCS CONTROLLED	Comments
E00010	DMSA-335-04-030	8'X10" FLANGED TRAP													X		
E00011	DMSA-335-04-029	8'X10" FLANGED TRAP													X		

Section 7

OREIS CHARACTERIZATION DATA REPORT

Notes

No duplicate samples were collected for this event. The following qualifiers were noted on the data reports:

- U- Analyzed for, but not detected at the analyte quantitation level
- M- RAD: Expected and measured value for MS is statistically different at 95% confidence level.

The following footnotes were noted on the report:

- R- Cs-134 activity will be understated due to the short half-life and will exclude any previous site induced Cs-134.
- A- Insufficient uranium present in the sample to determine an assay.
- Q- Mass of U-235 is < or = MDM, thus mass of total U/U isotopes won't be reported. Total U/U isotopes will be < their MDAs.

Scope

The scope of the project **is** to determine any RCRA, TSCA, or Radiological contaminants above regulatory limits to provide for proper storage and/or disposal.

Description of Waste

The waste consists of one waste stream, sample number 33504Z01CL11078001 (hydraulic fluid drained from RFD-110416-01).

Sampling and analysis

33504Z01CL11078001

One liquid sample of hydraulic fluid was collected from RFD-110416-01. The sample was analyzed for PCBs, RCRA metals and Radioisotopes. The RCRA metals were run as bulk instead of TCLP because of the oil matrix. The results will be evaluated against the bulk limits for RCRA Metals.

Evaluation of data against TSCA limits

The sample was reported detectable at 2.5 mg/kg.

Evaluation of data against RCRA limits

The results for all RCRA Metals were below regulatory bulk limits. Since this was an oil matrix the laboratory was not able to analyze for TCLP metals, therefore a bulk metals analysis was run. The analytical result for the hydraulic oil (110780-01) of 14 mg/kg was a bulk analysis and the result was applied against the bulk limit (100 PPM), which is 20 times the TCLP limit (5 PPM). The hydraulic oil was not considered hazardous for lead.

Evaluation of Rad results

The sample was result below 0.711% assay. All other radionuclides were reported as below the laboratory reporting limits.

Quality Control Evaluation

One quality control sample was collected, a BEF for PCBs, RCRA Metals and alpha and beta activity. The blank showed elevated levels of PCBs for PCB-1248 of 2.8 ug/wipe. The sample result was reported as below the laboratory reporting limit of 2 mg/kg and was not affected by the elevated blank. In addition the metals blank had results above the reporting limit for Barium and Silver. The results were both significantly below the reporting limit for the sample, therefore does not affect the sample result.

Recommendations

No additional Qualifiers are recommended. Data is useable for decision-making purposes. RFD-110780-01 should be managed as LLW.

Assessment By

Pat Paine

5/21/02

PaducahOREIS Report for: 33504-CH01-Z1

33504Z01CL11078001E from: on 8/28/01 Media: WQ SmpMethod:

Comments:

Analysis	Results	Counting Error	Units	Result Qual	Foot Note	Reporting Limit	Lab	Method	V/V/A*
METAL									
Arsenic	3.9		ug/L	U		3.9	RECRA	SW846-6010B	/ X /
Barium	1		ug/L			0.1	RECRA	SW846-6010B	/ X /
Cadmium	0.3		ug/L	U		0.3	RECRA	SW846-6010B	/ X /
Chromium	1.4		ug/L	U		1.4	RECRA	SW846-6010B	/ X /
Lead	2.4		ug/L	U		2.4	RECRA	SW846-6010B	/ X /
Mercury	0.1		ug/L	U		0.1	RECRA	SW846-7470A	/ X /
Selenium	3.2		ug/L	U		3.2	RECRA	SW846-6010B	/ X /
Silver	0.53		ug/L			0.5	RECRA	SW846-6010B	/ X /
RADS									
Alpha activity	-0.0127	0.00704	pCi/ml	U		0.0685	PGDP	RL-7111	/ X /
Beta activity	0.0038	0.000856	pCi/ml	U		0.0829	PGDP	RL-7111	/ X /

33504Z01CW11041601P from: on 8/28/01 Media: SQ SmpMethod:

Comments:

Analysis	Results	Counting Error	Units	Result Qual	Foot Note	Reporting Limit	Lab	Method	V/V/A*
PPCB									
PCB-1016	0.5		ug/wipe	U		0.5	PGDP	IH-570	/ X /
PCB-1221	0.5		ug/wipe	U		0.5	PGDP	IH-570	/ X /
PCB-1232	0.5		ug/wipe	U		0.5	PGOP	IH-570	/ X /
PCB-1242	0.5		ug/wipe	U		0.5	PGDP	IH-570	/ X /
PCB-1248	2.8		ug/wipe			0.5	PGDP	IH-570	/ X /
PCB-1254	0.5		ug/wipe	U		0.5	PGDP	IH-570	/ X /
PCB-1260	0.5		ug/wipe	U		0.5	PGDP	IH-570	/ X /
PCB-1268	0.5		ug/wipe	U		0.5	PGDP	IH-570	/ X /
Polychlorinatedbiphenyl	2.8		ug/wipe			0.5	PGDP	IH-570	/ X /

Approved for External Release

*Verification/Validation/Assessment

PaducahOREIS Report for: 33504-CH01-Z1

33504Z01CL11078001 from: C-33504-Z1 on 8/28/01 Media: LO SmpMethod: GR

Comments: HYDRAULIC FLUID DRAINED FROM RFD#110416-01 LOCATED IN ZONE 1

Analysis	Results	Counting Error	Units	Result Qual	Foot Note	Reporting Limit	Lab	Method	VNIA'
METAL									
Arsenic	0.39		mg/kg	U		0.39	RECRA	SW846-6010B	/ X /
Barium	3.9		mg/kg			0.01	RECRA	SW846-6010B	/ X /
Cadmium	4.1		mg/kg			0.03	RECRA	SW846-6010B	/ X /
Chromium	0.15		mg/kg			0.14	RECRA	SW846-6010B	/ X /
Lead	14		mg/kg			0.24	RECRA	SW846-6010B	/ X /
Mercury	0.01		mg/kg	U		0.01	RECRA	SW846-7471A	/ X /
Selenium	0.32		mg/kg	U		0.32	RECRA	SW846-6010B	/ X /
Silver	0.05		mg/kg	U		0.05	RECRA	SW846-6010B	/ X /
PPCB									
PCB-1016	2.1		mglkg	U		2.1	PGDP	SW846-8082	/ X /
PCB-1221	2.5		mglkg	U		2.5	PGDP	SW846-8082	/ X /
PCB-1232	2.2		mglkg	U		2.2	PGDP	SW846-8082	/ X /
PCB-1242	1.9		rnglkg	U		1.9	PGDP	SW846-8082	/ X /
PCB-1248	2		mg/kg	U		2	PGDP	SW846-8082	/ X /
PCB-1254	2		rnglkg	U		2	PGDP	SW846-8082	/ X /
PCB-1260	1.7		mg/kg	U		1.7	PGDP	SW846-8082	/ X /
PCB-1268	1.7		rnglkg	U		1.7	PGDP	SW846-8082	/ X /
Polychlorinated biphenyl	2.5		mglkg	U		2.5	PGDP	SW846-8082	/ X /
RADS									
Activity of U-235	0	0	pCi/g	U		0.00168	PGDP	RL-7124	/ X /
Alpha activity	0.136	0.0643	pCi/g	MU		0.669	PGDP	RL-7111	/ X /
Alpha activity	-0.453	0.64	pCi/g	U		2.68	PGDP	RL-7119	/ X /
Arnericiurn-241	0.0319	0.0638	pCi/g	U		0.115	PGDP	RL-7124	/ X /
Beta activity	0.119	0.0615	pCi/g	U		2.4	PGDP	RL-7119	/ X /
Beta activity	-0.0757	0.0168	pCi/g	U		0.865	PGDP	RL-7111	/ X /
Cesium-134	-0.0000975	0.000195	pCi/g	U	R	0.0253	PGDP	RL-7124	/ X /
Cesium-137	-0.00131	0.00262	pCi/g	U		0.0297	PGDP	RL-7124	/ X /
Cobalt60	0.0112	0.0224	pCi/g	U		0.0378	PGDP	RL-7124	/ X /
Neptunium-237	-0.00164	0.00328	pCi/g	U		0.0491	PGDP	RL-7124	/ X /
Plutonium-238	-0.0781	0.0559	pCi/g	U		0.385	PGDP	RL-7120	/ X /
Plutonium-239/240	-0.00541	0.0271	pCi/g	U		0.0843	PGDP	RL-7120	/ X /
Technetium-99	0.231	5.12	pCi/g	U		7.73	PGDP	RL-7116	/ X /
Thoriurn-228	0.00996	0.022	pCi/g	U		0.0713	PGDP	RL-7120	/ X /
Thorium-230	0.021	0.0348	pCi/g	U		0.28	PGDP	RL-7120	/ X /

*Verification/Validation/Assessment

PaducahOREIS Report for: 33504-CH01-Z1

Thorium-232	0.0115	0.0268	pCi/g	U		0.0901	PGDP	RL-7120	/ X /
Uranium			pCi/g	U	AQ	1.94	PGDP	RL-7124	/ X /
Uranium-234			pCi/g	U	AQ	1.49	PGDP	RL-7124	/ X /
Uranium-235	0.708		wt %				PGDP	AS7300	/ X /
Uranium-235			wt %		A		PGDP	RL-7124	/ X /
Uranium-238			pCi/g	U	Q	0.453	PGDP	RL-7124	/ X /

*Verification/Validation/Assessment

Section 8

INVENTORY AND CHARACTERIZATION REPORT

Inventory By DMSA No.

Curr. Zone	RFD #	Barcode #	Description	Vol. ft3	llw	tsca	rcra	mix	asb	fis	lnd	Gen. Date	Char. Date	Transferred To
C-335-04														
ZONE 1	110406	DMSA0110430	ELECTRICAL RELAY PANAL	3	☑	☐	☐	☐	☐	☐	☐	7/31/01	7/31/01	
ZONE 1	110407	DMSA0110431	REFRIGERATOR UNIT.	15	☑	☐	☐	☐	☐	☐	☐	7/31/01	7/31/01	
ZONE 1	110412	DMSA0110425	HYDRAULIC JACK	1.5	☑	☐	☐	☐	☐	☐	☐	7/31/01	7/31/01	
ZONE 1	110413	DMSA0110426	HYDRAULIC JACK	1.5	☑	☐	☐	☐	☐	☐	☐	7/31/01	7/31/01	
ZONE 1	110414	DMSAOI10427	HYDRAULIC JACK	1.5	☑	☐	☐	☐	☐	☐	☐	7/31/01	7/31/01	
ZONE 1	110415	DMSA0110428	HYDRAULIC JACK	1.5	☑	☐	☐	☐	☐	☐	☐	7/31/01	7/31/01	
ZONE 1	110416	DMSA0110429	HYDRAULIC OIL PUMP	3	☑	☐	☐	☐	☐	☐	☐	7/31/01	7/31/01	
ZONE 1	110419	DMSA0110422	10 x 4 TRAP	4	☑	☐	☐	☐	☐	☐	☐	7/31/01	7/31/01	
ZONE 1	110420	DMSAOI10423	10 x 4 TRAP	4	☑	☐	☐	☐	☐	☐	☐	7/31/01	7/31/01	
ZONE 1	110421	DMSA0110424	10 x 4 TRAP	4	☑	☐	☐	☐	☐	☐	☐	7/31/01	7/31/01	
ZONE 1	110427	DMSA0110419	G-17 VALVE WITH MOTOR OPERATOR	10	☑	☐	☐	☐	☐	☐	☐	8/6/01	8/6/01	
ZONE 1	110428	DMSA0110418	G-17 VALVE WITH MOTOR OPERATOR	10	☑	☐	☐	☐	☐	☐	☐	8/6/01	8/6/01	
ZONE 1	110429	DMSA0110420	G 17 VALVE WITH MOTOR OPERATOR	10	☑	☐	☐	☐	☐	☐	☐	8/6/01	8/6/01	
ZONE 1	110430	DMSA0110421	G-17 VALVE W MOTOR OPERATOR	10	☑	☐	☐	☐	☐	☐	☐	8/6/01	8/6/01	
ZONE 1	110780	DMSA0216139	FLUID FROM HYDRAULIC PUMP	8.63	☑	☐	☐	☐	☐	☐	☐	8/21/01	8/21/01	
ZONE 2	110408	DMSA0110432	9 PALLETS 4 PCS OF PLYWOOD	80	☑	☐	☐	☐	☐	☐	☐	7/31/01	7/31/01	
ZONE 2	110409	DMSA0110415	FREON PUMP BASE	8	☑	☐	☐	☐	☐	☐	☐	7/31/01	7/31/01	
ZONE 2	110410	DMSA0110416	FREON PUMP BASE	8	☑	☐	☐	☐	☐	☐	☐	7/31/01	7/31/01	
ZONE 2	110411	DMSAOI10417	FREON PUMP BASE	8	☑	☐	☐	☐	☐	☐	☐	7/31/01	7/31/01	
ZONE 2	110417	DMSA0110444	DMSA WASTE GENERATION CONTAINER	7.4	☑	☐	☐	☐	☐	☐	☐	7/31/01	7/31/01	
ZONE 2	110418	DMSA0110445	DMSA WASTE GENERATION CONTAINER (M	7.4	☑	☐	☐	☐	☐	☐	☐	8/3/01	8/3/01	
ZONE 2	110422	DMSA0110433	G 17 VALVE, VALVE OPERATORS	96	☑	☐	☐	☐	☐	☐	☐	8/1/01	8/1/01	
ZONE 2	110423	DMSA0110434	MOTORS	96	☑	☐	☐	☐	☐	☐	☐	8/1/01	8/1/01	
ZONE 2	110424	DMSA0110435	CONTAINER AND STOVE, MOTOR STANDS, V	96	☑	☐	☐	☐	☐	☐	☐	8/1/01	8/1/01	
ZONE 2	110425	DMSA0110436	COUPLING, CABINET DOOR, METAL CABINET	96	☑	☐	☐	☐	☐	☐	☐	8/1/01	8/1/01	
ZONE 2	110426	DMSA0110437	VALVES, BELT COVERS, COUPLING, FUSE B	96	☑	☐	☐	☐	☐	☐	☐	8/1/01	8/1/01	
ZONE 2	110431	DMSA0110406	SEAL EXHAUST/ WET AIR TRAP	25	☑	☐	☐	☐	☐	☐	☐	8/7/01	8/7/01	
ZONE 2	110432	DMSA0110407	SEAL EXHAUST TRAP	25	☑	☐	☐	☐	☐	☐	☐	8/7/01	8/7/01	
ZONE 2	110433	DMSA0110408	SEAL EXHAUST TRAP	25	☑	☐	☐	☐	☐	☐	☐	8/7/01	8/7/01	
ZONE 2	110434	DMSA0110409	SEAL EXHAUST TRAP	25	☑	☐	☐	☐	☐	☐	☐	8/7/01	8/7/01	
ZONE 2	110435	DSMA0110410	SEAL EXHAUST TRAP	25	☑	☐	☐	☐	☐	☐	☐	8/7/01	8/7/01	
ZONE 2	110436	DSMA0110411	SEA; EXHAUST TRAP	25	☑	☐	☐	☐	☐	☐	☐	8/7/01	8/7/01	
ZONE 2	110437	DMSA0110412	"00" CONVERTER TRANSITION PCS.	175	☑	☐	☐	☐	☐	☐	☐	8/7/01	8/7/01	
ZONE 2	110477		LIGHT BULBS	0.1	☐	☐	☐	☑	☐	☐	☐	5/25/01	5/25/01	C-752-A
Summary for C-335-04			*(34 RFDs)*	*1011.53 Ft3*										

Grand Total (34 RFDs) *1011.53 Total Ft3*

Section 9

WASTE IDENTIFIED FOR REMOVAL

WASTE IDENTIFIED FOR REMOVAL FROM C-335-04 DMSA

Waste Material	Original RFD #	Material Classification	Column #	Barcode	# Items	Volume Cubic Feet	Estimated Weight (oz)	Material Transferred to USEC
(7) Light Bulbs	110477	RCRA/MIXED	Zone 2	N/A	1	0.1	6,	

Total Volume ft³	*Total Estimated Weight (oz)*
0.1	6

Section 10

DMSA C-335-04 INVENTORY

C-335-04 DMSA INVENTORY

Description	Original RFD #	Material Classification	Column #	Barcode	# Items	Volume Cubic Feet	Estimated Weight (lbs)	Material Transferred to USEC
Electrical Relay Panel	110406	LLW	Zone 1	DMSA0110430	1	3	65	No
Refrigeration Unit	110407	LLW	Zone 1	DMSA0110431	1	15	350	No
(9) Pallets & (4) Pieces of Plywood	110408	LLW	Zone 2	DMSAOI10432	1	80	800	No
Freon Pump Base	110409	LLW	Zone 2	DMSAOI10415	1	8	300	No
Freon Pump Base	110410	LLW	Zone 2	DMSA0110416	1	8	300	No
Freon Pump Base	110411	LLW	Zone 2	DMSA0110417	1	8	300	No
Hydraulic Jack	110412	LLW	Zone 1	DMSA0110425	1	1.5	100	No
Hydraulic Jack	110413	LLW	Zone 1	DMSAOI10426	1	1.5	100	No
Hydraulic Jack	110414	LLW	Zone 1	DMSAOI10427	1	1.5	100	No
Hydraulic Jack	110415	LLW	Zone 1	DMSAOI10428	1	1.5	100	No
Hydraulic Oil Pump	110416	LLW	Zone 1	DMSAOI10429	1	3	1200	No
Waste Generation Container (Wood)	110417	LLW	Zone 2	DMSAOI10444	1	7.4	80	No
Waste Generation Container (Metal)	110418	LLW	Zone 2	DMSAOI10445	1	7.4	100	No
Trap 10"x4'	110419	LLW	Zone 1	DMSAOI10422	1	4	150	No
Trap 10"x4'	110420	LLW	Zone 1	DMSA0110423	1	4	150	No
Trap 10"x4'	110421	LLW	Zone 1	DMSAOI10424	1	4	150	No
B-25 Box	110422	LLW	Zone 2	DMSAOI10433	1	96	2,000	No
B-25 Box	110423	LLW	Zone 2	DMSAOI10434	1	96	2,000	No
B-25 Box	110424	LLW	Zone 2	DMSAOI10435	1	96	2.000	No

Sub Total Volume ft^3	*Sub Total Weight (lbs)*
445.80	*10,345*

Description	Original RFD #	Material Classification	Column #	Barcode	# Items	Volume Cubic Feet	Estimated Weight (lbs)	Material Transferred to USEC
B-25 Box	110425	LLW	Zone 2	DMSAOI10436	1	96	2,500	**No**
B-25 Box	110426	LLW	Zone 2	DMSAOI10437	1	96	2,000	**No**
12" G-17 Valve with Motor Operator	110427	LLW	Zone 1	DMSA0110419	1	10	750	**No**
12" G-17 Valve with Motor Operator	110428	LLW	Zone 1	DMSA0110418	1	10	750	**No**
12" G-17 Valve with Motor Operator	110429	LLW	Zone 1	DMSAOI10420	1	10	750	**No**
12" G-17 Valve with Motor Operator	110430	LLW	Zone 1	DMSA0110421	1	10	750	No
Seal Exhaust / Wet Air Trap	110431	LLW	Zone 2	DMSAOI10406	1	25	1,200	**No**
Seal Exhaust Trap	110432	LLW	Zone 2	DMSAOI10407	1	25	1,200	**No**
Seal Exhaust Trap	110433	LLW	Zone 2	DMSAOI10408	1	25	1.200	**No**
Seal Exhaust Trap	110434	LLW	Zone 2	DMSA0110409	1	25	1,200	**No**
,Seal Exhaust Trap	110435	LLW	Zone 2	DMSA0110410	1	25	1,200	**No**
Seal Exhaust Trap	110436	LLW	Zone 2	DMSA0110411	1	25	1,200	No
(24) "00" Converter Transition Pieces	110437	LLW	Zone 2	DMSAOI10412	1	175	9,000	**No**
(7) Light Bulbs	110477	RCRA/MIXED	Zone 2		1	0.1	1	**No**
Hydraulic Fluid Drained from Hydraulic Pump	110780	LLW	Zone1	DMSA0216139	1	8.63	30	**No**

Total Volume ft^3	*Total Estimated Weight (lbs)*
1,011.53	*34,076*

Section 11

REUSABLE MATERIAL INVENTORY

C-335-04 REUSABLE MATERIAL INVENTORY

Description	Original E#	Material Classification	Column #	Barcode	# Items	Volume Cubic Feet	Estimated Weight (lbs)	Material Transferred to USEC
8'x10" Flanaed Trap	E00010	Reusable	Zone 2	DMSA0110414	1	12	400	No

Total Volume ft^3	*Total Estimated Weight (lbs)*
24	*800*

Section 12

RF'D FORMS

'DOE LLW RFD

Document ID Number 110406

Request For Disposal

Generation Process Information (Completed by Generator)

W1. Generator's Name (Print)	W2. Badge No.	W3. Generator's Phone No.	W3. Mail Stop	W5. Charge No. / WO
Eric Rimmins	703681	441-5140	C-743-T1	

W6. Generator's Company	W7. Corp Owner	W8. Origin Site	W9. Origin Facility	W10. Origin Area	W11. Rad Area?
WESKEM	DOE	PGDP	C-335	C-335-04	☑ Yes ☐ No

W12. Number of Items	W13. Process Category (GCC)	W14. Process Activity Code	W15. AWA Number	W16. Physical Form
1	LEG	A93	–	SOLID

W17. Material Type(s)	W18. Holding Site	W19. Holding Facility	W20. Holding Area	W21 RFD Attachment
MT004	PGDP	C-335	C-335-04	☑ A ☐ B ☐ C

Waste Subcategories (Check all that apply)

	Yes	No		Yes	No		Yes	No		Yes	No
W22. Biological		✓	W25. Const. Debris		✓	W28. Non-Friable Asbestos		✓	W31. DMSA	✓	
W23. Accountable		✓	W26. Classified		✓	W29. TRU Waste		✓			
W24. Carcinogen		✓	W27. Friable Asbestos		✓	W30. CERCLA		✓			

Waste Description / Comments

W32. DMSA-335-04-046; Electrical Relay ~~Box~~ PANAL

D.C. DMSA0110430 Zone 1

This is to certify that the above named material is properly described and in the stated container, which is in good condition, marked with the RFD number, content, appropriate generation date, source location, and at the stated location.

W33. Generation Plan No.	W34. Generator's Signature	Date
	[signature]	7-30-01

Handling / Pickup Information (Completed by Waste Management)

P1. Pick-up Site	P2. Pick-up Facility	P3. Pick-up Room/Area

P4. PPE Requirements

P5. Container-Labeling Requirements

___ RCRA	___ PCB	___ DET PCB (<50ppm & source <50ppm)	___ RAD	___ DOE
___ FISSILE	___ NCS EXEMPT	___ RD CONFIDENTIAL	___ ACID	___ USEC
___ FLAMMABLE	___ COMBUSTIBLE	___ OXIDIZER	___ BASE	___ WESKEM
___ ASBESTOS	___ REACTIVE	___ TRANSURANIC	___ NON-HAZ	

P6. Additional Handling Instructions

~~Verify~~ Verify Labeling, Barcode and zone.

Reference FWR

Origin Date

PCB Start Date

RCRA Start Date

P7. Waste Coordinator (Issued By)	Badge	Date	P8. Disposal/Storage Completed By	Badge	Date
Eric Rimmins	703681	8-6-01	[signature]	704274	8-6-01

P9. Field Supervisor	Badge	Date	P10. Data Processing Completed By	Badge	Date
D.A. Wade	11357	8-6-01	[signature]		8-10-01

P11. Waste Item Information

Waste Item No. RFD # 110406-01

Container No. (Barcode) DMSA0110430

Weight 65# est.

Location and Grid C-335-04 ZONE 1

Container Size 3 cubic ft est

P12. Operator Comments

BJCF-515a (03/01)

DMSA

received 8-9-01

LOW-LEVEL RADIOACTIVE WASTE

ATTACHMENT A

DOCUMENT ID NUMBER: 110406

A1. PYROPHORIC MATERIALS -OTHER THAN RADIOACTIVE FORMS OF ISOTOPES	A2. ACTIVE CHELATING AGENTS	A3. TRU RADIOISOTOPES>100 nCi/g	A4. EXPLOSIVE MATERIALS
☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO

A5. ETILOGICAL AGENTS	A6. IGNITION SOURCES	A7. FREE LIQUIDS (Unless Wastewater)	A8. RCRA WASTE	A9. TSCA WASTE
☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO

A10. WASTE VARIANCE REQUEST NUMBER(S)

A11. CHELATING AGENTS	A12. ION EXCHANGE RESINS	A13. (Detect Abu Source <50 ppm) PCB CONC.	A14. WASTEWATER
☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO ppm	☐ YES ☑ NO

RADIOISOTOPE DETERMINATION METHOD

DOCUMENT TYPE	DOCUMENT NUMBER
R1. ANALYSIS SAMPLE ID NO.	
R2. PROCESS KNOWLEDGE FORM NO.	1018

R3. FISSILE CONTENT (Wt% U-235)	R4. GRAMS U-235	R5. NCS EXEMPT	R5. CHEMICAL FORM
		☑ YES ☐ NO	

OTHER SAMPLE ANALYSIS

DOCUMENT TYPE	DOCUMENT NUMBER
01. ANALYSIS SAMPLE ID NO.	
02. PROCESS KNOWLEDGE FORM NO.	

RADIATION DATA FROM HEALTH PHYSICS SURVEY SURFACE CONTAMINATION (Data Supplied by HP)

R7. HP SURVEY REQUIRED ☐ YES ☐ NO

R8. TRANSFERABLE (Alpha) dpm/100cm2	R9. FIXED (Alpha) dpm/100cm2
R10. TRANSFERABLE (Beta/Gamma) dpm/100cm2	R11. FIXED (Beta/Gamma) dpm/100cm2
R12. EXTERNAL DOSE/PACKAGE CONTACT MREM/HR	R13. DOSE RATE MREM/HR @ METERS (B/G)
R14. HP SIGNATURE	R15. SURVEY NUMBER

WASTE ITEM CONTAINER LOG

10. ITEM/CONTAINER	DOCUMENT ID NUMBER
1 OF 1	110406

11 WASTE ITEM ID NO	12 ORIGIN DATE	13. RCRA ACCUMULATION START DATE	14. PCB DATE TO STORAGE
110406-01	7-31-01	—	—

15. WASTE MATERIAL PLACED IN (Or Removed From) CONTAINER	16. QUANTITY	17. DEPOSITOR INITIAL	17. DEPOSITOR DATE	18. COMMENTS (If Waste is removed from container, then final disposition must be noted.)
Electrical Relay ~~Box~~ Panel	1	EK	7-31-01	DMSA-335-04-046 Zone 1

19. CONTAINER ID NO. (Barcode)	110. ABSORBENT MATERIALS? QUANTITY TYPE	111. NMC&A FORM	112. EST. NET VOLUME	113 UNITS
DM740110430	[ ] YES [X] NO		3 ft3	

114 GROSS WEIGHT	115. UNITS	116. INNER CONTAINER TYPE	117. OUTER CONTAINER TYPE	118. TANK SEAL NUMBER
55# est.				

119. CONTAINER GENERATOR SIGNATURE	DATE
EK	7-31-01

COPY

DOE Material Storage Area (DMSA) Item - NCS Characterization Form

ITEM	INITIAL CHARACTERIZATION	ANALYTICAL CHARACTERIZATION: ^{235}U Assay Analysis	^{235}U Mass Analysis	Subcritical Mass Limits	NDA Radiation Surveys	NCS CLASSIFICATION
RFD = 110406 Description: ELECTRICAL RELAY PANEL Independent Confirmations: Individual #1: [illegible] Date: 8-21-01 Individual #2: HC Anderson Date: 7-31-01	Historical Documentation: _____ Process Knowledge: _____	Sample A: ___ % ^{235}U ___ 1 sigma (% ^{235}U) ___ 2 sigma (% ^{235}U) ___ Total (^{235}U + 2 sigma)	Sample A: ___ g ^{235}U	___ kg ^{235}U ___ Moderated Limits ___ Hydrated Limits	Sample A: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: ___ % ^{235}U Mass: ___ g ^{235}U Submitted By: _____ Date: _____	Initial Classification ✓ NCS-Exempt ___ Spactng-Controlled ___ Singularly-Contingent Date: 8-21-01 Inspector HC Anderson NDA Expert: _____ (if NDA is performed) Date: N/A Independent Verifications: Person #1: _____ Date: _____ Person #2: _____ Date: _____
Other Information: Bldg./Col C-335 C-33 DMSA = C-335-04F Origin N/A	Visual Inspections Completed: ___ External Surfaces Inspection ___ Internal Surfaces Inspection Completed By: _____ Date: N/A	Sample B: ___ % ^{235}U ___ 1 sigma (% ^{235}U) ___ 2 sigma)	Sample B: ___ g ^{235}U	N/A	Sample B: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: ___ % ^{235}U Mass: ___ g ^{235}U Submitted By: _____ Date:	Reclassification: (if needed) ___ NCS-Exempt ___ Spacing-Controlled ___ Singularly-Contingent DMSA Inspector: _____ Date: _____ NDA Expert: _____ (if NDA is performed) Date: N/A Independent Verifications: Person #1: _____ Date: _____ Person #2: _____ Date: _____

Comments: NCS EXEMPT BY PREVIOUS CHARACTERIZATION (DMSA# 335-04-046)
REFER TO ATTACHED SHEETS FOR DETAILED INFORMATION

Approved to Relocate: To _____
Further NCS characterization is required. Item does not contain Singularly-Contingent mass.

NDA Expert #1: _____
Date: _____

NDA Expert #2: N/A
Date: _____

I have independently confirmed the identification and description for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match.

Independent Person #1: _____
Date: _____

Independent Person #2: _____
Date: _____

I have independently confirmed the destination for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match.

Independent Person #1: _____
Date: _____

Independent Person #2: _____
Date: _____

110406

DMSA - Characterization Form

Item Number: DMSA-335-04-046 Building: 335 DMSA #: 335-04

Item Description: Electrical Relay Panel

Origin: PGDP Owner Status: DOE Capital Equipment ID: N/A

Analytical Data

Initial Characterization

Operating History

X No NCS Concerns (Not Process Equipment)

Independent Verification Form: (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

☐ Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Assay

Assay Assumed: 0

Sample Request and Receipt Form Issued

Assay Smear Samples Complete

Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0

N/A

Mass

☐ NDA Requested

☐ NDA Complete

Sample A:

Assay Used: 0

Pounds U: 0

U-235 (g): 0

Sample B:

Assay Used: 0

Pounds U: 0

U-235(g): 0

N/A

NCS Classification

X NCS-Exempt

☐ LS

UH

☐ PEH

Characterization Completed By:

Name: [illegible]

Badge #: 662505

Date: 3-9-00

☐ RCRA or TSCA Issues Identified

Comments:

N/A

☐ Item relocated N/A

New Location: Building:

DMSA #:

7 3-10

NMC&A Exempt
No visible Uranium

3-10-00

ENTERED 3-14-00

Date Printed: Monday, February 21, 2230

RFD

DOE

LLW

Request For Disposal

Document ID Number
110407

Generation Process Information (Completed by Generator)

W1. Generator's Name (Print)	W2. Badge No.	W3. Generator's Phone No.	W3. Mail Stop	W5. Charge No. / WO
~~FF0409~~ Eric Kimmins	703681	441-5146	C-743-T1	

W6. Generator's Company	W7. Corp Owner	W8. Origin Site	W9. Origin Facility	W10. Origin Area	W11. Rad Area?
WESKEM	DOE	PGDP	C-335	C-335-04	☑ Yes ☐ No

W12. Number of Items	W13. Process Category (GCC)	W14. Process Activity Code	W15. AWA Number	W16. Physical Form
1	LEG	A93	–	SOLID

W17. Material Type(s)	W18. Holding Site	W19. Holding Facility	W20. Holding Area	W21 RFD Attachment
MT007	PGDP	C-335	C-335-04	☑ A ☑ B ☐ C

Waste Subcategories (Check all that apply)

	Yes	No		Yes	No		Yes	No		Yes	No
W22. Biological		✓	W25. Const. Debris		✓	W28. Non-Friable Asbestos		✓	W31. DMSA	✓	
W23. Accountable		✓	W26. Classified		✓	W29. TRU Waste		✓			
W24. Carcinogen		✓	W27. Friable Asbestos		✓	W30. CERCLA		✓			

Waste Description / Comments

W32. DMSA-335-04-028; Refrigerator Unit (Kitchen Unit Sink Etc.)

O.C.
DMSA0110431 Zone 1

This is to certify that the above named material is properly described and in the stated container, which is in good condition, marked with the RFD number, content, appropriate generation date, source location, and at the stated location.

W33. Generation Plan No.	W34. Generator's Signature	Date
	E. K.	7-31-01

Handling / Pickup Information (Completed by Waste Management)

P1. Pick-up Site	P2. Pick-up Facility	P3. Pick-up Room/Area

P4. PPE Requirements

P5. Container-Labeling Requirements

___ RCRA	___ PCB	___ DET PCB (<50ppm & source <50ppm)	___ RAD	___ DOE
___ FISSILE	___ NCS EXEMPT	___ RD CONFIDENTIAL	___ ACID	___ USEC
___ FLAMMABLE	___ COMBUSTIBLE	___ OXIDIZER	___ BASE	___ WESKEM
___ ASBESTOS	___ REACTIVE	___ TRANSURANIC	___ NON-HAZ	

P6. Additional Handling Instructions
Verify LADDS/Barcode and Zone Location

Reference FWR
Origin Date
PCB Start Date
RCRA Start Date

P7. Waste Coordinator (Issued By)	Badge	Date	P8. Disposal/Storage Completed By	Badge	Date
E. Kimmins	703681	8-17-01	D. Bearden	31449	8-20-01
P9. Field Supervisor	**Badge**	**Date**	**P10. Data Processing Completed By**	**Badge**	**Date**
D. A. Wade	11357	8/20/01	Cly Walker		8-29-01

P11. Waste Item Information

Waste Item No. RFD 110407-01
Container No. (Barcode) DMSA0110431
Weight EST 350 LB
Location and Grid C335-04 Zone 1
Container Size 15 ft 3

P12. Operator Comments

BJCF-515a (03/01)

DMSA

received
8-29-01

LOW-LEVEL RADIOACTIVE WASTE

ATTACHMENT A

DOCUMENT ID NUMBER: 110407

A1. PYROPHORIC MATERIALS -OTHER THAN RADIOACTIVE FORMS OF ISOTOPES	A2. ACTIVE CHELATING AGENTS	A3. TRU RADIOISOTOPES >100 nCi/g	A4. EXPLOSIVE MATERIALS
☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO

A5. ETILOGICAL AGENTS	A6. IGNITION SOURCES	A7. FREE LIQUIDS (Unless Wastewater)	A8. RCRA WASTE	A9. TSCA WASTE
☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO

A10. WASTE VARIANCE REQUEST NUMBER(S)

A11. CHELATING AGENTS	A12. ION EXCHANGE RESINS	A13. DETECTABLE PCB (Concen. And Source <50 ppm) CONC.	A14. WASTEWATER
☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO ppm	☐ YES ☑ NO

RADIOISOTOPE DETERMINATION METHOD

DOCUMENT TYPE	DOCUMENT NUMBER
R1. ANALYSIS SAMPLE ID NO	
R2. PROCESS KNOWLEDGE FORM NO	1018

R3 FISSILE CONTENT (Wt% U-235)	R4 GRAMS U-231	R5 NCS EXEMPT	R5 CHEMICAL FORM
		☑ YES ☐ NO	

DOCUMENT TYPE	DOCUMENT NUMBER
01. ANALYSIS SAMPLE ID NO.	
02. PROCESS KNOWLEDGE FORM NO	

R8. TRANSFERABLE (Alpha) dpm/100cm2	R9. FIXED (Alpha) dpm/100cm2
R10. TRANSFERABLE (Beta/Gamma) dpm/100cm2	R11. FIXED (Beta/Gamma) dpm/100cm2
R12. EXTERNAL DOSE/PACKAGE CONTACT MREM/HR	R13. DOSE RATE MREM/HR @ METERS (B/G)
R14. HP SIGNATURE	R15. SURVEY NUMBER

WASTE ITEM CONTAINER LOG

MATER

[ ] YES [x] NO

15ft³

114 GROSS WEIGHT 350#

115 UNITS

116 INNER CONTAINER TYPE

117 OUTER CONTAINER TYPE

118 TANK SEAL NUMBER

119 CONTAINER GENERATOR SIGNATURE

DATE 7-31-01

DOE **Material Storage Area (DMSA) Item -** NCS **Characterization** Form

ITEM	INITIAL CHARACTERIZATION	ANALYTICAL CHARACTERIZATION: ^{235}U Assay Analysis	^{235}U Mass Analysis	Subcritical Mass Limits	NDA Radiation Surveys	NCS CLASSIFICATION
RFD # 110407 Description: KITCHEN UNIT, SINK, REFRIGERATOR ETC Independent Confirmations: Individual #1: [illegible] Date 8-6-01 Individual #2 HC Anderson Date 7-31-01 . . . . . . Other Information: Bldg./Col: C-335, D-33 DMSA # C-335-04 Origin NA	Historical Documentation: Process Knowledge: Visual Inspections Completed: ____ External Surfaces Inspection ____ Internal Surfaces Inspection Completed By: Date: N/A	Sample A: ___ % ^{235}U ___ 1 sigma (% ^{235}U) ___ 2 sigma (% ^{235}U) ___ Total (^{235}U + 2 sigma) Sample B: ___ % ^{235}U ___ 1 sigma (% ^{235}U) ___ 2 sigma (% ^{235}U) ___ Total (^{235}U + 2 sigma)	Sample A: ___ g ^{235}U Sample B: ___ g ^{235}U	___ kg ^{235}U ___ Moderated Limits ___ Hydrated Limits N/A	Sample A: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: ___ % ^{235}U Mass: ___ g ^{235}U Submitted By: Date: Sample B: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: ___ % ^{235}U Mass: ___ g ^{235}U Submitted By: Date:	Initial Classification: ✓ NCS-Exempt ___ Spacing-Controlled ___ Singularly-Contingent DMSA Inspector: HC Anderson Date: 7-31-01 NDA Expert: (if NDA is performed) Date: N/A Independent Verifications: Person #1: Date: Person #2: Date: . . . . . . Reclassification: (if needed) ___ NCS-Exempt ___ Spacing-Controlled ___ Singularly-Contingent DMSA Inspector: Date: NDA Expert: (if NDA is performed) Date: N/A Independent Verifications: Person #1: Date: Person #2: Date:

Comments: NCS EXEMPT BY PREVIOUS CHARACTERIZATION (DMSA# 335-04-028)
REFER TO ATTACHED SHEETS FOR DETAILED INFORMATION

Approved to Relocate: To Further NCS characterization is required. Item does not contain Singularly-Contingent mass. NDA Expert #1: Date: NDA Expert #2: N/A Date:	I have independently confirmed the identification and description for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match. Independent Person #1: Date: Independent Person #2: Date:	I have independently confirmed the destination for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match. Independent Person #1: Date: Independent Person #2: Date:

Rev. 3 (10/2000)

110407

DMSA - Charac zation Form

COPY

MAR 1 0 ENT'D

Item Number: DMSA-335-04-028 Building: 335 DMSA #: 335-04

Item Description: Kitchen Unit (Sink, Refrigerator etc)

Origin: PGDP Owner Status: ~~HCA~~ ~~3-8-00~~ ~~DOA~~ DOE Capital Equipment ID: NA

Initial Characterization

- [x] No NCS Concerns (Not Process Equipment)
- [ ] Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- [ ] Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Analytical Data

Assay

- [ ] Assay Assumed: 0
- [ ] Sample Request and Receipt Form Issued
- [ ] Independent Verification of Assay form completed and attached.

Assay wt% U-235: 0

Mass

- [ ] NDA Assumed
- [ ] NDA Complete

Sample A:

Assay Used:

Pounds U: 0

U-235 (g): 0

Sample B:

Assay Used: 0

Pounds U: 0

U-235(g): 0

NCS Classification

- [x] NCS-Exempt
- [ ] LS
- [ ] UH
- [ ] DEH

Characterization Completed By:

Name: [illegible]

Badge #: 662505

Date: 3-8-00

RCRA or TSCA Issues Identified

Comments: NA

New Location: Building: 335-04-095 B25

DMSA #: 335-04-096 B25

NMC&A Exempt
No visible Uranium

3-10-00

ENTERED 3-10-00

DOE LLW RFD

Request For Disposal

Document ID Number 110408

Generation Process Information (Completed by Generator)

W1. Generator's Name (Print)	W2. Badge No.	W3. Generator's Phone No.	W3. Mail Stop	W5. Charge No. / WO
Eric Rimmins	703581	441-5140	C-743-T1	

W6. Generator's Company	W7. Corp Owner	W8. Origin Site	W9. Origin Facility	W10. Origin Area	W11. Rad Area?
WESKEM	DOE	PGDP	C-335	C-335-04	☑ Yes ☐ No

W12. Number of Items	W13. Process Category (GCC)	W14. Process Activity Code	W15. AWA Number	W16. Physical Form
1	LEG	A93	–	SOLID

W17. Material Type(s)	W18. Holding Site	W19. Holding Facility	W20. Holding Area	W21 RFD Attachment
MT013	PGDP	C-335	C335-04	☑ A ☐ B ☐ C

Waste Subcategories (Check all that apply)

	Yes	No		Yes	No		Yes	No		Yes	No
W22. Biological		✓	W25. Const. Debris		✓	W28. Non-Friable Asbestos		✓	W31. DMSA	✓	
W23. Accountable		✓	W26. Classified		✓	W29. TRU Waste					
W24. Carcinogen		✓	W27. Friable Asbestos		✓	W30. CERCLA		✓			

Waste Description / Comments

W32. 9 Pallets and 4 Pieces of Plywood

B.C. DMSA0110432 Zone 2

This is to certify that the above named material is properly described and in the stated container, which is in good condition, marked with the RFD number, content, appropriate generation date, source location, and at the stated location.

W33. Generation Plan No.	W34. Generator's Signature	Date
	E.R.	7-31-01

Handling / Pickup Information (Completed by Waste Management)

P1. Pick-up Site	P2. Pick-up Facility	P3. Pick-up Room/Area

P4. PPE Requirements

P5. Container-Labeling Requirements

___ RCRA	___ PCB	___ DET PCB (<50ppm & source <50ppm)	___ RAD	___ DOE
___ FISSILE	___ NCS EXEMPT	___ RD CONFIDENTIAL	___ ACID	___ USEC
___ FLAMMABLE	___ COMBUSTIBLE	___ OXIDIZER	___ BASE	___ WESKEM
___ ASBESTOS	___ REACTIVE	___ TRANSURANIC	___ NON-HAZ	

P6. Additional Handling Instructions

Verify Labels, Barcode, and Zone.

Reference FWR

Origin Date

PCB Start Date

RCRA Start Date

P7. Waste Coordinator (Issued By)	Badge	Date	P8. Disposal/Storage Completed By	Badge	Date
Eric Rimmins	703581	8-6-01	[illegible]	15778	8-6-01

P9. Field Supervisor	Badge	Date	P10. Data Processing Completed By	Badge	Date
D.A. Wade	11357	8-6-01	[illegible]		8-10-01

P11. Waste Item Information

Waste Item No. RFD# 110408-01

Container No. (Barcode) DMSA0110432

Weight App ~~250#~~ 5-15-02 800 lbs

Location and Grid Zone 2 C-335-04

Container Size 80 cu ft app.

P12. Operator Comments

BJCF-515a (8/01)

DMSA

received 8-9-01

LOW-LEVEL RADIOACTIVE WASTE

ATTACHMENT A

DOCUMENT ID NUMBER 110408

PROHIBITED ITEMS

A1. PYROPHORIC MATERIALS -OTHER THAN RADIOACTIVE FORMS OF ISOTOPES	A2. ACTIVE CHELATING AGENTS	A3. TRU RADIOISOTOPES >100 nCi/g	A4. EXPLOSIVE MATERIALS
☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO

A5. ETILOGICAL AGENTS	A6. IGNITION SOURCES	A7. FREE LIQUIDS (Unless Wastewater)	A8. RCRA WASTE	A9. TSCA WASTE
☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO

A10. WASTE VARIANCE REQUEST NUMBER(S)

ADDITIONAL WASTE CHARACTERISTICS

A11. CHELATING AGENTS	A12. ION EXCHANGE RESINS	A13. DETECTABLE PCB (Concen. And Source <50 ppm) CONC.	A14. WASTEWATER
☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO ppm	☐ YES ☑ NO

DOCUMENT TYPE	DOCUMENT NUMBER
R1. ANALYSIS SAMPLE ID NO.	
R2. PROCESS KNOWLEDGE FORM NO	0757

R3 FISSILE CONTENT (Wt% U-235)	R4 GRAMS U-235	R5. NCS EXEMPT	R5. CHEMICAL FORM
		☑ YES ☐ NO	

DOCUMENT TYPE	DOCUMENT NUMBER
01 ANALYSIS SAMPLE ID NO	
02 PROCESS KNOWLEDGE FORM NO	

☐ YES ☐ NO

R8. TRANSFERABLE (Alpha)	R9. FIXED (Alpha)
dpm/100cm2	dpm/100cm2
R10. TRANSFERABLE (Beta/Gamma)	R11. FIXED (Beta/Gamma)
dpm/100cm2	dpm/100cm2
R12. EXTERNAL DOSE/PACKAGE CONTACT	R13. DOSE RATE
MREM/HR	MREM/HR @ METERS (B/G)
R14. HP SIGNATURE	R15. SURVEY NUMBER

WASTE ITEM CONTAINER LOG

ITEM/CONTAINER	1 OF 1	DOCUMENT ID NUMBER 110408

I1 WASTE ITEM ID NO	I2 ORIGIN DATE	I3 RCRA ACCUMULATION START DATE	I4 PCB DATE TO STORAGE
110409-01	7-31-01		

I5. WASTE MATERIAL PLACED IN (Or Removed From) CONTAINER	I6. QUANTITY	I7. DEPOSITOR INITIAL	I7. DEPOSITOR DATE	I8. COMMENTS (If Waste is removed from container, then final disposition must be noted.)
9 Pallets & 4 Pieces of Plywood	1	EK	7-31-01	IN Zone 2

I9. CONTAINER ID NO. (Barcode)	I10. ABSORBENT MATERIALS?	QUANTITY	TYPE	I11. NMC&A FORM	I12. EST. NET VOLUME	I13 UNITS
OM3A0110432	[ ] YES [X] NO				8/6/01 50 FT³	

I14 GROSS WEIGHT	I15 UNITS	I16 INNER CONTAINER TYPE	I17 OUTER CONTAINER TYPE	I18 TANK SEAL NUMBER
250 lbs est				

I19 CONTAINER GENERATOR SIGNATURE	DATE
C 7/	7-31-01

COPY

DOE Material Storage Area (DMSA) Item - NCS Characterization Form

ITEM	INITIAL CHARACTERIZATION	ANALYTICAL CHARACTERIZATION: ^{235}U Assay Analysis	^{235}U Mass Analysis	Subcritical Mass Limits	NDA Radiation Surveys	NCS CLASSIFICATION
RFD: 110408 Description: 9 WOOD PALLETS AND 2 PCS. PLYWOOD Independent Confirmations: Individual #1: [illegible] Date: 8-4-01 Individual #2: HCAnderson Other Information Bldg Of: C-335-D32 DMSA #: C-335-04 Origin: N/A	Historical Documentation: N/A Process Knowledge: NET PROCESS EQUIPMENT Visual Inspections Completed: ___ External Surfaces Inspection ___ Internal Surfaces Inspection Completed By: Date: N/A	Sample A: ___ % ^{235}U ___ 1 sigma (% ^{235}U) ___ 2 sigma (% ^{235}U) ___ Total (^{235}U + 2 sigma) Sample B: ___ % ^{235}U ___ 1 sigma (% ^{235}U) ___ 2 sigma (% ^{235}U) ___ Total (^{235}U + 2 sigma)	Sample A: ___ g ^{235}U Sample B: ___ g ^{235}U	___ kg ^{235}U ___ Moderated Limits ___ Hydrated Limits N/A	Sample A: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: ___ % ^{235}U Mass: ___ g ^{235}U Submitted By: Date: Sample B: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: ___ % ^{235}U Mass: ___ g ^{235}U Submitted By: Date:	Initial Classification: ✓ NCS-Exempt ___ Spacing-Controlled ___ Singularly-Contingent DMSA Inspector: HCAnderson Date: 8-1-01 NDA Expert: N/A (if NDA is performed) Date: N/A Independent Verifications: Person #1: [illegible] Date: 8-4-01 Person #2: D.A. Wade Date: 8/4/01 Reclassification: (if needed) ___ NCS-Exempt ___ Spacing-Controlled ___ Singularly-Contingent DMSA Inspector: Date: NDA Expert: (if NDA is performed) Date: Independent Verifications: Person #1: Date: Person #2: Date: N/A

Comments: NO PREVIOUS DMSA # AVAILABLE

Approved to Relocate To: ___
Further NCS characterization is required. Item does not contain Singularly Contingent Mass.

NDA Expert: ___

NDA Expert: ___
Date: N/A

I have independently confirmed the identification and description for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match.

Independent Person #1: ___
Date:

Independent Person #2: ___
Date:

I have independently confirmed the destination for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match.

Independent Person #1: ___
Date:

Independent Person #2: ___
Date: 110408

Rev. 1 ... 2000

110408

DOE LLW RFD

Request For Disposal

Document ID Number 110409

Generation Process Information (Completed by Generator)

W1. Generator's Name (Print)	W2. Badge No.	W3. Generator's Phone No.	W3. Mail Stop	W5. Charge No. / WO
Eric Kimmins	703681	441-5140	C-743-T1	

W6. Generator's Company	W7. Corp Owner	W8. Origin Site	W9. Origin Facility	W10. Origin Area	W11. Rad Area?
WESKEM	DOE	PGDP	C-335	C335-04	☑ Yes ☐ No

W12. Number of Items	W13. Process Category (GCC)	W14. Process Activity Code	W15. AWA Number	W16. Physical Form
1	LEG	A93	–	SOLID

W17. Material Type(s)	W18. Holding Site	W19. Holding Facility	W20. Holding Area	W21 RFD Attachment
MT007	PGDP	C335	C335-04	☑ A ☐ B ☐ C

Waste Subcategories (Check all that apply)

	Yes	No		Yes	No		Yes	No		Yes	No
W22. Biological		✓	W25. Const. Debris		✓	W28. Non-Friable Asbestos		✓	W31. DMSA	✓	
W23. Accountable		✓	W26. Classified		✓	W29. TRU Waste		✓			
W24. Carcinogen		✓	W27. Friable Asbestos		✓	W30. CERCLA		✓			

Waste Description / Comments

W32. DMSA-335-04-069; Freon Pump Base

B.C. DMSA0110415 Zone 2

This is to certify that the above named material is properly described and in the stated container, which is in good condition, marked with the RFD number, content, appropriate generation date, source location, and at the stated location.

W33. Generation Plan No.	W34. Generator's Signature	Date
	E. K.	7-31-01

Handling / Pickup Information (Completed by Waste Management)

P1. Pick-up Site	P2. Pick-up Facility	P3. Pick-up Room/Area

P4. PPE Requirements

P5. Container-Labeling Requirements

___ RCRA	___ PCB	___ DET PCB (<50ppm & source <50ppm)	___ RAD	___ DOE
___ FISSILE	___ NCS EXEMPT	___ RD CONFIDENTIAL	___ ACID	___ USEC
___ FLAMMABLE	___ COMBUSTIBLE	___ OXIDIZER	___ BASE	___ WESKEM
___ ASBESTOS	___ REACTIVE	___ TRANSURANIC	___ NON-HAZ	

P6. Additional Handling Instructions

Verify Labeling, Barcode, and Zone.

Reference FWR

Origin Date

PCB Start Date

RCRA Start Date

P7. Waste Coordinator (Issued By)	Badge	Date	P8. Disposal/Storage Completed By	Badge	Date
Eric Kimmins	703681	8-6-01	Jeff Seale	704274	8-6-01

P9. Field Supervisor	Badge	Date	P10. Data Processing Completed By	Badge	Date
D A Wade	11357	8/6/01	Chris Wilkes		8-10-01

P11. Waste item Information

Waste Item No. 110409-01

Container No. (Barcode) DMSA 0110415

Weight 300 lbs est.

Location and Grid DMSA 335-04 Zone 2

Container Size 8 ft³ est

P12. Operator Comments

BJCF-515a (03/01)

DMSA

received 8-9-01

LOW-LEVEL RADIOACTIVE WASTE

DOCUMENT ID NUMBER: 110 409

A1. PYROPHORIC MATERIALS -OTHER THAN RADIOACTIVE FORMS OF ISOTOPES	A2. ACTIVE CHELATING AGENTS	A3. TRU RADIOISOTOPES >100 nCi/g	A4. EXPLOSIVE MATERIALS
☐ YES	☐ YES	☐ YES ☑ NO	☐ YES ☑ NO

A5. ETILOGICAL AGENTS	A6. IGNITION SOURCES	A7. FREE LIQUIDS (Unless Wastewater)	A8. RCRA WASTE	A9. TSCA WASTE
☐ YES ☑ NO	☐ YES	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO

A10. WASTE VARIANCE REQUEST NUMBER(S)

A11. CHELATING AGENTS	A12. ION EXCHANGE RESINS	A13. DETECTABLE PCB (Concen. And Source <50 ppm) CONC.	A14. WASTEWATER
☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO ppm	☐ YES ☑ NO

DOCUMENT TYPE	DOCUMENT NUMBER
R1. ANALYSIS SAMPLE ID NO.	
R2. PROCESS KNOWLEDGE FORM NO.	0210

R3. FISSILE CONTENT (Wt% U-235)	R4 GRAMS U-235	R5. NCS EXEMPT	R5. CHEMICAL FORM
		☑ YES ☐ NO	

DOCUMENT TYPE	DOCUMENT NUMBER
O1. ANALYSIS SAMPLE ID NO.	
O2. PROCESS KNOWLEDGE FORM NO.	

☐ YES ☐ NO

R8. TRANSFERABLE (Alpha)	R9. FIXED (Alpha)
dpm/100cm2	dpm/100cm2
R10. TRANSFERABLE (Beta/Gamma)	R11. FIXED (Beta/Gamma)
dpm/100cm2	dpm/100cm2
R12. EXTERNAL DOSUPACKAGE CONTACT	R13. DOSE RATE
MREM/HR	MREM/HR @ METERS (B/G)
R14. HP SIGNATURE	R15. SURVEY NUMBER

WASTE ITEM CONTAINER LOG

10. ITEM/CONTAINER	DOCUMENT ID NUMBER
1 OF 1	110409

11. WASTE ITEM ID NO.	12. ORIGIN DATE	13. RCRA ACCUMULATION START DATE	14. PC8 DATE TO STORAGE
110409-01	7-31-01		

15. WASTE MATERIAL PLACED IN (Or Removed From) CONTAINER	16. QUANTITY	17. DEPOSITOR INITIAL	17. DEPOSITOR DATE	18. COMMENTS (If Waste is removed from container, then final disposition must be noted.)
Freon Pump Base	1	EK	7-31-01	DMSA-335-04-069 Zone 2

19 CONTAINER ID NO (Barcode)	110 ABSORBENT MATERIALS? QUANTITY TYPE	111 NMC&A FORM	112 EST NET VOLUME	113 UNITS
DMSA0110415	[ ] YES [✓] NO		8 FT³	

114 GROSS WEIGHT	115 UNITS	116 INNER CONTAINER TYPE	117 OUTER CONTAINER TYPE	118 TANK SEAL NUMBER
300 LBS est.				

119 CONTAINER GENERATOR SIGNATURE	DATE
EK	7-31-01

DOE Material Storage Area (DMSA) Item - NCS Characterization Form

ITEM	INITIAL CHARACTERIZATION	ANALYTICAL CHARACTERIZATION: ^{235}U Assay Analysis	^{235}U Miss Analysis	Subcritical Miss Limits	NDA Radiation Surveys	NCS CLASSIFICATION
RFD # 110409 Description: FREON PUMP BASE Independent Confirmations: Individual #1: [illegible] Date 8/1-01 Individual #2: HC Anderson Date ____ . . . . . . Other Information: Bldg./Col C-335 B-33 DMSA # C-335-04 Origin N/A	Historical Documentation: ____ Process Knowledge: ____ Visual Inspections Completed: ____ External Surfaces Inspection ____ Internal Surfaces Inspection Completed By: ____ Date: N/A	Sample A: ____ % ^{235}U ____ 1 sigma (% ^{235}U) ____ 2 sigma (% ^{235}U) ____ Total (^{235}U + 2 sigma) Sample B: ____ % ^{235}U ____ 1 sigma (% ^{235}U) 2 sigma)	Sample A: ____ g ^{235}U Sample B: ____ g ^{235}U	____ kg ^{235}U ____ Moderated Limits ____ Hydrated Limits N/A	Sample A: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: ____ % ^{235}U Mass: ____ g ^{235}U Submitted By: ____ Date: ____ Sample B: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: ____ % ^{235}U Mass: ____ g ^{235}U Submitted By: ____ Date: ____	Initial Classification: ____ NCS-Exempt ____ Spacing-Controlled ____ Singularly-Contingent DMSA Inspector: HC Anderson 7-31-01 NDA Expert: ____ (if NDA is performed) Date: NA Independent Verifications: Person #1: ____ Date: ____ Person #2: ____ Date: ____ . . . . . . Reclassification: (if needed) ____ NCS-Exempt ____ Spacing-Controlled ____ Singularly-Contingent DMSA Inspector: ____ Date: ____ NDA Expert: ____ (if NDA is performed) Date: N/A Independent Verifications: Person #1: ____ Date: ____ Person #2: ____ Date: ____

Comments: NCS EXEMPT BY PREVIOUS CHARACTERIZATION (DMSA # 335-04-069)
REFER TO ATTACHED SHEETS FOR DETAILED INFORMATION

Approved to Relocate: To ____
Further NCS characterization is required. Item does not contain Singularly-Contingent mass.

NDA Expert #1: ____
Date: ____

NDA Expert #2: N/A
Date: ____

I have independently confirmed the identification and description for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match.

Independent Person #1: ____
Date: ____

Independent Person #2: ____
Date: ____

I have independently confirmed the destination for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match.

Independent Person #1: ____
Date: ____

Independent Person #2: ____
Date: ____

110409

Rev. 3 (10/2000)

DMSA - Charac[illegible]ation Form

Item Number: DMSA-335-04-069 Building: 335 DMSA #: 335-04

Item Description: Freon Pump Base

Origin: PGDP Owner Status: DOE Capital Equipment ID: N/A

Analytical Data

Initial Characterization	Assay	Mass	NCS Classification
Operating History ☒ No NCS Concerns (Not Process Equipment) ☐ Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached. **Visual Inspection** ☐ Independent Verification Form (verifying visual inspection detected no visible uranium Contamination) is completed and attached.	☐ Assay Assumed: 0 ☐ Sample Request and Receipt Form Issued ☐ Assay Smear Samples Complete ☐ Independent Verification of Assay form completed and attached. Assay wt%U-235: 0 N/A	☐ NDA Requested ☐ NDA Complete **Sample A:** Assay Used: 0 Pounds U: 0 U-235 (g): 0 **Sample B:** Assay Used: 0 Pounds U: 0 U-235(g): 0 N/A	☒ NCS-Exempt ☐ LS ☐ UH ☐ PEH **Characterization Completed By:** Name: [illegible] Badge #: 662-503 Date: 3-13-00

☐ RCRA or TSCA Issues Identified

Comments: N/A

☐ Item relocated N/A
New Location: Building:
DMSA #:

7-36-01

110409

CONFIRMED 3-14-00

Date Printed: Monday, February 21, 2000

RFD

DOE LLW

Request For Disposal

Document ID Number 110410

Generation Process Information (Completed by Generator)

W1. Generator's Name (Print)	W2. Badge No.	W3. Generator's Phone No.	W3. Mail Stop	W5. Charge No. / WO
Eric Kimmins	703681	441-5140	C-743-J1	

W6. Generator's Company	W7. Corp Owner	W8. Origin Site	W9. Origin Facility	W10. Origin Area	W11. Rad Area?
WESKEM	DOE	PGDP	C-335	C-335-04	☑ Yes ☐ No

W12. Number of Items	W13. Process Category (GCC)	W14. Process Activity Code	W15. AWA Number	W16. Physical Form
1	LEG	A93	–	SOLID

W17. Material Type(s)	W18. Holding Site	W19. Holding Facility	W20. Holding Area	W21 RFD Attachment
MT007	PGDP	C-335	C-335-04	☑ A ☐ B ☐ C

Waste Subcategories (Check all that apply)

	Yes	No		Yes	No		Yes	No		Yes	No
W22. Biological		✓	W25. Const. Debris		✓	W28. Non-Friable Asbestos		✓	W31. DMSA	✓	
W23. Accountable		✓	W26. Classified		✓	W29. TRU Waste		✓			
W24. Carcinogen		✓	W27. Friable Asbestos		✓	W30. CERCLA		✓			

Waste Description / Comments

W32. DMSA-335-04-070,073; (1) Freon Pump Base

B.C. DMSA0110416 Zone 2

This is to certify that the above named material is properly described and in the stated container, which is in good condition, marked with the RFD number, content, appropriate generation date, source location, and at the stated location.

W33. Generation Plan No.	W34. Generator's Signature	Date
	[signature]	7-31-01

Handling / Pickup Information (Completed by Waste Management)

P1. Pick-up Site	P2. Pick-up Facility	P3. Pick-up Room/Area

P4. PPE Requirements

P5. Container-LabelingRequirements

___ RCRA	___ PCB	___ DET PCB (<50ppm & source <50ppm)	___ RAD	___ DOE
___ FISSILE	___ NCS EXEMPT	___ RD CONFIDENTIAL	___ ACID	___ USEC
___ FLAMMABLE	___ COMBUSTIBLE	___ OXIDIZER	___ BASE	___ WESKEM
___ ASBESTOS	___ REACTIVE	___ TRANSURANIC	___ NON-HAZ	

P6. Additional Handling Instructions
Verify Label, Barcode and Zone.

Reference FWR	
Origin Date	
PCB Start Date	
RCRA Start Date	

P7. Waste Coordinator (Issued By)	Badge	Date	P8. Disposal/Storage Completed By	Badge	Date
Eric Kimmins	703681	8-6-01	Jeff Seat	704274	8-6-01

P9. Field Supervisor	Badge	Date	P10. Data Processing Completed By	Badge	Date
D A Wade	11357	8/6/01	Tim Walker		8-10-01

P11. Waste Item Information

Waste Item No. 110410-01
Container No. (Barcode) DMSA 0110416
Weight 200 lbs est.
Location and Grid DMSA 335-04 ZONE 2
Container Size 8 ft³ est.

P12. Operator Comments

BJCF-515a (03/01)

DMSA

received 8-9-01

LOW-LEVEL RADIOACTIVE WASTE

ATTACHMENT A

DOCUMENT ID NUMBER: 110410

PROHIBITED ITEMS

A1. PYROPHORIC MATERIALS -OTHER THAN RADIOACTIVE FORMS OF ISOTOPES	A2. ACTIVE CHELATING AGENTS	A3. TRU RADIOISOTOPES >100 nCi/g	A4. EXPLOSIVE MATERIALS
☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO

A5. ETILOGICAL AGENTS	A6. IGNITION SOURCES	A7. FREE LIQUIDS (Unless Wastewater)	A8. RCRA WASTE	A9. TSCA WASTE
☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO

A10. WASTE VARIANCE REQUEST NUMBER(S)

ADDITIONAL WASTE CHARACTERISTICS

A11. CHELATING AGENTS	A12. ION EXCHANGE RESINS	A13. DETECTABLE PCB (Concen. And Source <50 ppm)	A14. WASTEWATER
☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO CONC. ppm	☐ YES ☑ NO

RADIOISOTOPE DETERMINATION METHOD

DOCUMENT TYPE	DOCUMENT NUMBER
R1. ANALYSIS SAMPLE ID NO.	
R2. PROCESS KNOWLEDGE FORM NO.	0210

R3. FISSILE CONTENT (Wt% U-235)	R4. GRAMS U-235	R5. NCS EXEMPT	R5. CHEMICAL FORM
		☑ YES ☐ NO	

DOCUMENT TYPE	DOCUMENT NUMBER
O1. ANALYSIS SAMPLE ID NO.	
O2. PROCESS KNOWLEDGE FORM NO.	

RADIATION DATA FROM HEALTH PHYSICS SURVEY
SURFACE CONTAMINATION (Data Supplied by HP)

R8. TRANSFERABLE (Alpha)	R9. FIXED (Alpha)
dpm/100cm2	dpm/100cm2
dpm/100cm2	dpm/100cm2
R12. EXTERNAL DOSE/PACKAGE CONTACT	R13. DOSE RATE
MREM/HR	MREM/HR @ METERS (B/G)
R14. HP SIGNATURE	R15. SURVEY NUMBER

WASTE ITEM CONTAINER LOG

10. ITEM/CONTAINER	DOCUMENT ID NUMBER
1 OF 1	110410

11. WASTE ITEM ID NO.	12. ORIGIN DATE	13. RCRA ACCUMULATION START DATE	14. PCB DATE TO STORAGE
110410-01	7-31-01		

15. WASTE MATERIAL PLACED IN (Or Removed From) CONTAINER	16. QUANTITY	17. DEPOSITOR INITIAL	17. DEPOSITOR DATE	18. COMMENTS (If Waste is removed from container, then final disposition must be noted.)
From Pump Base	1	CK	7-31-01	DMSA-335-04-070,073 (1) Item Zone 2

19. CONTAINER ID NO. (Barcode)	110. ABSORBENT MATERIALS? QUANTITY TYPE	111. NMC&A FORM	112. EST. NET VOLUME	113. UNITS
DMSA0110416	[ ] YES [✓] NO		8 ft³	

114. GROSS WEIGHT	115. UNITS	116. INNER CONTAINER TYPE	117. OUTER CONTAINER TYPE	118. TANK SEAL NUMBER
300 lbs EST				

119. CONTAINER GENERATOR SIGNATURE	DATE
C K	7-31-01

COPY

DOE Material Storage Area (DMSA) Item - **NCS** Characterization Form

ITEM	INITIAL CHARACTERIZATION	ANALYTICAL CHARACTERIZATION: ^{235}U Assay Analysis	^{235}U Mass Analysis	Subcritical Mass Limits	NDA Radiation Surveys	NCS CLASSIFICATION
RFD # 110410 Description FREON PUMP BASE Independent Confirmations: Individual #1 [illegible] Date 7-31-01 Individual #2 [illegible] Date 7-31-01 Other Information: Bldg./Col C-335 B-33 DMSA # C-335-04 Origin N/A	Historical Documentation: Process Knowledge: Visual Inspections Completed: ____ External Surfaces Inspection ____ Internal Surfaces Inspection Completed By: Date: N/A	Sample A: ___ % ^{235}U ___ 1 sigma (% ^{235}U) ___ 2 sigma (% ^{235}U) ___ Total (^{235}U + 2 sigma) Sample B: ___ % ^{235}U ___ 1 sigma (% ^{235}U) ___ 2 sigma (% ^{235}U) ___ Total (^{235}U + 2 sigma)	Sample A: ___ g ^{235}U Sample B: ___ g ^{235}U	___ kg ^{235}U ___ Moderated Limits ___ Hydrated Limits N/A	Sample A: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: ___ % ^{235}U Mass: ___ g ^{235}U Submitted By: Date: Sample B: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: % ^{235}U Mass: ___ g ^{235}U Submitted By: Date:	Initial Classification: ✓ NCS-Exempt ___ Spacing-Controlled ___ Singularly-Contingent DMSA Inspector: [illegible] Date: 7-31-01 NDA Expert (if NDA is performed) Date: N/A Independent Verifications: Person #1: Date: Person #2: Date: Reclassification: (if needed) ___ NCS-Exempt ___ Spacing-Controlled ___ Singularly-Contingent DMSA Inspector: Date: NDA Expert: (if NDA is performed) Date: N/A Independent Verifications: Person #1: Date: Person #2: Date:

Comments: NCS EXEMPT BY PREVIOUS CHARACTERIZATION (DMSA# 335-04-70 + 73)
REFER TO ATTACHED SHEETS FOR DETAILED INFORMATION

Approved to Relocate: To _____
Further NCS characterization is required. Item does not contain Singularly-Contingent mass.

NDA Expert #1: _____
Date

NDA Expert #2: N/A
Date

I have independently confirmed the identification and description for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match.

Independent Person #1: _____
Date:

Independent Person #2: _____
Date:

I have independently confirmed the destination for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match.

Independent Person #1 :
Date:

Independent Person #2:
Date:

1104P

Rev 3 (10/2000)

DMSA - Charact ation Form

COPY

Item Number: DMSA-335-04-070 Building: 335 DMSA #: 335-04

Item Description: Freon Pump Base

Origin: PGDP Owner Status: DOE Capital Equipment ID: NA

Initial Characterization

Operating History

- [X] No NCS Concerns (Not Process Equipment)
- [ ] Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- [ ] Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Analytical Data

Assay

- [ ] Assay Assumed: 0
- [ ] Sample Request and Receipt Form Issued
- [ ] Assay Smear Samples Complete
- [ ] Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0

NA

Mass

- [ ] NDA Requested
- [ ] NDA Complete

Sample A:

Assay Used: 0
Pounds U: 0
U-235 (g): 0

Sample B:

Assay Used: 0
Pounds U: 0
U-235(g): 0

NA

NCS Classification

- [X] NCS-Exempt
- [ ] LS
- [ ] UH
- [ ] PEH

Characterization Completed By:

Name: Cal Wallis
Badge #: 662505
Date: 3-13-01

- [ ] RCRA or TSCA Issues Identified

Comments:

NA

- [ ] Item relocated NA

New Location: Building:
DMSA #:

7-3-01
110410

ENTERED 3-14-06

Date Printed: Monday, February 21,2000

DOE LLW INFO

Request For Disposal

Document ID Number 110411

Generation Process Information (Completed by Generator)

W1. Generator's Name (Print)	W2. Badge No.	W3. Generator's Phone No.	W3. Mail Stop	W5. Charge No. / WO
Eric Kimmins	703681	441-5140	C-743-T1	

W6. Generator's Company	W7. Corp Owner	W8. Origin Site	W9. Origin Facility	W10. Origin Area	W11. Rad Area?
WESKEM	DOE	PGDP	335	C-335-04	☑ Yes ☐ No

W12. Number of Items	W13. Process Category (GCC)	W14. Process Activity Code	W15. AWA Number	W16. Physical Form
1	LEG	A93	–	SOLID

W17. Material Type(s)	W18. Holding Site	W19. Holding Facility	W20. Holding Area	W21 RFD Attachment
AT007	PGDP	C 335	C-335-04	☑ A ☐ B ☐ C

Waste Subcategories (Check all that apply)

	Yes	No		Yes	No		Yes	No		Yes	No
W22. Biological		✓	W25. Const. Debris		✓	W28. Non-Friable Asbestos		✓	W31. DMSA	✓	
W23. Accountable		✓	W26. Classified		✓	W29. TRU Waste		✓			
W24. Carcinogen		✓	W27. Friable Asbestos		✓	W30. CERCLA		✓			

Waste Description / Comments

W32. DMSA-335-04-071,075; (1) Freon Pump Oil

B.C. DMSA0110417 Zone 2

This is to certify that the above named material is properly described and in the stated container, which is in good condition, marked with the RFD number. content, appropriate generation date, source location, and at the stated location.

W33. Generation Plan No.	W34. Generator's Signature	Date
	E K	7-31-01

Handling / Pickup Information (Completed by Waste Management)

P1. Pick-up Site	P2. Pick-up Facility	P3. Pick-up Room/Area

P4. PPE Requirements

P5. Container-Labeling Requirements

___ RCRA	___ PCB	___ DET PCB (<50ppm & source <50ppm)	___ RAD	___ DOE
___ FISSILE	___ NCS EXEMPT	___ RD CONFIDENTIAL	___ ACID	___ USEC
___ FLAMMABLE	___ COMBUSTIBLE	___ OXIDIZER	___ BASE	___ WESKEM
___ ASBESTOS	___ REACTIVE	___ TRANSURANIC	___ NON-HAZ	

P6. Additional Handling Instructions

Verify Labeling, Barcode, and Zone.

Reference FWR

Origin Date

PCB Start Date

RCRA Start Date

P7. Waste Coordinator (Issued By)	Badge	Date	P8. Disposal/Storage Completed By	Badge	Date
Eric Kimmins	703681	8-6-01	Jeff Scott	704274	8-6-01

P9. Field Supervisor	Badge	Date	P10. Data Processing Completed By	Badge	Date
D A Wade	11357	8/6/01	Chy Walker		8-10-01

P11. Waste Item Information

Waste Item No. 110411-01

Container No. (Barcode) DMSA 0110417

Weight 300 lbs est.

Location and Grid Dmsa 335-04 - zone 2

Container Size 8 ft 3 est.

P12. Operator Comments

BJCF-515a (03/01)

DMSA

received 8-9-01

DMSA - Charac[illegible]ation Form

COPY

Item Number: DMSA-335-04-073 Building: 335 DMSA #: 335-04

Item Description: Freon Pump Base

Origin: PGDP Owner Status: DOE Capital Equipment ID: NA

* Analytical Data

Initial Characterization	Assay	Mass	NCS Classification
Operating History ☒ [illegible] Process Equipment) ☐ Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and	☐ Assay Assumed: 0 ☐ Sample Request and Receipt Form Issued ☐ Assay Smear Samples Complete ☐ Independent Verification of Assay form completed and attached. Assay wt%U-235: 0	☐ NDA Requested ☐ NDA Complete Sample A: Assay Used: 0 Pounds U: U-235 (g): Sample B: Assay Used: 0 Pounds U: 0 U-235(g): 0	☒ NCS-Exempt ☐ LS ☐ UH ☐ PEH Characterization Completed By: Name: [illegible] Badge #: 662303 Date: 3-13-00
Visual Inspection ☐ Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.	NA	NA	

☐ RCRA or TSCA issues Identified

Comments:

☐ Item relocated NA

New Location: Building:

DMSA #:

7-30-01 [illegible]

11 04/10

CONTRACT 3-14-00

Date Printed: Monday, February 21, 2000

LOW-LEVEL RADIOACTIVE WASTE

DOCUMENT ID NUMBER

PROHIBITED ITEMS

A1. PYROPHORIC MATERIALS -OTHER THAN RADIOACTIVE FORMS OF ISOTOPES ☐ YES ☑ NO	A2. ACTIVE CHELATING AGENTS ☐ YES ☑ NO	A3. TRU RADIOISOTOPES>100 nCi/g ☐ YES ☑ NO	A4. EXPLOSIVE MATERIALS ☐ YES ☑ NO
A5. ETILOGICAL AGENTS ☐ YES ☑ NO	A6. IGNITION SOURCES ☐ YES ☑ NO	A7. FREE LIQUIDS (Unless Wastewater) ☐ YES ☑ NO	A8. RCRA WASTE ☐ YES ☑ NO A8. RCRA WASTE ☐ YES ☑ NO A9. TSCA WASTE ☐ YES ☑ NO A9. TSCA WASTE ☐ YES ☑ NO

A10. WASTE VARIANCE REQUEST NUMBER(S)

ADDITIONAL - WASTE CHARACTERISTICS

A11. CHELATING AGENTS ☐ YES ☑ NO	A12. ION EXCHANGE RESINS ☐ YES ☑ NO	A13. DETECTABLE PCB (Concen. And Source <50 ppm) ☐ YES ☑ NO CONC. ppm	A14. WASTEWATER ☐ YES ☑ NO

DOCUMENT TYPE	DOCUMENT NUMBER
R1. ANALYSIS SAMPLE ID NO.	
R2. PROCESS KNOWLEDGE FORM NO.	0210

R3. FISSILE CONTENT (Wt% U-235)	R4. GRAMS U-235	R5. NCS EXEMPT ☑ YES ☐ NO	R5. CHEMICAL FORM

OTHER SAMPLE ANALYSIS

DOCUMENT TYPE	DOCUMENT NUMBER
01. ANALYSIS SAMPLE ID NO.	
02. PROCESS KNOWLEDGE FORM NO.	

RADIATION DATA FROM HEALTH PHYSICS SURVEY SURFACE CONTAMINATION (Data Supplied by HP)

R7. HP SURVEY REQUIRED ☐ YES ☐ NO

R8. TRANSFERABLE (Alpha) dpm/100cm2	R9. FIXED (Alpha) dpm/100cm2
R10. TRANSFERABLE (Beta/Gamma) dpm/100cm2	R11. FIXED (Beta/Gamma) dpm/100cm2
R12. EXTERNAL DOSE/PACKAGE CONTACT MREM/HR	R13. DOSE RATE MREM/HR @ METERS (B/G)
R14. HP SIGNATURE	R15. SURVEY NUMBER

COPY

DOE Material Storage Area (DMSA) Item - NCS Characterization Form

ITEM	INITIAL CHARACTERIZATION	ANALYTICAL CHARACTERIZATION: ^{235}U Assay Analysis	^{235}U Mass Analysis	Subcritical Mass Limits	NDA Radiation Surveys	NCS CLASSIFICATION
RFD # 110411 Description: FREON PUMP BASE Independent Confirmations: Individual #1: [illegible] Date: 8-01-01 Individual #2: HC Anderson Date: 7-31-01 Other Information: Bldg./Col.: 335-B-33 DMSA #: C-335-04 Origin: N/A	Historical Documentation: ____ Process Knowledge: ____ Visual Inspections Completed: ____ External Surfaces Inspection ____ Internal Surfaces Inspection Completed By: ____ Date: N/A	Sample A: ____ % ^{235}U ____ 1 sigma (% ^{235}U) ____ 2 sigma (% ^{235}U) ____ Total (^{235}U + 2 sigma) Sample B: ____ % ^{235}U ____ 1 sigma (% ^{235}U) ____ 2 sigma (% ^{235}U) ____ Total (^{235}U + 2 sigma)	Sample A: ____ g ^{235}U Sample B: ____ g ^{235}U	____ kg ^{235}U ____ Moderated ____ Hydrated Limiu N/A	Sample A: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: ____ % ^{235}U Mass: ____ g ^{235}U Submitted By: ____ Date: ____ Sample B: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: ____ % ^{235}U Mass: ____ g ^{235}U Submitted By: ____ Date: ____	Initial NCS Classification: ✓ NCS-Exempt ____ Spacing-Controlled ____ Singularly-Contingent DMSA Inspector: HC Anderson Date: 7-31-01 NDA Expert: ____ (if NDA is performed) Date: N/A Independent Verifications: Person #1: ____ Date: ____ Person #2: ____ Date: ____ Reclassification: (if needed) ____ NCS-Exempt ____ Spacing-Controlled ____ Singularly-Contingent DMSA Inspector: ____ Date: ____ NDA Expert: ____ (if NDA is performed) Date: N/A Independent Verifications: Person #1: ____ Date: ____ Person #2: ____ Date: ____

Comments: NCS EXEMPT BY PREVIOUS CHARACTERIZATION (DMSA# 335-04-071 + 075)
REFER TO ATTACHED SHEETS FOR DETAILED INFORMATION

Approved to Relocate: To ____ Further NCS characterization is required. Item does not contain Singularly-Contingent mass. NDA Expert #1: ____ Date: ____ NDA Expert #2: N/A Date: ____	I have independently confirmed the identification and description for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match. Independent Person #1: ____ Date: ____ Independent Person #2: ____ Date: ____	I have independently confirmed the destination for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match. Independent Person #1: ____ Date: ____ Independent Person #2: ____ Date: ____

Rev. 3 (10/2000)

110411

WASTE ITEM CONTAINER LOG

10. ITEM/CONTAINER	DOCUMENT ID NUMBER
1 OF 1	110411

11 WASTE ITEM ID NO	12 ORIGIN DATE	13 RCRA ACCUMULATION START DATE	14 PCB DATE TO STORAGE
110411-01			

15. WASTE MATERIAL PLACED IN (Or Removed From) CONTAINER	16. QUANTITY	17. DEPOSITOR INITIAL	17. DEPOSITOR DATE	18. COMMENTS (If Waste is removed from container, then final disposition must be noted.)
Freon Pump Base	1	EK	7-94	DMSA.335-04-071,073 (1) Item Zone 2

19. CONTAINER ID NO. (Barcode)	110. ABSORBENT MATERIALS? QUANTITY TYPE	111 NMC&A FORM	112 EST NET VOLUME	113 UNITS
OMS001110417	[ ] YES [✓] NO		8 FT³	

114 GROSS WEIGHT	115. UNITS	116. INNER CONTAINER TYPE	117 OUTER CONTAINER TYPE	118 TANK SEAL NUMBER
300 LBS est.				

119. CONTAINER GENERATOR SIGNATURE [signature] DATE 7-31-94

UCN-20700 PAGE 2

DMSA - Charac[illegible]ation Form

COPY

Item Number: DMSA-335-04-075 Building: 335 DMSA #: 335-04

Item Description: Freon Pump Base

Origin: PGDP Owner Status: DOE Capital Equipment ID: N/A

Analytical Data

Initial Characterization

Operating Historv

- [x] No NCS Concerns (Not Process Equipment)
- [ ] Independent Verification Form (verifying no NCS concerns due to equipment has never been esposed to process gas) is completed and attached.

Visual Inspection

- [ ] Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Assay

- [ ] Sample Request and Receipt Form Issued
- [ ] Assay Smear Samples Complete
- [ ] Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0

UA-

Mass

- [ ] NDA Complete

Sample A:

Assay Used: 0

Pounds U: 0

U-235 (g): 0

Sample B:

Assay Used: 0

Pounds U: 0

U-235(g): 0

NA

NCS Classification

- [x] NCS-Exempt
- [ ] LS
- [ ] UH
- [ ] PEH

Characterization Completed By:

Name: [illegible]

Badge #: 6625-303

Date: 3-13-00

- [ ] RCRA or TSCA Issues Identified

Comments:

NA

- [ ] Item relocated NA

New Location: Building:

DMSA #:

7-30-01 [illegible]

110411

ENTERED 3-14-00

Date Printed: Monday, February 21, 2000

DMSA - Chara zation Form

Item Number: DMSA-335-04-071 Building: 335 DMSA #: 335-04

Item Description: Freon Pump Base

Origin: PGDP Owner Status: DOE Capital Equipment ID: NA

Initial Characterization

Operating History

- [x] No NCS Concerns (Not Process Equipment)
- [ ] Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- [ ] Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Analytical Data

Assay

- [ ] Assay Assumed: 0
- [ ] Sample Request and Receipt Form Issued
- [ ] Assay Smear Samples Complete
- [ ] Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0

NA

Mass

- [ ] NDA Requested
- [ ] NDA Complete

Sample A:

Assay Used: 0
Pounds U: 0
U-235 (g): 0

Sample B:

Assay Used: 0
Pounds U: 0
U-235(g): 0

NA

NCS Classification

- [x] NCS-Exempt
- [ ] LS
- [ ] UH
- [ ] PEH

Characterization Completed By:

Name: Cawelti
Badge #: 662505
Date: 3-13-00

- [ ] RCRA or TSCA Issues Identified

Comments:

NA

- [ ] Item relocated NA

New Location: Building:
DMSA #:

7-30-01 HCH

110411

ENTERED 3-14-00

DOE

RFD

Request For Disposal

LLW

Document ID Number
110412

Generation Process Information (Completed by Generator)

W1. Generator's Name (Print)	W2. Badge No.	W3. Generator's Phone No.	W3. Mail Stop	W5. Charge No. / WO
Eric Kimmins	703681	441-5140	C-743-T1	

W6. Generator's Company	W7. Corp Owner	W8. Origin Site	W9. Origin Facility	W10. Origin Area	W11. Rad Area?
WESKEM	DOE	PGDP	C335	C335-04	☑ Yes ☐ No

W12. Number of Items	W13. Process Category (GCC)	W14. Process Activity Code	W15. AWA Number	W16. Physical Form
1	LEG	A93	—	SOLID

W17. Material Type(s)	W18. Holding Site	W19. Holding Facility	W20. Holding Area	W21 RFD Attachment
MT007	PGDP	C335	C335-04	☑ A ☑ B ☐ C

Waste Subcategories (Check all that apply)

	Yes	No		Yes	No		Yes	No		Yes	No
W22. Biological		✓	W25. Const. Debris		✓	W28. Non-Friable Asbestos		✓	W31. DMSA	✓	
W23. Accountable		✓	W26. Classified		✓	W29. TRU Waste		✓			
W24. Carcinogen		✓	W27. Friable Asbestos		✓	W30. CERCLA		✓			

Waste Description / Comments

W32. DMSA-335-04-044; Hydraulic JACK

B.C. = DMSA0110425 Zone 1

This is to certify that the above named material is properly described and in the stated container, which is in good condition, marked with the RFD number, content, appropriate generation date. source location, and at the stated location.

W33. Generation Plan No.	W34. Generator's Signature	Date
	E-K	7-31-01

Handling / Pickup Information (Completed by Waste Management)

P1. Pick-up Site	P2. Pick-up Facility	P3. Pick-up Room/Area

P4. PPE Requirements

P5. Container-Labeling Requirements

___ RCRA	___ PCB	___ DET PCB (<50ppm & source <50ppm)	___ RAD	___ DOE
___ FISSILE	___ NCS EXEMPT	___ RD CONFIDENTIAL	___ ACID	___ USEC
___ FLAMMABLE	___ COMBUSTIBLE	___ OXIDIZER	___ BASE	___ WESKEM
___ ASBESTOS	___ REACTIVE	___ TRANSURANIC	___ NON-HAZ	

P6. Additional Handling Instructions

Verify LABEL, Barcode, Zone Location

Reference FWR

Origin Date

PCB Start Date

P7. Waste Coordinator (Issued By)	Badge	Date	P8. Disposal/Storage Completed By	Badge	Date
Eric Kimmins	703681	8-17-01	S Beardsley	31449	8-20-01
P9. Field Supervisor	**Badge**	**Date**	**P10. Data Processing Completed By**	**Badge**	**Date**
D A Wade	11357	8/2	Cly Walk		8-29-01

P12. Operator Comments

RFD 110412-01

Container No. (Barcode) DMSA0110425

Weight EST. 100 LB

Location and Grid C335-04 Zone 1

1.5 ft³

BJCF-515a (03/01)

DMSA

received
8-29-01

LOW-LEVEL RADIOACTIVE WASTE

ATTACHMENT A

DOCUMENT ID NUMBER 110412

PROHIBITED ITEMS

A1. PYROPHORIC MATERIALS -OTHER THAN RADIOACTIVE FORMS OF ISOTOPES	A2. ACTIVE CHELATING AGENTS	A3. TRU RADIOISOTOPES>100 nCi/g	A4. EXPLOSIVE MATERIALS
O Y E S [/] NO	[ ] YES [/] NO	[ ] YES [/] NO	[ ] YES [/] NO

AS. ETILOGICAL AGENTS	A6. IGNITION SOURCES	A7. FREE LIQUIDS (Unless Wastewater)	A8. RCRA WASTE	A9. TSCA WASTE
O Y E S [/] NO	[ ] YES [/] NO	O Y E S [/] NO	[ ] YES [/] NO	[ ] YES [/] NO

A10. WASTE VARIANCE REQUEST NUMBER(S)

A11. CHELATING AGENTS	A12. ION EXCHANGE RESINS	A13. DETECTABLE PCB (Concen. And Source <50 ppm) CONC.	A14. WASTEWATER
[ ] YES [/] NO	O Y E S [/] NO	[ ] YES [/] NO ppm	[ ] YES [/] NO

DOCUMENT TYPE	DOCUMENT NUMBER
R1. ANALYSIS SAMPLE ID NO.	
R2. PROCESS KNOWLEDGE FORM NO	0210

R3. FISSILE CONTENT (Wt% U-235)	R4. GRAMS U-235	R5. NCS EXEMPT	R5. CHEMICAL FORM
		[/] YES [ ] No	

DOCUMENT TYPE	DOCUMENT NUMBER
01. ANALYSIS SAMPLE ID NO.	
O2. PROCESS KNOWLEDGE FORM NO.	

RADIATION DATA FROM HEALTH PHYSJCS SURVEY
SURFACE CONTAMINATION (Data Supplied by HP)

R7. HP SURVEY REQUIRED

[ ] YES [ ] NO

R8. TRANSFERABLE (Alpha)	R9. FIXED (Alpha)
dpm/100cm2	dpm/100cm2
R10. TRANSFERABLE (Beta/Gamma)	R11. FIXED (Beta/Gamma)
dpm/100cm2	dpm/100cm2
R12. EXTERNAL DOSE/PACKAGE CONTACT	R13. DOSE RATE
MREM/HR	MREM/HR @ METERS (B/G)
R14. HP SIGNATURE	R15. SURVEY NUMBER

WASTE ITEM CONTAINER LOG

I0. ITEM/CONTAINER	DOCUMENT ID NUMBER
1 OF 1	110412

I1 WASTE ITEM ID NO	I2 ORIGIN DATE	I3 RCRA ACCUMULATION START DATE	I4 PCB DATE TO STORAGE
110412-01	7-31-01		

I5. WASTE MATERIAL PLACED IN (Or Removed From) CONTAINER	I6. QUANTITY	I7. DEPOSITOR INITIAL INITIAL	I7. DEPOSITOR DATE DATE	I8. COMMENTS (If Waste is removed from container, then final disposition must be noted.)
Hydraulic JACK	1	LK	7-31-01	DMSA-335-04-044 Zone 1

I9. CONTAINER ID NO. (Barcode)	I10. ABSORBENT MATERIAL	ORM	I12. EST. NET VOLUME	I13. UNITS
DMSA0110'			1.5 ft³	

I14. GROSS WEIGHT	I15. UNITS	I16. INNER CONTAINER TYPE	I7. OUTER CONTAINER TYPE	I8. TANK SEAL NUMBER
est 100#				

DATE 7-31-01

COPY

DOE Material Storage Area (DMSA) Item - NCS Characterization Form

ITEM	INITIAL CHARACTERIZATION	ANALYTICAL CHARACTERIZATION: ^{235}U Assay Analysis	^{235}U Mass Analysis	Subcritical Mass Limits	NDA Radiation Surveys	NCS CLASSIFICATION
RFD # 110412 Description: HYDRAULIC JACK Independent Confirmations: Individual #1: [illegible] Date: 8-21-01 Individual #2: HCAnderson Date: 7-31-01 . . . . . . Other Information: Bldg./Col: C-335-C-32 DMSA #: C-335-04 Origin: [illegible]	Historical Documentation: Process Knowledge: Visual Inspections Completed: ____ External Surfaces Inspection ____ Internal Surfaces Inspection Completed By: Date: N/A	Sample A: ___ % ^{235}U ___ 1 sigma (% ^{235}U) ___ 2 sigma (% ^{235}U) ___ Total (^{235}U + 2 sigma) Sample B: ___ % ^{235}U ___ 1 sigma (% ^{235}U) ___ 2 sigma (% ^{235}U) ___ Total (^{235}U + 2 sigma)	Sample A: ___ g ^{235}U Sample B: ___ g ^{235}U	___ kg ^{235}U ___ Moderated Limits ___ Hydrated Limits N/A	Sample A: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: ___ % ^{235}U Mass: ___ g ^{235}U Submitted By: Date: Sample B: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: ___ % ^{235}U Mass: ___ g ^{235}U Submitted By: Date:	Initial Classification: ✓ NCS-Exempt ____ Spacing-Controlled ____ Singularly-Contingent DMSA Inspector: HCAnderson Date: 7-31-01 NDA Expert: (if NDA is performed) Date: N/A Independent Verifications: Person #1: Date: Person #2: Date: . . . . . . Reclassification: (if needed) ____ NCS-Exempt ____ Spacing-Controlled ____ Singularly-Contingent DMSA Inspector: Date: NDA Expert: (if NDA is performed) Date: N/A Independent Verifications: Person #1: Date: Person #2 Date:

Comments: NCS EXEMPT BY PREVIOUS CHARACTERIZATION (DMSA# 335-04-044)
REFER TO ATTACHED SHEETS FOR DETAILED INFORMATION

Approved to Relocate: To Further NCS characterization is required. Item does not contain Singularly-Contingent mass. NDA Expert #1: Date NDA Expert #2: N/A Date:	I have independently confirmed the identification and description for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match. Independent Person #1: Date: Independent Person #2: Date:	I have independently confirmed the destination for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match. Independent Person #1: Date: Independent Person #2: Date:

Rev. 3 (10/2000)

DRAINED OIL RFD 110780

110412

DMSA - Charac[illegible]ation Form

MAR [illegible]

COPY

Item Number: DMSA-335-04-044 Building: 335 DMSA #: 335-04

Item Description: Hydraulic Jack

Origin: PGDP Owner Status: DOE Capital Equipment ID: N/A

Analytical Data

Initial Characterization

Operating History

- X No NCS Concerns (Not Process Equipment)
- Independent Verification Form (verifying no NCS concerns due to equipment has never been esposed to process gas) is completed and attached.

Visual Inspection

- Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Assay

- Assay Assumed: 0
- Sample Request and Receipt Form Issued
- Assay Smear Samples Complete
- Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0

N A

Mass

- NDA Requested
- NDA Complete

Sample A:

Assay Used: 0
Pounds U: 0
U-235 (g): 0

Sample B:

Assay Used: 0
Pounds U: 0
U-235(g): 0

N A

NCS Classification

- X NCS-Exempt
- LS
- UH
- PEH

Characterization Completed By:

Name: [illegible]
Badge #: 662505
Date: 3-9-00

RCRA or TSCA Issues Identified

Comments:

N A

Item relocated N A

New Location: Building: 335-04-093 B25
DMSA #:

7-31-01
N A

NMC&A Exempt
No visible Uranium

[illegible] 3-10-00

ENTERED 3-14-00

110412

Date Printed: Monday, February 21, 2000

DOE

LLW

RFD

Document ID Number
110413

Request For Disposal

Generation Process Information (Completed by Generator)

W1. Generator's Name (Print)	W2. Badge No.	W3. Generator's Phone No.	W3. Mail Stop	W5. Charge No. / WO
Eric Kimmins	703681	441-5140	C-743-T1	

W6. Generator's Company	W7. Corp Owner	W8. Origin Site	W9. Origin Facility	W10. Origin Area	W11. Rad Area?
WESKEM	DOE	PGDP	C-335	C-335-04	☑ Yes ☐ No

W12. Number of Items	W13. Process Category (GCC)	W14. Process Activity Code	W15. AWA Number	W16. Physical Form
1	LEG	A93	—	SOLID

W17. Material Type(s)	W18. Holding Site	W19. Holding Facility	W20. Holding Area	W21 RFD Attachment
MT007	PGDP	C-335	C-335-04	☑ A ☑ B ☐ C

Waste Subcategories (Check all that apply)

	Yes	No		Yes	No		Yes	No		Yes	No
W22. Biological		✓	W25. Const. Debris		✓	W28. Non-Friable Asbestos		✓	W31. DMSA	✓	
W23. Accountable		✓	W26. Classified		✓	W29. TRU Waste		✓			
W24. Carcinogen		✓	W27. Friable Asbestos		✓	W30. CERCLA		✓			

Waste Description / Comments

W32 DMSA-335-04-042; Hydraulic JACK

BC. DMSA0110426 Zone 1

This is to certify that the above named material is properly described and in the stated container, which is in good condition, marked with the RFD number, content, appropriate generation date, source location, and at the stated location.

W33. Generation Plan No.	W34. Generator's Signature	Date
	E K	7-31-01

Handling / Pickup Information (Completed by Waste Management)

P1. Pick-up Site	P2. Pick-up Facility	P3. Pick-up Room/Area

P4. PPE Requirements

P5. Container-Labeling Requirements

___ RCRA	___ PCB	___ DET PCB (<50ppm & source <50ppm)	___ RAD	___ DOE
___ FISSILE	___ NCS EXEMPT	___ RD CONFIDENTIAL	___ ACID	___ USEC
___ FLAMMABLE	___ COMBUSTIBLE	___ OXIDIZER	___ BASE	___ WESKEM
___ ASBESTOS	___ REACTIVE	___ TRANSURANIC	___ NON-HAZ	

P6. Additional Handling Instructions

Verify Label, Barcode, and Zone location

Reference FWR

Origin Date

PCB Start Date

RCRA Start Date

P7. Waste Coordinator (Issued By)	Badge	Date	P8. Disposal/Storage Completed By	Badge	Date
Eric Kimmins	703681	8-17-01	S Beardsley	31449	8-20-01

P9. Field Supervisor	Badge	Date	P10. Data Processing Completed By	Badge	Date
D A Wade	11357	8/20/01	Chris Wells		8-29-01

P11. Waste Item Information

P12. Operator Comments

Waste Item No. RFD 110413-01

Container No. (Barcode) DMSA0110426 8/24/01

Weight 8 ST [redacted] LB

Location and Grid [redacted] 3 [redacted] 04 Zone 1

Container Size 1.5 [redacted]

BJCF-515a (03/01)

DMSA

received

LOW-LEVEL RADIOACTIVE WASTE

ATTACHMENT A

DOCUMENT ID NUMBER: 110413

A1. PYROPHORIC MATERIALS -OTHER THAN RADIOACTIVE FORMS OF ISOTOPES	A2. ACTIVE CHELATING AGENTS	A3. TRU RADIOISOTOPES >100 nCi/g	A4. EXPLOSIVE MATERIALS
☐ YES ☑ NO	☐ YES ☑ No	☐ YES ☑ NO	☐ YES ☑ No

A5. ETILOGICAL AGENTS	A6. IGNITION SOURCES	A7. FREE LIQUIDS (Unless Wastewater)	A8. RCRA WASTE	A9. TSCA WASTE
☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO

A10. WASTE VARIANCE REQUEST NUMBER(S)

A11. CHELATING AGENTS	A12. ION EXCHANGE RESINS	A13. DETECTABLE PCB (Concen. And Source 50 ppm)	A14. WASTEWATER
☐ YES ☑ NO	☐ YES ☑ NO	☐ YES CONC. ppm	☐ YES ☑ NO

DOCUMENT TYPE	DOCUMENT NUMBER
R1. ANALYSIS SAMPLE ID NO.	
R2. PROCESS KNOWLEDGE FORM NO.	0210

R3. FISSILE CONTENT (Wt% U-235)	R4. GRAMS U-235	R5. NCS EXEMPT	R5. CHEMICAL FORM
		☑ YES ☐ NO	

DOCUMENT TYPE	DOCUMENT NUMBER
01. ANALYSIS SAMPLE ID NO.	
O2. PROCESS KNOWLEDGE FORM NO.	

RADIATION DATA FROM HEALTH PHYSICS SURVEY SURFACE CONTAMINATION (Data Supplied by HP)

R7. HP SURVEY REQUIRED

☐ YES ☐ NO

R8. TRANSFERABLE (Alpha) dpm/100cm2	R9. FIXED (Alpha) dpm/100cm2
R10. TRANSFERABLE (Beta/Gamma) dpm/100cm2	R11. FIXED (Beta/Gamma) dpm/100cm2
R12. EXTERNAL DOSE/PACKAGE CONTACT MREM/HR	R13. DOSE RATE MREM/HR @ METERS (B/G)
R14. HP SIGNATURE	R15. SURVEY NUMBER

DOE Material Storage Area (DMSA) Item - NCS Characterization Form

ITEM	INITIAL CHARACTERIZATION	ANALYTICAL CHARACTERIZATION: ^{235}U Assay Analysis	^{235}U Mass Analysis	Subcritical Mass Limits	NDA Radiation Surveys	NCS CLASSIFICATION
RFD = 110413 Description: HYDRAULIC JACK Independent Confirmations: Individual #1: [illegible] Date: 8-4-01 Individual #2: HC Anderson Date: 7-31-01 Other Information: Bldg Col: C-335 C-32 DMSA #: C-335-04 Origin: NA	Historical Documentation: ____ Process Knowledge: ____ Visual Inspections Completed: ____ External Surfaces Inspection ____ Internal Surfaces Inspection Completed By: ____ Date: N/A	Sample A: ____ % ^{235}U ____ 1 sigma (% ^{235}U) ____ 2 sigma (% ^{235}U) ____ Total (^{235}U + 2 sigma) Sample B: ____ % ^{235}U ____ 1 sigma (% ^{235}U) ____ 2 sigma (% ^{235}U) ____ Total (^{235}U + 2 sigma)	Sample A: ____ g ^{235}U Sample B: ____ g ^{235}U	____ kg ^{235}U ____ Moderated Limits ____ Hydrated Limits N/A	Sample A: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: ____ % ^{235}U Mass: ____ g ^{235}U Submitted By: ____ Date: ____ Sample B: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: ____ % ^{235}U Mass: ____ g ^{235}U Submitted By: ____ Date: ____	Initial Classification: ✓ NCS-Exempt ____ Spacing-Controlled ____ Singularly-Contingent DMSA Inspector: HC Anderson Date: 7-31-01 NDA Expert: ____ (if NDA is performed) Date: ____ Independent Verifications: Person #1: ____ Date: ____ Person #2: ____ Date: ____ Reclassification: (if needed) ____ NCS-Exempt ____ Spacing-Controlled ____ Singularly-Contingent DMSA Inspector: ____ Date: ____ NDA Expert: ____ (if NDA is performed) Date: N/A Independent Verifications: Person #1: ____ Date: ____ Person #2: ____ Date: ____

Comments: NCS EXEMPT BY PREVIOUS CHARACTERIZATION (DMSA# 335-04-042
REFER TO ATTACHED SHEETS FOR DETAILED INFORMATION

Approved to Relocate: To ____ Further NCS characterization is required. Item does not contain Singularly-Contingent mass. NDA Expert #1: ____ Date: ____ NDA Expert #2: ____ Date: ____	I have independently confirmed the identification and description for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match. Independent Person #1: ____ Date: ____ Independent Person #2: ____ Date: ____	I have independently confirmed the destination for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match. Independent Person #1: ____ Date: ____ Independent Person #2: ____ Date: ____

N/A

Rev 3 (10/2000)

DRAINED BY RCD 110250

110413

DMSA - Charac ation Form

Item Number: DMSA-335-04-042 Building: 335 DMSA #: 335-04

Item Description: Hydraulic Jack

Origin: PGDP Owner Status: DOE Capital Equipment ID: N/A

Analytical Data

Initial Characterization

Operating History

- [X] No NCS Concerns (Not Process Equipment)
- [ ] independent Verification Form (verifying no NCS concerns duct to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- [ ] independent Verification Form (verifying visual inspection'detected no visible uranium contamination) is completed and attached.

Assay

- [ ] Assay Assumed: 0
- [ ] Sample Request and Receipt Form Issued
- [ ] Assay Smear Samples Complete
- [ ] Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0

N A

Mass

- [ ] NDA Requested
- [ ] NDA Complete

Sample A:

Assay Used: 0

Pounds U: 0

U-235 (g): 0

Sample B:

Assay Used: 0

Pounds U: 0

U-235(g): 0

N A

NCS Classification

- [X] NCS-Exempt
- [ ] LS
- [ ] UH
- [ ] PEH

Characterization Completed By:

Name: [illegible]

Badge #: 662103

Date: 3-9-00

RCRA or TSCA Issues Identified

Comments:

N A

[ ] Item relocated N A

New Location: Building:

DMSA #:

7-31-01 NCA

NMC&A Exempt
No visible Uranium

CJ 3-10-00

ENTERED 3-14-00

Date Printed: Monday, February 21, 2000

RFD

LLW

DOE

Request For Disposal

Document ID Number
110414

Generation Process Information (Completed by Generator)

W1. Generator's Name (Print)	W2. Badge No.	W3. Generator's Phone No.	W3. Mail Stop	W5. Charge No. / WO
Eric Kimmins	703681	441-5140	C-743-T1	

W6. Generator's Company	W7. Corp Owner	W8. Origin Site	W9. Origin Facility	W10. Origin Area	W11. Rad Area?
WESKEM	DOE	PGDP	C-335	C-335-04	☑ Yes ☐ No

W12. Number of Items	W13. Process Category (GCC)	W14. Process Activity Code	W15. AWA Number	W16. Physical Form
1	LEG	A93	—	SOLID

W17. Material Type(s)	W18. Holding Site	W19. Holding Facility	W20. Holding Area	W21 RFD Attachment
MT007	PGDP	C-335	C-335-04	☑ A ☑ B ☐ C

Waste Subcategories (Check all that apply)

	Yes	No		Yes	No		Yes	No		Yes	No
W22. Biological		✓	W25. Const. Debris		✓	W28. Non-Friable Asbestos		✓	W31. DMSA	✓	
W23. Accountable		✓	W26. Classified		✓	W29. TRU Waste		✓			
W24. Carcinogen		✓	W27. Friable Asbestos		✓	W30. CERCLA		✓			

Waste Description / Comments

W32. DMSA-335-04-043; Hydraulic JACK

B.C. DMSA0110427 Zone 1

This is to certify that the above named material is properly described and in the stated container, which is in good condition, marked with the RFD number, content, appropriate generation date, source location, and at the stated location.

W33. Generation Plan No.	W34. Generator's Signature	Date
	[signature]	7-31-01

Handling / Pickup Information (Completed by Waste Management)

P1. Pick-up Site	P2. Pick-up Facility	P3. Pick-up Room/Area

P4. PPE Requirements

P5. Container-Labeling Requirements

___ RCRA	___ PCB	___ DET PCB (<50ppm & source <50ppm)	___ RAD	___ DOE
___ FISSILE	___ NCS EXEMPT	___ RD CONFIDENTIAL	___ ACID	___ USEC
___ FLAMMABLE	___ COMBUSTIBLE	___ OXIDIZER	___ BASE	___ WESKEM
___ ASBESTOS	___ REACTIVE	___ TRANSURANIC	___ NON-HAZ	

P6. Additional Handling Instructions

Verify Label, Barcode and Zone location

Reference FWR

Origin Date

PCB Start Date

RCRA Start Date

P7. Waste Coordinator (Issued By)	Badge	Date	P8. Disposal/Storage Completed By	Badge	Date
Eric Kimmins	703681	8-17-01	J Beardsley	31449	8-20-01

P9. Field Supervisor	Badge	Date	P10. Data Processing Completed By	Badge	Date
D A Wade	11357	8/20/01	[signature]		8-29-01

P11. Waste Item Information

Waste Item No. RFD110414-01

Container No. (Barcode) DMSA0110427

Weight ~~105 lbs est.~~ 100 lbs est.

Location and Grid C335-04 Zone 1

Container Size 1.5 ft3

P12. Operator Comments

BJCF-515a (03/01)

DMSA

received 8-29-01

LOW-LEVEL RADIOACTIVE WASTE

DOCUMENT ID NUMBER: 110414

A1. PYROPHORIC MATERIALS -OTHER THAN RADIOACTIVE FORMS OF ISOTOPES ☐ YES ☑ NO	A2. ACTIVE CHELATING AGENTS ☐ YES ☑ NO	A3. TRU RADIOISOTOPES>100 nCi/g ☐ YES ☑ NO	A4. EXPLOSIVE MATERIALS ☐ YES ☑ NO	
A5. ETILOGICAL AGENTS ☐ YES ☑ NO	A6. IGNITION SOURCES ☐ YES ☑ NO	A7. FREE LIQUIDS (Unless Wastewater) ☐ YES ☑ NO	A8. RCRA WASTE ☐ YES ☑ NO	A9. TSCA WASTE ☐ YES ☑ NO

A10. WASTE VARIANCE REQUEST NUMBER(S)

ADDITIONAL WASTE CHARACTERISTICS

A11. CHELATING AGENTS ☐ YES ☑ NO	A12. ION EXCHANGE RESINS ☐ YES ☑ NO	A13. DETECTABLE PCB (Concen. And Source <50 ppm) ☐ YES ☑ NO CONC. ppm	A14. WASTEWATER ☐ YES ☑ NO

RADIOISOTOPE DETERMINATION METHOD

DOCUMENT TYPE	DOCUMENT NUMBER
R1. ANALYSIS SAMPLE ID NO.	
R2 PROCESS KNOWLEDGE FORM NO	0210

R3. FISSILE CONTENT (Wt% U-235)	R4. GRAMS U-235	R5. NCS EXEMPT ☑ YES ☐ No	R5 CHEMICAL FORM

DOCUMENT TYPE	DOCUMENT NUMBER
01. ANALYSIS SAMPLE ID NO.	
02 PROCESS KNOWLEDGE FORM NO.	

RADIATION DATA FROM HEALTH PHYSICS SURVEY SURFACE CONTAMINATION (Data Supplied by HP)

R7. HP SURVEY REQUIRED ☐ YES ☐ NO

R8. TRANSFERABLE (Alpha) dpm/100cm2	R9. FIXED (Alpha) dpm/100cm2
R10. TRANSFERABLE (Beta/Gamma) dpm/100cm2	R11. FIXED (Beta/Gamma) dpm/100cm2
R12. EXTERNAL DOSE/PACKAGE CONTACT MREM/HR	R13. DOSE RATE MREM/HR @ METERS (BIG)
R14. HP SIGNATURE	R15. SURVEY NUMBER

I1 WASTE ITEM ID NO.	I2 ORIGIN DATE	I3 RCRA ACCUMULATION START DATE	14. PCB DATE TO STORAGE
	7-31-01		

I5. WASTE MATERIAL PLACED IN (Or Removed From) CONTAINER	I6. QUANTITY	INITIAL	DATE	I8. COMMENTS (If Waste is removed from container, then final disposition must be noted.)
Hydraulic Jack	1	EK	7-31-01	DMSA-335-04-043 Zone 1

I9. CONTAINER ID NO. (Barcode)	I10 ABSORBENT MATERIALS9 QUANTITY TYPE	I11 NMC&A FORM	I12. EST. NET VOLUME	I13 UNITS
DMSA0110427	[ ] YES [X] NO		1.5 ft³	

I14 GROSS WEIGHT	I15 UNITS	I16 INNER CONTAINER TYPE	I17 OUTER CONTAINER TYPE	I18 TANK SEAL NUMBER
est 105#				

I19. CONTAINER GENERATOR SIGNATURE [signature] DATE 7-31-01

DOE Material Storage Area (DMSA) Item - *NCS* Characterization Form

ITEM	INITIAL CHARACTERIZATION	ANALYTICAL CHARACTERIZATION: ^{235}U Assay Analysis	^{235}U Mass Analysis	Subcritical Mass Limits	NDA Radiation Surveys	NCS CLASSIFICATION
RFD # 110414 Description: HYDRAULIC JACK Independent Confirmations: Individual #1: [illegible] Date: 8-06-01 Individual #2: HCAnderson Date: 7-31-01 Other Information: Bldg./Col: C-335 C-32 DMSA #: C-335-04 Origin: N/A	Historical Documentation: Process Knowledge: Visual Inspections Completed: ___ External Surfaces Inspection ___ Internal Surfaces Inspection Completed By: Date: N/A	Sample A: ___ % ^{235}U ___ 1 sigma (% ^{235}U) ___ 2 sigma (% ^{235}U) ___ Total (^{235}U + 2 sigma) Sample B: ___ % ^{235}U ___ 1 sigma (% ^{235}U) ___ 2 sigma (% ^{235}U) ___ Total (^{235}U + 2 sigma)	Sample A: ___ g ^{235}U Sample B: ___ g ^{235}U	___ kg ^{235}U ___ Moderated Limits ___ Hydrated Limits N/A	Sample A: Date & Time Performed: ___/___/___ ___am ___pm Date & Time Results Rec'd: ___/___/___ ___am ___pm Assumed Assay: ___ % ^{235}U Mass: ___ g ^{235}U Submitted By: Date: Sample B: Date & Time Performed: ___/___/___ ___am ___pm Date & Time Results Rec'd: ___/___/___ ___am ___pm Assumed Assay: ___ % ^{235}U Mass: ___ g ^{235}U Submitted By: Date:	Initial Classification: ✓ NCS-Exempt ___ Spacing-Controlled ___ Singularly-Contingent DMSA Inspector: HCAnderson Date: 7-31-01 NDA Expert: (if NDA is performed) Date: NA Independent Verifications: Person #1: Date: Person #2: Date: Reclassification: (if needed) ___ NCS-Exempt ___ Spacing-Controlled ___ Singularly-Contingent DMSA Inspector: Date: NDA Expert: (if NDA is performed) Date: N/A Independent Verifications: Person #1: Date: Person #2: Date:

Comments: NCS EXEMPT BY PREVIOUS CHARACTERIZATION (DMSA # 335-04-043)
REFER TO ATTACHED SHEETS FOR DETAILED INFORMATION

Approved to Relocate: To ___	I have independently confirmed the identification and description for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match.	I have independently confirmed the destination for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match.
Further NCS characterization is required. Item does not contain Singularly-Contingent mass. NDA Expert #1: ___ Date: ___ NDA Expert #2: N/A Date: ___	Independent Person #1: ___ Date: ___ Independent Person #2: ___ Date: ___	Independent Person #1: ___ Date: ___ Independent Person #2: ___ Date: ___

110414

Rev 3 (10/2

DRAINED OIL RFD-110788

DMSA - Characterization Form

Item Number: DMSA-335-04-043 Building: 335 DMSA #: 335-04

Item Description: Hydraulic Jack

Origin: RCSP Owner Status: DOE Capital Equipment ID: N/A

Analytical Data

Initial Characterization

Operating History

- No NCS Concerns (Not Process Equipment)
- independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Assay

- Assay Assumed: 0
- Sample Request and Receipt Form Issued
- Assay Smear Samples,Complete
- Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0

Mass

- NDA Requested
- NDA Complete

Sample A:

Assay Used: 0

Pounds U: 0

U-235 (g): 0

Sample B:

Assay Used: 0

Pounds U: 0

U-235(g): 0

NCS Classification

- NCS-Exempt
- LS
- UH
- PEH

Characterization Completed By:

Name: [illegible]

Badge #: 062-505

Date: 3-9-00

- RCRA or TSCA Issues Identified

Comments: N/A

Item relocated N/A

New Location: Building:

DMSA #:

7-31-01 N/A

NMC&A Exempt
No visible Uranium

3-10-00

110414

ENTERED 3-14-00

Date Printed: Monday, February 21, 2200

DOE

LLW

RFD

Document ID Number 110415

Request For Disposal

Generation Process Information (Completed by Generator)

W1. Generator's Name (Print)	W2. Badge No.	W3. Generator's Phone No.	W3. Mail Stop	W5. Charge No. / WO
Eric Kimmins	703681	441-5140	C743-T1	

W6. Generator's Company	W7. Corp Owner	W8. Origin Site	W9. Origin Facility	W10. Origin Area	W11. Rad Area?
WESKEM	DOE	PGDP	C335	C335-04	☑ Yes ☐ No

W12. Number of Items	W13. Process Category (GCC)	W14. Process Activity Code	W15. AWA Number	W16. Physical Form
1	LEG	A73	—	SOLID

W17. Material Type(s)	W18. Holding Site	W19. Holding Facility	W20. Holding Area	W21 RFD Attachment
MT007	AF3PGDP	C335	C335-04	☐ A ☑ B ☐ C

Waste Subcategories (Check all that apply)

	Yes	No		Yes	No		Yes	No		Yes	No
W22. Biological		✓	W25. Const. Debris		✓	W28. Non-Friable Asbestos		✓	W31. DMSA	✓	
W23. Accountable		✓	W26. Classified		✓	W29. TRU Waste		✓			
W24. Carcinogen		✓	W27. Friable Asbestos		✓	W30. CERCLA		✓			

Waste Description / Comments

W32. DMSA-335-04-045; Hydraulic JACK

BC. DMSA0110428 Zone 1

This is to certify that the above named material is properly described and in the stated container, which is in good condition, marked with the RFD number, content, appropriate generation date, source location, and at the stated location.

W33. Generation Plan No.	W34. Generator's Signature	Date
	[signature]	7-31-01

Handling / Pickup Information (Completed by Waste Management)

P1. Pick-up Site	P2. Pick-up Facility	P3. Pick-up Room/Area
—		

P4. PPE Requirements

P5. Container-Labeling Requirements

___ RCRA	___ PCB	___ DET PCB (<50ppm & source <50ppm)	___ RAD	___ DOE
___ FISSILE	___ NCS EXEMPT	___ RD CONFIDENTIAL	___ ACID	___ USEC
___ FLAMMABLE	___ COMBUSTIBLE	___ OXIDIZER	___ BASE	___ WESKEM
___ ASBESTOS	___ REACTIVE	___ TRANSURANIC	___ NON-HAZ	

P6. Additional Handling Instructions

Verify LABEL, Barcode, and Zone Location

Reference FWR

Origin Date

PCB Start Date

RCRA Start Date

P7. Waste Coordinator (Issued By)	Badge	Date	P8. Disposal/Storage Completed By	Badge	Date
Eric Kimmins	703681	8-7-01	S Beardsley	8.2001	

P9. Field Supervisor	Badge	Date	P10. Data Processing Completed By	Badge	Date
D A Wade	11357	8/20/01	Cliy Walker		8-25-01

P11. Waste Item Information

Waste Item No. RFD 110415-01

Container No. (Barcode) DMSA 0110428

Weight EST. 100#

Location and Grid C335-04 Zone 1

Container Size 1.5 cuft Est

P12. Operator Comments

BJCF-515a (03/01)

DMSA

received 8-27-01

LOW-LEVEL RADIOACTIVE WASTE

ATTACHMENT A

DOCUMENT ID NUMBER: 110415

PROHIBITED ITEMS

A1. PYROPHORIC MATERIALS -OTHER THAN RADIOACTIVE FORMS OF ISOTOPES ☐ YES ☑ No	A2. ACTIVE CHELATING AGENTS ☐ YES ☑ NO	A3. TRU RADIOISOTOPES >100 nCi/g ☐ YES ☑ NO	A4. EXPLOSIVE MATERIALS ☐ YES ☑ NO
A5. ETILOGICAL AGENTS ☐ YES ☑ NO	A6. IGNITION SOURCES ☐ YES ☑ NO	A7. FREE LIQUIDS (Unless Wastewater) ☐ YES ☑ NO	A8. RCRA WASTE ☐ YES ☑ NO / A9. TSCA WASTE ☐ YES ☑ NO

A10. WASTE VARIANCE REQUEST UMBER(S)

A11. CHELATING AGENTS ☐ YES ☑ NO	A12. ION EXCHANGE RESINS ☐ YES ☑ NO	A13. DETECTABLE PCB (Concen. And Source <50 p m) ☐ YES ☑ NO CONC. ppm	A14. WASTEWATER ☐ YES ☑ NO

RADIOISOTOPE DETERMINATION METHOD

DOCUMENT TYPE	DOCUMENT NUMBER
R1. ANALYSIS SAMPLE ID NO.	
R2. PROCESS KNOWLEDGE FORM NO.	0210

R3. FISSILE CONTENT (Wt% U-235)	R4. GRAMS U-235	R5. NCS EXEMPT ☑ YES ☐ NO	R5. CHEMICAL FORM

OTHER SAMPLE ANALYSIS

DOCUMENT TYPE	DOCUMENT NUMBER
O1. ANALYSIS SAMPLE ID NO.	
O2. PROCESS KNOWLEDGE FORM NO.	

RADIATION DATA FROM HEALTH PHYSICS SURVEY SURFACE CONTAMINATION (Data Supplied by HP)

R7. HP SURVEY REQUIRED ☐ YES ☐ NO

R8. TRANSFERABLE (Alpha) dpm/100cm2	R9. FIXED (Alpha) dpm/100cm2
R10. TRANSFERABLE (Beta/Gamma) dpm/100cm2	R11. FIXED (Beta/Gamma) dpm/100cm2
R12. EXTERNAL DOSEYPACKAGE CONTACT MREM/HR	R13. DOSE RATE MREM/HR @ METERS (B/G)
R14. HP SIGNATURE	R15. SURVEY NUMBER

WASTE ITEM CONTAINER LOG

10. ITEM/CONTAINER				DOCUMENT ID NUMBER
	1 OF 1			110415
11. WASTE ITEM ID NO.	12. ORIGIN DATE	13. RCRA ACCUMULATION START DATE		14. PCB DATE TO STORAGE
110415-01	7-31-01			

15. WASTE MATERIAL PLACED IN (Or Removed From) CONTAINER	16. QUANTITY	17. DEPOSITOR INITIAL	17. DEPOSITOR DATE	18. COMMENTS (If Waste is removed from container, then final disposition must be noted.)
Hydraulic JACK	1	EK	7-31-01	DMSA-335-04-045 Zone 1

19. CONTAINER ID NO. (Barcode)	110 ABSORBENT MATERIALS? QUANTITY TYPE	111. NMC&A FORM	112. EST. NET VOLUME	113 UNITS
DMSA0110428	[ ] YES [✓] NO		1.5 ft³	

114. GROSS WEIGHT	115. UNITS	116. INNER CONTAINER TYPE	117. OUTER CONTAINER TYPE	118. TANK SEAL NUMBER
est 100#				

119. CONTAINER GENERATOR SIGNATURE	DATE
E-K	7-31-01

DOE Material Storage Area (DMSA) Item - NCS Characterization Form

ITEM	INITIAL CHARACTERIZATION	ANALYTICAL CHARACTERIZATION: ^{235}U Assay Analysis	^{235}U Mass Analysis	Subcritical Mass Limits	NDA Radiation Surveys	NCS CLASSIFICATION
RFD # 110415 Description HYDRAULIC JACK Independent Confirmations: Individual #1: [illegible] Date: 7-31-01 Individual #2: HCAnderson Date: 7-31-01 . . . . . . Other Information: Bldg./Col.: C-335 B-32 DMSA #: C-335-04 Origin: N/A	Historical Documentation: Process Knowledge: Visual Inspections Completed: ____ External Surfaces Inspection ____ Internal Surfaces Inspection Completed By: Date: N/A	Sample A: ___ % ^{235}U ___ 1 sigma (% ^{235}U) ___ 2 sigma (% ^{235}U) ___ Total (^{235}U + 2 sigma) Sample B: ___ % ^{235}U ___ 1 sigma (% ^{235}U) ___ 2 sigma (% ^{235}U) ___ Total (^{235}U + 2 sigma)	Sample A: ___ g ^{235}U Sample B: ___ g ^{235}U	___ kg ^{235}U ___ Moderated Limits ___ Hydrated Limits N/A	Sample A: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: ___ % ^{235}U Mass: ___ g ^{235}U Submitted By: Date: Sample B: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: ___ % ^{235}U Mass: ___ g ^{235}U Submitted By: Date:	Initial Classification: ✓ NCS-Exempt ___ Spacing-Controlled ___ Singularly-Contingent DMSA Inspector: HCAnderson Date: 7-31-01 NDA Expert: (if NDA is performed) Date: N/A Independent Verifications: Person #1: Date: Person #2: Date: . . . . . . Reclassification: (if needed) ___ NCS-Exempt ___ Spacing-Controlled ___ Singularly-Contingent DMSA Inspector: Date: NDA Expert: (if NDA is performed) Date: N/A Independent Verifications: Person #1: Date: Person #2: Date:

Comments: NCS EXEMPT BY PREVIOUS CHARACTERIZATION (DMSA# 335-04-045)
REFER TO ATTACHED SHEETS FOR DETAILED INFORMATION

Approved to Relocate: To Further NCS characterization is required. Item does not contain Singularly-Contingent mass. NDA Expert #1: Date: NDA Expert #2: N/A Date:	I have independently confirmed the identification and description for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match, Independent Person #1: Date: Independent Person #2: Date:	I have independently confirmed the destination for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match. Independent Person #1: Date: Independent Person #2: Date:

Rev. 3 (10/2000)

DRAINED OIL RFD 110780

110415

DMSA - Charac zation Form

MAR 1 2 2000

COPY

Item Number: DMSA-335-04-045 Building: 335 DMSA #: 335-04

Item Description: Hydraulic Jack

Origin: PGDP Owner Status: DOE Capital Equipment ID: NA

Analytical Data

Initial Characterization

Operating History

- [x] No NCS Concerns (Not Process Equipment)
- [ ] Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

~~Visual Inspection~~

- [ ] Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Assay

- [ ] Assay Assumed: 0
- [ ] Sample Request and Receipt Form issued
- [ ] Assay Smear Samples Complete
- [ ] Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0

A&

Mass

- [ ] NDA Requested
- [ ] NDA Complete

Sample A:

Assay Used: 0

Pounds U: 0

U-235 (g): 0

Sample B:

Assay Used: 0

Pounds U: 0

U-235(g): 0

NA

NCS Classification

- [x] NCS-Exempt
- [ ] LS
- [ ] UH
- [ ] PEH

Characterization Completed By:

Name: [illegible]

Badge #: 662505

Date: 3-7-00

- [ ] RCRA or TSCA Issues Identified

Comments: NA

- [ ] Item relocated NA

New Location: Building:

DMSA #:

7-31-01 NCA

NMC&A Exempt
No visible Uranium

cf 3-10-00

11/04/15 ENTERED 3-14-00

Date Printed: Monday, February 21, 2000

DOE

RFD

LLW

Request For Disposal

Document ID Number 110416

Generation Process Information (Completed by Generator)

W1. Generator's Name (Print)	W2. Badge No.	W3. Generator's Phone No.	W3. Mail Stop	W5. Charge No. / WO
Eric Kimmins	703681	441-5140	C-743-51	—

W6. Generator's Company	W7. Corp Owner	W8. Origin Site	W9. Origin Facility	W10. Origin Area	W11. Rad Area?
WESKEM	DOE	PGDP	C-335	C-335-04	☒ Yes ☐ No

W12. Number of Items	W13. Process Category (GCC)	W14. Process Activity Code	W15. AWA Number	W16. Physical Form
1	LEG	A93	—	SOLID

W17. Material Type(s)	W18. Holding Site	W19. Holding Facility	W20. Holding Area	W21 RFD Attachment
MT007	PGDP	C-335	C-335-04	☒ A ☒ B ☐ C

Waste Subcategories (Check all that apply)

	Yes	No		Yes	No		Yes	No		Yes	No
W22. Biological		✓	W25. Const. Debris		✓	W28. Non-Friable Asbestos		✓	W31. DMSA	✓	
W23. Accountable		✓	W26. Classified		✓	W29. TRU Waste		✓			
W24. Carcinogen		✓	W27. Friable Asbestos		✓	W30. CERCLA		✓			

Waste Description / Comments

W32. DMSA.335-04-047; Hydraulic Oil Pump.

B.C. DMSA0110429 Zone 1

This is to certify that the above named material is properly described and in the stated container, which is in good condition, marked with the RFD number, content, appropriate generation date, source location. and at the stated location.

W33. Generation Plan No.	W34. Generator's Signature	Date
	[signature]	7-31-01

Handling / Pickup Information (Completed by Waste Management)

P1. Pick-up Site	P2. Pick-up Facility	P3. Pick-up Room/Area

P4. PPE Requirements

P5. Container-Labeling Requirements

___ RCRA	___ PCB	___ DET PCB (<50ppm & source <50ppm)	___ RAD	___ DOE
___ FISSILE	___ NCS EXEMPT	___ RD CONFIDENTIAL	___ ACID	___ USEC
___ FLAMMABLE	___ COMBUSTIBLE	___ OXIDIZER	___ BASE	___ WESKEM
___ ASBESTOS	___ REACTIVE	___ TRANSURANIC	___ NON-HAZ	

P6. Additional Handling Instructions,
Verify LABEL, Zone, & Barcode
add PCB detectable label

Reference FWR	
Origin Date	
PCB Start Date	
RCRA Start Date	

P7. Waste Coordinator (Issued By)	Badge	Date	P8. Disposal/Storage Completed By	Badge	Date
[signature]	705C81	2/1/02	[signature]	70140	2/13/02

P9. Field Supervisor	Badge	Date	P10. Data Processing Completed By	Badge	Date
D A Wade	11357	2/13/02	[signature]	705451	2-18-02

Waste Item No. 110416-01
Container No. (Barcode) DMSA0110429
Weight 3FT 1200LBS
Location and Grid DMSA 335-04 Zone 1
Container Size 3FT

BJCF-515a (03/01)

DMSA

received 8-29-01

Low-Level Radioactive Waste

Attachment A

Document ID Number: 110416

Prohibited Items

	Yes	No		Yes	No
A1. Pyrophoric Materials (Other than radioactive forms of isotopes)		✓	A6. Ignition sources		✓
A2. Active Chelating Agents		✓	A7. Free Liquids (Unless Wastewater)		✓
A3. TRU Radioisotopes > 100 nCi/g		✓	A8. RCRA Waste		✓
A4. Explosive Materials		✓	A9. TSCA Waste		✓
A5. Etilogical Agents		✓			

A10. Waste Variance Request Number(s)

Additional Waste Characteristics

	Yes	No		Yes	No
A11. Chelating Agents		✓	A13. Detectable PCB (Concen and Source <50 ppm) Conc. ppm		✓
A12. ION Exchange Resins		✓	A14. Wastewater		✓

Radioisotope Determination Method

Document Type	Document Number		
R1. Analysis Sample Id No.			
R2. Process Knowledge Form No. 210			
R3. Fissile Content (Wt% U-235)	R4. Grams U-235	R5. NCS Exempt ☑ Yes ☐ No	R6. Chemical Form

Other Sample Analysis

Document Type	Document Number
01. Analysis Sample Id No.	
02. Process Knowledge Form No.	

Radiation Data From Health Physics Survey Surface Contamination (Data Supplied by HP)

R7. HP Survey Required ☐ Yes ☐ NO

R8. Transferable (Alpha) dpm/100cm2	R9. Fixed (Alpha) dpm/100cm2
R10. Transferable (Beta/Gamma) dpm/100cm2	R11. Fixed (Beta/Gamma) dpm/100cm2
R12. External Dose/Package Contact MREM/HR	R13. Dose Rate MREM/HR @ Meters (B/G)
R14. HP Signature	R15. Survey Number

BJCF-560 (08/01)

WASTE ITEM CONTAINER LOG

10. ITEM/CONTAINER	1 OF 1	DOCUMENT ID NUMBER 110416

11 WASTE ITEM ID NO	12 ORIGIN DATE	13 RCRA ACCUMULATION START DATE	14 PCB DATE TO STORAGE
110416-01	7-31-01		

15. WASTE MATERIAL PLACED IN (Or Removed From) CONTAINER	16. QUANTITY	17. DEPOSITOR INITIAL	17. DEPOSITOR DATE	18. COMMENTS (If Waste is removed from container, then final disposition must be noted.)
Hydraulic Oil Pump	1	CK	7-31-01	VMSA935-04-047 Zone 1

19. CONTAINER ID NO. (Barcode)	110. ABSORBENT MATERIALS? QUANTITY TYPE	111. NMC&A FORM	112. EST. NET VOLUME	113 UNITS
0935p110429	☐ YES ☒ NO		3 ft³	

114. GROSS WEIGHT	115. UNITS	116. INNER CONTAINER TYPE	117. OUTER CONTAINER TYPE	118. TANK SEAL NUMBER
1200 LBS				

119. CONTAINER GENERATOR SIGNATURE CK DATE 7-31-01

COPY

DOE Material Storage Area (DMSA) Item - NCS Characterization Form

ITEM	INITIAL CHARACTERIZATION	ANALYTICAL CHARACTERIZATION: ^{235}U Assay Analysis	^{235}U Mass Analysis	Subcritical Mass Limits	NDA Radiation Surveys	NCS CLASSIFICATION
RFD # 110416 Description: HYDRAULIC OIL Pump Independent Confirmations: Individual #1: [illegible] Date: 7-31-01 Individual #2: HC Anderson Date: 7-31-01 Other Information: Bldg./Col C-335 B-32 DMSA #: C-335-04 Origin: N/A	Historical Documentation: Process Knowledge: Visual Inspections Completed: ____ External Surfaces Inspection ____ Internal Surfaces Inspection Completed By: Date: N/A	Sample A: ___ % ^{235}U ___ 1 sigma (% ^{235}U) ___ 2 sigma (% ^{235}U) ___ Total (^{235}U + 2 sigma) Sample B: ___ % ^{235}U ___ 1 sigma (% ^{235}U) ___ 2 sigma (% ^{235}U) ___ Total (^{235}U + 2 sigma)	Sample A: ___ g ^{235}U Sample B: ___ g ^{235}U	___ kg ^{235}U ___ Moderated Limits ___ Hydrated Limits N/A	Sample A: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: ___ % ^{235}U Mass: ___ g ^{235}U Submitted By: Date: Sample B: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: ___ % ^{235}U Mass: ___ g ^{235}U Submitted By: Date:	Initial Classification: ✓ NCS-Exempt ___ Spacing-Controlled ___ Singularly-Contingent DMSA Inspector: HC Anderson Date: 7-31-01 NDA Expert: (if NDA is performed) Date: N/A Independent Verifications: Person #1: Date: Person #2: Date: Reclassification: (if needed) ___ NCS-Exempt ___ Spacing-Controlled ___ Singularly-Contingent DMSA Inspector: Date: NDA Expert: (if NDA is performed) Date: N/A Independent Verifications: Person #1: Date: Person #2: Date:

Comments: NCS EXEMPT BY PREVIOUS CHARACTERIZATION (DMSA# 335-04-047)
REFER TO ATTACHED SHEETS FOR DETAILED INFORMATION

Approved to Relocate: To Further NCS characterization is required. Item does not contain Singularly-Contingent mass. NDA Expert #1: Date: NDA Expert #2: N/A Date:	I have independently confirmed the identification and description for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match. Independent Person #1: Date: Independent Person #2: Date:	I have independently confirmed the destination for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match. Independent Person #1: Date: Independent Person #2: Date:

Rev. 3 (10/2000)

110416

DRAINED OIL PRIOR TO [illegible]

MAR 1 ? ENTC

COPY

DMSA - Charac ation Form

Item Number: DMSA-335-04-047 Building: 335 DMSA #: 335-04

Item Description: Hydraulic Oil Pump

Origin: PGDP Owner Status: DOE Capital Equipment ID: N/A

Analytical Data

Initial Characterization

Operating History

☒ No NCS Concerns (Not Process Equipment)

Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Assay

Assay Assumed: 0

Sample Request and Receipt Form Issued

Assay Smear Samples Complete

Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0

N/A

Mass

☐ NDA Requested

☐ NDA Complete

Sample A:

Assay Used: 0

Pounds U: 0

U-235 (g): 0

Sample B:

Assay Used: 0

Pounds U: 0

U-235(g): 0

N/A

NCS Classification

☒ NCS-Exempt

☐ LS

☐ UH

☐ PEH

Characterization Completed By:

Name: [illegible]

Badge #: 66205

Date: 3-9-00

☐ RCRA or TSCA Issues Identified

Comments:

N/A

☐ Item relocated N/A

New Location: Building:

DMSA #:

7-31-01 [illegible]

NMC&A Exempt
No visible Uranium

[illegible] 3-10-00

110416

ENTERED 3-14-00

Date Printed: Monday, February 21, 2000

DOE LLW RFD

Request For Disposal

Document ID Number 110418

Generation Process Information (Completed by Generator)

W1. Generator's Name (Print)	W2. Badge No.	W3. Generator's Phone No.	W3. Mail Stop	W5. Charge No. / WO
Eric Kimmins	703681	441-5140	C-743-J1	

W6. Generator's Company	W7. Corp Owner	W8. Origin Site	W9. Origin Facility	W10. Origin Area	W11. Rad Area?
WESKEM	DOE	PGDP	C-335	C-335-04	☑ Yes ☐ No

W12. Number of Items	W13. Process Category (GCC)	W14. Process Activity Code	W15. AWA Number	W16. Physical Form
1	EG	A93	—	SOLID

W17. Material Type(s)	W18. Holding Site	W19. Holding Facility	W20. Holding Area	W21 RFD Attachment
MT007	PGDP	C-335	C-335-04	☑ A ☐ B ☐ C

Waste Subcategories (Check all that apply)

	Yes	No		Yes	No		Yes	No		Yes	No
W22. Biological		✓	W25. Const. Debris		✓	W28. Non-Friable Asbestos		✓	W31. DMSA	✓	
W123. Accountable		✓	W26. Classified			W29. TRU Waste		✓			
W24. Carcinogen		✓	W27. Friable Asbestos		✓	W30. CERCLA		✓			

Waste Description / Comments

W32. DMSA WASTE Generation Container (METAL)

B.C.
DMSA0110445 Zone

This is to certify that the above named material is properly described and in the stated container, which is in good condition, marked with the RFD number, content, appropriate generation date, source location, and at the stated location.

W33. Generation Plan No.	W34. Generator's Signature	Date
	E. K.	7-31-01

Handling / Pickup Information (Completed by Waste Management)

P1. Pick-up Site	P2. Pick-up Facility	P3. Pick-up Room/Area

P4. PPE Requirements

P5. Container-Labeling Requirements

___ RCRA	___ PCB	___ DET PCB (<50ppm & source <50ppm)	___ RAD	___ DOE
___ FISSILE	___ NCS EXEMPT	___ RD CONFIDENTIAL	___ ACID	___ USEC
___ FLAMMABLE	___ COMBUSTIBLE	___ OXIDIZER	___ BASE	___ WESKEM
___ ASBESTOS	___ REACTIVE	___ TRANSURANIC	___ NON-HAZ	

P6. Additional Handling Instructions

Verify Labeling, Barcode, and Zone.

Reference FWR
Origin Date
PCB Start Date
RCRA Start Date

P7. Waste Coordinator (Issued By)	Badge	Date	P8. Disposal/Storage Completed By	Badge	Date
Eric Kimmins	703681	8-6-01	R. Hallock	15178	8-6-01

P9. Field Supervisor	Badge	Date	P10. Data Processing Completed By	Badge	Date
D A Wade	11357	8/6/01	Chy Walker		8-10-01

P11. Waste Item Information

Waste Item No. RFD 110418-01
Container No. (Barcode) DMSA0110445
Weight APP 100 lbs
Location and Grid Zone #2 C-335-04
Container Size 7.4 cu ft APP

P12. Operator Comments

BJCF-515a (03/01)

DMSA

received 8-9-01 (a)

LOW-LEVEL RADIOACTIVE WASTE

ATTACHMENT A

DOCUMENT ID NUMBER: 110418

PROHIBITED ITEMS

A1. PYROPHORIC MATERIALS -OTHER THAN RADIOACTIVE FORMS OF ISOTOPES	A2. ACTIVE CHELATING AGENTS	A3. TRU RADIOISOTOPES>100 nCi/g	A4. EXPLOSIVE MATERIALS
☐ YES ☑ NO	☐ YES	☐ YES ☑ NO	☐ YES ☑ NO

A5. ETILOGICAL AGENTS	A6. IGNITION SOURCES	A7. FREE LIQUIDS (Unless Wastewater)	A8. RCRA WASTE	A9. TSCA WASTE
☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO

A10. WASTE VARIANCE REQUEST NUMBER(S)

ADDITIONAL WASTE CHARACTERISTICS

A11. CHELATING AGENTS	A12. ION EXCHANGE RESINS	A13. DETECTABLE PCB (Concen. And Source <50 ppm)	CONC.	A14. WASTEWATER
☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	ppm	☐ YES ☑ NO

RADIOISOTOPE DETERMINATION METHOD

DOCUMENT TYPE	DOCUMENT NUMBER
R1. ANALYSIS SAMPLE ID NO.	
R2. PROCESS KNOWLEDGE FORM NO	0210

R3 FISSILE CONTENT (Wt% U-235)	R4. GRAMS U-235	R5. NCS EXEMPT	R5. CHEMICAL FORM
		☑ YES ☐ NO	

DOCUMENT TYPE	DOCUMENT NUMBER
01. ANALYSIS SAMPLE ID NO.	
02. PROCESS KNOWLEDGE FORM NO.	

RADIATION DATA FROM HEALTH PHYSICS SURVEY SURFACE CONTAMINATION (Data Supplied by HP)

R7. HP SURVEY REQUIRED

☐ YES ☐ NO

R8. TRANSFERABLE (Alpha) dpm/100cm2	R9. FIXED (Alpha) dpm/100cm2
R10. TRANSFERABLE (Beta/Gamma) dpm/100cm2	R11. FIXED (Beta/Gamma) dpm/100cm2
R12. EXTERNAL DOSE/PACKAGE CONTACT MREM/HR	R13. DOSE RATE MREM/HR @ METERS (B/G)
R14. HP SIGNATURE	R15. SURVEY NUMBER

WASTE ITEM CONTAINER LOG

10. ITEM/CONTAINER	DOCUMENT ID NUMBER
1 OF 1	110418

11 WASTE ITEM ID NO.	12 ORIGIN DATE	13. RCRA ACCUMULATION START DATE	14. PCB DATE TO STORAGE
110418-01	7-31-01	—	—

15. WASTE MATERIAL PLACED IN (Or Removed From) CONTAINER	16. QUANTITY	17. DEPOSITOR INITIAL	17. DEPOSITOR DATE	18. COMMENTS (If Waste is removed from container, then final disposition must be noted.)
Misc. Nuts & Bolts	@200	JRA	8-1-01	From Zone 2
Misc Shems	@30	JRA	8-1-01	" " "
Steel welding rods	10	JRA	8-1-01	" "
Steel rod	2	JRA	8-1-01	" "
connection wire	1	JRA	8-1-01	" "

19. CONTAINER ID NO. (Barcode)	110 ABSORBENT MATERIALS? QUANTITY TYPE	111. NMC&A FORM	112. EST. NET VOLUME	113 UNITS
DMSA0110445	[ ] YES [X] NO		7.4	FT3

114 GROSS WEIGHT	115. UNITS	116. INNER CONTAINER TYPE	117. OUTER CONTAINER TYPE	118. TANK SEAL NUMBER
100 Lbs# est.				

119. CONTAINER GENERATOR SIGNATURE	DATE
C. N.	7-31-01

DOE Material Storage Area (DMSA) Item - NCS Characterization Form

ITEM	INITIAL CHARACTERIZATION	ANALYTICAL CHARACTERIZATION: ^{235}U Assay Analysis	ANALYTICAL CHARACTERIZATION: ^{235}U Mass Analysis	ANALYTICAL CHARACTERIZATION: Subcritical Mass Limits	ANALYTICAL CHARACTERIZATION: NDA Radiation Surveys	NCS CLASSIFICATION
RFD #: 110418 Description: 55 GAL DRUM DMSA WASTE METAL Independent Confirmations: Individual #1: [illegible] Individual #2: HC Anderson Date: 8-1-01 Other Information: Bldg Co: C-335 D-32 DMSA #: C-335-04 Origin: N/A	Historical Documentation: N/A Process Knowledge: NOT PROCESS EQUIPMENT Visual Inspections Completed: ___ External Surfaces Inspection ___ Internal Surfaces Inspection Completed By: Date: N/A	Sample A: ___ % ^{235}U ___ 1 sigma (% ^{235}U) ___ 2 sigma (% ^{235}U) ___ Total (^{235}U + 2 sigma) Sample B: ___ % ^{235}U ___ 1 sigma (% ^{235}U) ___ 2 sigma (% ^{235}U) ___ Total (^{235}U + 2 sigma)	Sample A: ___ g ^{235}U Sample B: ___ g ^{235}U	___ kg ^{235}U ___ Moderated ___ Hydrated Limits N/A	Sample A: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: ___ % ^{235}U Mass: ___ g ^{235}U Submitted By: Date: Sample B: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: ___ % ^{235}U Mass: ___ g ^{235}U Submitted By: Date:	Initial Classification: ___ NCS-Exempt ___ Spacing-Controlled ___ Singularly-Contingent DMSA Inspector: HC Anderson Date: 8-1-01 NDA Expert: N/A (if NDA is performed) Date: Independent Verifications: Person #1: [illegible] Date: 8-1-01 Person #2: [illegible] Date: 8/1/01 Reclassification: (if needed) ___ NCS-Exempt ___ Spacing-Controlled ___ Singularly-Contingent DMSA Inspector: Date: NDA Expert: (if NDA is performed) Date: Independent Verifications: Person #1: Date: Person #2: Date: N/A

Comments: NO PREVIOUS DMSA # AVAILABLE

Approved to Relocate To: ___
Further NCS characterization not required. Item does not contain Singularly-Contingent mass.

NDA Expert #: ___
Date: ___

NDA Expert #: ___
Date: N/A

I have independently confirmed the identification and description for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match.

Independent Person #1: ___
Date: ___

Independent Person #2: ___
Date: ___

I have independently confirmed the destination for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match.

Independent Person #1: ___
Date: ___

Independent Person #2: ___
Date: ___

Rev. [illegible] 2000

110418

DOE

LLW

Document ID Number

Request For Disposal

Generation Process Information (Completed by Generator)

W1. Generator's Name (Print)	W2. Badge No.	W3. Generator's Phone No.	W3. Mail Stop	W5. Charge No. / WO
Eric Kimmins	903681	441-5140	C-743-T1	

W6. Generator's Company	W7. Corp Owner	W8. Origin Site	W9. Origin Facility	W10. Origin Area	W11. Rad Area?
WESKEM	DOE	PGDP	C-335	C-335-04	☑ Yes ☐ No

W12. Number of Items	W13. Process Category (GCC)	W14. Process Activity Code	W15. AWA Number	W16. Physical Form
1	LEG	A93	–	SOLID

W17. Material Type(s)	W18. Holding Site	W19. Holding Facility	W20. Holding Area	W21 RFD Attachment
MT007	PGDP	C-335	C-335-04	☑ A ☐ B ☐ C

Waste Subcategories (Check all that apply)

	Yes	No		Yes	No		Yes	No		Yes	No
W22. Biological		✓	W25. Const. Debris		✓	W28. Non-Friable Asbestos		✓	W31. DMSA	✓	
W23. Accountable		✓	W26. Classified		✓	W29. TRU Waste		✓			
W24. Carcinogen		✓	W27. Friable Asbestos		✓	W30. CERCLA		✓			

Waste Description / Comments

W32. DMSA-335-04-049; TRAP 10'x4'

B.C. DMSA0110422 zone 1

This is to certify that the above named material is properly described and in the stated container, which is in good condition, marked with the RFD number, content, appropriate generation date, source location, and at the stated location.

W33. Generation Plan No.	W34. Generator's Signature	Date
	[signature]	7-31-01

Handling / Pickup Information (Completed by Waste Management)

P1. Pick-up Site	P2. Pick-up Facility	P3. Pick-up Room/Area

P4. PPE Requirements

P5. Container-Labeling Requirements

___ RCRA	___ PCB	___ DET PCB (<50ppm & source <50ppm)	___ RAD	___ DOE
___ FISSILE	___ NCS EXEMPT	___ RD CONFIDENTIAL	___ ACID	___ USEC
___ FLAMMABLE	___ COMBUSTIBLE	___ OXIDIZER	___ BASE	___ WESKEM
___ ASBESTOS	___ REACTIVE	___ TRANSURANIC	___ NON-HAZ	

P6. Additional Handling Instructions

Verify LABeling, Barcode, and Zone.

Reference FWR

Origin Date

PCB Start Date

RCRA Start Date

P7. Waste Coordinator (Issued By)	Badge	Date	P8. Disposal/Storage Completed By	Badge	Date
Eric Kimmins	903681	8-6-01	Jeff Seaton	704274	8-6-01

P9. Field Supervisor	Badge	Date	P10. Data Processing Completed By	Badge	Date
D A Wade	11357	8-6-01	Chris Walker		8-10-01

P11. Waste Item Information

Waste Item No. 110419-01

Container No. (Barcode) DMSA 0110422

Weight 150 lbs est.

Location and Grid DMSA 335-04 zone 1

Container Size 4 [redacted] est.

P12. Operator Comments

BJCF-515a (03/01)

DMSA

received

LOW-LEVEL RADIOACTIVE WASTE

ATTACHMENT A

DOCUMENT ID NUMBER 110419

A1. PYROPHORIC MATERIALS -OTHER THAN RADIOACTIVE FORMS OF ISOTOPES ☐ YES ☑ NO	A2. ACTIVE CHELATING AGENTS ☐ YES ☑ NO	A3. TRU RADIOISOTOPES >100 nCi/g ☐ YES ☑ NO	A4. EXPLOSIVE MATERIALS ☐ YES ☑ NO	
A5. ETILOGICAL AGENTS ☐ YES ☑ NO	A6. IGNITION SOURCES ☐ YES ☑ NO	A7. FREE LIQUIDS (Unless Wastewater) ☐ YES ☑ NO	A8. RCRA WASTE ☐ YES ☑ NO	A9. TSCA WASTE ☐ YES ☑ NO

A10. WASTE VARIANCE REQUEST NUMBER(S)

A11. CHELATING AGENTS ☐ YES ☑ NO	A12 ION EXCHANGE RESIN ☐ YES	A13. DETECTABLE PCB (Concen. And Source <50 ppm) ☐ YES ☑ NO CONC. ppm	A14. WASTEWATER ☐ YES ☑ NO

DOCUMENT TYPE	DOCUMENT NUMBER
R1. ANALYSIS SAMPLE ID NO	
R2. PROCESS KNOWLEDGE FORM NO.	0210

R3. FISSILE CONTENT (Wt% U-235)	R4. GRAMS U-235	R5. NCS EXEMPT ☑ YES ☐ NO	R5. CHEMICAL FORM

DOCUMENT TYPE	DOCUMENT NUMBER
01. ANALYSIS SAMPLE ID NO.	
02. PROCESS KNOWLEDGE FORM NO.	

RADIATION DATA FROM HEALTH PHYSICS SURVEY
SURFACE CONTAMINATION (Data Supplied by HP)

R7. HP SURVEY REQUIRED ☐ YES ☐ NO

R8. TRANSFERABLE (Alpha) dpm/100cm2	R9. FIXED (Alpha) dpm/100cm2
R10. TRANSFERABLE (Beta/Gamma) dpm/100cm2	R11. FIXED (Beta/Gamma) dpm/100cm2
R12. EXTERNAL DOSE/PACKAGE CONTACT MREM/HR	R13. DOSE RATE MREM/HR @ METERS (B/G)
R14. HP SIGNATURE	R15. SURVEY NUMBER

WASTE ITEM CONTAINER LOG

10. ITEM/CONTAINER	1 OF 1	OOCUMENT ID NUMBER 110419

11 WASTE ITEM ID NO	12 ORIGIN DATE	13 RCRA ACCUMULATION START DATE	14. PCB DATE TO STORAGE
110419-01	7-31-01		

15. WASTE MATERIAL PLACED IN (Or Removed From) CONTAINER	16. QUANTITY	17. DEPOSITOR INITIAL	17. DEPOSITOR DATE	18. COMMENTS (If Waste is removed from container, then final disposition must be noted.)
TRAP 10"x4'	1	EK	7-31-01	OMSA.335.04-049 Zone 1

19. CONTAINER ID NO. (Barcode)	110 ABSORBENT MATERIALS? QUANTITY TYPE	111 NMC&A FORM	112 EST NETVOLUME	113 UNITS
OMSA0110422	[ ] YES [X] NO		4 ft3	

114 GROSS WEIGHT	115. UNITS	116. INNER CONTAINER TYPE	117 OUTER CONTAINER TYPE	118 TANK SEAL NUMBER
150 LBS# GST.				

119. CONTAINER GENERATOR SIGNATURE [signature] DATE 7-31-01

UCN-20700 PAGE 2

DOE Material Storage Area (DMSA) Item - NCS Characterization Form

ITEM	INITIAL CHARACTERIZATION	ANALYTICAL CHARACTERIZATION: ^{235}U Assay Analysis	ANALYTICAL CHARACTERIZATION: ^{235}U Miss Analysis	ANALYTICAL CHARACTERIZATION: Subcritical Mass Limits	ANALYTICAL CHARACTERIZATION: NDA Radiation Surveys	NCS CLASSIFICATION
RFD # 110419 Description: TRAP 10" DIAMETER 4' LONG Independent Confirmations: Individual #1: Guellon Date: 7-31-01 Individual #2: HC Anderson Date: 7-31-01 DMSA INFORMATION: Bldg.-Col: C-335 B-32 DMSA #: C-335-00 Origin: N/A	Historical Documentation: Process Knowledge: Visual Inspections Completed: External Surfaces Inspection Internal Surfaces Inspection Completed By: Date: N/A	Sample A: % ^{235}U 1 sigma (% ^{235}U) 2 sigma (% ^{235}U) Total (^{235}U + 2 sigma) Sample B: % ^{235}U 1 sigma (% ^{235}U) 2 sigma (% ^{235}U) Total (^{235}U + 2 sigma)	Sample A: g ^{235}U Sample B: g ^{235}U	kg ^{235}U Moderated Limits Hydrated Limits N/A	Sample A: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: ___ % ^{235}U Mass: ___ g ^{235}U Submitted By: Date: Sample B: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: ___ % ^{235}U Mass: ___ g ^{235}U Submitted By: Date:	Initial Classification: ✓ NCS-Exempt Spacing-Controlled Singularly-Contingent DMSA Inspector: HC Anderson Date: 7-31-01 NDA Expert: N/A (if NDA is performed) Date: Independent Verifications: Person #1: Date: Person #2: Date: Reclassification: (if needed) NCS-Exempt Spacing-Controlled Singularly-Contingent DMSA Inspector: Date: NDA Expert: (if NDA is performed) Date: N/A Independent Verifications: Person #1: Date: Person #2: Date:

Comments: NCS EXEMPT BY PREVIOUS CHARACTERIZATION (DMSA # 335-04-049)
REFER TO ATTACHED SHEETS FOR DETAILED INFORMATION

Approved to Relocate: To Further NCS characterization is required. Item does not contain Singularly-Contingent mass. NDA Expert #1: Date: NDA Expert #2: N/A Date:	I have independently confirmed the identification and description for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match. Independent Person #1: Date: Independent Person #2: Date:	I have independently confirmed the destination for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match. Independent Person #1: Date: Independent Person #2: Date:

110419

Rev. 3 (10/2000)

DMSA - Chara zation Form

Item Number: DMSA-335-04-049 Building: 335 DMSA #: 335-04

Item Description: Trap 10" Diameter ~ 4' Long

Origin: GOP Owner Status: DOE Capital Equipment ID: N/A

MAY 24 2000

Analytical Data

Initial Characterization

Operating History

- No NCS Concerns (Not Process Equipment)
- Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

N/A

Assay

- Assay Assumed: 0
- Sample Request and Receipt Form Issued
- Assay Smear Samples Complete
- Independent Verification of Assay form completed and attached.

Assay wt%U-235: .269 0

Mass

- NDA Requested
- NDA Complete

Sample A:

Assay Used: 0
Pounds U: 0
U-235 (g): 0

Sample B:

Assay Used: 0
Pounds U: 0
U-235(g): 0

N/A

NCS Classification

- NCS-Exempt
- LS
- UH
- PEH

Characterization Completed By:

Name: HCAnderson
Badge #: 650534
Date: 5-16-00

RCRA or TSCA Issues Identified N/A

Comments:

Item relocated N/A

New Location: Building:
DMSA #:

7-31-00 HCA

110419

CONTROLLED 5-25-00

Date Printed: Monday, February 21, 2000

DOE

LLW

RFD

Document ID Number 110420

Request For Disposal

Generation Process Information (Completed by Generator)

W1. Generator's Name (Print)	W2. Badge No.	W3. Generator's Phone No.	W3. Mail Stop	W5. Charge No. / WO
Eric Rimmins	703681	441-5140	C-743-T1	

W6. Generator's Company	W7. Corp Owner	W8. Origin Site	W9. Origin Facility	W10. Origin Area	W11. Rad Area?
WESKem	DOE	PGDP	C-335	C-335-04	☑ Yes ☐ No

W12. Number of Items	W13. Process Category (GCC)	W14. Process Activity Code	W15. AWA Number	W16. Physical Form
1	LEG	A93	–	SOLID

W17. Material Type(s)	W18. Holding Site	W19. Holding Facility	W20. Holding Area	W21 RFD Attachment
MT007	PGDP	C-335	C-335-04	☑ A ☐ B ☐ C

Waste Subcategories (Check all that apply)

	Yes	No		Yes	No		Yes	No		Yes	No
V22. Biological		✓	W25. Const. Debris		✓	W28. Non-Friable Asbestos		✓	W31. DMSA	✓	
V23. Accountable		✓	W26. Classified		✓	W29. TRU Waste		✓			
V24. Carcinogen		✓	W27. Friable Asbestos		✓	W30. CERCLA		✓			

Waste Description / Comments

V32. DMSA-335-04-048; TRAP 10" x 4'

BC. DMSA0110423 Zone

This is to certify that the above named material is properly described and in the stated container, which is in good condition, marked with the RFD number, content, appropriate generation date, source location, and at the stated location.

N33. Generation Plan No.	W34. Generator's Signature	Date
	[signature]	7-31-01

Handling / Pickup Information (Completed by Waste Management)

P1. Pick-up Site	P2. Pick-up Facility	P3. Pick-up Room/Area

P4. PPE Requirements

P5. Container-Labeling Requirements

___ RCRA	___ PCB	___ DET PCB (<50ppm & source <50ppm)	___ RAD	___ DOE
___ FISSILE	___ NCS EXEMPT	___ RD CONFIDENTIAL	___ ACID	___ USEC
___ FLAMMABLE	___ COMBUSTIBLE	___ OXIDIZER	___ BASE	___ WESKEM
___ ASBESTOS	___ REACTIVE	___ TRANSURANIC	___ NON-HAZ	

P6. Additional Handling Instructions

Verify Labeling, Barcode, and Zone.

Reference FWR	
Origin Date	
PCB Start Date	
RCRA Start Date	

P7. Waste Coordinator (Issued By)	Badge	Date	P8. Disposal/Storage Completed By	Badge	Date
Eric Rimmins	703681	8-6-01	[signature]	704274	8-6-01

P9. Field Supervisor	Badge	Date	P10. Data Processing Completed By	Badge	Date
[signature]	11357	8-6-01	[signature]	-	8-10-01

P11. Waste Item information

Waste Item No. 110420 – 01

Container No. (Barcode) DMSA 0110423

Weight 150 lbs est.

Location and Grid DMSA 335-04-~~048~~ ZONE 1

Container Size 4'x4' est.

P12. Operator Comments

BJCF-515a (03/01)

DMSA

received

LOW-LEVEL RADIOACTIVE WASTE

ATTACHMENT A

DOCUMENT ID NUMBER 110420

PROHIBITED ITEMS

A1. PYROPHORIC MATERIALS OTHER THAN RADIOACTIVE FORMS OF ISOTOPES ☐ YES ☑ NO	A2. ACTIVE CHELATING AGENTS ☐ YES ☑ NO	A3. TRU RADIOISOTOPES>100 nCi/g ☐ YES ☑ NO	A4. EXPLOSIVE MATERIALS ☐ YES ☑ NO
A5. E AGENTS ☐ YES ☑ NO	A6. IGNITION SOURCES ☐ YES ☑ NO	A7. FREE LIQUIDS (Unless Wastewater) ☐ YES ☑ NO	A8. RCRA WASTE ☐ YES ☑ NO / A9. TSCA WASTE ☐ YES ☑ NO

A10. WASTE VARIANCE REQUEST NUMBER(S)

A11. CHELATING AGENTS ☐ YES ☑ NO	A12. ION EXCHANGE RESIN ☐ YES ☑ NO	A13. DETECTABLE PCB (Concen. And Source <50 ppm) ☐ YES ☑ NO CONC. ppm	A14. WASTEWATER ☑ YES ☐ NO

DOCUMENT TYPE	DOCUMENT NUMBER
R1. ANALYSIS SAMPLE ID NO.	
R2. PROCESS KNOWLEDGE FORM NO.	1216

R3. FISSILE CONTENT (Wt% U-235)	R4. GRAMS U-235	R5. NCS EXEMPT ☑ YES ☐ N	R5. CHEMICAL FORM

DOCUMENT TYPE	DOCUMENT NUMBER
O1. ANALYSIS SAMPLE ID NO.	
O2. PROCESS KNOWLEDGE FORM NO.	

RADIATION DATA FROM HEALTH PHYSICS SURVEY
SURFACE CONTAMINATION (Data Supplied by HP)

R7. HP SURVEY REQUIRED ☐ YES ☐ NO

R8. TRANSFERABLE (Alpha) dpm/100cm2	R9. FIXED (Alpha) dpm/100cm2
R10. TRANSFERABLE (Beta/Gamma) dpm/100cm2	R11. FIXED (Beta/Gamma) dpm/100cm2
R12. EXTERNAL DOSE/PACKAGE CONTACT MREM/HR	R13. DOSE RATE MREM/HR @ METERS (B/G)
R14. HP SIGNATURE	R15. SURVEY NUMBER

WASTE ITEM CONTAINER LOG

10. ITEM/CONTAINER			DOCUMENT ID NUMBER
1 OF 1			110420
11. WASTE ITEM ID NO.	12. ORIGIN DATE	13. RCRA ACCUMULATION START DATE	14. PCB DATE TO STORAGE
110420-01	7-31-01	—	—

15. WASTE MATERIAL PLACED IN (Or Removed From) CONTAINER	16. QUANTITY	17. DEPOSITOR INITIAL	17. DEPOSITOR DATE	18. COMMENTS (If Waste is removed from container, then final disposition must be noted.)
TRAP 10"X4'	1	EK	7-31-01	DMSA.335-04-048 Zone 1

19 CONTAINER ID NO (Barcode)	110 ABSORBENT MATERIALS?	QUANTITY	TYPE	111 NMC&A FORM	112 EST NET VOLUME	113 UNITS
SA0110423	[ ] YES [X] NO				4 ft3	

114 GROSS WEIGHT	115. UNITS	116. INNER CONTAINER T...	117 OUTER CONTAINER TYPE	118 TANK SEAL NUMBER
150 Lbs* EST.				

119. CONTAINER GENERATOR SIGNATURE [signature] DATE 7-[illegible]-01

UCN-20700 PAGE 2

DOE Material Storage Area (DMSA) Item - NCS Characterization Form

ITEM	INITIAL CHARACTERIZATION	ANALYTICAL CHARACTERIZATION: ^{235}U Assay Analysis	ANALYTICAL CHARACTERIZATION: ^{235}U Mass Analysis	ANALYTICAL CHARACTERIZATION: Subcritical Mass Limits	ANALYTICAL CHARACTERIZATION: NDA Radiation Surveys	NCS CLASSIFICATION
RFD # 110420 Description TRAP 10" DIAMETER 4' LONG Independent Confirmations: Individual #1: [illegible] Date 7-31-01 Individual #2: H. Anderson Date 7-31-01 Other Information: Bldg./Col C-335 C-32 DMSA # C-335-04 Origin N/A	Historical Documentation: Process Knowledge: Visual Inspections Completed: ____ External Surfaces Inspection ____ Internal Surfaces Inspection Completed By: Date: N/A	Sample A: ___ % ^{235}U ___ 1 sigma (% ^{235}U) ___ 2 sigma (% ^{235}U) ___ Total (^{235}U + 2 sigma) Sample B: ___ % ^{235}U ___ 1 sigma (% ^{235}U) ___ 2 sigma (% ^{235}U) ___ Total (^{235}U + 2 sigma)	Sample A: ___ g ^{235}U Sample B: ___ g ^{235}U	kg ^{235}U ___ Moderated Limits ___ Hydrated Limits N/A	Sample A: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: ___ % ^{235}U Mass: ___ g ^{235}U Submitted By: Date: Sample B: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: ___ % ^{235}U Mass: ___ g ^{235}U Submitted By: Date:	Initial Classification: ✓ NCS-Exempt ____ Spacing-Controlled ____ Singularly-Contingent DMSA Inspector: J. C. Anderson Date: 7-31-01 NDA Expert: N/A (if NDA is performed) Date: Independent Verifications: Person #1: Date: Person #2: Date: Reclassification: (if needed) ____ NCS-Exempt ____ Spacing-Controlled ____ Singularly-Contingent DMSA Inspector: Date: NDA Expert: (if NDA is performed) Date: N/A Independent Verifications: Person #1: Date: Person #2: Date:

Comments: NCS EXEMPT BY PREVIOUS CHARACTERIZATION (DMSA # 335-04-048)
REFER TO ATTACHED SHEETS FOR DETAILED INFORMATION

Approved to Relocate: To ____ Further NCS characterization is required. Item does not contain Singularly-Contingent mass.	I have independently confirmed the identification and description for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match.	I have independently confirmed the destination for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match.
NDA Expert #1: ____ Date: ____ NDA Expert #2: N/A Date: ____	Independent Person #1: ____ Date: ____ Independent Person #2: ____ Date: ____	Independent Person #1: ____ Date: ____ Independent Person #2: ____ Date: ____

110420

Rev. 3 (10/2000)

DMSA - Chara zation Form

COPY

Item Number: DMSA-335-04-048 Building: 335 DMSA #: 335-04

Item Description: Trap 10" Diameter 4' Long

Origin: GDP Owner Status: DOE Capital Equipment ID: n/a

MAY 2 4 2000

Analytical Data

Initial Characterization

Operating History

- No NCS Concerns (Not Process Equipment)
- Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

N/A

Assay

Assay Assumed: 0

- Sample Request and Receipt Form Issued
- Assay Smear Samples Complete
- Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0.243 0

Mass

- NDA Requested
- NDA Complete

Sample A:

Assay Used: 0

Pounds U: 0

U-235 (g): 0

Sample B:

Assay Used: 0

Pounds U: 0

U-235(g): 0

N/A

NCS Classification

- X NCS-Exempt
- LS
- UH
- PEH

Characterization Completed By:

Name: HCAnderson

Badge #: C50357

Date: 5-19-00

-- RCRA or TSCA Issues Identified

Comments:

- Item relocated

New Location: Building:

DMSA #:

7-31-01 HCA

5-25-00

10420

DOE LLW RFD

Request For Disposal

Document ID Number 110421

Generation Process Information (Completed by Generator)

W1. Generator's Name (Print)	W2. Badge No.	W3. Generator's Phone No.	W3. Mail Stop	W5. Charge No. / WO
Eric Kimmins	703681	441-5140	C-743-J1	

W6. Generator's Company	W7. Corp Owner	W8. Origin Site	W9. Origin Facility	W10. Origin Area	W11. Rad Area?
WESKEM	DOE	PGDP	C-335	C-335-04	☑ Yes ☐ No

W12. Number of Items	W13. Process Category (GCC)	W14. Process Activity Code	W15. AWA Number	W16. Physical Form
1	LEG	A13		SOLID

W17. Material Type(s)	W18. Holding Site	W19. Holding Facility	W20. Holding Area	W21 RFD Attachment
MTOUT	PGDP	C-335	C-335-04	☑ A ☐ B ☐ C

Waste Subcategories (Check all that apply)

	Yes	No		Yes	No		Yes	No		Yes	No
W22. Biological		✓	W25. Const. Debris		✓	W28. Non-Friable Asbestos		✓	W31. DMSA	✓	
W23. Accountable		✓	W26. Classified		✓	W29. TRU Waste		✓			
W24. Carcinogen		✓	W27. Friable Asbestos		✓	W30. CERCLA		✓			

Waste Description / Comments

W32. DMSA. 335-04-050; 10"X4' TRAP

DC. DMSA0110424 Zone 1

This is to certify that the above named material is properly described and in the stated container, which is in good condition, marked

W34. Generator's Signature

P1. Pick-up Site | P2. Pick-up Facility | P3. Pick-up Room/Area

P4. PPE Requirements

P5. Container-Labeling Requirements

___ RCRA	___ PCB	___ DET PCB (<50ppm & source <50ppm)	___ RAD	___ DOE
___ FISSILE	___ NCS EXEMPT	___ RD CONFIDENTIAL	___ ACID	___ USEC
___ FLAMMABLE	___ COMBUSTIBLE	___ OXIDIZER	___ BASE	___ WESKEM
___ ASBESTOS	___ REACTIVE	___ TRANSURANIC	___ NON-HAZ	

P6. Additional Handling instructions

Verify Labeling, Barcode, and Zone.

Reference FWR

Origin Date

PCB Start Date

RCRA Start Date

P7. Waste Coordinator (Issued By)	Badge	Date	P8. Disposal/Storage Completed By	Badge	Date
Eric Kimmins	703681	8-6-01	Jeff Seck	704274	8-6-01
P9. Field Supervisor	**Badge**	**Date**	**P10. Data Processing Completed By**	**Badge**	**Date**
DA Wade		8/6/01	Chris Walker		8-10-01

P12. Operator Comments

Waste Item No. 110421-01

Container No. (Barcode) DMSA0110424

Weight 150 lb est.

Location and Grid DMSA 335-04 Zone 1

Container Size 4 ft 3 est.

BJCF-515a (03/01)

DMSA

received 8-9-01

LOW-LEVEL RADIOACTIVE WASTE

ATTACHMENT A

DOCUMENT ID NUMBER 110421

PROHIBITED ITEMS

A1. PYROPHORIC MATERIALS -OTHER THAN RADIOACTIVE FORMS OF ISOTOPES ☐ YES ☑ NO	A2. ACTIVE CHELATING AGENTS ☐ YES ☑ NO	A3. TRU RADIOISOTOPES ≤100 nCi/g ☐ YES ☑ NO	A4. EXPLOSIVE MATERIALS ☐ YES ☑ NO
A5. ETILOGICAL AGENTS ☐ YES ☑ NO	A6. IGNITION SOURCES ☐ YES ☑ NO	A7. FREE LIQUIDS (Unless Wastewater) ☐ YES ☑ NO	A8. RCRA WASTE ☐ YES ☑ NO / A9. TSCA WASTE ☐ YES ☑ NO

A10. WASTE VARIANCE REQUEST NUMBER(S)

A11. CHELATING AGENTS ☐ YES ☑ NO	A12. ION EXCHANGE RESINS ☐ YES ☑ NO	A13. DETECTABLE PCB (Concen. And Source <50 ppm) ☐ YES ☑ NO CONC. ppm	A14. WASTEWATER ☐ YES ☑ NO

DOCUMENT TYPE	DOCUMENT NUMBER
R1. ANALYSIS SAMPLE ID NO	
R2. PROCESS KNOWLEDGE FORM NO.	0210

R3. FISSILE CONTENT (Wt% U-235)	R4. GRAMS U-235	R5. NCS EXEMPT ☑ YES ☐ NO	R5. CHEMICAL FORM

OTHER SAMPLE ANALYSIS

DOCUMENT TYPE	DOCUMENT NUMBER
01. ANALYSIS SAMPLE ID NO.	
02. PROCESS KNOWLEDGE FORM NO.	

RADIATION DATA FROM HEALTH PHYSICS SURVEY SURFACE CONTAMINATION (Data Supplied by HP)

R7. HP SURVEY REQUIRED ☐ YES ☐ NO

R8. TRANSFERABLE (Alpha) dpm/100cm2	R9. FIXED (Alpha) dpm/100cm2
R10. TRANSFERABLE (Beta/Gamma) dpm/100cm2	R11. FIXED (Beta/Gamma) dpm/100cm2
R12. EXTERNAL DOSE/PACKAGE CONTACT MREM/HR	R13. DOSE RATE MREM/HR @ METERS (B/G)
R14. HP SIGNATURE	R15. SURVEY NUMBER

WASTE ITEM CONTAINER LOG

10. ITEM/CONTAINER	DOCUMENT ID NUMBER
1 OF 1	110421

11 WASTE ITEM ID NO	12 ORIGIN DATE	13 RCRA ACCUMULATION START DATE	14 PCB DATE TO STORAGE
110421-01	7-31-01	—	

15. WASTE MATERIAL PLACED IN (Or Removed From) CONTAINER	16. QUANTITY	17. DEPOSITOR INITIAL	17. DEPOSITOR DATE	18. COMMENTS (If Waste is removed from container, then final disposition must be noted.)
TRAP 10"X4'	1	CK	7-31-01	DMSA-335-04-050 zone 1

19 CONTAINER ID NO (Barcode)	110 ABSORBENT MATERIALS? QUANTITY TYPE	111. NMC&A FORM	112. EST. NET VOLUME	113 UNITS
DMS 40110424	[ ] YES [✓] NO		4 ft³	

114 GROSS WEIGHT	115. UNITS	116. INNER CONTAINER TYPE	117. OUTER CONTAINER TYPE	118 TANK SEAL NUMBER

119. CONTAINER GENERATOR SIGNATURE	DATE
[signature]	7-31-01

DOE Material Storage Area (DMSA) Item - NCS Characterization Form

ITEM	INITIAL CHARACTERIZATION	ANALYTICAL CHARACTERIZATION: ^{235}U Assay Analysis	^{235}U Mass Analysis	Subcritical Mass Limits	NDA Radiation Surveys	NCS CLASSIFICATION
PED - 110421 Description: LAPH 10" Independent Confirmations: Individual #1: Chee Kim Date: 8-1-01 Individual #2: HC Anderson Date: 7-31-01 * * Other Information: Bldg./Col: C-335 C-32 DMSA #: C-335-04 Origin: NH	Historical Documentation: ____ Process Knowledge: ____ Visual Inspections Completed: ____ External Surfaces Inspection ____ Internal Surfaces Inspection Completed By: ____ Date: N/A	Sample A: ____ % ^{235}U ____ 1 sigma (% ^{235}U) ____ 2 sigma (% ^{235}U) ____ Total (^{235}U + 2 sigma) Sample B: ____ % ^{235}U ____ 1 sigma (% ^{235}U) ____ 2 sigma (% ^{235}U) ____ Total (^{235}U + 2 sigma)	Sample A: ____ g ^{235}U Sample B: ____ g ^{235}U	____ kg ^{235}U ____ Moderated Limits ____ Hydrated Limits N/A	Sample A: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: ____ % ^{235}U Mass: ____ g ^{235}U Submitted By: ____ Date: ____ Sample B: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: ____ % ^{235}U Mass: ____ g ^{235}U Submitted By: ____ Date: ____	Initial Classification: ✓ NCS-Exempt ____ Spacing-Controlled ____ Singularly-Contingent DMSA Inspector: HC Anderson Date: 7-31-01 NDA Expert: NA (if NDA is performed) Date: ____ Independent Verifications: Person #1: ____ Date: ____ Person #2: ____ Date: ____ Reclassification: (if needed) ____ NCS-Exempt ____ Spacing-Controlled ____ Singularly-Contingent DMSA Inspector: ____ Date: ____ NDA Expert: ____ (if NDA is performed) Date: N/A Independent Verifications: Person #1: ____ Date: ____ Person #2: ____ Date: ____

Comments: NCS EXEMPT BY PREVIOUS CHARACTERIZATION (DMSA # 335-04-050)
REFER TO ATTACHED SHEETS FOR DETAILED INFORMATION

Approved to Relocate: To ____
Further NCS characterization is required. Item does not contain Singularly-Contingent mass.

NDA Expert #1: ____
Date: ____

NDA Expert #2: ____
Date: ____

N/A

I have independently confirmed the identification and description for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match.

Independent Person #1: ____
Date: ____

Independent Person #2: ____
Date: ____

I have independently confirmed the destination for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match.

Independent Person #1: ____
Date: ____

Independent Person #2: ____
Date: ____

110421

DMSA - Chara ization Form

COPY

Item Number: DMSA-335-04-050 Building: 335 DMSA #: 335-04

MAY-24 2000

Item Description: Trap 10" Diameter ~4' Long

Origin: GDP Owner Status: DOE Capital Equipment ID: N/A

X Analytical Data

Initial Characterization

Operating History

- No MCS Concerns (Not
- Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

N/A

Assay

- Assay Assumed: 0
- Sample Request and Receipt Form Issued
- Assay Smear Sample; Complete
- Independent Verification of Assay form completed and attached.

Assay wt%U-235: .261 0

Mass

- NDA Requested
- Complete

Sample A:

Assay Used: 0

Pounds U: 0

U-235 (g): 0

Sample B:

Assay Used: 0

Pounds U: 0

U-235(g): 0

N/A

NCS Classification

- X NCS-Exempt
- LS
- UH
- PEH

Characterization Completed By:

Name: HC Anderson

Badge #: 650.516

Date: 5-19-00

- RCRA or TSCA Issues Identified

Comments

N/A

Item relocated

New Location: Building:

DMSA #:

7-31-01 HCA

ENTERED 5-25-00

DOE LLW RFD

Request For Disposal

Document ID Number 110422

Generation Process Information (Completed by Generator)

W1. Generator's Name (Print)	W2. Badge No.	W3. Generator's Phone No.	W3. Mail Stop	W5. Charge No. / WO
Eric Kimmins	703681	441-5140	C-743-T1	

W6. Generator's Company	W7. Corp Owner	W8. Origin Site	W9. Origin Facility	W10. Origin Area	W11. Rad Area?
WESKEM	DOE	PGDP	C-335	C-335-04	☑ Yes ☐ No

W12. Number of Items	W13. Process Category (GCC)	W14. Process Activity Code	W15. AWA Number	W16. Physical Form
1	LEG	A93	–	SOLID

W17. Material Type(s)	W18. Holding Site	W19. Holding Facility	W20. Holding Area	W21 RFD Attachment
MT007	PGDP	C-335	C-335-04	☑ A ☐ B ☐ C

Waste Subcategories (Check all that apply)

	Yes	No		Yes	No		Yes	No		Yes	No
W22. Biological		✓	W25. Const. Debris		✓	W28. Non-Friable Asbestos		✓	W31. DMSA	✓	
W23. Accountable		✓	W26. Classified		✓	W29. TRU Waste		✓			
W24. Carcinogen		✓	W27. Friable Asbestos		✓	W30. CERCLA		✓			

Waste Description / Comments

W32. DMSA-335-04-097; B-25 Box

B.C. DMSA0110433 Zone 2

This is to certify that the above named material is properly described and in the stated container, which is in good condition, marked with the RFD number, content, appropriate generation date, source location, and at the stated location.

W33. Generation Plan No.	W34. Generator's Signature	Date
	EK	8-1-01

Handling / Pickup Information (Completed by Waste Management)

P1. Pick-up Site	P2. Pick-up Facility	P3. Pick-up Room/Area

P4. PPE Requirements

P5. Container-Labeling Requirements

___ RCRA	___ PCB	___ DET PCB (<50ppm & source <50ppm)	___ RAD	___ DOE
___ FISSILE	___ NCS EXEMPT	___ RD CONFIDENTIAL	___ ACID	___ USEC
___ FLAMMABLE	___ COMBUSTIBLE	___ OXIDIZER	___ BASE	___ WESKEM
___ ASBESTOS	___ REACTIVE	___ TRANSURANIC	___ NON-HAZ	

P6. Additional Handling Instructions

Verify Labeling, Barcode, and Zone.

Reference FWR

Origin Date

PCB Start Date

RCRA Start Date

P7. Waste Coordinator (Issued By)	Badge	Date	P8. Disposal/Storage Completed By	Badge	Date
Eric Kimmins	703681	8-6-01	[illegible]	15178	8-6-01

P9. Field Supervisor	Badge	Date	P10. Data Processing Completed By	Badge	Date
[illegible]	11357	8/6/01	[illegible]		8-10-01

P11. Waste Item Information

Waste Item No. RFD 110422-01

Container No. (Barcode) DMSA 0110433

Weight APP 2,000 lbs

Location and Grid ZONE #2 C-335-04

Container Size APP 96 cu Ft.

P12. Operator Comments

BJCF-515a (03/01)

DMSA

received

WASTE IDENTIFICATION LOG SHEET

COPY

Generator Name:

RFD No.: DMSA-335-04-097

Building/Area: C-335 C-335 DMSA-335-04-097

Storage Location: C-335

Container Type/ID No.: B-25

BAG/ITEM No.	WASTE MATERIAL	GSA/BLDG No.	SOURCE	PCB ppm	INITIAL	DATE	WEIGHT
059	6 17 VALVE	C-335	CCZ		MS.HT	6/20/00	
065	" "						
058	" "						
060	" "						
2	VALVE OPERATORS						

Source Code: C - Contamination Area CCZ - Contamination Control Zone

DEPOSITOR'S INITIALS CERTIFY THAT MATERIAL IS PROPERLY DESCRIBED; ALL EQUIPMENT CONTAINING LIQUIDS, REFRIG AND HAZARDOUS COMPONENTS HAVE BEEN PROPERLY MANAGED; AND ALL PROCEDURAL REQUIREMENTS HAVE BEEN MET.

COMMIT FAB 1996 -0931

CP-29300 (11-1-96)

DOE **Material Storage Area (DMSA) Item - NCS Characterization** Form

ITEM	INITIAL CHARACTERIZATION	ANALYTICAL CHARACTERIZATION: ^{235}U Assay Analysis	^{235}U Mass Analysis	Subcritical Mass Limits	NDA Radiation Surveys	NCS CLASSIFICATION
RFD # 110422 Description B-2.5 Box Independent Confirmations: Individual #1: [illegible] Date: 8-6-01 Individual #2: JC Anderson Date: 8-1-01 • • • • • • • • • • • Other Information: Bldg. Col.: C-335-C-32 DMSA #: C-335-04 Origin N/A	Historical Documentation: ____ Process Knowledge: ____ Visual Inspections Completed: ____ External Surfaces Inspection ____ Internal Surfaces Inspection Completed By: ____ Date: N/A	Sample A: ____ % ^{235}U ____ 1 sigma (% ^{235}U) ____ 2 sigma (% ^{235}U) ____ Total (^{235}U + 2 sigma) Sample B: ____ % ^{235}U ____ 1 sigma (% ^{235}U) ____ 2 sigma (% ^{235}U) ____ Total (^{235}U + 2 sigma)	Sample A: ____ g ^{235}U Sample B: ____ g ^{235}U	____ kg ^{235}U ____ Moderated Limits ____ Hydrated Limits N/A	Sample A: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: ____ % ^{235}U Mass: ____ g ^{235}U Submitted By: ____ Date: ____ Sample B: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: ____ % ^{235}U Mass: ____ g ^{235}U Submitted By: ____ Date: ____	Initial Classification: ✓ NCS-Exempt ____ Spacing-Controlled ____ Singularly-Contingent DMSA Inspector: JC Anderson Date: 8-1-01 NDA Expert: N/A (if NDA is performed) Date: ____ Independent Verifications: Person #1: ____ Date: ____ Person #2: ____ Date: ____ • • • • • • • • • • • Reclassification: (if needed) ____ NCS-Exempt ____ Spacing-Controlled ____ Singularly-Contingent DMSA Inspector: ____ Date: ____ NDA Expert: ____ (if NDA is performed) Date: N/A Independent Verifications: Person #1: ____ Date: ____ Person #2: ____ Date: ____

Comments: NCS-EXEMPT BY PREVIOUS CHARACTERIZATION (DMSA# 335-04-097)
REFER TO ATTACHED SHEETS FOR DETAILED INFORMATION

Approved to Relocate: To ____
Further NCS characterization is required. Item does not contain Singularly-Contingent mass.

NDA Expert #1: ____
Date: ____

NDA Expert #2: N/A
Date: ____

I have independently confirmed the **identification and description** for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match.

Independent Person #1: ____
Date: ____

Independent Person #2: ____
Date: ____

I have independently confirmed the **destination** for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match.

Independent Person #1: ____
Date: ____

Independent Person #2: ____
Date: ____

Rev. 3 (10/2000)

1 10/22

10. ITEM/CONTAINER 1 OF 1

OF

OOCUMENT ID NUMBER 110422

11 WASTE ITEM ID NO. 110422-01

12 ORIGIN DATE 8-1-01

13 RCRA ACCUMULATION START DATE

14 PCB DATE TO STORAGE

15. WASTE MATERIAL PLACED IN (Or Removed From) CONTAINER	16. QUANTITY	17. DEPOSITOR INITIAL	17. DEPOSITOR DATE	18. COMMENTS (If Waste is removed from container, then final disposition must be noted.)
B-25 Box	1	ER	8-1-01	DMSA-335-04-097 Zone D See Attached original Log Sheet

19. CONTAINER ID NO. (Barcode)	110 ABSORBENT MATERIALS'	QUANTITY	TYPE	111 NMC&A FORM	112. EST. NET VOLUME	113 UNITS
	[ ] YES [ ] NO				96 ft³	

114 GROSS WEIGHT	115. UNITS	116. INNER CONTAINER TYPE	117 OUTER CONTAINER TYPE	118 TANK SEAL NUMBER

119 CONTAINER GENERATOR SIGNATURE E. R. DATE 8-1-01

UCN-20700 PAGE 2

LOW-LEVEL RADIOACTIVE WASTE

ATTACHMENT A

DOCUMENT ID NUMBER: 110422

PROHIBITED ITEMS

A1. PYROPHORIC MATERIALS -OTHER THAN RADIOACTIVE FORMS OF ISOTOPES	A2. ACTIVE CHELATING AGENTS	A3. TRU RADIOISOTOPES >100 nCi/g	A4. EXPLOSIVE MATERIALS
☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO

A5. ETILOGICAL AGENTS	A6. IGNITION SOURCES	A7. FREE LIQUIDS (Unless Wastewater)	A8. RCRA WASTE	A9. TSCA WASTE
☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO

A10. WASTE VARIANCE REQUEST NUMBER(S)

ADDITIONAL WASTE CHARACTERISTICS

A11. CHELATING AGENTS	A12. ION EXCHANGE RESINS	A13. DETECTABLE PCB (Concen. And Source <50 ppm)	CONC.	A14. WASTEWATER
☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	ppm	☐ YES ☑ NO

RADIOISOTOPE DETERMINATION METHOD

DOCUMENT TYPE	DOCUMENT NUMBER
R1. ANALYSIS SAMPLE ID NO.	
	0210
	R5. NCS EXEMPT ☑ YES ☐ NO

OTHER SAMPLE ANALYSIS

DOCUMENT TYPE	DOCUMENT NUMBER
01. ANALYSIS SAMPLE ID NO.	
02. PROCESS KNOWLEDGE FORM NO.	

RADIATION DATA FROM HEALTH PHYSICS SURVEY SURFACE CONTAMINATION (Data Supplied by HP)

R7. HP SURVEY REQUIRED

☐ YES ☐ NO

R8. TRANSFERABLE (Alpha) dpm/100cm2	R9. FIXED (Alpha) dpm/100cm2
R10. TRANSFERABLE (Beta/Gamma) dpm/100cm2	R11. FIXED (Beta/Gamma) dpm/100cm2
R12. EXTERNAL DOSE/PACKAGE CONTACT MREM/HR	R13. DOSE RATE MREM/HR @ METERS (B/G)
R14. HP SIGNATURE	R15. SURVEY NUMBER

DMSA - Charact ation Form

Item Number: DMSA-335-04-097 Building: 335 DMSA #: 335-04

Item Description: B-25 Box

Origin: GDP Owner Status: DOE Capital Equipment ID: N/A

JUL-07 2000

Analytical Data

Initial Characterization

Operating History

No NCS Concerns (Not Process Equipment)

Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

X Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Per independent verification forms attached to DMSA characterization form for each item

Assay

Assay Assumed: 0

Sample Request and Receipt Form Issued

Assay Smear Samples Complete

Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0

N/A

Mass

NDA Requested

NDA Complete

Sample A:

Assay Used: 0

Pounds U: 0

U-235 (g): 0

Sample B:

Assay Used: 0

Pounds U: 0

U-235(g): 0

N/A

NCS Classification

X NCS-Exempt

LS

UH

PEH

Characterization Completed By:

Name: H.C. Aldenson

Badge #: C570515

Date: 7-7-00

RCRA or TSCA Issues Identified

Comments: N/A

Item relocated N/A

New Location: Building:

DMSA #:

ENTERED 7-7-00

110422

DMSA - Charac ation Form

Item Number: DMSA-335-04-058 Building: 335 DMSA #: 335-04

Item Description: Dorrell 6-17 Valve with operator

MAY 2 4 2000

Origin: B-D P Owner Status: NOTE Capital Equipment ID:

Analytical Data

Initial Characterization

Operating History

☐ No NCS Concerns (Not Process Equipment)

Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

☒ Independent Verification Form (verifying visual inspection for uranium contamination) is completed and attached.

N/A

Assay

☐ Assay Assumed: 0

☒ Sample Request and Receipt Form Issued

☒ Assay Smear Samples Complete

☒ Independent Verification of Assay form completed and attached.

Assay wt%U-235: 32.5 0

N/A 6/6/00

Mass

☐ NDA Requested

☐ NDA Complete

Sample A:

Assay Used: 0

Pounds U: 0

U-235 (g): 0

Sample B:

Assay Used: 0

Pounds U: 0

U-235(g): 0

N/A

NCS Classification

☒ NCS-Exempt

☐ IS

☐ UH

☐ PEH

Characterization Completed By:

Name: HC Anderson

Badge #: C5005-14

Date: 5-19-00

J P Miller 60999 6-6-00

☐ RCRA or TSCA Issues Identified

Comments:

☒ Item relocated N/A

New Location: Building: DMSA - 335-04-097 B25

DMSA #:

11/22

CHECKED 5-25-00

Date Printed: Monday, February 21, 2000

DMSA - Charac zation Form

MAY 2 4 2000

Item Number: DMSA-335-04-059 Building: 335 DMSA #: 335-04

Item Description: Flanged 6-17 Valve well operable

Origin: GDP Owner Status: DOE Capital Equipment ID: N/A

X Analytical ~~Data~~

Initial Characterization

Operating History

- No NCS Concerns (Not Process Equipment)
- Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- X Form (verifying visual inspection) is completed and attached.

N/A

Assay

- Assay Assumed: 0
- Sample Request and Receipt Form
- Assay Smear Samples Complete
- Independent Verification of Assay form completed and attached
- Independent Verification of Assay form completed and attached.

Assay wt%U-235: .293 0

N/A 5/16/00

Mass

- NDA Requested
- NDA Complete

Sample A:

Assay Used: 0
Pounds U: 0
U-235 (g): 0

Sample B:

Assay Used: X 0
Pounds U: 0
U-235(g): 0

N/A

NCS Classification

- X NCS-Exempt
- LS
- UH
- PEH

Characterization Completed By:

Name: HC Anderson
Badge #: 2500516
Date: 5-19-00

JP Miller
60999
6-6-00

OK

RCRA or TSCA Issues Identified N/A

Comments:

Item relocated N/A

New Location: Building: DMSA-335-04-097 B25
DMSA #:

110422

5-25-00

Date Printed: Monday, February 21, 2000

DMSA - Charac zation Form

Item Number: DMSA-335-04-060 Building: 335 DMSA #: 335-04 MAY 2 4 2000

Item Description: Welded G-17 Valve With operator

Origin: GDP Owner Status: GOE Capital Equipment ID: N A

Analytical Data

Initial Characterization	Assay	Mass	NCS Classification
Operating Historv -- No NCS Concerns (Not Process Equipment) - - Independent Verification Form (verifying no NCS concerns due to equipment has never been esposed to process gas) is completed and attached. Visual Inspection ☒ Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.	—Sample Request and Receipt Form ☐ Assay Smear Samples Complete ☑ Independent Verification of Assay form completed and attached. Assay wt%U-235: 17.45 0 N/A	☐ NDA Complete Sample A: Assay Used: 0 Pounds U: 0 U-235 (g): 0 Sample B: Assay Used: 0 Pounds U: 0 U-235(g): 0 N/A	☒ NCS-Exempt ☐ LS ☐ UH ☐ PEH Characterization Completed By: Name: G P Miller Badge #: 60999 Date: 5-23-00

-- RCRA or TSCA issues Identified

Coinments:

☑ Item relocated

New Location: Building: DMSA-335-04-097 625

DMSA #:

110422

ENTERED 5-25-00

DMSA - Charact ation Form

Item Number: DMSA-335-04-065 Building: 335 DMSA #: 335-04

MAY 2 4 2000

Item Description: 12" C-17 Valve - Motor Operated

Origin: GDP Owner Status: DOE Capital Equipment ID: N/A

* Analytical Data

Initial Characterization

Operating History

No NCS Concerns (Not Process Equipment)

Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

X Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Assay

Assay Assumed: 0

✓ Sample Request and Receipt Form Issued

✓ Assay Smear Samples Complete

✓ Independent Verification of Assay form completed and attached.

Assay wt%U-235: 12.25 0

N/A

Mass

NDA Requested

NDA Complete

Sample A:

Assay Used: 0

Pounds U: 0

U-235 (g): 0

Sample B:

Assay Used: 0

Pounds U: 0

U-235(g): 0

N/A

NCS Classification

X NCS-Exempt

LS

UH

TEH

Characterization Completed By:

Name: J.P. Miller

Badge #: 60999

Date: 5-23-00

RCRA or TSCA Issues Identified

Comments

MS

✓ Item relocated

New Location: Building: DMSA-335-04-097 B25

DMSA #:

110422

CATEGORIZED 5-25-0

Date Printed: Monday, February 21, 2000

DOE

LLW

RFD

Request For Disposal

Document ID Number 110423

Generation Process Information (Completed by Generator)

W1. Generator's Name (Print)	W2. Badge No.	W3. Generator's Phone No.	W3. Mail Stop	W5. Charge No. / WO
Eric Kimmins	703681	441-5140	C-743-T1	

W6. Generator's Company	W7. Corp Owner	W8. Origin Site	W9. Origin Facility	W10. Origin Area	W11. Rad Area?
WESKEM	DOE	PGDP	C-335	C-335-04	☑ Yes ☐ No

W12. Number of Items	W13. Process Category (GCC)	W14. Process Activity Code	W15. AWA Number	W16. Physical Form
1	LEG	A93	–	SOLID

W17. Material Type(s)	W18. Holding Site	W19. Holding Facility	W20. Holding Area	W21 RFD Attachment
M7007	PGDP	C-335	C-335-04	☑ A ☐ B ☐ C

Waste Subcategories (Check all that apply)

	Yes	No		Yes	No		Yes	No		Yes	No
W22. Biological			W25. Const. Debris		✓	W28. Non-Friable Asbestos			W31. DMSA		
W23. Accountable		✓	W26. Classified			W29. TRU Waste		✓			
W24. Carcinogen		✓	W27. Friable Asbestos		✓	W30. CERCLA		✓			

Waste Description / Comments

W32. DMSA-335-04-095; B-25 Box

BC DMSA0110434 Zone 2

This is to certify that the above named material is properly described and in the stated container, which is in good condition, marked with the RFD number, content, appropriate generation date, source location, and at the stated location.

W33. Generation Plan No.	W34. Generator's Signature	Date
	[signature]	8-1-01

Handling / Pickup Information (Completed by Waste Management)

P1. Pick-up Site	P2. Pick-up Facility	P3. Pick-up Room/Area

P4. PPE Requirements

P5. Container-Labeling Requirements

___ RCRA	___ PCB	___ DET PCB (<50ppm & source <50ppm)	___ RAD	___ DOE
___ FISSILE	___ NCS EXEMPT	___ RD CONFIDENTIAL	___ ACID	___ USEC
___ FLAMMABLE	___ COMBUSTIBLE	___ OXIDIZER	___ BASE	___ WESKEM
___ ASBESTOS	___ REACTIVE	___ TRANSURANIC	___ NON-HAZ	

P6. Additional Handling Instructions

Verify Labeling, Barcode, and Zone.

Reference FWR

Origin Date

PCB Start Date

RCRA Start Date

P7. Waste Coordinator (Issued By)	Badge	Date	P8. Disposal/Storage Completed By	Badge	Date
Eric Kimmins	703681	8-6-01	RLHillcock	15778	8-6-01

P9. Field Supervisor	Badge.	Date	P10. Data Processing Completed By	Badge	Date
D A Wade	11357	8/16/01	Chris Walker		8-10-01

P11. Waste Item Information

Waste Item No. RFD 110423-01

Container No. (Barcode) DMSA0110434

Weight App 2,000 lbs

Location and Grid area #2 -04

Container Size 96 Cu Ft

P12. Operator Comments

BJCF-515a (03/01)

DMSA

received 8-9-01

LOW-LEVEL RADIOACTIVE WASTE

ATTACHMENT A

DOCUMENT ID NUMBER 110423

PROHIBITED ITEMS

A1. PYROPHORIC MATERIALS -OTHER THAN RADIOACTIVE FORMS OF ISOTOPES	A2. ACTIVE CHELATING AGENTS	A3. TRU RADIOISOTOPES >100 nCi/g	A4. EXPLOSIVE MATERIALS
☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO

A5. ETILOGICAL AGENTS	A6. IGNITION SOURCES	A7. FREE LIQUIDS (Unless Wastewater)	A8. RCRA WASTE	A9. TSCA WASTE
☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO

A10. WASTE VARIANCE REQUEST NUMBER(S)

ADDITIONAL WASTE CHARACTERISTICS

A11. CHELATING AGENTS	A12. ION EXCHANGE RESINS	A13. DETECTABLE PCB (Concen. And Source <50 ppm) CONC.	A14. WASTEWATER
☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO ppm	☐ YES ☑ NO

RADIOISOTOPE DETERMINATION METHOD

DOCUMENT TYPE	DOCUMENT NUMBER
R1. ANALYSIS SAMPLE ID NO.	
R2. PROCESS KNOWLEDGE FORM NO.	0210

R3. FISSILE CONTENT (Wt% U-235)	R4. GRAMS U-235	R5. NCS EXEMPT	R5. CHEMICAL FORM
		☑ YES ☐ NO	

OTHER SAMPLE ANALYSIS

DOCUMENT TYPE	DOCUMENT NUMBER
01. ANALYSIS SAMPLE ID NO.	
02. PROCESS KNOWLEDGE FORM NO.	

RADIATION DATA FROM HEALTH PHYSICS SURVEY SURFACE CONTAMINATION (Data Supplied by HP)

R7. HP SURVEY REQUIRED

☐ YES ☐ NO

R8. TRANSFERABLE (Alpha)	R9. FIXED (Alpha)
dpm/100cm2	dpm/100cm2
R10. TRANSFERABLE (Beta/Gamma)	R11. FIXED (Beta/Gamma)
dpm/100cm2	dpm/100cm2
R12. EXTERNAL DOSE/PACKAGE CONTACT	R13. DOSE RATE
MREM/HR	MREM/HR @ METERS (B/G)
R14. HP SIGNATURE	R15. SURVEY NUMBER

10. ITEM/CONTAINER	1 OF 1	DOCUMENT ID NUMBER 110423

11. WASTE ITEM ID NO.	12. ORIGIN DATE	13. RCRA ACCUMULATION START DATE	14. PCB DATE TO STORAGE
110423-01	8-1-01		

15. WASTE MATERIAL PLACED IN (Or Removed From) CONTAINER	16. QUANTITY	17. DEPOSITOR INITIAL	17. DEPOSITOR DATE	18. COMMENTS (If Waste is removed from container, then final disposition must be noted.)
D-25 Box	1	CK	8-1-01	DMSA-335-04-095 Zone 2 See ATTACHED Original Log sheet
				028, 025, 026 NOT IN Box!

19. CONTAINER ID NO. (Barcode)	110 ABSORBENT MATERIALS? QUANTITY TYPE	111. NMC&A FORM	112. EST. NET VOLUME	113 UNITS
DMSA0110434	[ ] YES [✓] NO		96 FT³	

114 GROSS WEIGHT	115. UNITS	116. INNER CONTAINER TYPE	117. OUTER CONTAINER TYPE	118. TANK SEAL NUMBER
2,000 LBS# EST.				

119. CONTAINER GENERATOR SIGNATURE C-L DATE 8-1-01

UCN-20700 PAGE 2

WASTE IDENTIFICATION LOG SHEET

COPY

Generator Name:

RFD No.: DMA 335-04-095

Building/Area: C-335

Storage Location: C-335

Container Type/ID No.: 335-04-095

BAG/ITEM No.	WASTE MATERIAL	GSA/BLDG No.	SOURCE	PCB ppm	INITIAL	DATE	WEIGH
026	MOTORS NOT	C-335			HT	8/24	
025	" " NOT	"			"	"	
026	" "	"			"	"	
027	" "	"			"	"	
028	REFRIGERATOR NOT	"			"	"	

Filled

Source Code: C - Contamination Area CCZ - Contamination Control Zone

DEPOSITOR'S INITIALS CERTIFY THAT MATERIAL IS PROPERLY DESCRIBED; A U EQUIPMENT CONTAINING LIQUIDS, REFRIGE: AN AND HAZARDOUS COMPONENTS HAVE BEEN PROPERLY MANAGED; AND A U PROCEDURAL REQUIREMENTS HAVE BEEN MET.

P-20300 (11-1-9G)

COPY

DOE Material Storage Area (DMSA) Item - NCS Characterization Form

ITEM	INITIAL CHARACTERIZATION	ANALYTICAL CHARACTERIZATION: ^{235}U Assay Analysis	ANALYTICAL CHARACTERIZATION: ^{235}U Mass Analysis	ANALYTICAL CHARACTERIZATION: Subcritical Mass Limits	ANALYTICAL CHARACTERIZATION: NDA Radiation Surveys	NCS CLASSIFICATION
RFD # 110423 Description B-25 Box Independent Confirmations: Individual #1: [illegible] Date 8-6-01 Individual #2: HCAnderson Date 8-1-01	Historical Documentation: ____ Process Knowledge: ____	Sample A: ___ % ^{235}U ___ 1 sigma (% ^{235}U) ___ 2 sigma (% ^{235}U) ___ Total (^{235}U + 2 sigma)	Sample A: ___ g ^{235}U Sample B: ___ g ^{235}U	___ kg ^{235}U ___ Moderated Limits ___ Hydrated Limits	Sample A: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: ___ % ^{235}U Mass: ___ g ^{235}U Submitted By: ____ Date: ____	Initial Classification: ✓ NCS-Exempt ___ Spacing-Controlled ___ Singularly-Contingent DMSA Inspector: HCAnderson Date: 8-1-01 NDA Expert: N/A (if NDA is performed) Date: ____ Independent Verifications: Person #1: ____ Date: ____ Person #2: ____ Date: ____
Other Information: Bldg. Col.: C-335-C-32 DMSA # C-335-04 Origin N/A	Visual Inspections Completed: ___ External Surfaces Inspection ___ Internal Surfaces Inspection Completed By: ____ Date: N/A	Sample B: ___ % ^{235}U ___ 1 sigma (% ^{235}U) ___ 2 sigma (% ^{235}U) ___ Total (^{235}U + 2 sigma)	___ g ^{235}U	N/A	Sample B: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: ___ % ^{235}U Mass: ___ g ^{235}U Submitted By: ____ Date: ____	Reclassification: (if needed) ___ NCS-Exempt ___ Spacing-Controlled ___ Singularly-Contingent DMSA Inspector: ____ Date: ____ NDA Expert: ____ (if NDA is performed) Date: N/A Independent Verifications: Person #1: ____ Date: ____ Person #2: ____ Date: ____

Comments: NCS-EXEMPT BY PREVIOUS CHARACTERIZATION (DMSA # C-335-04-095)
REFER TO ATTACHED SHEETS FOR DETAILED INFORMATION

Approved to Relocate: To ____ Further NCS characterization is required. Item does not contain Singularly-Contingent mass. NDA Expert #1: ____ Date: ____ NDA Expert #2: N/A Date: ____	I have independently confirmed the identification and description for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match. Independent Person #1: ____ Date: ____ Independent Person #2: ____ Date: ____	I have independently confirmed the destination for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match. Independent Person #1: ____ Date: ____ Independent Person #2: ____ Date: ____

Rev. 3 (10/2000)

110423

DMSA - Charac zation Form

COPY

Item Number: DMSA-335-04-095 Building: 335 DMSA #: 335-04

Item Description: B-25 Box

Origin: PGDP Owner Status: DOE Capital Equipment ID: N/A

JUN 20 2000

Initial Characterization

Operating History

- [X] No NCS Concerns (Not Process Equipment)
- [ ] Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- [ ] Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Analytical Data

Assay

- [ ] Assay Assumed:
- [ ] Sample Request and Receipt Form Issued
- [ ] Assay Smear Samples Complete
- [ ] Independent Verification of Assay form completed and attached.

Assay wt% U-235: 0

N.A.

Mass

- [ ] NDA Requested
- [ ] NDA Complete

Sample A:

Assay Used: 0

Pounds U: 0

U-235 (g): 0

Sample B:

Assay Used: 0

Pounds U: 0

U-235(g): 0

N.A.

NCS Classification

- [X] NCS Exempt
- [ ] LS
- [ ] UH
- [ ] PEH

Characterization Completed By:

Name: [illegible]

Badge #: C500165

Date: 6-16-00

- [X] RCRA or TSCA Issues Identified

Comments:

FREON

ASBESTOS

- [ ] Item relocated

New Location: Building:

N.A. NMCA Exempt

JUN 20 2000

ENTERED 6-20-00

110423

Date Printed: Monday, February 21, 2000

COPY

DMSA - Chara zation Form

Item Number: DMSA-335-04-076 Building: 335 DMSA #: 335-04

Item Description: Electric Motor 60 HP

Origin: PGDP Owner Status: DOE Capital Equipment ID: NA

Analytical Data

Initial Characterization

Assay	Mass
Sample Request and Receipt Form Issued	NDA Complete
Assay Smear Samples Complete	Sample A:
Independent Verification of Assay form completed and attached.	Assay Used: 0
	Pounds U: 0
	U-235 (g): 0
	Sample B:
	Assay Used: 0
	Pounds U: 0
	U-235(g): 0
NA	NA

Operating History

- X No NCS Concerns (Not Process Equipment)
- Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

NCS Classification

- X NCS-Exempt
- LS
- UH
- DEU

Characterization Completed By:

Name: [illegible]

Badge #: 602505

Date: 5-23-00

RCRA or TSCA Issues Identified

Comments: NA

Item relocated

New Location: Building: 335-04-095 B25

DMSA #:

110423

ENTERED 3-14-00

Date Printed: Monday, February 21, 2000

COPY

DMSA - Char rization Form

Item Number: DMSA-335-04-077 Building: 335 DMSA #: 335-04

Item Description: Electric Motor (60 hp)

Origin: PGDP Owner Status: DOE Capital Equipment ID: N/A

Analytical Data

Initial Characterization

Operatine History

- [x] No NCS Concerns (Not Process Equipment)
- [ ] Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- [ ] Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Assay

- [ ] Assay Assumed: 0
- [ ] Sample Request and Receipt Form Issued
- [ ] Assay Smear Samples Complete
- [ ] form completed and attached.

Assay wt%U-235: 0

N/A

Mass

- [ ] NDA Requested
- [ ] NDA Complete

Sample A:

Assay Used: 0

Pounds U: 0

U-235 (g): 0

Sample B:

Assay Used: 0

Pounds U: 0

U-235(g): 0

N/A

NCS Classification

- [x] NCS-Exempt
- [ ] LS
- [ ] UH
- [ ] PEH

Characterization Completed By:

Name: C W Wallace

Badge #: 662505

Date: 3-13-00

RCRA or TSCA Issues Identified

Comments:

N/A

- [ ] Item relocated N/A

New Location: Building: 335-04-095B25

DMSA #:

16423

ENTERED 3-14-00

Date Printed: Monday, February 21, 2000

WASTE IDENTIFICATION LOG SHEET

COPY

Generator Name:

RFD No.: DMA 335-04-095

Building/Area: C-335

Storage Location: C-335

Container Type/ID No.: 335-04-095

BAG/ITEM No.	WASTE MATERIAL	GSA/BLDG No.	SOURCE	PCB ppm	INITIAL	DATE	WEIGH
026	MOTORS in Box-CCL ~~Not in Box~~ Not in Box	C-335			HT	9/24	
025	" " ~~Not in Box~~ ~~Not in Box~~ SEE BELOW	"			"	"	
026	" " " OR	"			"	"	
027	" " " OR	"			"	"	
028	REFRIGERATOR not in Box SEE 026	"			"	"	
025	R-114 transfer pump						

Source Code: C - Contamination Area CCZ - Contamination Control Zone

DEPOSITOR'S INITIALS CERTIFY THAT MATERIAL IS PROPERLY DESCRIBED; ALL EQUIPMENT CONTAINING LIQUIDS, REFRIGERANTS AND HAZARDOUS COMPONENTS HAVE BEEN PROPERLY MANAGED; AND ALL PROCEDURAL REQUIREMENTS HAVE BEEN MET.

P-20300 (11-1-96)

DOE

LLW

RFD

Request For Disposal

Document ID Number 110424

Generation Process Information (Completed by Generator)

W1. Generator's Name (Print)	W2. Badge No.	W3. Generator's Phone No.	W3. Mail Stop	W5. Charge No. / WO
Eric Rimmins	703681	441-5140	C-743-71	

W6. Generator's Company	W7. Corp Owner	W8. Origin Site	W9. Origin Facility	W10. Origin Area	
WESKEM	DOE	PGDP	C-335	C-335-04	☑ Yes ☐ No

W12. Number of Items	W13. Process Category (GCC)	W14. Process Activity Code	W15. AWA Number	W16. Physical Form
1	LEG	A93	–	SOLID

W17. Material Type(s)	W18. Holding Site	W19. Holding Facility	W20. Holding Area	W21 RFD Attachment
M7007	PGDP	C-335	C-335-04	☑ A ☐ B ☐ C

Waste Subcategories (Check all that apply)

	Yes	No		Yes	No		Yes	No		Yes	No
W22. Biological		✓	W25. Const. Debris		✓	W28. Non-Friable Asbestos		✓	W31. DMSA	✓	
W23. Accountable		✓	W26. Classified		✓	W29. TRU Waste		✓			
W24. Carcinogen		✓	W27. Friable Asbestos		✓	W30. CERCLA		✓			

Waste Description / Comments

W32. DMSA-335-04-096; B-25 Box

BC DMSA0110435 Zone 2

This is to certify that the above named material is properly described and in the stated container, which is in good condition, marked with the RFD number, content, appropriate generation date, source location, and at the stated location.

W33. Generation Plan No.	W34. Generator's Signature	Date
	[signature]	8-1-01

Handling / Pickup Information (Completed by Waste Management)

P1. Pick-up Site	P2. Pick-up Facility	P3. Pick-up Room/Area

P4. PPE Requirements

P5. Container-Labeling Requirements

___ RCRA	___ PCB	___ DET PCB (<50ppm & source <50ppm)	___ RAD	___ DOE
___ FISSILE	___ NCS EXEMPT	___ RD CONFIDENTIAL	___ ACID	___ USEC
___ FLAMMABLE	___ COMBUSTIBLE	___ OXIDIZER	___ BASE	___ WESKEM
___ ASBESTOS	___ REACTIVE	___ TRANSURANIC	___ NON-HAZ	

P6. Additional Handling Instructions

Verify Labeling, Barcode, And Zone.

Reference FWR

Origin Date

PCB Start Date

RCRA Start Date

P7. Waste Coordinator (Issued By)	Badge	Date	P8. Disposal/Storage Completed By	Badge	Date
Eric Rimmins	703681	8-6-01	R L Allcock	15178	8-6-01

P9. Field Supervisor	Badge	Date	P10. Data Processing Completed By	Badge	Date
D A Wade	11357	8/6/01	Chy Walker		8-10-0

P11. Waste Item Information

Waste Item No. RFD110424-01

Container No. (Barcode) DMSA 0110435

Weight HP 2000 Lbs

Location and Grid Zone #2 C-335-04

Container Size 96 CuFt

P12. Operator Comments

BJCF-515a (03/01

DMSA

received 8-9-01 [illegible]

LOW-LEVEL RADIOACTIVE WASTE

ATTACHMENT A

DOCUMENT ID NUMBER 110424

PROHIBITED ITEMS

A1. PYROPHORIC MATERIALS -OTHER THAN RADIOACTIVE FORMS OF ISOTOPES	A2. ACTIVE CHELATING AGENTS	A3. TRU RADIOISOTOPES>100 nCi/g	A4. EXPLOSIVE MATERIALS
☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO

A5. ETILOGICAL AGENTS	A6. IGNITION SOURCES	A7. FREE LIQUIDS (Unless Wastewater)	A8. RCRA WASTE	A9. TSCA WASTE
☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO

A10. WASTE VARIANCE REQUEST NUMBER(S)

ADDITIONAL WASTE CHARACTERISTICS

A11. CHELATING AGENTS	A12. ION EXCHANGE RESINS	A13. DETECTABLE PCB (Concen. And Source <50 ppm) CONC.	A14. WASTEWATER
☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO ppm	☐ YES ☑ NO

RADIOISOTOPE DETERMINATION METHOD

DOCUMENT TYPE	DOCUMENT NUMBER
R1. ANALYSIS SAMPLE ID NO.	
R2. PROCESS KNOWLEDGE FORM NO.	0210

R3. FISSILE CONTENT (Wt% U-235)	R4. GRAMS U-235	R5. NCS EXEMPT	R5. CHEMICAL FORM
		☑ YES ☐ NO	

OTHER SAMPLE ANALYSIS

DOCUMENT TYPE	DOCUMENT NUMBER
1. ANALYSIS SAMPLE ID	
02. PROCESS KNOWLEDGE FORM NO.	

RADIATION DATA FROM HEALTH PHYSICS SURVEY SURFACE CONTAMINATION (Data Supplied by HP)

R7. HP SURVEY REQUIRED

☐ YES ☐ NO

R8. TRANSFERABLE (Alpha) dpm/100cm2	R9. FIXED (Alpha) dpm/100cm2
R10. TRANSFERABLE (Beta/Gamma) dpm/100cm2	R11. FIXED (Beta/Gamma) dpm/100cm2
R12. EXTERNAL DOSE/PACKAGE CONTACT MREM/HR	R13. DOSE RATE MREM/HR @ METERS (B/G)
R14. HP SIGNATURE	R15. SURVEY NUMBER

10. ITEM/CONTAINER	1 OF 1	DOCUMENT ID NUMBER 110424

11. WASTE ITEM ID NO.	12. ORIGIN DATE	13. RCRA ACCUMULATION START DATE	14. PCB DATE TO STORAGE
110424-01	8-1-01		

15. WASTE MATERIAL PLACED IN (Or Removed From) CONTAINER	16. QUANTITY	17. DEPOSITOR INITIAL	17. DEPOSITOR DATE	18. COMMENTS (If Waste is removed from container, then final disposition must be noted.)
B-25 Box	1	ER	8-1-01	DMSA-33504-096 Zone 2 See Attached disposal Log Sheet

19. CONTAINER ID NO. (Barcode)	110. ABSORBENT MATERIALS? QUANTITY TYPE	111. NMC&A FORM	112. EST. NET VOLUME	113. UNITS
DMSA010435	[ ] YES [X] NO		96 ft³	

114. GROSS WEIGHT	115. UNITS	116. INNER CONTAINER TYPE	117. OUTER CONTAINER TYPE	118. TANK SEAL NUMBER
2,000 lbs est				

119. CONTAINER GENERATOR SIGNATURE	DATE
[signature]	8-1-01

WASTE IDENTIFICATION LOG SHEET

COPY

Generator Name:

RFD No.: DMSA-335-04-096

Building/Area: C-335

Storage Location: C-335

Container Type/ID No.: 335-04-096

BAG/ITEM No.	WASTE MATERIAL	GSA/BLDG No.	SOURCE	PCB ppm	INITIAL	DATE	WEIGH
✓028	COUNTER + STOVE OK (PAPER BOX)	C-335	CCZ		HT	5/24/96	
✓074	MOTOR STANDS OK						
✓068	" " " " OK						
✓072	" " " " OK						
✓078	VALVES OK						
✓084	BELT COVERS OK						
✓083	" " " " OK						
✓082	" " " " OK						
✓090	SCRAP METAL OK						

Source Code: C - Contamination Area CCZ - Contamination Control Zone

DEPOSITOR'S INITIALS CERTIFY THAT MATERIAL IS PROPERLY DESCRIBED; ALL EQUIPMENT CONTAINING LIQUIDS, REFRIGERANT, AND HAZARDOUS COMPONENTS HAVE BEEN PROPERLY MANAGED; AND ALL PROCEDURAL REQUIREMENTS HAVE BEEN MET.

-20300 (11-1-96)

DOE Material Storage Area (DMSA) Item - NCS Characterization Form

ITEM	INITIAL CHARACTERIZATION	ANALYTICAL CHARACTERIZATION: ^{235}U Assay Analysis	^{235}U Mass Analysis	Subcritical Mass Limits	NDA Radiation Surveys	NCS CLASSIFICATION
RFD # 110424 Description: B-25 BOX Independent Confirmations: Individual #1: [illegible] Date: 08-06-01 Individual #2: HC Anderson Date: 8-3-01 . . . . . . Other Information: Bldg Col: C-335 C-32 DMSA #: C-335-04 Origin: N/A	Historical Documentation: Process Knowledge: Visual Inspections Completed: ____ External Surfaces Inspection ____ Internal Surfaces Inspection Completed By: Date: N/A	Sample A: ___ % ^{235}U ___ 1 sigma (% ^{235}U) ___ 2 sigma (% ^{235}U) ___ Total (^{235}U + 2 sigma) Sample B: % ^{235}U ___ 1 sigma (% ^{235}U) ___ 2 sigma (% ^{235}U) ___ Total (^{235}U + 2 sigma)	Sample A: ___ g ^{235}U Sample B: ___ g ^{235}U	___ kg ^{235}U ___ Moderated Limiu ___ Hydrated Limits N/A	Sample A: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: ___ % ^{235}U Mass: ___ g ^{235}U Submitted By: Date: Sample B: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: ___ % ^{235}U Mass: ___ g ^{235}U Submitted By: Date:	Initial Classification: ✓ NCS-Exempt ___ Spacing-Controlled ___ Singularly-Contingent DMSA Inspector: HC Anderson Date: 8-3-01 NDA Expert: N/A (if NDA is performed) Date: Independent Verifications: Person #1: Date: Person #2: Date: . . . . . . Reclassification: (if needed) ___ NCS-Exempt ___ Spacing-Controlled ___ Singularly-Contingent DMSA Inspector: Date: NDA Expert: (if NDA is performed) Date: N/A Independent Verifications: Person #1: Date: Person #2: Date:

Comments: NCS-EXEMPT BY PREVIOUS CHARACTERIZATION (DMSA# 335-04-096)
REFER TO ATTACHED SHEETS FOR DETAILED INFORMATION

Approved to Relocate: To Further NCS characterization is required. Item does not contain Singularly-Contingent mass. NDA Expert #1: Date: NDA Expert #2: N/A Date:	I have independently confirmed the identification and description for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match. Independent Person #1: Date: Independent Person #2: Date:	I have independently confirmed the destination for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match. Independent Person #1: Date: Independent Person #2: 110424 Date:

Rev. 3 (10/2000)

110424

DMSA - Charac ation Form

COP

Item Number: DMSA-335-04-096 Building: 335 DMSA #: 335-04

Item Description: B-25 Box

Origin: PGDP Owner Status: DoE Capital Equipment ID: N/A

JUN 2 0 2000

Initial Characterization

Operating History

- [x] No NCS Concerns (Not Process Equipment)
- [ ] Lndependent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- [ ] Independent Verification. . Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Analytical Data

Assay

- [ ] Assay Assumed: 0
- [ ] Sample Request and Receipt Form Issued
- [ ] Assay Smear Samples Complete
- [ ] Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0

N.A.

Mass

- [ ] NDA Requested
- [ ] NDA Complete

Sample A:

Assay Used: 0
Pounds U: 0
U-235 (g): 0

Sample B:

Assay Used: 0
Pounds U: 0
U-235(g): 0

N.A

NCS Classification

- [x] NCS-Exempt
- [ ] LS
- [ ] UH
- [ ] PEH

Characterization Completed By:

Name: [signature]
Badge #: C5C0165
Date: 6-16-00

- [x] RCRA or TSCA Issues Identified

Comments:
ASBESTOS

- [ ] Item relocated

New Location: Building: N.A. U-MCA
DMSA #: JUN-2-0-2000

Exempt

110424

ENTERED 6-20-00

MAR 1 4 ENTD

COP

DMSA - Charact ation Form

Item Number: DMSA-335-04-068 Building: 335 DMSA #: 335-04

Item Description: Freon Transfer Pump Base

Origin: PGDP Owner Status: DOE Capital Equipment ID: NA

Initial Characterization

Operating History

- [x] No NCS Concerns (Not Process Equipment)
- [ ] Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- [ ] Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Analytical Data

Assay

- [ ] Assay Assumed:
- [ ] Sample R quest and Issued
- [ ] Assay Smear Samples Comple Recept Form
- [ ] Independent Verification of ssay form completed and attac ; Complete tion of Assay attached.

Assay wt%U-235:

NA

Mass

- [ ] NDA Requested
- [ ] NDA Complete

Sample A:

Assay Used:

Pounds U: 0

U-235 (g): 0

U-235 (g 0

Sample B:

Assay Used: 0

Pounds U: 0

U-235(g) 0

NA

NCS Classification

- [x] NCS-Exempt
- [ ] LS
- [ ] UH
- [ ] PEH

Characterization Completed By:

Name: Clair Allen

Badge #: 662525

Date: 3-13-00

- RCRA or TSCA Issues Identified

Comments:

NA

- [x] Item relocated NA

New Location: Building: 335-04-096 B25

DMSA #:

110424

ENTERED 3-14-00

Date Printed: Monday, February 21, 2000

DMSA - Characterization Form

Item Number: DMSA-335-04-072 Building: 335 DMSA #: 335-04

Item Description: Freon Pump Base

Origin: PGDP Owner Status: DOE Capital Equipment ID: NA

Initial Characterization

Operating History

- [x] No NCS Concerns (Not Process Equipment)
- [ ] Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- [ ] Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Analytical Data

Assay

- [ ] Assay Assumed: 0
- [ ] Sample Request and Receipt Form Issued
- [ ] Assay Smear Samples Complete
- [ ] Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0

NA

Mass

- [ ] NDA Requested
- [ ] NDA Complete

Sample A:

Assay Used: 0

Pounds U: 0

U-235 (g): 0

Sample B:

Assay Used: 0

Pounds U: 0

U-235(g): 0

NA

NCS Classification

- [x] NCS-Exempt
- [ ] LS
- [ ] UH
- [ ] PEH

Characterization Completed By:

Name: CWSalte

Badge #: 662505

Date: 3-13-00

- [ ] RCRA or TSCA Issues Identified

Comments:

NA

- [ ] Item relocated NA

New Location: Building:

DMSA #:

110424

ENTERED 3-14-00

DMSA - Characterization Form

MAR 1

Item Number: DMSA-335-04-074 Building: 335 DMSA #: 335-04

Item Description: Freon Pump Base

Origin: PGDP Owner Status: DOE Capital Equipment ID: NA

Initial Characterization

Operating History

- Process Equipment)
- Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Analytical Data

Assay

- Assay Assumed: 0
- Sample Request and Receipt Form Issued
- Assay Smear Samples Complete
- Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0

NA

Mass

- NDA Requested
- NDA Complete

Sample A:

Assay Used: 0

Pounds U: 0

U-235 (g): 0

Sample B:

Assay Used: 0

Pounds U: 0

U-235(g): 0

NA

NCS Classification

- NCS-Exempt
- LS
- UH
- PEH

Characterization Completed By:

Name: [illegible]

Badge #: 662503

Date: 3-13-00

RCRA or TSCA Issues Identified

Comments:

NA

Item relocated NA

New Location: Building: 335-04-096 B25

DMSA #:

110424

ENTERED 3-14-00

Date Printed: Monday, February 21, 2000

DMSA - Characterization Form

Item Number: DMSA 335-04-078 | Building: 335 | DMSA #: 1335-04

Item Description: 4" Freon Valve (Body only)

Origin: PGDP | Owner Status: DOE | Capital Equipment ID: NA

Initial Characterization

Operating History

- [x] No NCS Concerns (Not Process Equipment)
- [ ] Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- [ ] Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Analytical Data

Assay

- [ ] Assay Assumed: 0
- [ ] Service Request and Receipt Form Issue
- [ ] Assay Smear Samples Complete
- [ ] Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0

NA

Mass

- [ ] NDA Requested
- [ ] NDA Complete

Sample A:

Assay Used: 0
Pounds U: 0
U-235 (g): 0

Sample B:

Assay Used: 0
Pounds U: 0
U-235(g): 0

NA

NCS Classification

- [x] NCS-Exempt
- [ ] LS
- [ ] UH
- [ ] PEH

Characterization Completed By:

Name: [illegible]
Badge #: 662503
Date: 3-17-00

- [ ] RCRA or TSCA Issues Identified

Comments:

NA

- [x] Item relocated NA

New Location: Building: 335-04-096B25
DMSA #:

110424

CERTIFIED 3-14-00

Date Printed: Monday, February 21, 2000

COP

DMSA - Chara zation Form

Item Number: DMSA-335-04-082 Building: 335 DMSA #: 335-04

Item Description: Coupling Guard

Origin: PGDP Owner Status: DOE Capital Equipment ID: NA

Analytical Data

Initial Characterization

Operating History

Process Equipment)

- Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Assay

- Assay Assumed: 0
- Sample Request and Receipt Form Issued
- Assay Smear Samples Complete
- Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0

Mass

- NDA Requested
- NDA Complete

Sample A:

Assay Used: 0

Pounds U: 0

U-235 (g): 0

Sample B:

Assay Used: 0

Pounds U: 0

U-235(g): 0

NCS Classification

- NCS-Exempt
- LS
- UH
- PEH

Characterization Completed By:

Name: Cervalle

Badge #: 662505

Date: 3-13-00

- RCRA or TSCA Issues Identified

Comments:

NA

Item relocated NA

New Location: Building: 335-04-096 B25

335-31- RJD 6.20.00

DMSA #:

110424

ENTERED 3-14-00

Date Printed: Monday, February 21, 2000

DMSA - Charac[illegible]ization Form

Item Number: DMSA-335-04-083 Building: 335 DMSA #: 335-04

Item Description: Coupling Guard

Origin: BDP Owner Status: DOE Capital Equipment ID: NA

Analytical Data

Initial Characterization

Operating History

- [x] No NCS Concerns (Not Process Equipment)
- [ ] Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- [ ] Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Assay

- [ ] Assay Assumed: 0
- [ ] Sample Request and Receipt Form Issued
- [ ] Assay Smear Samples Complete
- [ ] Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0

NA

Mass

- [x] NDA Requested
- [ ] NDA Complete

Sample A:

Assay Used: 0
Pounds U: 0
U-235 (g): 0

Sample B:

Assay Used: 0
Pounds U: 0
U-235(g): 0

NA

NCS Classification

- [x] NCS-Exempt
- [ ] LS
- [ ] UH
- [ ] PEH

Characterization Completed By:

Name: [illegible]
Badge #: 662503
Date: 3-13-00

- [ ] RCRA or TSCA Issues Identified

Comments: NA

- [x] Item relocated NA

New Location: Building: 335-04-096, B75
DMSA #:

110424

ENTERED 3-14-00

DMSA - Charac' ation Form

Item Number: DMSA-335-04-084 Building: 335 DMSA #: 335-04

Item Description: Coupling Guard

Origin: PGDP Owner Status: DOE Capital Equipment ID: NA

Initial Characterization

Operating History

- [x] No NCS Concerns (Not Process Equipment)
- [ ] Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached,

Visual Inspection

- [ ] Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Analytical Data

Assay

- [ ] Assay Assumed: 0
- [ ] Sample Request and Receipt Form Issued
- [ ] Assay Smear Samples Complete
- [ ] Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0

NA

Mass

- [ ] NDA Requested
- [ ] NDA Complete

Sample A:

Assay Used: 0
Pounds U: 0
U-235 (g): 0

Sample B:

Assay Used: 0
Pounds U: 0
U-235(g): 0

NA

NCS Classification

- [x] NCS-Exempt
- [ ] LS
- [ ] UH
- [ ] PEH

Characterization Completed By:

Name: [illegible]
Badge #: 662505
Date: 5-13-00

- [ ] RCRA or TSCA Issues Identified

Comments:

NA

&relocated NA

New Location: Building: 335-04-096 325
DMSA #:

110424

CONTROLLED 3-14-00

Date Printed: Monday, February 21, 2000

(COPY)

DMSA - Charac ation Form

Item Number: DMSA-335-04-090 Building: 335 DMSA #: 335-04

Item Description: Channel Iron 2" x 12" large

Origin: PGDP Owner Status: DOE Capital Equipment ID: NA

Initial Characterization

Operating History

- [x] No NCS Concerns (Not Process Equipment)
- [ ] Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- [ ] Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Analytical Data

Assay

- [ ] Assay Assumed: 0
- [ ] Sample Request and Receipt Form Issued
- [ ] Assay Smear Samples Complete
- [ ] Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0

NA

Mass

- [ ] NDA Requested
- [ ] NDA Complete

Sample A:

Assay Used: 0
Pounds U: 0
U-235 (g): 0

Sample B:

Assay Used: 0
Pounds U: 0
U-235(g): 0

NA

NCS Classification

- [x] NCS-Exempt
- [ ] LS
- [ ] UH
- [ ] PEH

Characterization Completed By:

Name: [illegible]
Badge #: 662505
Date: 3-13-00

- [ ] RCRA or TSCA Issues Identified

Relocated NA

New Location: Building:
DMSA #:

Comments:

NA

110424

CONTROLLED COPY 3-14-00

Date Printed: Monday, February 21, 2000

DOE

LLW

RFD

Request For Disposal

Document ID Number 110425

Generation Process Information (Completed by Generator)

W1. Generator's Name (Print)	W2. Badge No.	W3. Generator's Phone No.	W3. Mail Stop	W5. Charge No. / WO
Eric Kimmins	103681	441-5140	C-743-T1	

W6. Generator's Company	W7. Corp Owner	W8. Origin Site	W9. Origin Facility	W10. Origin Area	W11. Rad Area?
WESKEM	DOE	PGDP	C-335	C-335-04	☑ Yes ☐ No

W12. Number of Items	W13. Process Category (GCC)	W14. Process Activity Code	W15. AWA Number	W16. Physical Form
1	LEG	A93	—	SOLID

W17. Material Type(s)	W18. Holding Site	W19. Holding Facility	W20. Holding Area	W21 RFD Attachment
Tools	PGDP	C-335	C-335-04	☑ A ☐ B ☐ C

Waste Subcategories (Check all that apply)

	Yes	No		Yes	No		Yes	No		Yes	No
W22. Biological		✓	W25. Const. Debris		✓	W28. Non-Friable Asbestos		✓	W31. DMSA	✓	
W23. Accountable		✓	W26. Classified		✓	W29. TRU Waste		✓			
W24. Carcinogen		✓	W27. Friable Asbestos		✓	W30. CERCLA		✓			

Waste Description / Comments

W32. DMSA-335-04-093; B-25 Box

D.C. DMSA0110436 Zone 2

This is to certify that the above named material is properly described and in the stated container, which is in good condition, marked with the RFD number, content, appropriate generation date, source location, and at the stated location.

W33. Generation Plan No.	W34. Generator's Signature	Date
	CK	8-1-01

Handling / Pickup Information (Completed by Waste Management)

P1. Pick-up Site	P2. Pick-up Facility	P3. Pick-up Room/Area

P4. PPE Requirements

P5. Container-Labeling Requirements

___ RCRA	___ PCB	___ DET PCB (<50ppm & source <50ppm)	___ RAD	___ DOE
___ FISSILE	___ NCS EXEMPT	___ RD CONFIDENTIAL	___ ACID	___ USEC
___ FLAMMABLE	___ COMBUSTIBLE	___ OXIDIZER	___ BASE	___ WESKEM
___ ASBESTOS	___ REACTIVE	___ TRANSURANIC	___ NON-HAZ	

P6. Additional Handling Instructions

Verify Labeling, Barcode, and Zone.

Reference FWR

Origin Date

PCB Start Date

RCRA Start Date

P7. Waste Coordinator (Issued By)	Badge	Date	P8. Disposal/Storage Completed By	Badge	Date
Eric Kimmins	103681	8-6-01	RL Hitkock	15778	8-6-01

P9. Field Supervisor	Badge	Date	P10. Data Processing Completed By	Badge	Date
D A Wade	11357	8/6/01	Amy Walker		8-10-01

P11. Waste Item Information

Waste Item No. RFD110425

Container No. (Barcode) DMSA0110436

Weight APP 2500 lbs

Location and Grid Zone #2 C-335-04

Container Size 96 cu ft

P12. Operator Comments

BJCF-515a (03/01)

DMSA

received 8-9-01

LOW-LEVEL RADIOACTIVE WASTE

ATTACHMENT A

DOCUMENT ID NUMBER 110 425

PROHIBITED ITEMS

A1. PYROPHORIC MATERIALS -OTHER THAN RADIOACTIVE FORMS OF ISOTOPES	A2. ACTIVE CHELATING AGENTS	A3. TRU RADIOISOTOPES>100 nCi/g	A4. EXPLOSIVE MATERIALS
☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO

A5. ETILOGICAL AGENTS	A6. IGNITION SOURCES	A7. FREE LIQUIDS (Unless Wastewa	A8. RCRA WASTE	A9. TSCA WASTE
☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO

A10. WASTE VARIANCE REQUEST NUMBER(S)

ADDITIONAL WASTE CHARACTERISTICS

A11. CHELATING AGENTS	A12. ION EXCHANGE RESINS	A13. ~~DETECTABLE PCB~~ (Concen. And Source <50 ppm)	A14. WASTEWATER
☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO CONC. ppm	☐ YES

RADIOISOTOPE DETERMINATION METHOD

DOCUMENT TYPE	DOCUMENT NUMBER
R1. ANALYSIS SAMPLE ID NO.	
R2. PROCESS KNOWLEDGE FORM NO.	0210

R3. FISSILE CONTENT (Wt% U-235)	R4. GRAMS U-235	R5. NCS EXEMPT	R5. CHEMICAL FORM
		☑ YES ☐ NO	

OTHER SAMPLE ANALYSIS

DOCUMENT TYPE	DOCUMENT NUMBER
01. ANALYSIS SAMPLE ID NO.	
O2. PROCESS KNOWLEDGE FORM NO.	

RADIATION DATA FROM HEALTH PHYSICS SURVEY SURFACE CONTAMINATION (Data Supplied by HP)

R7. HP SURVEY REQUIRED

☐ YES ☐ NO

R8. TRANSFERABLE (Alpha) dpm/100cm2	R9. FIXED (Alpha) dpm/100cm2
R10. TRANSFERABLE (Beta/Gamma) dpm/100cm2	R 11. FIXED (Beta/Gamma) dpm/100cm2
R12. EXTERNAL DOSE/PACKAGE CONTACT MREM/HR	R13. DOSE RATE MREM/HR @ METERS (B/G)
R14. HP SIGNATURE	R15. SURVEY NUMBER

10. ITEM/CONTAINER	1 OF 1	DOCUMENT ID NUMBER 110425

11 WASTE ITEM ID NO	12 ORIGIN DATE	13 RCRA ACCUMULATION START DATE	14 PCB DATE TO STORAGE
110425-01	8-1-01		

15. WASTE MATERIAL PLACED IN (Or Removed From) CONTAINER	16. QUANTITY	17. DEPOSITOR INITIAL	17. DEPOSITOR DATE	18. COMMENTS (If Waste is removed from container, then final disposition must be noted.)
B-25 Box	1	EK	8-1-01	DMSA-335-04-093 Zone 2
				See Attached Original Log Sheet

19. CONTAINER ID NO. (Barcode)	110. ABSORBENT MATERIALS? QUANTITY TYPE	111. NMC&A FORM	112. EST. NET VOLUME	113 UNITS
DMSA01604 36	[] YES [X] NO		96 ft3	

114 GROSS WEIGHT	115. UNITS	116. INNER CONTAINER TYPE	117 OUTER CONTAINER TYPE	118 TANK SEAL NUMBER
2,500 LBS# est.				

119. CONTAINER GENERATOR SIGNATURE	DATE
[signature]	8-1-01

COI

WASTE IDENTIFICATION LOG SHEET

COPY 110425

Generator Name:

RFD No.: DMSA 335-04-093

Building/Area: C-335

Storage Location: C-335

Container Type/ID No.: DMSA 335-04-095

BAG/ITEM No.	WASTE MATERIAL	GSA/BLDG No.	SOURCE	PCB ppm	INITIAL	DATE	WEIGHT
040	VALVES	C-335			HT	5/22/0	
041	VALVES	"			"	"	
066	" "	"			"	"	
067	" "	"			"	"	
037	" "	"			"	"	
038	" "	"			"	"	
039	" " OR	"			"	"	
085	BELT COVERS	"			"	"	
087	" "	"			"	"	
086		"			"	"	
055	FUSE BOX	"			"	"	
080	COUPLING	"			"	"	
88	BA PAPER BARREL	"			"	"	
#(44)	335-04-056 SCRAPMETAL	"			"	"	
027	POWER CONTROL BOX OR	"			"	"	

FULL

Source Code: C - Contamination Area CCZ - Contamination Control Zone

DEPOSITOR'S INITIALS CERTIFY THAT MATERIAL IS PROPERLY DESCRIBED; A U EQUIPMENT CONTAINING LIQUIDS, REFRIGER. AND HAZARDOUS COMPONENTS HAVE BEEN PROPERLY MANAGED; AND ALL PROCEDURAL REQUIREMENTS HAVE BEEN MET.

CP-20300 (11-1-96)

DOE Material Storage Area (DMSA) Item - NCS Characterization Form

ITEM	INITIAL CHARACTERIZATION	ANALYTICAL CHARACTERIZATION: ^{235}U Assay Analysis	^{235}U Mass Analysis	Subcritical Mass Limits	NDA Radiation Surveys	NCS CLASSIFICATION
RFD # 110425 Description B-25 Box Independent Confirmations: Individual #1: [illegible] Date 08-06-01 Individual #2: HCAnderson Date 8-3-01 . . . . . . Other Information: Bldg. Col. C-335 C-32 DMSA # C-335-04 Other Info: N/A	Historical Documentation: ____ Process Knowledge: ____ Visual Inspections Completed: ____ External Surfaces Inspection ____ Internal Surfaces Inspection Completed By: ____ Date: N/A	Sample A: ___ % ^{235}U ___ 1 sigma (% ^{235}U) ___ 2 sigma (% ^{235}U) ___ Total (^{235}U + 2 sigma) Sample B: ___ % ^{235}U ___ 1 sigma (% ^{235}U) ___ 2 sigma (% ^{235}U) ___ Total (^{235}U + 2 sigma)	Sample A: ___ g ^{235}U Sample B: ___ g ^{235}U	___ kg ^{235}U ___ Moderated Limits ___ Hydrated Limits N/A	Sample A: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: ___ % ^{235}U Mass: ___ g ^{235}U Submitted By: ____ Date: ____ Sample B: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: ___ % ^{235}U Mass: ___ g ^{235}U Submitted By: ____ Date: ____	Initial NCS Classification: ___ NCS-Exempt ___ Spacing-Controlled ___ Singularly-Contingent DMSA Inspector: HCAnderson Date: 8-3-01 NDA Expert: N/A (if NDA is performed) Date: ____ Independent Verifications: Person #1: ____ Date: ____ Person #2: ____ Date: ____ . . . . . . Reclassification: (if needed) ___ NCS-Exempt ___ Spacing-Controlled ___ Singularly-Contingent DMSA Inspector: ____ Date: ____ NDA Expert: ____ (if NDA is performed) Date: N/A Independent Verifications: Person #1: ____ Date: ____ Person #2: ____ Date: ____

Comments: NCS-EXEMPT BY PREVIOUS CHARACTERIZATION (DMSA# 335-04-093)
REFER TO ATTACHED SHEETS FOR DETAILED INFORMATION

Approved to Relocate: To ____ Further NCS characterization is required. Item does not contain Singularly-Contingent mass. NDA Expert #1: ____ Date ____ NDA Expert #2: ____ N/A Date ____	I have independently confirmed the identification and description for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match. Independent Person #1: ____ Date: ____ Independent Person #2: ____ Date: ____	I have independently confirmed the destination for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match. Independent Person #1: ____ Date: ____ Independent Person #2: ____ Date: ____

Rev. 3 (10/2000)

110425

DMSA - Charact ation Form

Item Number: DMSA-335-04-093 Building: 335 DMSA #: 335-04

Item Description: B-25 Box

Origin: PGDP Owner Status: Dec Capital Equipment ID: NA

JUN 13 2000

Initial Characterization

Operating History

- No NCS Concerns (Not Process Equipment)
- Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- ☒ Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Analytical Data

Assay

- ☐ Assay Assumed: 0
- ☐ Sample Request and Receipt Form Issued
- ☐ Assay Smear Samples Complete
- ☐ Independent Verification of Assay form completed and attached.

Assay wt% U-235: 0

NA

Mass

- ☐ NDA Requested
- ☐ NDA Complete

Sample A:

Assay Used: 0
Pounds U: 0
U-235 (g): 0

Sample B:

Assay Used: 0
Pounds U: 0
U-235(g): 0

NA

NCS Classification

- ☒ NCS-Exempt
- ☐ LS
- ☐ UH
- ☐ PEH

Characterization Completed By:

Name: CWabolitis

Badge #: 662505

Date: 6-13-00

- RCRA or TSCA Issues Identified

NA

Comments:

☐ Item relocated NA

New Location: Building:

DMSA #:

110425

6-14-00

Date Printed: Monday, February 21, 2000

DMSA - Chara ~~ization~~ Form

Item Number: DMSA-335-04-027 Building: 335 DMSA #: 335-04

MAR 1 0 ENT'D

Item Description: Electrical Switch Box

Origin: GDP Owner Status: ~~NON 3-2-00~~ DOE Capital Equipment ID: N/A

Analytical Data

Operating History

- X No NCS Concerns (Not Process Equipment)
- Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- Inaependent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Assay Assumed: 0

Sample Request and Receipt Form Issued

Independent Verification of Assay form completed and attached.

NDA Requested

NDA Complete

Sample A:

Pounds U: 0

U-235 (g): 0

Sample B:

Assay Used: 0

U-235(g): 0

X NCS-Exempt

LS

UH

Characterization Completed By:

Name: CW Walter

Badge #: 662505

Date: 3-8-00

N/A

N/A

RCRA or TSCA Issues Identified

Comments:

Item relocated

New Location: Building: 335-04-093 825

DMSA #:

110425

NMC&A Exempt
No visible Uranium

3-10-00

ENTERED 3-10-00

Date Printed: Monday, February 21, 2000

DMSA - Characterization Form

Item Number: DMSA-335-04-037 Building: 335 DMSA #: 335-04

Item Description: 6" Dahl CU - Pneumatic Dahl Valve MAY 24 2000

Origin: GDP Owner Status: DOE Capital Equipment ID: NA

Analytical Data

Initial Characterization

Operating History

No NCS Concerns (Not Process Equipment)

Independent Verification

concerns due to equipment has never been exposed to process gas) is completed an attached.

Visual Inspection

X Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Assay

Assay Assumed: 0

X Sample Request and Receipt Form Issued

Assay Smear Samples Complete

Verification of Assay form completed and attached.

Assay wt% U-235: 0

N/A

Mass

ND A Requested

NDA Complete

Sample A:

Assay Used: 0

Pounds U: 0

U-235 (g): 0

Sample B:

Assay Used: 0

Pounds U: 0

U-235(g): 0

N/A

NCS Classification

X NCS-Exempt

LS

UH

PEH

Characterization Completed By:

Name: JP Miller

Badge #: 60999

Date: 5-22-00

RCRA or TSCA Issues Identified

Comments:

New Location: Building: 335-04-093 825

DMSA #:

110423

ENTERED 6-1-00

DMSA - Charac zation Form

COP

Item Number: DMSA-335-04-038 Building: 335 DMSA #: 335-04

Item Description: 6" Dahl CV - Pneumatic Dahl Valve

MAY 2 4 2000

Origin: GDP Owner Status: DOE Capital Equipment ID: N/A

Analytical Data

Initial Characterization

Operating History

- ☐ No NCS Concerns (Not Process Equipment)
- ☐ Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- ☒ Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

N/A

Assay

- ☐ Assay Assumed: 0
- ☑ Sample Request and Receipt Form Issued
- ☑ Assay Smear Samples Complete
- ☑ Independent Verification of Assay form completed and attached.

Assay wt% U-235: .1641 0

N/A 6/6/00

Mass

- ☐ NDA Requested
- ☐ NDA Complete

Sample A:

Assay Used: 0
Pounds U: 0
U-235 (g): 0

Sample B:

Assay Used: 0
Pounds U: 0
U-235(g): 0

N/A

NCS Classification

- ☒ NCS-Exempt
- ☐ LS
- ☐ UH
- ☐ PEH

Characterization Completed By:

Name: HCAndrson
Badge #: 650576
Date: 5-19-00

JP Miller
60999
6-6-00

☐ RCRA or TSCA Issues Identified N/A

Comments:

☒ Item relocated N/A

New Location: Building: 335-04-093B25
DMSA #:

ENTERED 6-1-00

110425

Date Printed: Monday, February 21, 2000

DMSA - Characterization Form

MAY 2 4 2000

Item Number: DMSA-335-04-039 Building: 335 DMSA #: 335-04

Item Description: 6" Dahl C-V - Pneumatic Dahl Valve

Origin: GDP Owner Status: DOE Capital Equipment ID: NA

Analytical Data

Initial Characterization

Operating History

- No NCS Concerns (Not Process Equipment)
- independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- [x] Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is compieted and attached,

Assay

- [ ] Assay Assumed: 0
- [ ] Sample Request and Receipt Form Issued
- [ ] Assay Smear Samples Complete
- [ ] Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0

N/A

Mass

- [ ] NDA Requested
- [ ] NDA Complete

Sample A:

Assay Used: 0
Pounds U: 0
U-235 (g): 0

Sample B:

Assay Used: 0
Pounds U: 0
U-235(g): 0

N/A

NCS Classification

- [x] NCS-Exempt
- [ ] LS
- [ ] UH
- [ ] PEH

Characterization Completed By:

Name: J P Miller
Badge #: 60999
Date: 5-22-00

- [ ] RCRA or TSCA Issues Identified

Comments:

NA

- [x] Item relocated

New Location: Building: 335-U1-093 B25
DMSA #:

ENTERED 6-1-00

110425

Date Printed: Monday, February 21, 2000

DMSA - Charac[illegible]ation Form

COPY

Item Number: DMSA-335-04-041 Building: 335 DMSA #: 335-04

Item Description: 4" Ball Valve - Pneumatic

MAY 2 4 2000

Origin: GDP Owner Status: DOE Capital Equipment ID: NA

X Analytical Data

Initial Characterization	Assay	Mass	NCS Classification
Operating History ☐ No NCS Concerns (Not Process Equipment) ☐ Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached. Visual Inspection X Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.	☐ Assay Assumed: 0 ☐ Sample Request and Receipt Form Issued ☐ Assay Smear Samples Complete ☐ Independent Verification of Assay form completed and attached. Assay wt%U-235: 0 N/A	☐ NDA Requested ☐ NDA Complete Sample A: Assay Used: 0 Pounds U: 0 U-235 (g): 0 Sample B: Assay Used: 0 Pounds U: 0 U-235(g): 0 N/A	☐ NCS-Exempt ☐ LS ☐ UH ☐ PEH Characterization Completed By: Name: J P Miller Badge #: 60999 Date: 5-22-00

☐ RCRA or TSCA Issues Identified

NA

Comments:

☑ Item relocated

New Location: Building: 335-04-093B25

DMSA #:

ENTERED 6-1-00

110425

Date Printed: Monday, February 21, 2000

DMSA - Characterization Form

MAR 1 ? 2000

Item Number: DMSA-335-04-055 Building: 335 DMSA #: 335-04

Item Description: Electrical Control Box

Origin: PGDP Owner Status: DOE Capital Equipment ID: NA

Analytical Data

Initial Characterization

Operating History

- [x] No NCS Concerns (Not Process Equipment)
- [ ] Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- [ ] Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Assay

- [ ] Assay Assumed: 0
- [ ] Sample Request and Receipt Form Issued
- [ ] Assay Smear Samples Complete
- [ ] Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0

NA

Mass

- [ ] NDA Requested
- [ ] NDA Complete

Sample A:

Assay Used: 0
Pounds U: 0
U-235 (g): 0

Sample B:

Assay Used: 0
Pounds U: 0
U-235(g): 0

NA

NCS Classification

- [x] NCS-Exempt
- [ ] LS
- [ ] UH
- [ ] PEH

Characterization Completed By:

Name: Quindalis
Badge #: 66255
Date: 3-9-00

- [ ] RCRA or TSCA Issues Identified

Comments: NA

- [x] Item relocated NA

New Location: Building: 335-001-093 B25
DMSA #:

NMC&A Exempt
No visible Uranium

cyf 3-10-00

DOCUMENT CONTROL CENTER 3-14-00

110425

Date Printed: Monday, February 21, 2000

DMSA - Characterization Form

COPY

Item Number: DMSA-335-04-040 Building: 335 DMSA #: 335-04 MAY 2 4 2000

Item Description: 6" Dahl CV - Pneumatic Dahl Valve

Origin: C-DP Owner Status: DOE Capital Equipment ID: UA

Analytical Data

Initial Characterization	Assay	Mass	NCS Classification
Operating History ☐ No NCS Concerns (Not Process Equipment) ☐ Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached. Visual Inspection ☒ Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.	☐ Assay Assumed: 0 ☑ Sample Request and Receipt Form ☐ Assay Smear Samples Complete ☐ Independent Verification of Assay form completed and attached. Assay wt%U-235: 0 N/A	☐ NDA Requested ☐ NDA Complete Sample A: Assay Used: 0 Pounds U: 0 U-235 (g): 0 Sample B: Assay Used: 0 Pounds U: 0 U-235(g): 0 N/A	☒ NCS-Exempt ☐ LS ☐ UH ☐ PEH Characterization Completed By: Name: J P Miller Badge #: 60999 Date: 5-22-00

RCRA or TSCA Issues Identified N/A

Comments:

☑ Item relocated

New Location: Building: 335-04-093 B25

DMSA #:

ENTERED 6-1-00

11 B42 S

MAR 13 ENTD

DMSA - Characterization Form

Item Number: DMSA-335-04-056 Building: 335 DMSA #: 335-04

Item Description: Wooden Box of Hydraulic Sys. Brackets

Origin: PGDP Owner Status: DOE Capital Equipment ID: N/A

Initial Characterization

Operating History

- [x] No NCS Concerns (Not Process Equipment)
- [ ] Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- [ ] Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Analytical Data

Assay

- [ ] Assay Assumed: 0
- [ ] Sample Request and Receipt Form Issued
- [ ] Assay Smear Samples Complete
- [ ] Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0

N/A

Mass

- [ ] NDA Requested
- [ ] NDA Complete

Sample A:

Assay Used: 0
Pounds U: 0
U-235 (g): 0

Sample B:

Assay Used: 0
Pounds U: 0
U-235(g): 0

N/A

NCS Classification

- [x] NCS-Exempt
- [ ] LS
- [ ] UH
- [ ] PEH

Characterization Completed By:

Name: [illegible]
Badge #: 662505
Date: 3-9-00

- RCRA or TSCA issues Identified

Comments:

N/A

[x] Item relocated N/A
New Location: Building: 335-04-093 B25
DMSA #:

NMC&A Exempt
No visible Uranium [illegible] 3-10-00

110425

ENTERED 3-14-00

Date Printed: Monday, February 21, 2000

DMSA - Charact ation Form

COPY

Item Number: DMSA-335-04-066 Building: 335 DMSA #: 335-04

Item Description: 4" Dahl Valve - Pneumatically Operated

Origin: GDP Owner Status: DOE Capital Equipment ID: NA

MAY 24 2000

Analytical Data

Initial Characterization

Operating History

No NCS Concerns (Not Process Equipment)

Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

X Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Assay

Assay Assumed: 0

✓ Sample Request and Receipt Form Issued

Assay Smear Samples Complete

Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0

N/A

Mass

☐ NDA Requested

☐ NDA Complete

Sample A:

Assay Used: 0

Pounds U: 0

U-235 (g): 0

Sample B:

Assay Used: 0

Pounds U: 0

U-235(g): 0

N/A

NCS Classification

X NCS-Exempt

LS

UH

PEH

Characterization Completed By:

Name: G P Miller

Badge #: 60979

Date: 5-23-00

RCRA or TSCA Issues Identified

NA

✓ Item relocated

New Location: Building: 335-X1-093B25

DMSA #:

Comments:

110425

ENTERED 5-25-00

DMSA - Charact ation Form

COPY

MAY 2 4 2000

Item Number: DMSA-335-04-067 Building: 335 DMSA #: 335-04

Item Description: 4" Dahl Valve - Pneumatically operated

Origin: GDP Owner Status: DOE Capital Equipment ID: N/A

Analytical Data

Initial Characterization

Operating History

- No NCS Concerns (Not Process Equipment)
- Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- X Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Assay

- Assay Assumed: 0
- X Sample Request and Receipt Form
- Samples Complete
- Assay Smear
- form completed and attached.

Assay wt%U-235: 0

N/A

Mass

- NDA Requested
- NDA Complete

Sample A:

Assay Used: 0

Pounds U: 0

U-235 (g): 0

Sample B:

Assay Used: 0

Pounds U: 0

U-235(g): 0

N/A

NCS Classification

- X NCS-Exempt
- LS
- UH
- PEH

Characterization Completed By:

Name: J P Miller

Badge #: 60999

Date: 5-23-00

RCRA or TSCA Issues Identified

Comments:

New Location: Building: 335-04-093 DMSA #: 335-04-0 B25

10425

ENTERED 5-25-00

Date Printed: Monday, February 21, 2000

DMSA - Charac zation Form

Item Number: DMSA-335-04-080 Building: 335 DMSA #: 335-04

Item Description: 3" Freon Pipe Stub & Flange

Origin: PGDP Owner Status: DOE Capital Equipment ID: NA

Analytical Data

Initial Characterization

Operating History

- ☒ No NCS Concerns (Nor Process Equipment)
- ☐ Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- ☐ Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Assay

- ☐ Assay Assumed: 0
- ☐ Sample Request and Receipt Form Issued
- ☐ Assay Smear Samples Complete
- ☐ Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0

NA

Mass

- ☐ **NDA** Requested
- ☐ **NDA** Complete

Sample A:

Assay Used: 0
Pounds U: 0
U-235 (g): 0

Sample B:

Assay Used: 0
Pounds U: 0
U-235(g): 0

NA

NCS Classification

- ☒ NCS-Exempt
- ☐ LS
- ☐ UH
- ☐ PEH

Characterization Completed By:

Name: [illegible]
Badge #: 662505
Date: 3-13-00

☐ RCRA or TSCA Issues Identified

Comments:

NA

☒ Item relocated NA

New Location: Building: 335-04-093B25
DMSA #:

110425

ENTERED 3-14-00

Date Printed: Monday, February 21, 2000

DMSA - Charac[illegible]ization Form

Item Number: DMSA-335-04-085 Building: 335 DMSA #: 335-04

Item Description: axial 3150 [illegible] Coupling Guard

Origin: PGDP Owner Status: DOE Capital Equipment ID: WA

Analytical Data

Initial Characterization

Operating History

- [x] No NCS Concerns (Not Process Equipment)
- [ ] Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- [ ] Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Assay

- [ ] Assay Assumed: 0
- [ ] Sample Request and Receipt Form Issued
- [ ] Assay Smear Samples Complete
- [ ] Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0

NA

Mass

- [ ] NDA Requested
- [ ] NDA Complete

Sample A:

Assay Used: 0

Pounds U: 0

U-235(g): 0

Sample B:

Assay Used: 0

Pounds U: 0

U-235(g): 0

NA

NCS Classification

- [x] NCS-Exempt
- [ ] LS
- [ ] UH
- [ ] PEH

Characterization Completed By:

Name: [illegible]

Badge #: 662503

Date: 3-13-00

- [ ] RCRA or TSCA Issues Identified

Comments:

NA

New Location: Building: 335-04-093 B25

DMSA #:

110425

CONTAINED 3-14-00

Date Printed: Monday, February 21, 2000

DMSA - Characterization Form

Item Number: DMSA-335-04-086 Building: 335 DMSA #: 335-04

Item Description: Coupling Guard

Origin: PGDP Owner Status: DOE Capital Equipment ID: N/A

Analytical Data

Initial Characterization

Operating History

- [X] No NCS Concerns (Not Process Equipment)
- [ ] Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- [ ] Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Assay

- [ ] Assay Assumed: 0
- [ ] Sample Request and Receipt Form Issued
- [ ] Assay Smear Samples Complete
- [ ] Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0

N/A

Mass

- [ ] NDA Requested
- [ ] NDA Complete

Sample A:

Assay Used: 0

Pounds U: 0

U-235 (g): 0

Sample B:

Assay Used: 0

Pounds U: 0

U-235(g): 0

N/A

NCS Classification

- [X] NCS-Exempt
- [ ] LS
- [ ] UH
- [ ] PEH

Characterization Completed By:

Name: [illegible]

Badge #: 662505

Date: 3-13-00

- [ ] RCRA or TSCA Issues Identified

~~Comments:~~

N/A

- [X] Item relocated N/A

New Location: Building: 335-04-093 B25

DMSA #:

110 d25

ENTERED 3-14-00

Date Printed: Monday, February 21, 2000

DMSA - Characterization Form

COPY

Item Number: DMSA-335-04-087 Building: 335 DMSA #: 335-04

Item Description: Coupling Guard

Origin: PGDP Owner Status: DOE Capital Equipment ID: N A

Analytical Data

Initial Characterization

Operating History

- [x] No NCS Concerns (Not Process Equipment)
- [ ] Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- [ ] Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Assay

Assay Assumed: 0

- [ ] Sample Request and Receipt Form Issued
- [ ] Assay Smear Samples Complete
- [ ] Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0

NA

Mass

- [ ] NDA Requested
- [ ] NDA Complete

Sample A:

Assay Used: 0

Pounds U: 0

U-235 (g): 0

Sample B:

Assay Used: 0

Pounds U: 0

U-235(g): 0

NA

NCS Classification

- [x] NCS-Exempt
- [ ] LS
- [ ] UH
- [ ] PEH

Characterization Completed By:

Name: [illegible]

Badge #: 662505

Date: 3-13-00

- [ ] RCRA or TSCA Issues Identified

Comments: NA

- [x] Item relocated NA

New Location: Building: 335-04-093B25

DMSA #:

110425

ENTERED 3-14-00

Date Printed: Monday, February 21, 2000

COPY

DMSA - Charact ation Form

Item Number: DMSA-335-04-088 Building: 335 DMSA #: 335-04

Item Description: Cardboard Drum (~30gal)

Origin: PGDP Owner Status: DOE Capital Equipment ID: NA

Initial Characterization

Operating History

☒ No NCS Concerns (Not Process Equipment)

Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

☐ Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Analytical Data

Assay

☐ Assay Assumed: 0

☐ Sample Request and Receipt Form Issued

☐ Assay Smear Samples Complete

☐ Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0

NA

Mass

☐ NDA Requested

☐ NDA Complete

Sample A:

Assay Used: 0

Pounds U: 0

U-235 (g): 0

Sample B:

Assay Used: 0

Pounds U: 0

U-235(g): 0

NA

NCS Classification

☒ NCS-Exempt

☐ LS

☐ UH

☐ PEH

Characterization Completed By:

Name: [illegible]

Badge #: 66250.5

Date: 3-13-00

☐ RCRA or TSCA Issues Identified

Comments:

NA

☑ Item relocated NA

New Location: Building: 335-04-093 B25

DMSA #:

110425

ENTERED 3-14-00

Date Printed: Monday, February 21, 2000

DOE LLW RFD

Request For Disposal

Document ID Number 110426

Generation Process Information (Completed by Generator)

W1. Generator's Name (Print)	W2. Badge No.	W3. Generator's Phone No.	W3. Mail Stop	W5. Charge No. / WO
Eric Kimmins	703681	441-5140	C-743-T1	

W6. Generator's Company	W7. Corp Owner	W8. Origin Site	W9. Origin Facility	W10. Origin Area	W11. Rad Area?
WESKEM	DOE	PGDP	C-335	C-335-04	☑ Yes ☐ No

W12. Number of Items	W13. Process Category (GCC)	W14. Process Activity Code	W15. AWA Number	W16. Physical Form
1	LEG	A93	–	SOLID

W17. Material Type(s)	W18. Holding Site	W19. Holding Facility	W20. Holding Area	W21 RFD Attachment
MTOOT	PGDP	C-335	C-335-04	☑ A ☐ B ☐ C

Waste Subcategories (Check all that apply)

	Yes	No		Yes	No		Yes	No		Yes	No
W22. Biological			W25. Const. Debris		✓	W28. Non-Friable Asbestos		✓	W31. DMSA	✓	
W23. Accountable			W26. Classified		✓	W29. TRU Waste		✓			
W24. Carcinogen			W27. Friable Asbestos		✓	W30. CERCLA		✓			

Waste Description / Comments

W32. DMSA-335-04-094; B-25 Box

B.C. ~~B.C.~~ DMSA0110437 Zone 2

This is to certify that the above named material is properly described and in the stated container, which is in good condition, marked with the RFD number, content, appropriate generation date, source location, and at the stated location.

W33. Generation Plan No.	W34. Generator's Signature	Date
	[signature]	8-1-01

Handling / Pickup Information (Completed by Waste Management)

P1. Pick-up Site	P2. Pick-up Facility	P3. Pick-up Room/Area

P4. PPE Requirements

P5. Container-Labeling Requirements

___ RCRA	___ PCB	___ DET PCB (<50ppm & source <50ppm)	___ RAD	___ DOE
___ FISSILE	___ NCS EXEMPT	___ RD CONFIDENTIAL	___ ACID	___ USEC
___ FLAMMABLE	___ COMBUSTIBLE	___ OXIDIZER	___ BASE	___ WESKEM
___ ASBESTOS	___ REACTIVE	___ TRANSURANIC	___ NON-HAZ	

P6. Additional Handling Instructions

Verify Labeling, Barcode, and Zone.

Reference FWR

Origin Date

~~PCB Start Date~~

RCRA Start Date

P7. Waste Coordinator (Issued By	Badge	Date	P8. Disposal/Storage Completed By	Badge	Date
Eric Kimmins	703681	8-6-01	RL Allcock	15778	8-6-01

P9. Field Supervisor	Badge	Date	P10. Data Processing Completed By	Badge	Date
D.A. Wade	11357	8/6/01	Chris Walker		8-10-01

P11. Waste Item Information

Waste Item No. RFD110426-01

Container No. (Barcode) DMSA0110437

Weight App 1000 lbs

Location and Grid Zone 2 C-335-04

Container Size 96 Cuft

P12. Operator Comments

BJCF-515a (03/01)

DMSA

received 8-9-01

DOE Material Storage Area (DMSA) Item - ***NCS*** Characterization Form

ITEM	INITIAL CHARACTERIZATION	ANALYTICAL CHARACTERIZATION: ^{235}U Assay Analysis	^{235}U Mass Analysis	Subcritical Mass Limits	NDA Radiation surveys	NCS CLASSIFICATION
RFD = 110426 Description B-25 Box Independent Confirmations: Individual #1: [illegible] Date 08-06-01 Individual #2: HCAnderson Date 8-3-01	Historical Documentation: ____ Process Knowledge: ____	Sample A: __ % ^{235}U __ 1 sigma (% ^{235}U) __ 2 sigma (% ^{235}U) __ Total (^{235}U + 2 sigma)	Sample A: __ g ^{235}U Sample B: __ g ^{235}U	__ kg ^{235}U __ Moderated Limits __ Hydrated Limits	Sample A: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: __ % ^{235}U Mass: __ g ^{235}U Submitted By: ____ Date:	Initial Classification: ✓ NCS-Exempt __ Spacing-Controlled __ Singularly-Contingent DMSA Inspector: HCAnderson Date: 8-3-01 NDA Expert: NA (if NDA is performed) Date: ____ Independent Verifications: Person #1: ____ Date: ____ Person #2: ____ Date: ____
Other Information: Bldg Col ____ DMSA = C-335-04 Origin: [illegible]	Visual Inspections Completed: __ External Surfaces Inspection __ Internal Surfaces Inspection Completed By: ____ N/A	Sample B: __ % ^{235}U __ 1 sigma (% ^{235}U) __ 2 sigma (% ^{235}U) __ Total (^{235}U + 2 sigma)		N/A	Sample B: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: __ % ^{235}U Mass: __ g ^{235}U Submitted By: ____ Date: ____	Reclassification: (if needed) __ NCS-Exempt __ Spacing-Controlled __ Singularly-Contingent DMSA Inspector: ____ Date: ____ NDA Expert: ____ (if NDA is performed) Date: N/A Independent Verifications: Person #1: ____ Date: ____ Person #2: ____ Date: ____

Comments: NCS-EXEMPT BY PREVIOUS CHARACTERIZATION (DMSA# 335-04-094.)
REFER TO ATTACHED SHEETS FOR DETAILED INFORMATION

Approved to Relocate: To ____
Non is required. Item does not contain Singularly-Contingent mass.
NDA Expert #: ____
Date: ____

I have Independently confirmed the **identification and description** for this NCS-Exempt or Spacing-Controlled Item against the written **instructions and find this information to match.**
Independent Person #1: ____
Date: ____
Independent Person #2: ____
Date: ____

I have independently **confirmed the destination** for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this ***information to match.***
Independent Person #1: ____
Date: ____
Independent Person #2: ____
Date: ____

110426

Rev. 3 (10/2000)

DMSA - Characterization Form

COPY

Item Number: DMSA-335-04-094 Building: 335 DMSA #: 335-04

Item Description: B-25 Box

JUN 13 2000

Origin: PGDP Owner Status: DOE Capital Equipment ID: N/A

Analytical Data

Initial Characterization

Operating History

- No NCS Concerns (Not Process Equipment)
- Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- X Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Assay

- Sample Request and Receipt Form Issued
- Assay Smear Samples Complete
- Independent Verification of Assay form completed and attached.

Assay wt% U-235: 0

Mass

- NDA Requested
- NDA Complete

Sample A:

Used: 0

Pounds U: 0

U-235 (g): 0

Sample B:

Assay Used: 0

Pounds U: 0

U-235(g): 0

NCS Classification

- X NCS-Exempt
- LS
- UH
- PEH

Characterization Completed By:

Name: [illegible]

Badge #: 662505

Date: 6-13-00

- RCRA or TSCA Issues Identified

Comments:

- Item relocated

New Location: Building:

DMSA #:

110426

6-14-00

10. ITEM/CONTAINER				DOCUMENT ID NUMBER
1 OF 1				110426
11. WASTE ITEM ID NO.	12. ORIGIN DATE	13. RCRA ACCUMULATION START DATE		14. PCB DATE TO STORAGE
110426-01	8-1-01			

15. WASTE MATERIAL PLACED IN (Or Removed From) CONTAINER	16. QUANTITY	17. DEPOSITOR INITIAL	17. DEPOSITOR DATE	18. COMMENTS (If Waste is removed from container, then final disposition must be noted.)
B-25 Box	1	LA	8-1-01	DMSA-335-04-094 Zone 2
				See Attached Original Log Sheet.
				Removed 7 Light Bulbs From Box (DMSA-335-04-094) And RFD-110477-01 And Placed Em TO Collection Container (RFD-110107-01) AT C-752-A

19. CONTAINER ID NO. (Barcode)	110 ABSORBENT MATERIALS? QUANTITY TYPE	111. NMC&A FORM	112. EST. NET VOLUME	113. UNITS
DMSA010437	[ ] YES [X] NO		86 FT3	
114. GROSS WEIGHT	115. UNITS	116. INNER CONTAINER TYPE	117. OUTER CONTAINER TYPE	118. TANK SEAL NUMBER
2,000 LBS# EST.				

119. CONTAINER GENERATOR SIGNATURE: [signature] DATE: 8-1-01

UCN-20700 PAGE 2

LOW-LEVEL RADIOACTIVE WASTE

ATTACHMENT A

DOCUMENT ID NUMBER: 110426

PROHIBITED ITEMS

A1. PYROPHORIC MATERIALS -OTHER THAN RADIOACTIVE FORMS OF ISOTOPES	A2. ACTIVE CHELATING AGENTS	A3. TRU RADIOISOTOPES >100 nCi/g	A4. EXPLOSIVE MATERIALS
☐ YES ☑ NO	☐ YES	☐ YES ☑ NO	☐ YES ☑ NO

A5. ETILOGICAL AGENTS	A6. IGNITION SOURCES	A7. FREE LIQUIDS (Unless Wastewater)	A8. RCRA WASTE	A9. TSCA WASTE
☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO

A10. WASTE VARIANCE REQUEST NUMBER(S)

ADDITIONAL WASTE CHARACTERISTICS

A11. CHELATING AGENTS	A12. ION EXCHANGE RESINS	A13. DETECTABLE PCB (Concen. And Source <50 ppm) CONC.	A14. WASTEWATER
☐ YES	☐ YES	☐ YES ☑ NO ppm	☐ YES ☑ NO

RADIOISOTOPE DETERMINATION METHOD

DOCUMENT TYPE	DOCUMENT NUMBER
R1. ANALYSIS SAMPLE ID NO.	
R2. ;ESS ;GE FORM NO.	0210

R3. FISSILE CONTENT (Wt% U-235)	R4. GRAMS U-235	R5. NCS EXEMPT	R5. CHEMICAL FORM
		☑ YES ☐ NO	

OTHER SAMPLE ANALYSIS

DOCUMENT TYPE	DOCUMENT NUMBER
O1. ANALYSIS SAMPLE ID NO.	
O2. PROCESS KNOWLEDGE FORM NO.	

RADIATION DATA FROM HEALTH PHYSICS SURVEY SURFACE CONTAMINATION (Data Supplied by HP)

R7. HP SURVEY REQUIRED

] ☐ NO

R8. TRANSFERABLE (Alpha) dpm/100cm2	19. FIXED (Alpha) dpm/100cm2
R10. TRANSFERABLE (Beta/Gamma) dpm/100cm2	R11. FIXED (Beta/Gamma) dpm/100cm2
R12. EXTERNAL DOSE/PACKAGE CONTACT MREM/HR	R13. DOSE RATE MREM/HR @ METERS (B/G)
R14. HP SIGNATURE	R15. SURVEY NUMBER

3

Generator Name:

3FD No.: DMSA 335-04-094

Building/Area: C-335

Storage Location: C-335

Container Type/ID No.: DMSA 335-04-094

4

BAG/ITEM NO.	WASTE MATERIAL		GSA/BLDG No:	SOURCE	PCB ppm	INITIAL	DATE	WEIGHT
089	Coil	OK	C335	CCZ		HT	5/22/00	
051	Cabinet Door	OK						
052	" "	OK						
053	Metal Cabinet	OK						
054	" "	OK						
[illegible]	Wall Divider	OK						
057	Mini Hole Covers	OK						
092	Valve	OK						
079	Coupling	OK						
025	Coupling	OK						
026	Coupling	OK						

Source Code: C - Contamination Area CCZ - Contamination Control Zone

DEPOSITOR'S INITIALS CERTIFY THAT MATERIAL IS PROPERLY DESCRIBED; ALL EQUIPMENT CONTAINING LIQUIDS, REFRIGERANT, AND HAZARDOUS COMPONENTS HAVE BEEN PROPERLY MANAGED; AND ALL PROCEDURAL REQUIREMENTS HAVE BEEN MET.

DMMT
10-1996

CP-20300 (11-1-96)

DMSA - Characterization Form

Item Number: DMSA-335-04-025 Building: 335 DMSA #: 335-04

Item Description: Freon Pump

Origin: Pump Owner Status: NA Capital Equipment ID: NA

Initial Characterization

Operating History

- X No NCS Concerns (Not Process Equipment)
- Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached,

Analytical Data

Assay Assumed: 0

Sample Request and Receipt Form Issued

Assay Smear Samples Complete

Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0

NA

Mass

NDA Requested

NDA Complete

Sample A:

Assay Used: 0

Pounds U: 0

U-235 (g): 0

Sample B:

Pounds U: 0

U-235 (g): 0

NA

NCS Classification

X NCS-Exempt

NCS-Exempt

UH

PEH

Characterization Completed By:

Name: CWalk

Badge #: 662505

RCRA or TSCA Issues Identified

Comments: NA

Item relocated NA

New Location: Building: 335-04-094 B25

DMSA #: 335-04-095 B25

NMC&A Exempt
No visible Uranium

ENTERED 3-10-00

DMSA - Chara .zation Form

(COPY)

Item . .mber: DMSA-335-04-026 Building: 335 DMSA #: 335-04

MAR 1 0 ENT'D

Item Description: Freon Pump

Origin: PGDP Owner Status: ~~NON-DOE~~ NA DOE Capital Equipment ID: NA

Initial Characterization

Operating History

- Process Equipment)
- Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Analytical Data

Assay

- ☐ Assay Assumed: 0
- ☐ Sample Request and Receipt Form Issued
- ☐ Assay Smear Samples Complete
- ☐ Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0

Mass

- ☐ NDA Requested
- ☐ NDA Complete

Sample A:

Assay Used: 0

Pounds U: 0

U-235 (g): 0

Sample B:

Assay Used: NA

Pounds U:

U-235(g): 0

NCS Classification

- ☒ NCS-Exempt
- ☐ LS
- ☐ UH
- ☐ PEH

Characterization Completed By:

Name: [illegible]

Badge #: 662505

Date: 3-8-00

RCRA or TSCA Issues Identified

Comments: NA

New Location: Building: 335-04-094 B25

DMSA #: 335-04-095 B25

NMC&A Exempt
No visible Uranium

[illegible] 3-10-00

104 26

ENTERED 3-10-00

Date Printed: Monday, February 21, 2000

COPY

DMSA - Chara zation Form

Item Number: DMSA-335-04-051 Building: 335 DMSA #: 335-04

Item Description: Metal Panel - In Cardboard Box

Origin: PGDP Owner Status: DOE Capital Equipment ID: N/A

Initial Characterization

Operating History

- [x] No NCS Concerns (Not Process Equipment)
- [ ] Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- [ ] Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Analytical Data

Assay

- [ ] Assay Assumed: 0
- [ ] Sample Request and Receipt Form Issued
- [ ] Assay Smear Samples Complete
- [ ] Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0

N/A

Mass

- [ ] NDA Requested
- [ ] NDA Complete

Sample A:

Assay Used: 0
Pounds U: 0
U-235 (g): 0

Sample B:

Assay Used: 0
Pounds U: 0
U-235(g): 0

N/A

NCS Classification

- [x] NCS-Exempt
- [ ] LS
- [ ] UH
- [ ] PEH

Characterization Completed By:

Name: [illegible]
Badge #: 662505
Date: 3-9-00

- [ ] RCRA or TSCA Issues Identified

Comments:

N/A

- [x] Item relocated N/A

New Location: Building: 335-04-094 B25
DMSA #:

NMC&A Exempt
No visible Uranium

[illegible] 3-10-00

110426

ENTERED 3-14-00

Date Printed: Monday, February 21, 2000

MAR 1 3 2000

COPY

DMSA - Characterization Form

Item Number: DMSA-335-04-052 Building: 335 DMSA #: 335-04

Item Description: Metal Panel w/ Particleboard Back

Origin: PGDP Owner Status: DOE Capital Equipment ID: N/A

Analytical Data

Initial Characterization

Operating History

- [x] No NCS Concerns (Not Process Equipment)
- [ ] Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- [ ] Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Assay

- [ ] Assay Assumed: 0
- [ ] Sample Request and Receipt Form
- [ ] Assay Smear Samples Complete
- [ ] Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0

N/A

Mass

- [ ] NDA Requested
- [ ] NDA Complete

Sample A:

Assay Used: 0

Pounds U: 0

U-235 (g): 0

Sample B:

Assay Used: 0

Pounds U: 0

U-235(g): 0

N/A

N/A

NCS Classification

- [x] NCS-Exempt
- [ ] LS
- [ ] UH
- [ ] PEH

Characterization Completed By:

Name: [illegible]

Badge #: 66253

Date: 3-9-00

- [ ] RCRA or TSCA issues Identified

Comments:

N/A

- [x] Item relocated

New Location: Building: 335-04-094B25

DMSA #:

NMC&A Exempt
No visible Uranium

Cyl 3-10-00

11042 ENTERED 3-14-00

Date Printed: Monday, February 21, 2000

DMSA - Characterization Form

(COPY)

Item Number: ~~DMSA-335-04-053~~ Building: 1335 DMSA #: 335-04

Item Description: Electrical Component Box

Origin: DOE Owner Status: DOE Capital Equipment ID: N/A

Initial Characterization

Operating History

- [X] No NCS Concerns (Not Process Equipment)
- [ ] Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- [ ] Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Analytical Data

Assay

- [ ] Assay Assumed: 0
- [ ] Sample Request and Receipt Form Issued
- [ ] Assay Smear Samples Complete
- [ ] Independent Verification of Assay form completed and attached.

Assay wt% U-235: 0

NA

Mass

- [ ] NDA Requested
- [ ] NDA Complete

Sample A:

Assay Used: 0
Pounds U: 0
U-235 (g): 0

Sample B:

Assay Used: 0
Pounds U: 0
U-235(g): 0

NA

NCS Classification

- [X] NCS-Exempt
- [ ] LS
- [ ] UH
- [ ] PEH

Characterization Completed By:

Name: Cardwell
Badge #: 662505
Date: 3-9-00

- [ ] RCRA or TSCA Issues Identified

Comments:

NA

- [X] Item relocated N/A

New Location: Building: 335-04-094 325
~~DMSA #:~~

NMC&A Exempt
No visible Uranium

3-10-00

ENTERED 3-14-00

Date Printed: Monday, February 21, 2000

MAR 1 3 ENTD

DMSA - Chara .zation Form

Item Number: DMSA-335-04-054 Building: 335 DMSA #: 335-04

Item Description: Electrical Component Box

Origin: Plant Owner Status: DOE Capital Equipment ID: N/A

Initial Characterization

☒ No NCS Concerns (Not Process Equipment)

☐ Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

☐ Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Analytical Data

Assay

☐ Assay Assumed: 0

☐ Sample Request and Receipt Form Issued

☐ Assay Smear Samples Complete

☐ Independent Verification of Assay form completed and attached

Assay wt%U-235: 0

N A

Mass

☐ NDA Requested

☐ NDA Complete

Sample A:

Assay Used: 0

Pounds U: 0

U-235 (g): 0

Sample B:

Assay Used: 0

Pounds U: 0

U-235(g): 0

N A

NCS Classification

☒ NCS-Exempt

☐ LS

☐ UH

☐ PEH

Characterization Completed By:

Name: [illegible]

Badge #: 662305

Date: 3-9-00

☐ RCRA or TSCA Issues Identified

Comments:

N A

☑ Item relocated N A

New Location: Building: 335-04-094 B25

DMSA #:

NMC&A Exempt
No visible Uranium

[illegible] 3-10-00

11042

ENTERED 3-14-00

Date Printed: Monday, February 21, 2000

DMSA - Characterization Form

MAR 1 3 ENTD

(COPY)

Item Number: DMSA-335-04-057 Building: 335 DMSA #: 335-04

Item Description: 1 Pallet of Metal Hatch Plates - Bonded Asbestos

Origin: PGDP Owner Status: DOE Capital Equipment ID: N/A

Analytical Data

Initial Characterization

Operating History

- [X] No NCS Concerns (Not Process Equipment)
- [ ] Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- [ ] Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Assay

- [ ] Assay Assumed: 0
- [ ] Sample Request and Receipt Form Issued
- [ ] Assay Smear Samples Complete
- [ ] Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0

N/A

Mass

- [ ] NDA Requested
- [ ] NDA Complete

Sample A:

Assay Used: 0

Pounds U: 0

U-235 (g): 0

Sample B:

Assay Used: 0

Pounds U: 0

U-235(g): 0

N/A

NCS Classification

- [X] NCS-Exempt
- [ ] LS
- [ ] UH
- [ ] PEH

Characterization Completed By:

Name: [illegible]

Badge #: 662505

Date: 3-9-00

- [ ] RCRA or TSCA Issues Identified

Comments:

N/A

- [X] Item relocated N/A

New Location: Building: 335-04-094 B25

DMSA #:

NMC&A Exempt
No visible Uranium

[illegible] 3-10-00

114026

ENTERED 3-14-00

Date Printed: Monday, February 21, 2000

COP

DMSA - Characterization Form

Item Number: DMSA-335-04-079 Building: 335 DMSA #: 335-04

Item Description: 3" Freon Pipe stub & Flange

Origin: PG-DP Owner Status: DOE Capital Equipment ID: NA

Initial Characterization

Operating History

- [x] No NCS Concerns (Not Process Equipment)
- [ ] Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- [ ] Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Analytical Data

Assay

- [ ] Assay Assumed: 0
- [ ] Sample Request and Receipt Form Issued
- [ ] Assay Smear Samples Complete
- [ ] Independent Verification of Assay form completed and attached.

Assay wt% U-235: 0

NA

Mass

- [ ] NDA Requested
- [ ] NDA Complete

Sample A:

Assay Used: 0
Pounds U: 0
U-235 (g): 0

Sample B:

Assay Used: 0
Pounds U: 0
U-235(g): 0

NA

NCS Classification

- [x] NCS-Exempt
- [ ] LS
- [ ] UH
- [ ] PEH

Characterization Completed By:

Name: Cervalli
Badge #: 662503
Date: 3-13-00

- [ ] RCRA or TSCA Issues Identified

Comments:

NA

- [x] Item relocated NA

New Location: Building: 335-04-014 B25
DMSA #:

11/04/26

ENTERED 3-14-00

Date Printed: Monday, February 21, 2000

(COPY)

DMSA - Characterization Form

Item Number: DMSA-335-04-081 Building: 335 DMSA #: 335-04

Item Description: Office Partition (Heavy)

Origin: PGDP Owner Status: DOE Capital Equipment ID: N/A

Analytical Data

Initial Characterization	Assay	Mass	NCS Classification
Operating History X No NCS Concerns (Not Process Equipment) Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached. Visual Inspection ☐ Independent Verification Form (verifying visual [illegible] uranium contamination) is completed and attached.	☐ Sample Request and Receipt Form Issued ☐ Assay Smear Samples Complete ☐ Independent Verification of Assay form completed and attached. Assay wt% U-235: 0	☐ Requested ☐ NDA Complete Sample A: Assay Used: 0 Pounds U: 0 U-235 (g): 0 Sample B: Assay Used: 0 Pounds U: 0 U-235(g): 0	X NCS-Exempt ☐ LS ☐ UH ☐ PEH Characterization Completed By: Name: [illegible] Badge #: 66250S Date: 3-13-00

N/A N/A

☐ RCRA or TSCA Issues Identified

Comments:

N/A

☑ Item relocated N/A

New Location: Building: 335-04-094B25
DMSA #:

11-04-26

CONTAMINATED 3-14-00

Date Printed: Monday, February 21, 2000

COPY

DMSA - Charac tation Form

Item Number: DMSA-335-04-089 Building: 335 DMSA #: 335-04

Item Description: Coupling Flange

Origin: PGDP Owner Status: DOE Capital Equipment ID: N/A

Initial Characterization

Operating History

- [x] No NCS Concerns (Not Process Equipment)
- [ ] Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- [ ] Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Analytical Data

Assay

- [ ] Assay Assumed: 0
- [ ] Sample Request and Receipt Form
- [ ] Assay Smear Samples Complete
- [ ] Independent Verification of Assay form completed and attached.

N/A

Mass

- [ ] NDA Requested
- [ ] NDA Complete

Sample A:

Assay Used: 0
Pounds U: 0
U-235 (g): 0

Sample B:

Assay Used: 0
Pounds U: 0
U-235(g): 0

N/A

NCS Classification

- [x] NCS-Exempt
- [ ] LS
- [ ] UH
- [ ] PEH

Characterization Completed By:

Name: [illegible]
Badge #: 622505
Date: 3-13-00

- [ ] RCRA or TSCA Issues Identified

Comments:

N/A

- [x] Item relocated N/A

New Location: Building: 335-04-094 B25
DMSA #:

110426

ENTERED 3-14-00

Date Printed: Monday, February 21, 2000

T DM-029 5-17-00

(CC,

DMSA - Chara zation Form

Item Number: DMSA-335-04-092 Building: 335 DMSA #: 335-04

JUN 2 3 2000

Item Description: 4" air operated ball Valve

Origin: GDP Owner Status: DoE Capital Equipment ID: N/A

*Analytical Data

Initial Characterization

Operating Historv

- No NCS Concerns (Not Process Equipment)
- Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

X orm (verifying visual inspection detecred no visible uranium contamination) is completed and attached.

Assay

- Assay Assumed: 0
- Sample Request and Receipt Form Issued
- Assay Smear Samples Complete
- Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0

N.A.

Mass

- NDA Requested
- NDA Complete

Sample A:

Assay Used: 0

U-235 (g): 0

Sample B:

Assay Used: 0

Pounds U: 0

U-235(g): 0

N.A.

NCS Classification

- X NCS-Exempt
- LS
- UH
- PEH

Characterization Completed By:

Name:

Badge #: 31323

Date: 6-22-00

RCRA or TSCA Issues Identified

Comments:

Item relocated

New Location: Building: DMSA-335-04-094 B25

DMSA #:

110426

ENTERED 6-23-00

Date Printed: Monday, February 21, 2000

DOE

LLW

RFD

Request For Disposal

Document ID Number
110427

Generation Process Information (Completed by Generator)

W1. Generator's Name (Print)	W2. Badge No.	W3. Generator's Phone No.	W3. Mail Stop	W5. Charge No. / WO
Bill Hogan	704284	441-5131	C-743 T-1	

W6. Generator's Company	W7. Corp Owner	W8. Origin Site	W9. Origin Facility	W10. Origin Area	W11. Rad Area?
Weskem	DOE	PGDP	C-335	C-335-04	☑ Yes ☐ No

W12. Number of Items	W13. Process Category (GCC)	W14. Process Activity Code	W15. AWA Number	W16. Physical Form
1	LEG	A93	N/A	SOLID

W17. Material Type(s)	W18. Holding Site	W19. Holding Facility	W20. Holding Area	W21 RFD Attachment
MT 007	PGDP	C-335	C-335-04	☑ A ☐ B ☐ C

Waste Subcategories (Check all that apply)

	Yes	No		Yes	No		Yes	No		Yes	No
W22. Biological		✓	W25. Const. Debris		✓	W28. Non-Friable Asbestos		✓	W31. DMSA	✓	
W23. Accountable		✓	W26. Classified		✓	W29. TRU Waste		✓			
W24. Carcinogen		✓	W27. Friable Asbestos		✓	W30. CERCLA		✓			

Waste Description / Comments

W32. DMSA 335-04-061 12" G-17 Valve with Motor operator

B.C.-DMSA 0110419 Zone 1

This is to certify that the above named material is properly described and in the stated container, which is in good condition, marked with the RFD number, content, appropriate generation date, source location, and at the stated location.

W33. Generation Plan No.	W34. Generator's Signature	Date
	Bill Hogan	8-6-01

Handling / Pickup Information (Completed by Waste Management)

P1. Pick-up Site	P2. Pick-up Facility	P3. Pick-up Room/Area

P4. PPE Requirements

P5. Container-Labeling Requirements

___ RCRA	___ PCB	___ DET PCB (<50ppm & source <50ppm)	___ RAD	___ DOE
___ FISSILE	___ NCS EXEMPT	___ RD CONFIDENTIAL	___ ACID	___ USEC
___ FLAMMABLE	___ COMBUSTIBLE	___ OXIDIZER	___ BASE	___ WESKEM
___ ASBESTOS	___ REACTIVE	___ TRANSURANIC	___ NON-HAZ	

P6. Additional Handling Instructions

Verify labeling, barcode & zone.

Reference FWR

Origin Date

PCB Start Date

RCRA Start Date

P7. Waste Coordinator (Issued By)	Badge	Date	P8. Disposal/Storage Completed By	Badge	Date
Bill Hogan	704284	8-6-01	RL Allcock	15178	8-6-01

P9. Field Supervisor	Badge	Date	P10. Data Processing Completed By	Badge	Date
D A Wade	11357	8/6/01	Chy Walker		8-10-01

P11. Waste Item Information

Waste Item No. RFD 110427-01

Container No. (Barcode) DMSA 0110419

Weight APP 1200 lbs 2-15-02

Location and Grid ZONE 1 C-335-04

Container Size APP 10CUFT

P12. Operator Comments

BJCF-515a (03/01)

DMSA

received 8-9-01

LOW-LEVEL RADIOACTIVE WASTE

ATTACHMENT A

DOCUMENT ID NUMBER

110427

PROHIBITED ITEMS

A1. F -OTHER THAN RADIOACTIVE FORMS OF ISOTOPES	...GENTS	A3. TRU RADIOISOTOPES>100 nCi/g	A4. EXPLOSIVE MATERIALS
☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES

A5. ETILOGICAL AGENTS	A6. IGNITION SOURCES	A7. FREE LIQUIDS (Unless Wastewater)	A8. RCRA WASTE	A9. TSCA WASTE
☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO

A10. WASTE VARIANCE REQUEST NUMBER(S)

ADDITIONAL WASTE CHARACTERISTICS

A11. CHELATING AGENTS	A12. ION EXCHANGE RESINS	A13. DETECTABLE PCB (Concen. And Source <50 ppm) CONC.	A14. WASTEWATER
☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO ppm	☐ YES ☑ NO

RADIOISOTOPE DETERMINATION METHOD

DOCUMENT TYPE	DOCUMENT NUMBER
R1. ANALYSIS SAMPLE ID NO.	
R2. PROCESS KNOWLEDGE FORM NO.	0210

R3. FISSILE CONTENT (Wt% U-235)	R4. GRAMS U-235	R5. NCS EXEMPT	R5. CHEMICAL FORM
		☑ YES ☐ NO	

OTHER SAMPLE ANALYSIS

DOCUMENT TYPE	DOCUMENT NUMBER
O1. ANALYSIS SAMPLE ID NO.	
02. PROCESS KNOWLEDGE FORM NO.	

RADIATION DATA FROM HEALTH PHYSICS SURVEY SURFACE CONTAMINATION (Data Supplied by HP)

R7. HP SURVEY REQUIRED

☐ YES ☐ NO

R8. TRANSFERABLE (Alpha) dpm/100cm2	R9. FIXED (Alpha) dpm/100cm2
R10. TRANSFERABLE (Beta/Gamma) dpm/100cm2	R11. FIXED (Beta/Gamma) dpm/100cm2
R12. EXTERNAL DOSUPACKAGE CONTACT MREM/HR	R13. DOSE RATE MREMMR @ METERS (B/G)
R14. HP SIGNATURE	R15. SURVEY NUMBER

WASTE ITEM CONTAINER LOG

10. ITEM/CONTAINER	DOCUMENT ID NUMBER
1 OF 1	110427

11 WASTE ITEM ID NO	12 ORIGIN DATE	13 ACAA ACCUMULATION START DATE	14 PCB DATE TO STORAGE
110427-01	8-6-01	—	—

15. WASTE MATERIAL PLACED IN (Or Removed From) CONTAINER	16. QUANTITY	17. DEPOSITOR INITIAL	17. DEPOSITOR DATE	18. COMMENTS (If Waste is removed from container, then final disposition must be noted.)
12" G-17 Valve w/ motor operator	1	BH.	8-6-01	DMSA 335-04-061 Zone 1

19. CONTAINER ID NO. (Barcode)	110. ABSORBENT MATERIALS? QUANTITY TYPE	111 NMC&A FORM	112. EST. NET VOLUME	113 UNITS
DMSA 0110419	[ ] YES [✓] NO		10 ft³	

114 GROSS WEIGHT	115. UNITS	116. INNER CONTAINER TYPE	117 OUTER CONTAINER TYPE	118 TANK SEAL NUMBER
800 lbs (est.)				

119. CONTAINER GENERATOR SIGNATURE	DATE
Bill Hogan	8-6-01

DOE Material Storage Area (DMSA) Item - NCS Characterization Form

ITEM	INITIAL CHARACTERIZATION	ANALYTICAL CHARACTERIZATION: ^{235}U Assay Analysis	^{235}U Mass Analysis	Subcritical Mats Llmltt	NDA Radiation Surveys	NCS CLASSIFICATION
RFD = 110427 Description: 12" 6-17 VALVE (FLANGED) WITH motor OPERATOR Independent Confirmations: Individual #1: [illegible] Date: [illegible] Individual #2: HCAnderson Date: 5-7-01 Other Information: Bldg Col: C-335 C-33 DMSA = C-335-04 Origin: N/A	Historical Documentation: Process Knowledge: Visual Inspections Completed: ____ External Surfaces Inspection ____ Internal Surfaces Inspection Completed By: Date: N/A	Sample A: __ % ^{235}U __ 1 sigma (% ^{235}U) __ 2 sigma (% ^{235}U) __ Total (^{235}U + 2 sigma) Sample B: __ % ^{235}U __ 1 sigma (% ^{235}U) __ 2 sigma (% ^{235}U) __ Total (^{235}U + 2 sigma)	Sample A: ____ g ^{235}U Sample B: ____ g ^{235}U	____ kg ^{235}U ____ Moderated Limits ____ Hydrated Limits N/A	Sample A: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: ____ % ^{235}U Mass: ____ g ^{235}U Submitted By: Date: Sample B: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: ____ % ^{235}U Mass: ____ g ^{235}U Submitted By: Date:	Initial Classification: ✓ NCS-Exempt ____ Spacing-Controlled ____ Singularly-Contingent DMSA Inspector: HCAnderson Date: 5-7-01 NDA Expert: (if NDA is performed) Date: Independent Verifications: Person #1: Date: Person #2: Date: Reclassification (if needed): ____ NCS-Exempt ____ Spacing-Controlled ____ Singularly-Contingent DMSA Inspector: Date: NDA Expert: (if NDA is performed) Date: N/A Independent Verifications: Person #1: Date: Person #2: Date:

Comments: NCS-EXEMPT BY PREVIOUS CHARACTERIZATION (DMSA# 335-04-061)
REFER TO ATTACHED SHEETS FOR DETAILED INFORMATION

Approved to Relocate: To
Further NCS characterization is required. Item does not contain Singularly-Contingent mass.

NDA Expert #1:
Date:
NDA Expert #2: N/A
Date:

I have independently confirmed the identification and description for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match.

Independent Person #1:
Date:
Independent Person #2:
Date:

I have independently confirmed the destination for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match.

Independent Person #1:
Date:
Independent Person U2:
Date:

Rev. 3 (10/2000)

110427

DMSA - Charac[illegible]ization Form

MAY 2 4 2000

Item Number: DMSA-335-04-061 Building: 335 DMSA #: 335-04

Item Description: 12" [illegible] - 17 Valve (Flanged) with Motor operator

Origin: [illegible] Owner Status: [illegible] Capital Equipment ID: NA

X Analytical Data

Initial Characterization

Operating History

No NCS Concerns (Not Process Equipment)

Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached

Visual Inspection

X Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Assay

Assay Assumed: 0

X Sample Reques and Receipt Form Issued

Assay Smear Samples Complete

Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0

N/A

Mass

NDA Requested

NDA Complete

Sample A:

Assay Used: 0

Pounds U: 0

U-235 (g): 0

Sample B:

Assay Used: 0

Pounds U: 0

U-235(g): 0

N/A

NCS Classification

X NCS-Exempt

- LS
- UH
- PEH

Characterization Completed By:

Name: J P Miller

Badge #: 60999

Date: 5-23-00

RCRA or TSCA Issues Identified

NA

Comments:

Item relocated

New Location: Building:

DMSA #:

7-31-01 HCA

110427

5-25-00

Date Printed: Monday, February 21, 2000

DOE

RFD

LLW

Request For Disposal

Document ID Number 110428

Generation Process Information (Completed by Generator)

W1. Generator's Name (Print)	W2. Badge No.	W3. Generator's Phone No.	W3. Mail Stop	W5. Charge No. / WO
Eric Kimmins	703681	441-5140	C-743-T1	

W6. Generator's Company	W7. Corp Owner	W8. Origin Site	W9. Origin Facility	W10. Origin Area	W11. Rad Area?
WESKEM	DOE	PGDP	C-335	C-335-04	☑ Yes ☐ No

W12. Number of Items	W13. Process Category (GCC)	W14. Process Activity Code	W15. AWA Number	W16. Physical Form
1	LEG	A93	—	SOLID

W17. Material Type(s)	W18. Holding Site	W19. Holding Facility	W20. Holding Area	W21 RFD Attachment
MT007	PGDP	C-335	C-335-04	☑ A ☐ B ☐ C

Waste Subcategories (Check all that apply)

	Yes	No		Yes	No		Yes	No		Yes	No
W22. Biological		✓	W25. Const. Debris		✓	W28. Non-Friable Asbestos		✓	W31. DMSA	✓	
W23. Accountable		✓	W26. Classified		✓	W29. TRU Waste		✓			
W24. Carcinogen		✓	W27. Friable Asbestos		✓	W30. CERCLA		✓			

Waste Description / Comments

W32. DMSA-335-04-063; 12" 6-17 Valve w/ motor operator

BC. DMSA0110418 Zone I

This is to certify that the above named material is properly described and in the stated container, which is in good condition, marked with the RFD number, content, appropriate generation date, source location, and at the stated location.

W33. Generation Plan No.	W34. Generator's Signature	Date
	Eric Kimmins	8-6-01

Handling / Pickup Information (Completed by Waste Management)

P1. Pick-up Site	P2. Pick-up Facility	P3. Pick-up Room/Area

P4. PPE Requirements

P5. Container-Labeling Requirements

___ RCRA	___ PCB	___ DET PCB (<50ppm & source <50ppm)	___ RAD	___ DOE
___ FISSILE	___ NCS EXEMPT	___ RD CONFIDENTIAL	___ ACID	___ USEC
___ FLAMMABLE	___ COMBUSTIBLE	___ OXIDIZER	___ BASE	___ WESKEM
___ ASBESTOS	___ REACTIVE	___ TRANSURANIC	___ NON-HAZ	

P6. Additional Handling Instructions

Verify LAD clins, Barcode, and Zone.

Reference FWR

Origin Date

PCB Start Date

P7. Waste Coordinator (Issued By)	Badge	Date	P8. Disposal/Storage Completed By	Badge	
Eric Kimmins	703681	8-6-01	R. Hillcock	15178	
P9. Field Supervisor	**Badge**	**Date**	**P10. Data Processing Completed By**	**Badge**	**Date**
D.A. Wade	11357	8/6/01	Chris Walker		8-10-01

RFD110428-01

Container No. (Barcode) DMSA0110418

Weight ~~Alt Wt 1,200 lbs~~ 8-15-01 750 lbs

Location and Grid Zone #1 C-335-04

Container Size ~~Alt~~ 10 cu ft

BJCF-515a (03/01)

DMSA

received 8-9-01 GW

LOW-LEVEL RADIOACTIVE WASTE

ATTACHMENT A

DOCUMENT ID NUMBER 110428

PROHIBITED ITEMS

A1. PYROPHORIC MATERIALS -OTHER THAN RADIOACTIVE FORMS OF ISOTOPES	A2. ACTIVE CHELATING AGENTS	A3. TRU RADIOISOTOPES >100 nCi/g	A4. EXPLOSIVE MATERIALS
☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO

A5. ETILOGICAL AGENTS	A6. IGNITION SOURCES	A7. FREE LIQUIDS (Unless Wastewater)	A8. RCRA WASTE	A9. TSCA WASTE
☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO

A10. WASTE VARIANCE REQUEST NUMBER(S)

ADDITIONAL WASTE CHARACTERISTICS

A11. CHELATING AGENTS	A12. ION EXCHANGE RESINS	A13. DETECTABLE PCB (Concen. And Source <50 ppm)	A14. WASTEWATER
☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO CONC. ppm	☐ YES ☑ NO

RADIOISOTOPE DETERMINATION METHOD

DOCUMENT TYPE	DOCUMENT NUMBER
R1. ANALYSIS SAMPLE ID NO.	
R2. PROCESS KNOWLEDGE FORM NO.	9011

R3. FISSILE CONTENT (Wt% U-235)	R4. GRAMS U-235	R5. NCS EXEMPT	R6. CHEMICAL FORM
		☑ YES ☐ NO	

OTHER SAMPLE ANALYSIS

DOCUMENT TYPE	DOCUMENT NUMBER
O1. ANALYSIS SAMPLE ID NO.	
O2. PROCESS KNOWLEDGE FORM NO.	

RADIATION DATA FROM HEALTH PHYSICS SURVEY SURFACE CONTAMINATION (Data Supplied by HP)

☐ YES ☐ NO

R8. TRANSFERABLE (Alpha) dpm/100cm2	R9. FIXED (Alpha) dpm/100cm2
R10. TRANSFERABLE (Beta/Gamma) dpm/100cm2	R11. FIXED (Beta/Gamma) dpm/100cm2
R12. EXTERNAL DOSE/PACKAGE CONTACT MREM/HR	R13. DOSE RATE MREM/HR @ METERS (B/G)
R14. HP SIGNATURE	R15. SURVEY NUMBER

WASTE ITEM CONTAINER LOG

10. ITEM/CONTAINER	DOCUMENT ID NUMBER
1 OF 1	110428-01

11. WASTE ITEM ID NO.	12. ORIGIN DATE	13. RCRA ACCUMULATION START DATE	14. PCB DATE TO STORAGE
110428-01	8-6-01	—	—

15. WASTE MATERIAL PLACED IN (Or Removed From) CONTAINER	16. QUANTITY	17. DEPOSITOR INITIAL	17. DEPOSITOR DATE	18. COMMENTS (If Waste is removed from container, then final disposition must be noted.)
12" GATE Valve w/motor operator	1	EK	8-6-01	DMSA-335-04-063 zone 1

19. CONTAINER ID NO. (Barcode)	110 ABSORBENT MATERIALS? QUANTITY TYPE	111. NMC&A FORM	112. EST. NET VOLUME	113 UNITS
DMSA0110418	[ ] YES [X] NO		10 ft³	

114 GROSS WEIGHT	115. UNITS	116. INNER CONTAINER TYPE	117. OUTER CONTAINER TYPE	118. TANK SEAL NUMBER
800 LBS # SST.				

119. CONTAINER GENERATOR SIGNATURE	DATE
Eric Kinnell	8-6-01

DOE Material Storage Area (DMSA) Item - NCS Characterization Form

ITEM	INITIAL CHARACTERIZATION	ANALYTICAL CHARACTERIZATION				NCS CLASSIFICATION
		^{235}U Assay Analysis	^{235}U Mass Analysis	Subcritical Mass Limits	NDA Radiation Surveys	
RFD = 110428 Description 12" 6-17 VALVE (FLANGED) WITH MOTOR OPERATOR Independent Confirmations: Individual #1: [illegible] Date: 8-7-01 Individual #2: J K Anderson Date: 8-7-01 . . . . . . Other Information: Bldg. Col C-335 C-33 DMSA # C-335-04 Origin N/A	Historical Documentation: Process Knowledge: Visual Inspections Completed: ____ External Surfaces Inspection ____ Internal Surfaces Inspection Completed By: Date: N/A	Sample A: ___ % ^{235}U ___ 1 sigma (% ^{235}U) ___ 2 sigma (% ^{235}U) ___ Total (^{235}U + 2 sigma) Sample B: ___ % ^{235}U ___ 1 sigma (% ^{235}U) ___ 2 sigma (% ^{235}U) ___ Total (^{235}U + 2 sigma)	Sample A: ___ g ^{235}U Sample B: ___ g ^{235}U	___ kg ^{235}U ___ Moderated Limits ___ Hydrated Limits N/A	Sample A: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: ___ % ^{235}U Mass: ___ g ^{235}U Submitted By: Date: Sample B: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: ___ % ^{235}U Mass: ___ g ^{235}U Submitted By: Date:	Initial Classification: ✓ NCS-Exempt ___ Spacing-Controlled ___ Singularly-Contingent DMSA Inspector: J K Anderson Date: 8-7-01 NDA Expert: (if NDA is performed) Date: Independent Verifications: Person #1: Date: Person #2: Date: . . . . . . Reclassification: (if needed) ___ NCS-Exempt ___ Spacing-Controlled ___ Singularly-Contingent DMSA Inspector: Date: NDA Expert: (if NDA is performed) Date: N/A Independent Verifications: Person #1: Date: Person #2: Date:

Comments: NCS EXEMPT BY PREVIOUS CHARACTERIZATION (DMSA # 335-04-063)
REFER TO ATTACHED SHEETS FOR DETAILED INFORMATION

Approved to Relocate: To Further NCS characterization is required. Item does not contain Singularly-Contingent mass. NDA Expert #1: Date: NDA Expert #2: N/A Date:	I have independently confirmed the identification and description for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match. Independent Person #1: Date: Independent Person #2: Date:	I have independently confirmed the destination for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match. Independent Person #1: Date: Independent Person #2: Date:

Rev. 3 (10/2000)

110428

DMSA - Characterization Form

Item Mumber: DMSA-335-04-063 Building: 335 DMSA #: 335-04

MAY 24 2000

Item Description: 12" G-17 Molten Spinulose

Origin: GDP Owner Status: DOE Capital Equipment ID: NA

Analytical Data

Initial Characterization

Operating History

- No NCS Concerns (Not Process Equipment)
- Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- [x] Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Assay

- Assay Assumed: 0
- Sample Request and Receipt Form Issued
- Assay Smear Samples Complete
- Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0

N/A

Mass

- NDA Requested
- NDA Complete

Sample A:

Assay Used: 0

Pounds U: 0

U-235 (g): 0

Sample B:

Assay Used: 0

Pounds U: 0

U-235(g): 0

N/A

NCS Classification

- [x] NCS-Exempt
- LS
- UH
- PEH

Characterization Completed By:

Name: J. Muller

Badge #: 60999

Date: 5-23-00

RCRA or TSCA Issues Identified

Comments:

Item relocated

New Location: Building:

DMSA #:

7-31-01 MCH

ENTERED 5-25-00

110428

Date Printed: Monday, February 21, 2000

DOE

LLW

RFD

Document ID Number
110429

Request For Disposal

Generation Process Information (Completed by Generator)

W1. Generator's Name (Print)	W2. Badge No.	W3. Generator's Phone No.	W3. Mail Stop	W5. Charge No. / WO
Eric Kimmins	703681	441-5140	C-743-T1	-

W6. Generator's Company	W7. Corp Owner	W8. Origin Site	W9. Origin Facility	W10. Origin Area	W11. Rad Area?
WESREM	DOE	PGDP	C-335	C-335-04	☑ Yes ☐ No

W12. Number of Items	W13. Process Category (GCC)	W14. Process Activity Code	W15. AWA Number	W16. Physical Form
1	LEG	A93	-	SOLID

W17. Material Type(s)	W18. Holding Site	W19. Holding Facility	W20. Holding Area	W21 RFD Attachment
MT007	PGDP	C-335	C-335-04	☑ A ☐ B ☐ C

Waste Subcategories (Check all that apply)

	Yes	No		Yes	No		Yes	No		Yes	No
W22. Biological		✓	W25. Const. Debris		✓	W28. Non-Friable Asbestos		✓	W31. DMSA	✓	
W23. Accountable		✓	W26. Classified		✓	W29. TRU Waste		✓			
W24. Carcinogen		✓	W27. Friable Asbestos		✓	W30. CERCLA		✓			

Waste Description / Comments

W32. DMSA-335-04-062; 12" G-17 Valve w/ motor operator

BC - DMSA0110420 Zone 1

This is to certify that the above named material is properly described and in the stated container, which is in good condition, marked with the RFD number, content, appropriate generation date, source location, and at the stated location.

W33. Generation Plan No.	W34. Generator's Signature	Date
	Eric Kimmins	8-6-01

Handling / Pickup Information (Completed by Waste Management)

P1. Pick-up Site	P2. Pick-up Facility	P3. Pick-up Room/Area

P4. PPE Requirements

P5. Container-Labeling Requirements

___ RCRA	___ PCB	___ DET PCB (<50ppm & source <50ppm)	___ RAD	___ DOE
___ FISSILE	___ NCS EXEMPT	___ RD CONFIDENTIAL	___ ACID	___ USEC
___ FLAMMABLE	___ COMBUSTIBLE	___ OXIDIZER	___ BASE	___ WESKEM
___ ASBESTOS	___ REACTIVE	___ TRANSURANIC	___ NON-HAZ	

P6. Additional Handling Instructions

Verify LAPolins, Barcode, and Zone.

Reference FWR

Origin Date

PCB Start Date

RCRA Start Date

P7. Waste Coordinator (Issued By)	Badge	Date	P8. Disposal/Storage Completed By	Badge	Date
Eric Kimmins	703681	8-6-01	R. Allcock	15778	8-6-01

P9. Field Supervisor	Badge	Date	P10. Data Processing Completed By	Badge	Date
D A Wade	11357	8/6/01	Chy Kelly		8-10-01

P11. Waste Item Information

Waste Item No. RFD110429-01

Container No. (Barcode) DMS 01104 20

Weight APP ~~1200 lbs~~ 2-16-02 750 lbs

Location and Grid Zone #1 C-335-04

Container Size APP 10 cu ft.

P12. Operator Comments

BJCF-515a (03/01)

DMSA

received
8-9-01

LOW-LEVEL RADIOACTIVE WASTE

ATTACHMENT A

DOCUMENT ID NUMBER: 110429

PROHIBITED ITEMS

A1. PYROPHORIC MATERIALS -OTHER THAN RADIOACTIVE FORMS OF ISOTOPES	A2. ACTIVE CHELATING AGENTS	A3. TRU RADIOISOTOPES >100 nCi/g	A4. EXPLOSIVE MATERIALS
☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO

A5. ETILOGICAL AGENTS	A6. IGNITION SOURCES	A7. FREE LIQUIDS (Unless Wastewater)	A8. RCRA WASTE	A9. TSCA WASTE
☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO

A10. WASTE VARIANCE REQUEST NUMBER(S)

ADDITIONAL WASTE CHARACTERISTICS

A11. CHELATING AGENTS	A12. ION EXCHANGE RESINS	A13. DETECTABLE PCB (Concen. And Source <50 ppm)	CONC.	A14. WASTEWATER
☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	ppm	☐ YES ☑ NO

RADIOISOTOPE DETERMINATION METHOD

DOCUMENT TYPE	DOCUMENT NUMBER
R1. ANALYSIS SAMPLE ID NO.	
R2. PROCESS KNOWLEDGE FORM NO.	0210

R3. FISSILE CONTENT (Wt% U-235)	R4. GRAMS U-235	R5. NCS EXEMPT	R5. CHEMICAL FORM
-		☑ YES ☐ NO	-

OTHER SAMPLE ANALYSIS

DOCUMENT TYPE	DOCUMENT NUMBER
O1. ANALYSIS SAMPLE ID NO.	
O2. PROCESS KNOWLEDGE FORM NO.	

RADIATION DATA FROM HEALTH PHYSICS SURVEY SURFACE CONTAMINATION (Data Supplied by HP)

R7. HP SURVEY REQUIRED

☐ YES ☐ NO

R8. TRANSFERABLE (Alpha)	R9. FIXED (Alpha)
dpm/100cm2	dpm/100cm2
R10. TRANSFERABLE (Beta/Gamma)	R11. FIXED (Beta/Gamma)
dpm/100cm2	dpm/100cm2
R12. EXTERNAL OOSUPACKAGE CONTACT	R13. DOSE RATE
MREM/HR	MREM/HR @ METERS (B/G)
R14. HP SIGNATURE	R15. SURVEY NUMBER

WASTE ITEM CONTAINER LOG

10. ITEM/CONTAINER	DOCUMENT ID NUMBER
1 OF 1	110429

11. WASTE ITEM ID NO.	12. ORIGIN DATE	13. RCRA ACCUMULATION START DATE	14. PCB DATE TO STORAGE
110429-01	8-6-01	—	—

15. WASTE MATERIAL PLACED IN (Or Removed From) CONTAINER	16. QUANTITY	17. DEPOSITOR INITIAL	17. DEPOSITOR DATE	18. COMMENTS (If Waste is removed from container, then final disposition must be noted.)
12" G-17 Valve w/ motor operator	1	CR	8-6-01	DMSA.335.04.062 Zone 1

19. CONTAINER ID NO. (Barcode)	110 ABSORBENT MATERIALS? QUANTITY TYPE	111. NMC&A FORM	112. EST. NET VOLUME	113 UNITS
DMSA0110420	[ ] YES [X] NO		10 FT³	

114 GROSS WEIGHT	115. UNITS	116. INNER CONTAINER TYPE	117. OUTER CONTAINER TYPE	118. TANK SEAL NUMBER
800 lbs# est.				

119. CONTAINER GENERATOR SIGNATURE	DATE
Eric Kimmine	8-6-01

DOE Material Storage Area (DMSA) Item - NCS Characterization Form

ITEM	INITIAL CHARACTERIZATION	ANALYTICAL CHARACTERIZATION: ^{235}U Assay Analysis	^{235}U Mass Analysis	Subcritical Mass Limits	NDA Radiation Surveys	NCS CLASSIFICATION
RFD = 110429 Description 12" 6-17 VALVE (FLANGED) WITH MOTOR OPERATOR Independent Confirmation: Individual #1: [illegible] Date: 8-8-01 Individual #2: JK Aldanso Date: 8-7-01 . . . . . . Other Information: Bldg/Col: C-335 C-33 DMSA = C-335-04 Origin: N/A	Historical Documentation: Process Knowledge: Visual Inspections Completed: ____ External Surfaces Inspection ____ Internal Surfaces Inspection Completed By: Date: N/A	Sample A: ___ % ^{235}U ___ 1 sigma (% ^{235}U) ___ 2 sigma (% ^{235}U) ___ Total (^{235}U + 2 sigma) Sample B: ___ % ^{235}U ___ 1 sigma (% ^{235}U) ___ 2 sigma (% ^{235}U) ___ Total (^{235}U + 2 sigma)	Sample A: ___ g ^{235}U Sample B: ___ g ^{235}U	___ kg ^{235}U ___ Moderated Limits ___ Hydrated Limits N/A	Sample A: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: ___ % ^{235}U Mass: ___ g ^{235}U Submitted By: Date: Sample B: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: ___ % ^{235}U Mass: ___ g ^{235}U Submitted By: Date:	Initial Classification: ✓ NCS-Exempt ____ Spacing-Controlled ____ Singularly-Contingent DMSA Inspector: [illegible] Date: 8-7-01 NDA Expert: (if NDA is performed) Date: Independent Verifications: Person #1: Date: Person #2: Date: . . . . . . Reclassification: (if needed) ____ NCS-Exempt ____ Spacing-Controlled ____ Singularly-Contingent DMSA Inspector: Date: NDA Expert: (if NDA is performed) Date: N/A Independent Verifications: Person #1: Date: Person #2: Date:

Comments: NCS-EXEMPT BY PREVIOUS CHARACTERIZATION (DMSA# 335-04-062)
REFER TO ATTACHED SHEETS FOR DETAILED INFORMATION

Approved to Relocate: To ____ Further NCS characterization is required. Item does not contain Singularly-Contingent mass. NDA Expert #1: ____ Date: ____ NDA Expert #2: N/A Date: ____	I have independently confirmed the identification and description for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match. Independent Person #1: ____ Date: ____ Independent Person #2: ____ Date: ____	I have independently confirmed the destination for this NCS-Exempt or Spacing-Controlled Item against the written instructions and finds the information to match. Independent Person #1: ____ Date: ____ Independent Person #2: ____ Date: ____

Rev. 3 (10/2000)

110429

DMSA - Charac ation Form

Item Number: DMSA-335-04-062 Building: 335 DMSA #: 335-04

Item Description: 12" G-17 Valve (Flanged) with Motor Operator

MAY 2 4 2000

Origin: GDP Owner Status: DOE Capital Equipment ID: N/A

Analytical Data

Initial Characterization

Operating History

- ☐ No NCS Concerns (Not Process Equipment)
- ☐ Independent Verification Form (verifying no NCS concerns due to equipment has never been esposed to process gas) is completed and attached,

Visual Inspection

- ☒ Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Assay

Assay Assumed: 0

- ☒ Sample Request and Receipt Form Issued
- ☐ Assay Smear Samples Complete
- ☐ Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0

N/A

Mass

- ☐ NDA Requested
- ☐ NDA Complete

Sample A:

Pounds U: 0

U-235 (g): 0

U-235 (g): 0

Sample B:

Assay Used: 0

Pounds U: 0

U-235(g): 0

N/A

NCS Classification

- ☒ NCS-Exempt
- ☐ LS
- ☐ UH
- ☐ PEH

Characterization Completed By:

Name: JP Miller

Badge #: 60999

Date: 5-23-00

RCRA or TSCA Issues Identified

NA

Comments:

☐ Item relocated

New Location: Building:

DMSA #:

7-31-01 HWR

110429

5-25-00

Date Printed: Monday, February 21, 2000

DOE

LLW

RFD

Request For Disposal

Document ID Number 110430

Generation Process Information (Completed by Generator)

W1. Generator's Name (Print)	W2. Badge No.	W3. Generator's Phone No.	W3. Mail Stop	W5. Charge No. / WO
Bill Hogan	704284	441-5131	C-743 T-1	

W6. Generator's Company	W7. Corp Owner	W8. Origin Site	W9. Origin Facility	W10. Origin Area	W11. Rad Area?
Weskem	DOE	PGDP	C-335	C-335-04	☑ Yes ☐ No

W12. Number of Items	W13. Process Category (GCC)	W14. Process Activity Code	W15. AWA Number	W16. Physical Form
1	LEG	A93	N/A	SOLID

W17. Material Type(s)	W18. Holding Site	W19. Holding Facility	W20. Holding Area	W21 RFD Attachment
MT007	PGDP	C-335	C-335-04	☑ A ☐ B ☐ C

Waste Subcategories (Check all that apply)

	Yes	No		Yes	No		Yes	No		Yes	No
W22. Biological		✓	W25. Const. Debris		✓	W28. Non-Friable Asbestos		✓	W31. DMSA	✓	
W23. Accountable		✓	W26. Classified		✓	W29. TRU Waste		✓			
W24. Carcinogen		✓	W27. Friable Asbestos		✓	W30. CERCLA		✓			

Waste Description / Comments

W32. DMSA 335-04-064 12" G-17 Valve w/ motor operator

B.C. DMSA 0110421 Zone 1

This is to certify that the above named material is properly described and in the stated container, which is in good condition, marked with the RFD number, content, appropriate generation date, source location, and at the stated location.

W33. Generation Plan No.	W34. Generator's Signature	Date
	Bill Hogan	8-6-01

Handling / Pickup Information (Completed by Waste Management)

P1. Pick-up Site	P2. Pick-up Facility	P3. Pick-up Room/Area

P4. PPE Requirements

P5. Container-Labeling Requirements

___ RCRA	___ PCB	___ DET PCB (<50ppm & source <50ppm)	___ RAD	___ DOE
___ FISSILE	___ **NCS** EXEMPT	___ RD CONFIDENTIAL	___ ACID	___ USEC
___ FLAMMABLE	___ COMBUSTIBLE	___ OXIDIZER	___ BASE	___ WESKEM
___ ASBESTOS	___ REACTIVE	___ TRANSURANIC	___ NON-HAZ	

P6. Additional Handling Instructions

Verify labeling, barcode + zone.

Reference FWR

Origin Date

PCB Start Date

RCRA Start Date

P7. Waste Coordinator (Issued By)	Badge	Date	P8. Disposal/Storage Completed By	Badge	Date
Bill Hogan	704284	8-6-01	RL Allcock	15178	8/6/01

P9. Field Supervisor	Badge	Date	P10. Data Processing Completed By	Badge	Date
D a Wade	11357	8/6/01	Chy Walker		8-10-01

P11. Waste Item Information

Waste Item No. RFD110430-01

Container No. (Barcode) DMSA 0110421

Weight App ~~1,200 lbs~~ 7-15-02 750 lbs

Location and Grid Zone #1 C335-04

Container Size App 10 cu ft.

P12. Operator Comments

BJCF-515a (03/01)

DMSA

received 8-9-01

LOW-LEVEL RADIOACTIVE WASTE

ATTACHMENT A

DOCUMENT ID NUMBER 110430

PROHIBITED ITEMS

A1. PYROPHORIC MATERIALS -OTHER THAN RADIOACTIVE FORMS OF ISOTOPES	A2. ACTIVE CHELATING AGENTS	A3. TRU RADIOISOTOPES >100 nCi/g	A4. EXPLOSIVE MATERIALS	
☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	
A5. ETILOGICAL AGENTS	**A6. IGNITION SOURCES**	**A7. FREE LIQUIDS (Unless Wastewater)**	**A8. RCRA WASTE**	**A9. TSCA WASTE**
☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO

ADDITIONAL WASTE CHARACTERISTICS

A11. CHELATING AGENTS	A12. ION EXCHANGE RESINS	A13. DETECTABLE PCB (Co cen. And Source <50 ppm) CONC.	A14. WASTEWATE
☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO ppm	☐ YES ☑ NO

RADIOISOTOPE DETERMINATION METHOD

DOCUMENT TYPE	DOCUMENT NUMBER
R1. ANALYSIS SAMPLE ID NO.	0210
R2. PROCESS KNOWLEDGE FORM NO.	

R3. FISSILE CONTENT (Wt% U-235)	R4. GRAMS U-235	R5. NCS EXEMPT	R5. CHEMICAL FORM
		☑ YES ☐ NO	

OTHER SAMPLE ANALYSIS

DOCUMENT TYPE	DOCUMENT NUMBER
O1. ANALYSIS SAMPLE ID NO.	
O2. PROCESS KNOWLEDGE FORM NO.	

RADIATION DATA FROM HEALTH PHYSICS SURVEY SURFACE CONTAMINATION (Data Supplied by HP)

R7. HP SURVEY REQUIRED

☐ YES ☐ NO

R8. TRANSFERABLE (Alpha) dpm/100cm2	R9. FIXED (Alpha) dpm/100cm2
R10. TRANSFERABLE (Beta/Gamma) dpm/100cm2	R11. FIXED (Beta/Gamma) dpm/100cm2
R12. EXTERNAL DOSE/PACKAGE CONTACT MREM/HR	R13. DOSE RATE MREM/HR @ METERS (B/G)
R14. HP SIGNATURE	R15. SURVEY NUMBER

WASTE ITEM CONTAINER LOG

10. ITEM/CONTAINER		DOCUMENT ID NUMBER
1 OF 1		110430

11 WASTE ITEM ID NO	12 ORIGIN DATE	13 RCRA ACCUMULATION START DATE	14 PCB DATE TO STORAGE
110430-01	8-6-01	—	—

15. WASTE MATERIAL PLACED IN (Or Removed From) CONTAINER	16. QUANTITY	17. DEPOSITOR INITIAL	17. DEPOSITOR DATE	18. COMMENTS (If Waste is removed from container, then final disposition must be noted.)
12" G-17 Valve w/ motor operator	1	BH	8-6-01	DMSA 335-04-064 Zone 1

19. CONTAINER ID NO. (Barcode)	110. ABSORBENT MATERIALS? QUANTITY TYPE	111. NMC&A FORM	112. EST. NET VOLUME	113. UNITS
DMSA 0110421	[ ] YES [✓] NO		10 ft³	

114 GROSS WEIGHT	115. UNITS	116. INNER CONTAINER TYPE	117. OUTER CONTAINER TYPE	118. TANK SEAL NUMBER
est. 800 lbs				

119. CONTAINER GENERATOR SIGNATURE Bill Hogg DATE 8-6-01

DOE Material Storage Area (DMSA) Item - NCS Characterization Form

ITEM	INITIAL CHARACTERIZATION	ANALYTICAL CHARACTERIZATION: ^{235}U Assay Analysis	^{235}U Mass Analysis	Subcritical Mass Limits	NDA Radiation Surveys	NCS CLASSIFICATION
RFD = 110430 17 "A 17 DRUM (PLUNGER) WITH MOTOR OPERATOR Independent Confirmations: Date: 6-8-01 . . . . . . Other Information: Bldg. Co: C-335-C-33 DMSA = C-335-06 Origin: N/A	Historical Documentation: Process Knowledge: Visual Inspections Completed: External Surfaces Inspection Internal Surfaces Inspection Completed By: Date: N/A	Sample A: % ^{235}U 1 sigma (% ^{235}U) 2 sigma (% ^{235}U) Total (^{235}U + 2 sigma) Sample B: % ^{235}U 1 sigma (% ^{235}U) 2 sigma (% ^{235}U) Total (^{235}U + 2 sigma)	Sample A: g ^{235}U Sample B: g ^{235}U	No ^{235}U Moderated Limits Hydrated Limits N/A	Sample A: Date & Time Performed: / / am pm Date & Time Results Rec'd: / / am pm Assumed Assay: % ^{235}U Mass: g ^{235}U Submitted By: Date: Sample B: Date & Time Performed: / / am pm Date & Time Results Rec'd: / / am pm Assumed Assay: % ^{235}U Mass: g ^{235}U Submitted By: Date:	Initial Classification: ✓ NCS-Exempt Spacing-Controlled Singularly-Contingent DMSA Inspector: J C Anderson Date: 8-7-01 NDA Expert: (if NDA is performed) Date: Independent Verifications: Person #1: Date: Person #2: Date: Independent Verifications: Person #1: Date: Person #2: Date: DMSA Inspector: Date: NDA Expert: (if NDA is performed) Date: N/A Independent Verifications: Person #1: Date: Person #2: Date:

Comments: NCS-EXEMPT BY PREVIOUS CHARACTERIZATION (DMSA# 335-04-064)
REFER TO ATTACHED SHEETS FOR DETAILED INFORMATION

Approved to Relocate: To Further NCS characterization is required. Item does not contain Singularly-Contingent mass. NDA Expert #1: Date: NDA Expert #2: N/A Date:	I have independently confirmed the location and description for this NCS-Exempt or Spacing-Canttolled Item against the written instructions and find this information to match. Independent Person #1: Date: Independent Person #2: Date:	I have independently confirmed the destination for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match. Independent Person #1: Date: Independent Person #2: Date:

DMSA - Charact ation Form

Item Number: DMSA-335-04-064 Building: 335 DMSA #: 335-04

Item Description: 12" G-17 Valve (Flanged) with Motor Operator

MAY 2 4 2000

Origin: GDP Owner Status: DOE Capital Equipment ID: N/A

Analytical Data

Initial Characterization

Operating History

No NCS Concerns (Not Process Equipment)

Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Assay

Assay Assumed: 0

Sampl Request and Receipt Form Issued

Assay Sme Samples Complete

Independe Verification of Assay form completed and attached.

Assay wt%U-235: 0

N/A

Mass

☐ NDA Requested

☐ NDA Complete

Sample A:

Assay Used: 0

Pounds U: 0

U-235(g): 0

Sample B:

Assay Used: 0

Pounds U: 0

U-235(g): 0

N/A

NCS Classification

X NCS-Exempt

LS

UH

PEH

Characterization Completed By:

Name: J P Miller

Badge #: 60999

Date: 5-23-00

le

completed and attached.

RCRA or TSCA Issues Identified

Comments:

Item relocated

New Location: Building:

DMSA #:

7-31-01

110430

CONTROLLED 5-25-00

DOE **LLW** RFD

Document ID Number **110431**

'Request For Disposal

Generation Process Information (Completed by Generator)

W1. Generator's Name (Print)	W2. Badge No.	W3. Generator's Phone No.	W3. Mail Stop	W5. Charge No. / WO
Eric Kimmons	703681	441-5140	C-743-T1	

W6. Generator's Company	W7. Corp Owner	W8. Origin Site	W9. Origin Facility	W10. Origin Area	W11. Rad Area?
WESKEM	DOE	PGDP	C-335	C-335-04	☑ Yes ☐ No

W12. Number of Items	W13. Process Category (GCC)	W14. Process Activity Code	W15. AWA Number	W16. Physical Form
1	LEG	A93	—	SOLID

W17. Material Type(s)	W18. Holding Site	W19. Holding Facility	W20. Holding Area	W21 RFD Attachment
MT007	PGDP	C-335	C-335-04	☑ A ☐ B ☐ C

Waste Subcategories (Check all that apply)

	Yes	No		Yes	No		Yes	No		Yes	No
W22. Biological		✓	W25. Const. Debris		✓	W28. Non-Friable Asbestos		✓	W31. DMSA	✓	
W23. Accountable		✓	W26. Classified		✓	W29. TRU Waste		✓			
W24. Carcinogen		✓	W27. Friable Asbestos		✓	W30. CERCLA		✓			

Waste Description / Comments

W32. DMSA-335-04-035; SEAL Exhaust/Wet Air TRAP

B.C. DMSA0110406 Zone 2

This is to certify that the above named material is properly described and in the stated container, which is in good condition, marked with the RFD number, content, appropriate generation date, source location, and at the stated location.

W33. Generation Plan No.	W34. Generator's Signature	Date
	[signature]	8-7-01

Handling / Pickup Information (Completed by Waste Management)

P1. Pick-up Site	P2. Pick-up Facility	P3. Pick-up Room/Area

P4. PPE Requirements

P5. Container-Labeling Requirements

___ RCRA	___ PCB	___ DET PCB (<50ppm & source <50ppm)	___ RAD	___ DOE
___ FISSILE	___ NCS EXEMPT	___ RD CONFIDENTIAL	___ ACID	___ USEC
___ FLAMMABLE	___ COMBUSTIBLE	___ OXIDIZER	___ BASE	___ WESKEM
___ ASBESTOS	___ REACTIVE	___ TRANSURANIC	___ NON-HAZ	

P6. Additional Handling Instructions

Verify Labeling, Barcode, and Zone

Reference FWR

Origin Date

PCB Start Date

RCRA Start Date

P7. Waste Coordinator (Issued By)	Badge	Date	P8. Disposal/Storage Completed By	Badge	Date
Eric Kimmons	703681	8-7-01	William Stacy	704279	8-7-01

P9. Field Supervisor	Badge	Date	P10. Data Processing Completed By	Badge	Date
D A Wade	11357	8/7/01	Chr Walker		8-10-01

P11. Waste Item Information

Waste Item No. 110431-01

Container No. (Barcode) DMSA-0110406

Weight 1200 lbs WKS

Location and Grid DMSA 335-04-ZONE 2

Container Size 25 FT3

P12. Operator Comments

BJCF-515a (03/01)

DMSA

received 8-9-01 aw

LOW-LEVEL RADIOACTIVE WASTE

ATTACHMENT A

DOCUMENT ID NUMBER: 110431

PROHIBITED ITEMS

A1. PYROPHORIC MATERIALS -OTHER THAN RADIOACTIVE FORMS OF ISOTOPES ☐ YES ☑ NO	A2. ACTIVE CHELATING AGENTS ☐ YES ☑ NO	A3. TRU RADIOISOTOPES >100 nCi/g ☐ YES ☑ NO	A4. EXPLOSIVE MATERIALS ☐ YES ☑ NO	
A5. ETILOGICAL AGENTS ☐ YES ☑ NO	A6. IGNITION SOURCES ☐ YES ☑ NO	A7. FREE LIQUIDS (Unless Wastewater) ☐ YES ☑ NO	A8. RCRA WASTE ☐ YES ☑ NO	A9. TSCA WASTE ☐ YES ☑ NO

ADDITIONAL WASTE CHARACTERISTICS

A11. CHELATING AGENTS ☐ YES ☑ NO	A12. ION EXCHANGE RESINS ☐ YES ☑ NO	A13. DETECTABLE PCB (Concen. And Source <50 ppm) ☐ YES ☑ NO CONC. ppm	A14. WASTEWATE ☐ YES ☑ NO

RADIOISOTOPE DETERMINATION METHOD

DOCUMENT TYPE	DOCUMENT NUMBER
1. ANALYSIS SAMPLE ID NO.	
R2. PROCESS KNOWLEDGE FORM NO.	0210

R3. FISSILE CONTENT (Wt% U-235)	R4. GRAMS U-235	R5. NCS EXEMPT ☑ YES ☐ NO	R5. CHEMICAL FORM

OTHER SAMPLE ANALYSIS

DOCUMENT TYPE	DOCUMENT NUMBER
O1. ANALYSIS SAMPLE ID NO.	
02. PROCESS KNOWLEDGE FORM NO.	

RADIATION DATA FROM HEALTH PHYSICS SURVEY SURFACE CONTAMINATION (Data Supplied by HP)

R7. HP SURVEY REQUIRED ☐ YES ☐ NO

R8. TRANSFERABLE (Alpha) _____ dpm/100cm2	R9. FIXED (Alpha) _____ dpm/100cm2
R10. TRANSFERABLE (Beta/Gamma) _____ dpm/100cm2	R11. FIXED (Beta/Gamma) _____ dpm/100cm2
R12. EXTERNAL DOSE/PACKAGE CONTACT _____ MREM/HR	R13. DOSE RATE _____ MREM/HR @ _____ METERS (B/G)
R14. HP SIGNATURE	R15. SURVEY NUMBER

11 WASTE ITEM ID NO	12 ORIGIN DATE	13 RCRA ACCUMULATION START DATE	14 PCB DATE TO STORAGE

15. WASTE MATERIAL PLACED IN (Or Removed From) CONTAINER	16. QUANTITY	17. DEPOSITOR		18. COMMENTS (If Waste is removed from container, then final disposition must be noted.)
		INITIAL	DATE	
Air Trap				

19 CONTAINER ID NO (Barcode)	110 ABSORBENT MATERIALS? [ ] YES [✓] NO	QUANTITY	TYPE	111 NMC&A FORM	112 EST NET VOLUME	113 UNITS
Drsgo10406					5 ft³	

114 GROSS WEIGHT	115. UNITS	116. INNER CONTAINER TYPE	117 OUTER CONTAINER TYPE	118 TANK SEAL NUMBER
1200 lbs. est.				

119 CONTAINER GENERATOR SIGNATURE	DATE
[signature]	8-7-01

DOE Material Storage Area (DMSA) Item - NCS Characterization Form

ITEM	INITIAL CHARACTERIZATION	ANALYTICAL CHARACTERIZATION: ^{235}U Assay Analysis	ANALYTICAL CHARACTERIZATION: ^{235}U Mass Analysis	ANALYTICAL CHARACTERIZATION: Subcritical Mass Limits	ANALYTICAL CHARACTERIZATION: NDA Radiation Surveys	NCS CLASSIFICATION
RFD # 110431 Description SEAL EXHAUST/ WET AIR TRAP 18" X 8' Independent Confirmations: Individual #1: [illegible] Date 8-7-01 Individual #2: HC Anderson Date 8-7-01 Other Information: Bldg./Col. C-335- D-32 DMSA # C-335-04 Origin: N/A	Historical Documentation: ____ Process Knowledge: ____ Visual Inspections Completed: ____ External Surfaces Inspection ____ Internal Surfaces Inspection Completed By: ____ Date: N/A	Sample A: ___ % ^{235}U ___ 1 sigma (% ^{235}U) ___ 2 sigma (% ^{235}U) ___ Total (^{235}U + 2 sigma) Sample B: ___ % ^{235}U ___ 1 sigma (% ^{235}U) ___ 2 sigma (% ^{235}U) ___ Total (^{235}U + 2 sigma)	Sample A: ___ g ^{235}U Sample B: ___ g ^{235}U	___ kg ^{235}U ___ Moderated Limits ___ Hydrated Limits N/A	Sample A: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: ___ % ^{235}U Mass: ___ g ^{235}U Submitted By: ____ Date: ____ Sample B: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: ___ % ^{235}U Mass: ___ g ^{235}U Submitted By: ____ Date: ____	Initial Classification: ✓ NCS-Exempt ___ Spacing-Controlled ___ Singularly-Contingent DMSA Inspector: HC Anderson Date: 8-7-01 NDA Expert: ____ (if NDA is performed) Date: ____ Independent Verifications: Person #1: ____ Date: ____ Person #2: ____ Date: ____ Reclassification: (if needed) ___ NCS-Exempt ___ Spacing-Controlled ___ Singularly-Contingent DMSA Inspector: ____ Date: ____ NDA Expert: ____ (if NDA is performed) Date: N/A Independent Verifications: Person #1: ____ Date: ____ Person #2: ____ Date: ____

Comments: NCS-EXEMPT BY PREVIOUS CHARACTERIZATION (DMSA #335-04-035)
REFER TO ATTACHED SHEETS FOR DETAILED INFORMATION

Approved to Relocate: To ____ Further NCS characterization is required. Item does not contain Singularly-Contingent mass. NDA Expert #1: ____ Date: ____ NDA Expert #2: N/A Date: ____	I have independently confirmed the identification and description for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match. Independent Person #1: ____ Date: ____ Independent Person #2: ____ Date: ____	I have independently confirmed the destination for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match. Independent Person #1: ____ Date: ____ Independent Person #2: ____ Date: ____

Rev. 3 (10/2000)

110431

DMSA - Charac[illegible]ation Form

Item Number: DMSA-335-04-035 Building: 335 DMSA #: 335-04

Item Description: SEAL EXHAUST / WET AIR TRAP 18" X 8'

MAY 24 2000

Origin: GDP Owner Status: ~~NCA~~ DOE Capital Equipment ID: NA

Analytical Data

Initial Characterization

Operating History

- [x] No NCS Concerns (Not Process Equipment)
- [ ] Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- [ ] Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

NA

Assay

Assay Assumed: 0

- [x] Sample Request and Receipt Form Issued
- [x] Assay Smear Samples Complete
- [x] Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0.5460

Mass

- [ ] NDA Requested
- [ ] NDA Complete

Sample A:

Assay Used: .525 0

Pounds U: 0

U-235 (g): 0

Sample B:

Assay Used: .5460 0

Pounds U: 0

U-235(g): 0

NCS Classification

- [x] NCS-Exempt
- [ ] LS
- [ ] UH
- [ ] PEH

Characterization Completed By:

Name: [illegible]

Badge #: [illegible]

Date: 4-6-00

7-30-00 NCA

-- RCRA or TSCA issues Identified

Comments: NA

- [ ] Item relocated

New Location: Building: NA

DMSA #:

110431

ENTERED 5-25-00

Date Printed: Monday, February 21, 2000

DOE LLW RFD

Request For Disposal

Document ID Number 110432

Generation Process Information (Completed by Generator)

W1. Generator's Name (Print)	W2. Badge No.	W3. Generator's Phone No.	W3. Mail Stop	W5. Charge No. / WO
Eric Kimmins	703681	441-5140	C-743-T1	

W6. Generator's Company	W7. Corp Owner	W8. Origin Site	W9. Origin Facility	W10. Origin Area	W11. Rad Area?
WESKEM	DOE	PGDP	C-335	C-335-04	☑ Yes ☐ No

W12. Number of Items	W13. Process Category (GCC)	W14. Process Activity Code	W15. AWA Number	W16. Physical Form
1	~~LEG~~ LEG	A93		SOLID

W17. Material Type(s)	W18. Holding Site	W19. Holding Facility	W20. Holding Area	W21 RFD Attachment
MT007	PGDP	C-335	C-335-04	☑ A ☐ B ☐ C

Waste Subcategories (Check all that apply)

	Yes	No		Yes	No		Yes	No		Yes	No
W22. Biological			W25. Const. Debris			W28. Non-Friable Asbestos			W31. DMSA	✓	
W23. Accountable			W26. Classified		✓	W29. TRU Waste					
W24. Carcinogen		✓	W27. Friable Asbestos		✓	W30. CERCLA		✓			

Waste Description / Comments

W32. DMSA-335-04-031; Seal Exhaust Trap

BC. DMSA 0110407 zone

This is to certify that the above named material is properly described and in the stated container, which is in good condition, marked with the RFD number, content, appropriate generation date, source location, and at the stated location.

W33. Generation Plan No.	W34. Generator's Signature	Date
	[signature]	8-7-01

Handling / Pickup Information (Completed by Waste Management)

P1. Pick-up Site	P2. Pick-up Facility	P3. Pick-up Room/Area

P4. PPE Requirements

P5. Container-Labeling Requirements

___ RCRA	___ PCB	___ DET PCB (<50ppm & source <50ppm)	___ RAD	___ DOE
___ FISSILE	___ NCS EXEMPT	___ RD CONFIDENTIAL	___ ACID	___ USEC
___ FLAMMABLE	___ COMBUSTIBLE	___ OXIDIZER	___ BASE	___ WESKEM
___ ASBESTOS	___ REACTIVE	___ TRANSURANIC	___ NON-HAZ	

P6. Additional Handling Instructions

Verify LAD-Lint, Barcode, and zone.

Reference FWR

Origin Date

PCB Start Date

RCRA Start Date

P7. Waste Coordinator (Issued By)	Badge	Date	P8. Disposal/Storage Completed By	Badge	Date
Eric Kimmins	703681	8-7-01	Billy Stoan	701275	8-7-01

P9. Field Supervisor	Badge	Date	P10. Data Processing Completed By	Badge	Date
D A Wade	11357	8/7/01	Chr Walker		8-10-01

P11. Waste Item Information

Waste Item No. RFD110432-01

Container No. (Barcode) DMSA0110407

Weight 1200 lbs.

Location and Grid DMSA 335-04-ZONE 2

Container Size 25 FT3

P12. Operator Comments

BJCF-515a (03/01)

DMSA

received 8-9-01

LOW-LEVEL RADIOACTIVE WASTE

ATTACHMENT A

DOCUMENT ID NUMBER 110432

PROHIBITED ITEMS

A1. PYROPHORIC MATERIALS -OTHER THAN RADIOACTIVE FORMS OF ISOTOPES	A2. ACTIVE CHELATING AGENTS	A3. TRU RADIOISOTOPES >100 nCi/g	A4. EXPLOSIVE MATERIALS
☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO

A5. ETILOGICAL AGENTS	A6. IGNITION SOURCES	A7. FREE LIQUIDS (Unless Wastewater)	A8. RCRA WASTE	A9. TSCA WASTE
☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO

A10. WASTE VARIANCE REQUEST NUMBER(S)

ADDITIONAL WASTE CHARACTERISTICS

A11. CHELATING AGENTS	A12. ION EXCHANGE RESINS	A13. DETECTABLE PCB (Concen. And Source ≥50 ppm) CONC.	A14. WASTEWATER
☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO ppm	☐ YES ☑ NO

RADIOISOTOPE DETERMINATION METHOD

DOCUMENT TYPE	DOCUMENT NUMBER
R1. ANALYSIS SAMPLE ID NO.	
R2. PROCESS KNOWLEDGE FORM NO.	

R3. FISSILE CONTENT (Wt% U-235)	R4. GRAMS U-235	R5. NCS EXEMPT	R5. CHEMICAL FORM
		☑ YES ☐ NO	

OTHER SAMPLE ANALYSIS

DOCUMENT TYPE	DOCUMENT NUMBER
O1. ANALYSIS SAMPLE ID NO.	
02. PROCESS KNOWLEDGE FORM NO.	

RADIATION DATA FROM HEALTH PHYSICS SURVEY SURFACE CONTAMINATION (Data Supplied by HP)

R8. TRANSFERABLE (Alpha) dpm/100cm2	R9. FIXED (Alpha) dpm/100cm2
R10. TRANSFERABLE (Beta/Gamma) dpm/100cm2	R11. FIXED (Beta/Gamma) dpm/100cm2
R12. EXTERNAL DOSE/PACKAGE CONTACT MREM/HR	R13. DOSE RATE MREM/HR @ METERS (B/G)
R14. HP SIGNATURE	R15. SURVEY NUMBER

WASTE ITEM CONTAINER LOG

10. ITEM/CONTAINER		OOCUMENT ID NUMBER
1 OF 1		110432

11 WASTE ITEM ID NO	12. ORIGIN DATE	13 RCRA ACCUMULATION START DATE	14 PCB DATE TO STORAGE
110432-01	8-7-01	—	—

15. WASTE MATERIAL PLACED IN (Or Removed From) CONTAINER	16. QUANTITY	17. DEPOSITOR INITIAL	17. DEPOSITOR DATE	18. COMMENTS (If Waste is removed from container, then final disposition must be noted.)
SEAL Exhaust TRAP	1	ER	8-7-01	DMSA-335-04-031 Zone 2

19. CONTAINER ID NO. (Barcode)	110 ABSORBENT MATERIALS? QUANTITY TYPE	111. NMC&A FORM	112. EST. NET VOLUME	113 UNITS
DMSA0110 407	[ ] YES [✓] NO		25 ft3	

114 GROSS WEIGHT	115. UNITS	116. INNER CONTAINER TYPE	117. OUTER CONTAINER TYPE	118. TANK SEAL NUMBER
1200 lbs est.				

119. CONTAINER GENERATOR SIGNATURE	DATE
E. Jenkins	8-7-01

UCN-20700 PAGE 2

DOE Material Storage Area (DMSA) Item - NCS Characterization Form

ITEM	INITIAL CHARACTERIZATION	^{235}U Assay Analysis	^{235}U Mass Analysis	Mass Limits	Surveys	NCS CLASSIFICATION
RFD # 110432 Description SEAL EXHAUST WET AIR TRAP 18'48' Independent Confirmations: Individual #1: [illegible] Date 8-8-01 Individual #2: [illegible] Date 8-7-01 Other Information: Bldg./Col.: C-335-D-32 DMSA #: C-335-04 Origin N/A	Historical Documentation: Process Knowledge: Visual Inspections Completed: ____ External Surfaces Inspection ____ Internal Surfaces Inspection Completed By: Date: N/A	Sample A: % ^{235}U __ 1 sigma (% ^{235}U) __ 2 sigma (% ^{235}U) __ Total (^{235}U + 2 sigma) Sample B: __ % ^{235}U __ 1 sigma (% ^{235}U) __ 2 sigma (% ^{235}U) __ Total (^{235}U +	Sample A: ____ g ^{235}U Sample B: ____ g ^{235}U	____ kg ^{235}U ____ Moderated Limits ____ Hydrated Limits N/A	Sample A: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: ____ % ^{235}U Mass: ____ g ^{235}U Submitted By: ____ Date: Sample B: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: ____ % ^{235}U Mass: ____ g ^{235}U Submitted By: ____ Date:	Initial Classification: ✓ NCS-Exempt ____ Spacing-Controlled ____ Singularly-Contingent Date: 8-7-01 NDA Expert: ____ (if NDA is performed) Date: Independent Verifications: Person #1: ____ Date: ____ Person #2: ____ Date: ____ Reclassification: (if needed) ____ NCS-Exempt ____ Spacing-Controlled ____ Singularly-Contingent DMSA Inspector: ____ Date: ____ NDA Expert: ____ (if NDA is performed) Date: N/A Independent Verifications: Person #1: ____ Date: ____ Date: ____

Comments: NCS-EXEMPT BY PREVIOUS CHARACTERIZATION (DMSA# 335-04-031)
REFER TO ATTACHED SHEETS FOR DETAILED INFORMATION

Approved to Relocate: To ____
Further NCS characterization is required. Item does not contain Singularly-Contingent mass.

NDA Expert #1: ____

NDA Expert #2: ____
Date: ____

I have independently confirmed the identification and description for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match.

Independent Person #1: ____
Date:

Independent Person #2: ____
Date: ____

I have independently confirmed the destination for this NCS-Exempt or Spacing-Controlled Item against the written instructions and SO? ch information to match.

Independent Person #1: ____
Date: ____

Independent Person #2: ____
Date: ____

DMSA - Characterization Form

Item Number: DMSA-335-04-031 Building: 335 DMSA #: 335-04

Item Description: SEAL EXHAUST / WET AIR TRAP 18" x 8'

Origin: G-DP Owner Status: DOE-OWNED Capital Equipment ID: NA

MAY 24 2000

Analytical Data

Initial Characterization

Operating History

- No NCS Concerns (Not Process Equipment)
- Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

NA

Assay

- Assay Assumed: 0
- Sample Request and Receipt Form Issued
- Assay Smear Samples Complete
- Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0.600

Mass

- NDA Requested
- NDA Complete

Sample A:

Assay Used: 0

Pounds U: 0

U-235 (g): 0

Sample B:

Assay Used: 0

Pounds U: 0

U-235(g): 0

NA

NCS Classification

- X NCS-Exempt
- LS
- UH
- PEH

Characterization Completed By:

Name: [illegible]

Badge #: 34742

Date: 3-16-00

7-30-01 [illegible]

- RCRA or TSCA Issues Identified

Comments:

- Item relocated

New Location: Building: NA

DMSA #:

ENTERED 5-25-00

11043

Date Printed: Monday, February 21, 2000

DOE

LLW

RFD

Request For Disposal

Document ID Number 110433

Generation Process Information (Completed by Generator)

W1. Generator's Name (Print)	W2. Badge No.	W3. Generator's Phone No.	W3. Mail Stop	W5. Charge No. / WO
Eric Kimmins	703681	441-5140	C-743-T1	

W6. Generator's Company	W7. Corp Owner	W8. Origin Site	W9. Origin Facility	W10. Origin Area	W11. Rad Area?
WESKEM	DOE	PGDP	C-335	C-335-04	☑ Yes ☐ No

W12. Number of Items	W13. Process Category (GCC)	W14. Process Activity Code	W15. AWA Number	W16. Physical Form
1	LEG	A93	—	SOLID

W17. Material Type(s)	W18. Holding Site	W19. Holding Facility	W20. Holding Area	W21 RFD Attachment
MT007	PGDP	C-335	C-335-04	☑ A ☐ B ☐ C

Waste Subcategories (Check all that apply)

	Yes	No		Yes	No		Yes	No		Yes	No
W22. Biological		✓	W25. Const. Debris		✓	W28. Non-Friable Asbestos		✓	W31. DMSA	✓	
W23. Accountable		✓	W26. Classified		✓	W29. TRU Waste		✓			
W24. Carcinogen		✓	W27. Friable Asbestos		✓	W30. CERCLA		✓			

Waste Description / Comments

W32. DMSA-335-04-032; Seal Exhaust Trap

B.C. DMSA0110408 Zone 2

This is to certify that the above named material is properly described and in the stated container, which is in good condition, marked with the RFD number, content, appropriate generation date, source location, and at the stated location.

W33. Generation Plan No.	W34. Generator's Signature	Date
	[signature]	8-7-01

Handling / Pickup Information (Completed by Waste Management)

P1. Pick-up Site	P2. Pick-up Facility	P3. Pick-up Room/Area

P4. PPE Requirements

P5. Container-Labeling Requirements

___ RCRA	___ PCB	___ DET PCB (<50ppm & source <50ppm)	___ RAD	___ DOE
___ FISSILE	___ NCS EXEMPT	___ RD CONFIDENTIAL	___ ACID	___ USEC
___ FLAMMABLE	___ COMBUSTIBLE	___ OXIDIZER	___ BASE	___ WESKEM
___ ASBESTOS	___ REACTIVE	___ TRANSURANIC	___ NON-HAZ	

P6. Additional Handling Instructions

Verify LAOs Lids, Barcode, and zone.

Reference FWR

Origin Date

PCB Start Date

RCRA Start Date

P7. Waste Coordinator (Issued By)	Badge	Date	P8. Disposal/Storage Completed By	Badge	Date
Eric Kimmins	703681	8-7-01	Billy Stacy	704279	8-7-01

P9. Field Supervisor	Badge	Date	P10. Data Processing Completed By	Badge	Date
D A Wade	11352	8/7/01	Chy Walker		8-10-01

P11. Waste item Information

Waste Item No. RFD-110433-01

Container No. (Barcode) DMSA-0110408

Weight 1200 lbs

Location and Grid 335-04-ZONE 2

Container Size 25 FT3

P12. Operator Comments

BJCF-515a (03/01)

DMSA

received 8-9-01

LOW-LEVEL RADIOACTIVE WASTE

ATTACHMENT A

DOCUMENT ID NUMBER: 110433

PROHIBITED ITEMS

A1. PYROPHORIC MATERIALS -OTHER THAN RADIOACTIVE FORMS OF ISOTOPES	A2. ACTIVE CHELATING AGENTS	A3. TRU RADIOISOTOPES >100 nCi/g	A4. EXPLOSIVE MATERIALS	
☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	
A5. ETILOGICAL AGENTS	A6. IGNITION SOURCES	A7. FREE LIQUIDS (Unless Wastewater)	A8. RCRA WASTE	A9. TSCA WASTE
☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO

A10. WASTE VARIANCE REQUEST NUMBER(S)

ADDITIONAL WASTE CHARACTERISTICS

A11. CHELATING AGENTS	A12. ION EXCHANGE RESINS	A13. DETECTABLE PCB (Concen. And Source <50 ppm) CONC.	A14. WASTEWATER
☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO ppm	☐ YES ☑ NO

RADIOISOTOPE DETERMINATION METHOD

DOCUMENT TYPE	DOCUMENT NUMBER
R1. ANALYSIS SAMPLE ID NO.	
R2. PROCESS KNOWLEDGE FORM NO.	0210

R3. FISSILE CONTENT (Wt% U-235)	R4. GRAMS U-235	R5. NCS EXEMPT	R5. CHEMICAL FORM
		☑ YES ☐ NO	

OTHER SAMPLE ANALYSIS

DOCUMENT TYPE	DOCUMENT NUMBER
01. ANALYSIS SAMPLE ID NO.	
O2. PROCESS KNOWLEDGE FORM NO.	

RADIATION DATA FROM HEALTH PHYSICS SURVEY SURFACE CONTAMINATION (Data Supplied by HP)

R7. HP SURVEY REQUIRED

☐ YES ☐ NO

R8. TRANSFERABLE (Alpha) dpm/100cm2	39. FIXED (Alpha) dpm/100cm2
R10. TRANSFERABLE (Beta/Gamma) dpm/100cm2	R11. FIXED (Beta/Gamma) dpm/100cm2
R12. EXTERNAL DOSE/PACKAGE CONTACT MREM/HR	R13. DOSE RATE MREM/HR @ METERS (B/G)
R14. HP SIGNATURE	R15. SURVEY NUMBER

Trap

1

I9 CONTAINER ID NO (Barcode)	I10 ABSORBENT MATERIALS [ ] YES [✓] NO	QUANTITY	TYPE	I11 NMC&A FORM	I12 EST NETVOLUME	I13 UNITS
DMSA0110408					25 ft³	

I14 GROSS WEIGHT	I15. UNITS	I16. INNER CONTAINER TYPE	I17. OUTER CONTAINER TYPE	I18 TANK SEAL NUMBER
1200 Lbs est.				

I19 CONTAINER GENERATOR SIGNATURE [signature]

DATE 8-7-01

DOE Material Storage Area (DMSA) Item - NCS Characterization Form

ITEM	INITIAL CHARACTERIZATION	ANALYTICAL CHARACTERIZATION: ^{235}U Assay Analysis	ANALYTICAL CHARACTERIZATION: ^{235}U Mass Analysis	ANALYTICAL CHARACTERIZATION: Subcritical Mass Limits	ANALYTICAL CHARACTERIZATION: NDA Radiation Surveys	NCS CLASSIFICATION
RFD = 110433 Description: SEAL EXHAUST / WET AIR TRAP 18" X 8' Independent Confirmations: Individual #1: [illegible] Date: 8-8-01 Individual #2: J.C. Anderson Date: 8-2-01 . . . . . . Other Information: Bldg./Col. C-335 D-32 DMSA #: C-335-04 Origin: N/A	Historical Documentation: Process Knowledge: Visual Inspections Completed: ____ External Surfaces Inspection ____ Internal Surfaces Inspection Completed By: Date: N/A	Sample A: ___ % ^{235}U ___ 1 sigma (% ^{235}U) ___ 2 sigma (% ^{235}U) ___ Total (^{235}U + 2 sigma) Sample B: ___ % ^{235}U ___ 1 sigma (% ^{235}U) ___ 2 sigma (% ^{235}U) ___ Total (^{235}U + 2 sigma)	Sample A: ___ g ^{235}U Sample B: ___ g ^{235}U	___ kg ^{235}U ___ Moderated Limits ___ Hydrated Limits N/A	Sample A: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: ___ % ^{235}U Mass: ___ g ^{235}U Submitted By: Date: Sample B: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: ___ % ^{235}U Mass: ___ g ^{235}U Submitted By: Date:	Initial Classification: ✓ NCS-Exempt ____ Spacing-Controlled ____ Singularly-Contingent DMSA Inspector: J.C. Anderson Date: 8-2-01 NDA Expert: (if NDA is performed) Date: Independent Verifications: Person #1: Date: Person #2: Date: . . . . . . Reclassification: (if needed) ____ NCS-Exempt ____ Spacing-Controlled ____ Singularly-Contingent DMSA Inspector: Date: NDA Expert: (if NDA is performed) Date: N/A Independent Verifications: Person #1: Date: Person #2: Date:

Comments: NCS EXEMPT BY PREVIOUS CHARACTERIZATION (DMSA# 335-04-032)
REFER TO ATTACHED SHEETS FOR DETAILED INFORMATION

Approved to Relocate: To _____
Further NCS characterization is required. Item does not contain Singularly-Contingent mass.

NDA Expert #1: _____
Date _____

NDA Expert #2: N/A
Date _____

I have independently confirmed the identification and description for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match.

Independent Person #1: _____
Date: _____

Independent Person #2: _____
Date: _____

I have independently confirmed the destination for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match.

Independent Person #1: _____
Date: _____

Independent Person #2: _____
Date: _____

Rev. 3(10/2000)

DMSA - Chara zation Form

Item Number: DMSA-335-04-032 Building: 335 DMSA #: 335-04

Item Description: SEALEXHAUST (WET AIR TRAP 18" x 8'

MAY 24 2000

Origin: GDP Owner Status: ~~NON-DOE~~ DOE Capital Equipment ID: NA

X Analytical Data

Initial Characterization

Operating History

- No NCS Concerns (Not Process Equipment)
- Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

NA

Assay

- Assay Assumed: 0
- ✓ Sample Request and Receipt Form Issued
- ✓ Assay Smear Samples Complete
- ✓ Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0.5462 0

Mass

- ☐ NDA Requested
- ☐ NDA Complete

Sample A:

Assay Used: 0
Pounds U: 0
U-235 (g): 0

Sample B:

Assay Used: 0
Pounds U: 0
U-235(g): 0

NA

NCS Classification

- X NCS-Exempt
- ☐ LS
- ☐ UH
- PEH

Characterization Completed By:

Name: [illegible]
Badge #: 34342
Date: 3-16-00

7-30-01

- RCRA or TSCA Issues Identified

NA

Comments:

☐ Item relocated NA

New Location: Building:
DMSA #:

110433 ENTERED 5-25-00

Date Printed: Monday, February 21, 2000

DOE LLW RFD

Request For Disposal

Document ID Number 110434

Generation Process Information (Completed by Generator)

W1. Generator's Name (Print)	W2. Badge No.	W3. Generator's Phone No.	W3. Mail Stop	W5. Charge No. / WO
Eric Kimmins	103681	441-5140	C-743-T1	

W6. Generator's Company	W7. Corp Owner	W8. Origin Site	W9. Origin Facility	W10. Origin Area	W11. Rad Area?
WESKEM	DOE	PGDP	C-335	C-335-04	☑ Yes ☐ No

W12. Number of Items	W13. Process Category (GCC)	W14. Process Activity Code	W15. AWA Number	W16. Physical Form
1	LEG	A93	—	SOLID

W17. Material Type(s)	W18. Holding Site	W19. Holding Facility	W20. Holding Area	W21 RFD Attachment
MT007	PGDP	C-335	C-335-04	☑ A ☐ B ☐ C

Waste Subcategories (Check all that apply)

	Yes	No		Yes	No		Yes	No		Yes	No
W22. Biological		✓	W25. Const. Debris		✓	W28. Non-Friable Asbestos		✓	W31. DMSA	✓	
W23. Accountable		✓	W26. Classified		✓	W29. TRU Waste		✓			
W24. Carcinogen		✓	W27. Friable Asbestos		✓	W30. CERCLA		✓			

Waste Description / Comments

W32. DMSA-335-04-033; SEAL EXHAUST TRAP

D.C. DMSA0110409 zone 2

This is to certify that the above named material is properly described and in the stated container, which is in good condition, marked with the RFD number, content, appropriate generation date, source location, and at the stated location.

W33. Generation Plan No.	W34. Generator's Signature	Date
	[signature]	8-2-01

Handling / Pickup Information (Completed by Waste Management)

P1. Pick-up Site	P2. Pick-up Facility	P3. Pick-up Room/Area

P4. PPE Requirements

P5. Container-Labeling Requirements

___ RCRA	___ PCB	___ DET PCB (<50ppm & source <50ppm)	___ RAD	___ DOE
___ FISSILE	___ NCS EXEMPT	___ RD CONFIDENTIAL	___ ACID	___ USEC
___ FLAMMABLE	___ COMBUSTIBLE	___ OXIDIZER	___ BASE	___ WESKEM
___ ASBESTOS	___ REACTIVE	___ TRANSURANIC	___ NON-HAZ	

P6. Additional Handling Instructions

Verify w/ Barcode, and zone.

Reference FWR	
Origin Date	
PCB Start Date	
RCRA Start Date	

P7. Waste Coordinator (Issued By)	Badge	Date	P8. Disposal/Storage Completed By	Badge	Date
Eric Kimmins	103681	8-2-01	Billy Stacy	104274	8-7-01

P9. Field Supervisor	Badge	Date	P10. Data Processing Completed By	Badge	Date
D A Wade	11357	8/2/01	Chy Walker		8-10-01

P11. Waste Item Information

Waste Item No. RFD-110434-01

Container No. (Barcode) DMSA-0110409

Weight 1200 lbs

Location and Grid 335-04-ZONE-2

Container Size 25 FT3

P12. Operator Comments

BJCF-515a (03/01)

DMSA

received 8-9-01

LOW-LEVEL RADIOACTIVE WASTE

ATTACHMENT A

DOCUMENT ID NUMBER: 110434

PROHIBITED ITEMS

A1. PYROPHORIC MATERIALS -OTHER THAN RADIOACTIVE FORMS OF ISOTOPES	A2. ACTIVE CHELATING AGENTS	A3. TRU RADIOISOTOPES>100 nCi/g	A4. EXPLOSIVE MATERIALS
☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES

A5. ETILOGICAL AGENTS	A6. IGNITION SOURCES	A7. FREE LIQUIDS (Unless Wastewater)	A8. RCRA WASTE	A9. TSCA WASTE
☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO

A10. WASTE VARIANCE REQUEST

ADDITIONAL WASTE CHARACTERISTICS

A11. CHELATING AGENTS	A12. ION EXCHANGE RESINS	A13. DETECTABLE PCB (Concen. And Source <50 ppm)	CONC.	A14. WASTEWATER
☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	ppm	☐ YES ☑ NO

RADIOISOTOPE DETERMINATION METHOD

DOCUMENT TYPE	DOCUMENT NUMBER
R1. ANALYSIS SAMPLE ID NO.	
R2. PROCESS KNOWLEDGE FORM NO.	0210

R3. FISSILE CONTENT (Wt% U-235)	R4. GRAMS U-235	R5. NCS EXEMPT	R5. CHEMICAL FORM
		☑ YES ☐ NO	

OTHER SAMPLE ANALYSIS

DOCUMENT TYPE	DOCUMENT NUMBER
O1. ANALYSIS SAMPLE ID NO.	
O2. PROCESS KNOWLEDGE FORM NO.	

RADIATION DATA FROM HEALTH PHYSICS SURVEY SURFACE CONTAMINATION (Data Supplied by HP)

R7. HP SURVEY REQUIRED

☐ YES ☐ NO

R8. TRANSFERABLE (Alpha) dpm/100cm2	R9. FIXED (Alpha) dpm/100cm2
R10. TRANSFERABLE (Beta/Gamma) dpm/100cm2	R11. FIXED (Beta/Gamma) dpm/100cm2
R12. EXTERNAL DOSE/PACKAGE CONTACT MREM/HR	R13. DOSE RATE MREM/HR @ METERS (B/G)
R14. HP SIGNATURE	R15. SURVEY NUMBER

10. ITEM/CONTAINER	1 OF 1			DOCUMENT ID NUMBER 110434
SEAL Exhaust TRAP	1	CK	8-7-01	DMSA-335.04-033 Zone 2

19. CONTAINER ID NO. (Barcode)	110 ABSORBENT MATERIALS? QUANTITY TYPE	111 NMC&A FORM	112. EST. NET VOLUME	113 UNITS
DMSA0110409	[ ] YES [X] NO		25 ft³	
114 GROSS WEIGHT	115. UNITS	116. INNER CONTAINER TYPE	117 OUTER CONTAINER TYPE	118 TANK SEAL NUMBER
1200 LBS EST.				
119. CONTAINER GENERATOR SIGNATURE				DATE 8-7-01

UCN-20700 PAGE 2

DOE Material Storage Area (DMSA) Item - NCS Characterization Form

ITEM	INITIAL CHARACTERIZATION	ANALYTICAL CHARACTERIZATION: ^{235}U Assay Analysis	ANALYTICAL CHARACTERIZATION: ^{235}U Mass Analysis	ANALYTICAL CHARACTERIZATION: Subcritical Mass Limits	ANALYTICAL CHARACTERIZATION: NDA Radiation Surveys	NCS CLASSIFICATION
RFD # 110434 Description: SEN EXHAUST WET AIR RAD 18" X 8' Independent Confirmations: Individual #1: [illegible] Date: 8-8-01 Individual #2: HC Anderson Date: 8-9-01 . . . . . . Other Information: Bldg/Col: C-335 D-32 DMSA #: C-335-04 Origin: N/A	Historical Documentation: Process Knowledge: Visual Inspections Completed: ____ External Surfaces Inspection ____ Internal Surfaces Inspection Completed By: Date: N/A	Sample A: ___ % ^{235}U ___ 1 sigma (% ^{235}U) ___ 2 sigma (% ^{235}U) ___ Total (^{235}U + 2 sigma) Sample B: ___ % ^{235}U ___ 1 sigma (% ^{235}U) ___ 2 sigma (% ^{235}U) ___ Total (^{235}U + 2 sigma)	Sample A: ___ g ^{235}U Sample B: ___ g ^{235}U	___ kg ^{235}U ___ Moderated Limits ___ Hydrated Limits N/A	Sample A: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: ___ % ^{235}U Mass: ___ g ^{235}U Submitted By: Date: Sample B: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: ___ % ^{235}U Mass: ___ g ^{235}U Submitted By: Date:	Initial Classification: ✓ NCS-Exempt ___ Spacing-Controlled ___ Singularly-Contingent DMSA Inspector: HC Anderson Date: 8-9-01 NDA Expert: (if NDA is performed) Date: Independent Verifications: Person #1: Date: Person #2: Date: . . . . . . Reclassification: (if needed) ___ NCS-Exempt ___ Spacing-Controlled ___ Singularly-Contingent DMSA Inspector: Date: NDA Expert: (if NDA is performed) Date: N/A Independent Verifications: Person #1: Date: Person #2: Date:

Comments: NCS-EXEMPT BY PREVIOUS CHARACTERIZATION (DMSA # 335-04-033). REFER TO ATTACHED SHEETS FOR DETAILED INFORMATION

Approved to Relocate: To Further NCS characterization is required. Item does not contain Singularly-Contingent mass. NDA Expert #1: Date: NDA Expert #2: N/A Date:	I have independently confirmed the identification and description for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match. Independent Person #1: Date: Independent Person #2: Date:	I have independently confirmed the destination for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match. Independent Person #1: Date: Independent Person #2: Date:

110434

DMSA - Chara zation Form

Item Number: DMSA-335-04-033 Building: 335 DMSA #: 335-04

Item Description: SEAL ON HAUST / Wet AIR TRAP 18" x 8' MAY 24 2000

Origin: GDP Owner Status: DOE Capital Equipment ID: N/A

Analytical Data

Initial Characterization

Operating History

- No NCS Concerns (Not Process Equipment)
- Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

NA

Assay

- Assay Assumed: 0
- Sample Request and Receipt Form Issued
- Assay Smear Samples Complete
- Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0.658

Mass

- NDA Requested
- NDA Complete

Sample A:

Assay Used: 0

Pounds U: 0

U-235 (g): 0

Sample B:

Assay Used: 0

Pounds U: 0

U-235(g): 0

NA

NCS Classification

- NCS-Exempt
- LS
- UH
- PEH

Characterization Completed By:

Name: [illegible]

Badge #: 3434

Date: 3-14-00

7-30-01

- RCRA or TSCA Issues Identified NA

Comments:

- Item relocated NA

New Location: Building:

DMSA #:

REGISTERED 5-25-00 110434

Date Printed: Monday, February 21, 2000

DOE

LLW

RFD

Document ID Number
110435

Request For Disposal

Generation Process Information (Completed by Generator)

W1. Generator's Name (Print)	W2. Badge No.	W3. Generator's Phone No.	W3. Mail Stop	W5. Charge No. / WO
Eric Kimmins	703681	441-5140	C-743-T1	

W6. Generator's Company	W7. Corp Owner	W8. Origin Site	W9. Origin Facility	W10. Origin Area	W11. Rad Area?
WESKEM	DOE	PGDP	C-335	C-335-04	☑ Yes ☐ No

W12. Number of Items	W13. Process Category (GCC)	W14. Process Activity Code	W15. AWA Number	W16. Physical Form
1	LEG	A93	-	SOLID

W17. Material Type(s)	W18. Holding Site	W19. Holding Facility	W20. Holding Area	W21 RFD Attachment
MT007	PGDP	C-335	C-335-04	☐ A ☐ B ☐ C

Waste Subcategories (Check all that apply)

	Yes	No		Yes	No		Yes	No		Yes	No
W22. Biological		✓	W25. Const. Debris		✓	W28. Non-Friable Asbestos		✓	W31. DMSA	✓	
W23. Accountable		✓	W26. Classified		✓	W29. TRU Waste		✓			
W24. Carcinogen		✓	W27. Friable Asbestos		✓	W30. CERCLA		✓			

Waste Description / Comments

W32. DMSA-335-04-034; SEAL Exhaust TRAP

PC-PA340110410 Zone 2

This is to certify that the above named material is properly described and in the stated container, which is in good condition, marked with the RFD number, content, appropriate generation date, source location, and at the stated location.

W33. Generation Plan No.	W34. Generator's Signature	Date
	[signature]	8-7-01

Handling / Pickup Information (Completed by Waste Management)

P1. Pick-up Site	P2. Pick-up Facility	P3. Pick-up Room/Area

P4. PPE Requirements

P5. Container-Labeling Requirements

___ RCRA	___ PCB	___ DET PCB (<50ppm & Source <50ppm)	___ RAD	___ DOE
___ FISSILE	___ NCS EXEMPT	___ RD CONFIDENTIAL	___ ACID	___ USEC
___ FLAMMABLE	___ COMBUSTIBLE	___ OXIDIZER	___ BASE	___ WESKEM
___ ASBESTOS	___ REACTIVE	___ TRANSURANIC	___ NON-HAZ	

P6. Additional Handling Instructions

Verify Labeling, Barcode, and Zone.

Reference FWR

Origin Date

PCB Start Date

RCRA Start Date

P7. Waste Coordinator (Issued By)	Badge	Date	P8. Disposal/Storage Completed By	Badge	Date
Eric Kimmins	703681	8-7-01	Billy Stacy	704279	8-7-01

P9. Field Supervisor	Badge	Date	P10. Data Processing Completed By	Badge	Date
D A Wade		8/7/01	Chy Cowden		8-10-01

P11. Waste Item Information

Waste Item No. RFD-110435-01

Container No. (Barcode) DMSA-0110410

Weight 1200 lbs.

Location and Grid 335-04 - ZONE 2

Container Size 25 FT3

P12. Operator Comments

BJCF-515a (03/01)

DMSA

received 8-9-01

LOW-LEVEL RADIOACTIVE WASTE

ATTACHMENT A

DOCUMENT ID NUMBER: 110435

PROHIBITED ITEMS

A1. PYROPHORIC MATERIALS -OTHER THAN RADIOACTIVE FORMS OF ISOTOPES	A2. ACTIVE CHELATING AGENTS	A3. TRU RADIOISOTOPES >100 nCi/g	A4. EXPLOSIVE MATERIALS
☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO

A5. ETILOGICAL AGENTS	A6. IGNITION SOURCES	A7. FREE LIQUIDS (Unless Wastewater)	A8. RCRA WASTE	A9. TSCA WASTE
☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO

A10. WASTE VARIANCE REQUEST NUMBER(S)

ADDITIONAL WASTE CHARACTERISTICS

A11. CHELATING AGENTS	A12. ION EXCHANGE RESINS	A13. DETECTABLE PCB (Concen. And Source <50 ppm)	A14. WASTEWATER
☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO CONC ppm	☐ YES ☑ NO

RADIOISOTOPE DETERMINATION METHOD

DOCUMENT TYPE	DOCUMENT NUMBER
R1. ANALYSIS SAMPLE ID NO.	
R2. PROCESS KNOWLEDGE FORM NO.	0210

R3. FISSILE CONTENT (Wt% U-235)	R4. GRAMS U-235	R5. NCS EXEMPT	R5. CHEMICAL FORM
		☑ YES ☐ NO	

OTHER SAMPLE ANALYSIS

DOCUMENT TYPE	DOCUMENT NUMBER
01. ANALYSIS SAMPLE ID NO.	
02. PROCESS KNOWLEDGE FORM NO.	

RADIATION DATA FROM HEALTH PHYSICS SURVEY SURFACE CONTAMINATION (Data Supplied by HP)

R8. TRANSFERABLE (Alpha) dpm/100cm2	R9. FIXED (Alpha) dpm/100cm2
R10. TRANSFERABLE (Beta/Gamma) dpm/100cm2	R11. FIXED (Beta/Gamma) dpm/100cm2
R12. EXTERNAL DOSE/PACKAGE CONTACT MREM/HR	R13. DOSE RATE MREM/HR @ METERS (B/G)
R14 HP SIGNATURE	R15. SURVEY NUMBER

WASTE ITEM CONTAINER LOG

I0. ITEM/CONTAINER		DOCUMENT ID NUMBER
1 OF 1		110435

I1. WASTE ITEM ID NO.	I2. ORIGIN DATE	I3. RCRA ACCUMULATION START DATE	I4. PCB DATE TO STORAGE
110435-01	8-7-01	—	—

I5. WASTE MATERIAL PLACED IN (Or Removed From) CONTAINER	I6. QUANTITY	I7. DEPOSITOR INITIAL	I7. DEPOSITOR DATE	I8. COMMENTS (If Waste is removed from container, then final disposition must be noted.)
Seal exhaust trap	1	BH	8-7-01	DMSA 335-04-034 Zone 2

I9 CONTAINER ID NO (Barcode)	I10 ABSORBENT MATERIALS?	QUANTITY	TYPE	I11 NMC&A FORM	I12 EST. NET VOLUME	I13 UNITS
0110410	[ ] YES [X] NO				≈5 ft³	cu.ft

I14 GROSS WEIGHT	I15 UNITS	I16 INNER CONTAINER TYPE	I17 OUTER CONTAINER TYPE	I18 TANK SEAL NUMBER
200 lbs				

DOE Material Storage Area (DMSA) Item - NCS Characterization Form

ITEM	INITIAL CHARACTERIZATION	ANALYTICAL CHARACTERIZATION: ^{235}U Assay Analysis	^{235}U Mass Analysis	Subcritical Mass Limits	NDA Radiation Surveys	NCS CLASSIFICATION
RFD = 110435 Description: OEM EXHAUST WET AIR TRAP 18" X 8' Independent Confirmations: Individual #1: [illegible] Date: 8-8-01 Individual #2: HCAdkison Date: 8-7-01 Other Information: Bldg. Col. C-335-D-32 DMSA #: C-335-04 Origin: N/A	Historical Documentation: ____ Process Knowledge: ____ Visual Inspections Completed: ____ External Surfaces Inspection ____ Internal Surfaces Inspection Completed By: ____ Date: N/A	Sample A: ___ % ^{235}U ___ 1 sigma (% ^{235}U) ___ 2 sigma (% ^{235}U) ___ Total (^{235}U + 2 sigma) Sample B: ___ % ^{235}U ___ 1 sigma (% ^{235}U) ___ 2 sigma (% ^{235}U) ___ Total (^{235}U + 2 sigma)	Sample A: ___ g ^{235}U Sample B: ___ g ^{235}U	___ kg ^{235}U ___ Moderated Limits ___ Hydrated Limits N/A	Sample A: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: ___ % ^{235}U Mass: ___ g ^{235}U Submitted By: ____ Date: ____ Sample B: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: ___ % ^{235}U Mass: ___ g ^{235}U Submitted By: ____ Date: ____	Initial Classification: ✓ NCS-Exempt ___ Spacing-Controlled ___ Singularly-Contingent DMSA Inspector: ____ Date: 8-7- Date: <1 NDA Expert: ____ (if NDA is performed) Date: ____ Independent Verifications: Person #1: ____ Date: ____ Person #2: ____ Date: ____ Reclassification: (if needed) ___ NCS-Exempt ___ Spacing-Controlled ___ Singularly-Contingent DMSA Inspector: ____ Date: ____ NDA Expert: ____ (if NDA is performed) Date: N/A Independent Verifications: Person #1: ____ Date: ____ Person #2: ____ Date: ____

Comments: NCS EXEMPT BY PREVIOUS CHARACTERIZATION (DMSA # 335-04-034). REFER TO ATTACHED SHEETS FOR DETAILED INFORMATION

Approved to Relocate: To ____ Further NCS characterization is required. Item does not contain Singularly-Contingent mass. NDA Expert #1: ____ Date: ____ NDA Expert #2: ____ Date: ____	I have independently confirmed the identification and description for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match. Independent Person #1: ____ Date: ____ Independent Person #2: ____ Date: ____	I have independently confirmed the destination for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match. Independent Person #1: ____ Date: ____ Independent Person #2: ____ Date: ____

N/A

Rev. 3 (10/2000)

110435

DMSA - Characterization Form

Item Number: DMSA-335-04-034 Building: 335 DMSA #: 335-04

MAY 24 2000

Item Description: SEAL EXHAUST / WET AIR TRAP 18" X 8'

Origin: LDP Owner Status: Capital Equipment ID: NA

Analytical Data

Initial Characterization

- No NCS Concerns (Not Process Equipment)
- Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process and is completed and attached.

Visual Inspection

- Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

NA

- Assay Assumed: 0
- Sample Request and Receipt Form Issued
- Assay Smear Samples Complete
- Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0.614

- NDA Requested
- NDA Complete

Sample A:

Assay Used: 0

Pounds U: 0

U-235 (g): 0

Sample B:

Assay Used: 0

Pounds U: 0

U-235(g): 0

NA

NCS Classification

- NCS-Exempt
- LS
- UH
- PEH

Characterization Completed By:

Name: [illegible]

Badge #: 662505

Date: 5-24-00

7-30-01

RCRA or TSCA Issues Identified

NA

Comments:

Item relocated

New Location: Building:

DMSA #:

ENTERED 5-25-00

110435

Date Printed: Monday, February 21, 2

DOE

LLW

RFD

Document ID Number 110436

Request For Disposal

Generation Process Information (Completed by Generator)

W1. Generator's Name (Print)	W2. Badge No.	W3. Generator's Phone No.	W3. Mail Stop	W5. Charge No. / WO
Eric Rimmine	703681	441-5140	C-743-T1	

W6. Generator's Company	W7. Corp Owner	W8. Origin Site	W9. Origin Facility	W10. Origin Area	W11. Rad Area?
WESKEM	DOE	PGDP	C-335	C-335-04	☑ Yes ☐ No

W12. Number of Items	W13. Process Category (GCC)	W14. Process Activity Code	W15. AWA Number	W16. Physical Form
1	LEG	A73	—	SOLID

W17. Material Type(s)	W18. Holding Site	W19. Holding Facility	W20. Holding Area	W21 RFD Attachment
MT007	PGDP	C-335	C-335-04	☑ A ☐ B ☐ C

Waste Subcategories (Check all that apply)

	Yes	No		Yes	No		Yes	No		Yes	No
W22. Biological		✓	W25. Const. Debris		✓	W28. Non-Friable Asbestos		✓	W31. DMSA	✓	
W23. Accountable		✓	W26. Classified		✓	W29. TRU Waste		✓			
W24. Carcinogen		✓	W27. Friable Asbestos		✓	W30. CERCLA		✓			

Waste Description / Comments

W32. DMSA-335-04-036; SEAL EXHAUST TRAP

D.C. DMSA011041 Zone 2

This is to certify that the above named material is properly described and in the stated container, which is in good condition, marked with the RFD number, content, appropriate generation date, source location, and at the stated location.

W33. Generation Plan No.	W34. Generator's Signature	Date
	[signature]	8-7-01

Handling / Pickup Information (Completed by Waste Management)

P1. Pick-up Site	P2. Pick-up Facility	P3. Pick-up Room/Area

P4. PPE Requirements

P5. Container-Labeling Requirements

___ RCRA	___ PCB	___ DET PCB (<50ppm & source <50ppm)	___ RAD	___ DOE
___ FISSILE	___ NCS EXEMPT	___ RD CONFIDENTIAL	___ ACID	___ USEC
___ FLAMMABLE	___ COMBUSTIBLE	___ OXIDIZER	___ BASE	___ WESKEM
___ ASBESTOS	___ REACTIVE	___ TRANSURANIC	___ NON-HAZ	

P6. Additional Handling Instructions

Verify Labeling, Barcode, and Zone

Reference FWR

Origin Date

PCB Start Date

RCRA Start Date

P7. Waste Coordinator (Issued By)	Badge	Date	P8. Disposal/Storage Completed By	Badge	Date
Eric Rimmine	703681	8-7-01	Billy Stacy	704279	8-7-01

P9. Field Supervisor	Badge	Date	P10. Data Processing Completed By	Badge	Date
D A Wade	11357	8/7/01	Chy Walker		8-10-01

P11. Waste Item Information

Waste Item No. RFD110436-01

Container No. (Barcode) DMSA 011041 1

Weight 1200 lbs

Location and Grid 335-04-ZONE 2

Container Size 25 FT3

P12. Operator Comments

BJCF-515a (03/01)

DMSA

received 8-9-01

LOW-LEVEL RADIOACTIVE WASTE

ATTACHMENT A

DOCUMENT ID NUMBER 110436

PROHIBITED ITEMS

A1. PYROPHORIC MATERIALS -OTHER THAN RADIOACTIVE FORMS OF ISOTOPES	A2. ACTIVE CHELATING AGENTS	A3. TRU RADIOISOTOPES >100 nCi/g	A4. EXPLOSIVE MATERIALS	
☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	
A5. ETILOGICAL AGENTS	**A6. IGNITION SOURCES**	**A7. FREE LIQUIDS (Unless Wastewater)**	**A8. RCRA WASTE**	**A9. TSCA WASTE**
☐ YES ☑	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO

A10. WASTE VARIANCE REQUEST NUMBER(S)

ADDITIONAL WASTE CHARACTERISTICS

A11. CHELATING AGENTS	A12. ION EXCHANGE RESINS	A13. DETECTABLE PCB (Concen. And Source <50 ppm)	A14. WASTEWATER
☐ YES ☑	☐ YES ☑ NO	☐ YES ☑ NO CONC. ppm	☐ YES ☑ NO

RADIOISOTOPE DETERMINATION METHOD

DOCUMENT TYPE	DOCUMENT NUMBER
R1. ANALYSIS SAMPLE ID NO.	
R2. PROCESS KNOWLEDGE FORM NO.	0210

R3. FISSILE CONTENT (Wt% U-235)	R4. GRAMS U-235	R5. NCS EXEMPT	R5. CHEMICAL FORM
		☑ YES ☐ NO	

OTHER SAMPLE ANALYSIS

DOCUMENT TYPE	DOCUMENT NUMBER
O1. ANALYSIS SAMPLE ID NO.	
O2. PROCESS KNOWLEDGE FORM NO.	

RADIATION DATA FROM HEALTH PHYSICS SURVEY SURFACE CONTAMINATION (Data Supplied by HP)

R7. AIR SURVEY REQUIRED ☐ YES ☐ NO

R8. TRANSFERABLE (Alpha) dpm/100cm2	R9. FIXED (Alpha) dpm/100cm2
R10. TRANSFERABLE (Beta/Gamma) dpm/100cm2	R11. FIXED (Beta/Gamma) dpm/100cm2
R12. EXTERNAL DOSE/PACKAGE CONTACT MREM/HR	R13. DOSE RATE MREM/HR @ METERS (B/G)
R14. HP SIGNATURE	R15. SURVEY NUMBER

WASTE ITEM CONTAINER LOG

10. ITEM/CONTAINER	DOCUMENT ID NUMBER
1 OF 1	110436

11. WASTE ITEM ID NO.	12. ORIGIN DATE	13 RCRA ACCUMULATION START DATE	14 PCB DATE TO STORAGE
110436-01	8-7-01	—	—

15. WASTE MATERIAL PLACED IN (Or Removed From) CONTAINER	16. QUANTITY	17. DEPOSITOR INITIAL	17. DEPOSITOR DATE	18. COMMENTS (If Waste is removed from container, then final disposition must be noted.)
Seal exhaust trap	1	BH.	8-7-01	DMSA 335-04-036 Zone 2

19 CONTAINER ID NO (Barcode)	110 ABSORBENT MATERIALS? QUANTITY TYPE	111. NMC&A FORM	112. EST. NET VOLUME	113 UNITS
USA0110 411	☐ YES ☐ NO		25 ft³	Cubic ft.

114 GROSS WEIGHT	115. UNITS	116. INNER CONTAINER TYPE	117 OUTER CONTAINER TYPE	118. TANK SEAL NUMBER
200 lbs. EST.				

119. CONTAINER GENERATOR SIGNATURE	DATE
Bill Hoge	8-7-01

UCN 20700 PAGE 2

DOE Material Storage Area (DMSA) Item - NCS Characterization Form

ITEM	INITIAL CHARACTERIZATION	ANALYTICAL CHARACTERIZATION				NCS CLASSIFICATION
		^{235}U Assay Analysis	^{235}U Mass Analysis	Subcritical Mass Limits	NDA Radiation Surveys	
RFD = 110436	Historical Documentation:	Sample A:	Sample A:	ke^{235}U	Sample A:	Initial Classification:
		% ^{235}U	g ^{235}U	Moderated Limits	Date & Time Performed: ___/___/___ ___am ___pm	NCS-Exempt
		1 sigma (% ^{235}U)			Date & Time Results Rec'd: ___/___/___ ___am ___pm	Spacing-Controlled
Independent Confirmations: Individual #1:	Process Knowledge:	2 sigma (% ^{235}U)		Hydrated Limits	Assumed Assay: ___ % ^{235}U	Singularly-Contingent
		Total (^{235}U + 2 sigma)	Sample B:		Mass: ___ g ^{235}U	DMSA Inspector:
Date: 8-7-01					Submitted By:	Person: (if NDA performed)
		Sample B:	g ^{235}U		Date:	Date:
Other Information:	External Surfaces Inspection				Sample B: Date & Time Performed: ___/___/___ ___am ___pm	Independent Verifications: Person #1: Date: Person #2: Date:
Bldg Col: C-335-D-32	Internal Surfaces Inspection	% ^{235}U			Date & Time Results Rec'd: ___/___/___ ___am ___pm	Reclassification: (if needed) NCS-Exempt
DMSA = C-335-06	Completed By:	1 sigma (% ^{235}U)		N/A	Assumed Assay: ___ % ^{235}U	Spacing-Controlled
	Date: N/A	2 sigma (% ^{235}U)			Mass: ___ g ^{235}U	Singularly-Contingent
		Total (^{235}U + 2 sigma)			Submitted By:	DMSA Inspector: Date:
					Date:	NDA Expert: (if NDA is performed) Date: N/A
						Independent Verifications: Person #1: Date: Date:

Comments: NCS EXEMPT BY PREVIOUS CHARACTERIZATION (DMSA# 335-04-036)
REFER TO ATTACHED SHEETS FOR DETAILED INFORMATION

Approved to Relocate: To ___ Further NCS characterization is required. Item does not contain Singularly-Contingent mass. NDA Expert #1: ___ Date: ___ NDA Expert #2: ___ Date: ___ N/A	I have independently confirmed the identification and description for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match. Independent Person #1: ___ Date: ___ Independent Person #2: ___ Date: ___	I have independently confirmed the destination for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match. Independent Person #1: ___ Date: ___ Independent Person #2: ___ Date: ___

Rev. 3 (10/2000)

110431

DMSA - Charac zation Form

Item Number: DMSA-335-04-036 Building: 335 DMSA #: 335-04

Item Description: SEAL EXHAUST / WET AIR TRAP 18" 75 / JUN 0 2 2000

Origin: GDP Owner Status: DOE ~~N/A~~ Capital Equipment ID: N/A

Analytical Data

Initial Characterization

Operating History

- No NCS Concerns (Not Process Equipment)
- Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

N/A

Assay

Assay Assumed: 0

✓ Sample Request and Receipt Form Issued

✓ Assay Smear Samples Complete

✓ Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0.5608

Mass

☐ NDA Requested

☐ NDA Complete

Sample A:

Assay Used: 0

Pounds U: 0

U-235 (g): 0

Sample B:

Assay Used: 0

Pounds U: 0

U-235(g): 0

N/A

NCS Classification

X NCS-Exempt

LS

UH

PEH

Characterization Completed By:

Name: H C Anderson

Badge #: C520574

Date: 6-6-00

7-30-01

RCRA or TSCA Issues Identified N/A

Comments:

✓ Item relocated N/A

New Location: Building: 335-04-003 B25

DMSA #:

ENTERED 6-8-00

110436

Date Printed: Monday, February 21, 2000

DOE

LLW

RFD

Document ID Number 110437

Request For Disposal

Generation Process Information (Completed by Generator)

W1. Generator's Name (Print)	W2. Badge No.	W3. Generator's Phone No.	W3. Mail Stop	W5. Charge No. / WO
Eric Rimmins	703681	441-5140	C-743-T1	

W6. Generator's Company	W7. Corp Owner	W8. Origin Site	W9. Origin Facility	W10. Origin Area	W11. Rad Area?
WESKEM	DOE	PGDP	C-335	C-335-04	☑ Yes ☐ No

W12. Number of Items	W13. Process Category (GCC)	W14. Process Activity Code	W15. AWA Number	W16. Physical Form
1	LEG	A13	—	SOLID

W17. Material Type(s)	W18. Holding Site	W19. Holding Facility	W20. Holding Area	W21 RFD Attachment
MT007	PGDP	C-335	C-335-04	☑ A ☐ B ☐ C

Waste Subcategories (Check all that apply)

	Yes	No		Yes	No		Yes	No		Yes	No
W22. Biological		✓	W25. Const. Debris		✓	W28. Non-Friable Asbestos		✓	W31. DMSA	✓	
W23. Accountable		✓	W26. Classified		✓	W29. TRU Waste		✓			
W24. Carcinogen		✓	W27. Friable Asbestos		✓	W30. CERCLA		✓			

Waste Description / Comments

W32. DMSA-335-04-001-024; (24) "00" Convertor Transition Pcs.

DC DMSA 110412 Zone 2

This is to certify that the above named material is properly described and in the stated container, which is in good condition, marked with the RFD number, content, appropriate generation date, source location, and at the stated location.

W33. Generation Plan No.	W34. Generator's Signature	Date
	[signature]	8-7-01

Handling / Pickup Information (Completed by Waste Management)

P1. Pick-up Site	P2. Pick-up Facility	P3. Pick-up Room/Area

P4. PPE Requirements

P5. Container-Labeling Requirements

___ RCRA	___ PCB	___ DET PCB (<50ppm & source <50ppm)	___ RAD	___ DOE
___ FISSILE	___ NCS EXEMPT	___ RD CONFIDENTIAL	___ ACID	___ USEC
___ FLAMMABLE	___ COMBUSTIBLE	___ OXIDIZER	___ BASE	___ WESKEM
___ ASBESTOS	___ REACTIVE	___ TRANSURANIC	___ NON-HAZ	

P6. Additional Handling Instructions

Verify Loading, Barcode, out Zone

Reference FWR	
Origin Date	
PCB Start Date	
RCRA Start Date	

P7. Waste Coordinator (Issued By)	Badge	Date	P8. Disposal/Storage Completed By	Badge	Date
Eric Rimmins	703681	8-7-01	William K Stacy	704279	8-7-01

P9. Field Supervisor	Badge	Date	P10. Data Processing Completed By	Badge	Date
D A Wade	113577	8/10/01	M. Walker		8-10-01

P11. Waste Item Information

Waste Item No. 110437-01

Container No. (Barcode) DMSA 110412

Weight EST - 9000 lbs

Location and Grid DMSA-335-04-ZONE 2

Container Size EST 175 ft^3 FEET

P12. Operator Comments

BJCF-515a (03/01)

DMSA

received 8-9-01

LOW-LEVEL RADIOACTIVE WASTE

ATTACHMENT A

DOCUMENT ID NUMBER 110437

PROHIBITED ITEMS

A1. PYROPHORIC MATERIALS -OTHER THAN RADIOACTIVE FORMS OF ISOTOPES	A2. ACTIVE CHELATING AGENTS	A3. TRU RADIOISOTOPES >100 nCi/g	A4. EXPLOSIVE MATERIALS
☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO

A5. ETILOGICAL AGENTS	A6. IGNITION SOURCES	A7. FREE LIQUIDS (Unless Wastewater)	A8. RCRA WASTE	A9. TSCA WASTE
☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO

A10. WASTE VARIANCE REQUEST NUMBER(S)

ADDITIONAL WASTE CHARACTERISTICS

A11. CHELATING AGENTS	A12. ION EXCHANGE RESINS	A13. DETECTABLE PCB (Concen. And Source <50 ppm) CONC.	A14. WASTEWATER
☐ YES ☑ NO	☐ YES ☑ NO	☐ YES ☑ NO ppm	☐ YES ☑ NO

RADIOISOTOPE DETERMINATION METHOD

DOCUMENT TYPE	DOCUMENT NUMBER
R1. ANALYSIS SAMPLE ID NO.	
R2. PROCESS KNOWLEDGE FORM NO.	0210

R3. FISSILE CONTENT (Wt% U-235)	R4. GRAMS U-235	R5. NCS EXEMPT	R5. CHEMICAL FORM
		☑ YES ☐ NO	

OTHER SAMPLE ANALYSIS

DOCUMENT TYPE	DOCUMENT NUMBER
O1. ANALYSIS SAMPLE ID NO.	
02. PROCESS KNOWLEDGE FORM NO.	

RADIATION DATA FROM HEALTH PHYSICS SURVEY SURFACE CONTAMINATION (Data Supplied by HP)

R7. HP SURVEY REQUIRED

☐ YES ☐ NO

R8. TRANSFERABLE (Alpha)	R9. FIXED (Alpha)
dpm/100cm2	dpm/100cm2
R10. TRANSFERABLE (Beta/Gamma)	R11. FIXED (Beta/Gamma)
dpm/100cm2	dpm/100cm2

R14. HP SIGNATURE	R15. SURVEY NUMBER

WASTE ITEM CONTAINER LOG

I0. ITEM/CONTAINER	OF	DOCUMENT ID NUMBER 110437

I1 WASTE ITEM ID NO	I2 ORIGIN DATE	I3 RCRA ACCUMULATION START DATE	I4 PCB DATE TO STORAGE
110437-01	8-7-01		

I5. WASTE MATERIAL PLACED IN (Or Removed From) CONTAINER	I6. QUANTITY	I7. DEPOSITOR INITIAL	I7. DEPOSITOR DATE	I8. COMMENTS (If Waste is removed from container, then final disposition must be noted.)
"00" Converter transition pcs.	1	BHO	8-7-01	DMSA 335-04-001-024 Zone 2 24 pcs. bundled as 1 item.

I9. CONTAINER ID NO. (Barcode)	I10. ABSORBENT MATERIALS? QUANTITY TYPE	I11. NMC&A FORM	I12. EST. NET VOLUME	I13. UNITS
DMSA0110412	[ ] YES [✓] NO		175 ft3	Cubic ft

I14 GROSS WEIGHT	I15. UNITS	I16. INNER CONTAINER TYPE	I17 OUTER CONTAINER TYPE	I18 TANK SEAL NUMBER
est. 9,000 lbs				

Rick Hoes

DATE 8-7-01

UCN 20700 PAGE 2

DOE Material Storage Area (DMSA) Item - NCS Characterization Form

ITEM	INITIAL CHARACTERIZATION	ANALYTICAL CHARACTERIZATION: ^{235}U Assay Analysis	^{235}U Mass Analysis	Subcritical Mass Limits	NDA Radiation Surveys	NCS CLASSIFICATION
RFD = 110437 Description: "00" CONVERTER TRANSITION PIECE 24 EA. Independent Confirmations: Individual #1: [illegible] Date: 8-8-01 Individual #2: H C Anderson Date: 8-7-01 Other Information: Bldg/Col: C-335 C-33 DMSA = C-335-04 Origin: N/A	Historical Documentation: Process Knowledge: Visual Inspections Completed: ____ External Surfaces Inspection ____ Internal Surfaces Inspection Completed By: Date: N/A	Sample A: __ % ^{235}U __ 1 sigma (% ^{235}U) __ 2 sigma (% ^{235}U) __ Total (^{235}U + 2 sigma) Sample B: __ % ^{235}U __ 1 sigma (% ^{235}U) __ 2 sigma (% ^{235}U) __ Total (^{235}U + 2 sigma)	Sample A: __ g ^{235}U Sample B: __ g ^{235}U	__ kg ^{235}U , __ Moderated Limits , __ Hydrated Limits N/A	Sample A: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: __ % ^{235}U Mass: __ g ^{235}U Submitted By: Date: Sample B: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: __ % ^{235}U Mass: __ g ^{235}U Submitted By: Date:	Initial Classification: ✓ NCS-Exempt ____ Spacing-Controlled ____ Singularly-Contingent DMSA Inspector: H C Anderson Date: 8-7-01 NDA Expert: (if NDA is performed) Date: Independent Verifications: Person #1: Date: Person #2: Date: Reclassification: (if needed) ____ NCS-Exempt ____ Spacing-Controlled ____ Singularly-Contingent DMSA Inspector: Date: NDA Expert: (if NDA is performed) Date: N/A Independent Verifications: Person #1: Date: Person #2: Date:

Comments: NCS EXEMPT BY PREVIOUS CHARACTERIZATION (DMSA # 335-04-001 THRU-024)
REFER TO ATTACHED SHEETS FOR DETAILED INFORMATION

Approved to Relocate: To Further NCS characterization is required. Item does not contain Singularly-Contingent mass. NDA Expert #1: Date: NDA Expert #2: N/A Date:	I have independently confirmed the identification and description for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match. Independent Person #1: Date: Independent Person #2: Date:	I have independently confirmed the destination for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match. Independent Person #1 Date: Independent Person #2: Date:

Rev. 3 (10/2000)

110437

DMSA - Chara[illegible]ation Form

MAR 0 9 ENTD

Item Number: DMSA-335-04-001 Building: 335 DMSA #: 335-04

Item Description: "OO" Converter Transition Piece

Origin: PGDP Owner Status: ~~N/A~~ DOE Capital Equipment ID: N/A

Initial Characterization

Operating History

- [ ] S o NCS Concerns (Not Process Equipment)
- [x] Independent Verification Form (verifying no NCS concerns due to equipment has never Seen exposed to process gas) is completed and attached.

Visual Inspection

- [ ] Independent Verification iorm (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Analytical Data

Assay

- [ ] Assay Assumed: 0
- [ ] Sample Request and Receipt Form Issued
- [ ] Assay Smear Samples Complete
- [ ] Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0

NA

Mass

- [ ] NDA Requested
- [ ] NDA Complete

Sample A:

Assay Used: 0
Pounds U: 0
U-235 (g): 0

Sample B:

Assay Used: 0
Pounds U: 0
U-235(g): 0

NA

NCS Classification

- [x] NCS-Exempt
- [ ] LS
- [ ] UH
- [ ] PEH

Characterization Completed By:

Name: C. Willis
Badge #: 662503
Date: 3-8-00

- [ ] RCRA or TSCA Issues Identified

Comments:

NA

- [ ] Item relocated NA
- New Location: Building:
  DMSA #:

7-30-01 HCA

NMC&A Exempt
No visible Uranium

cgl 3-9-00

ENTERED 3-10-00

~~110477~~ 110437

Date Printed: Monday, February 21, 2000

DMSA - Charac[illegible]ation Form

MAR 0 9 ENTD

Item Number: DMSA-335-04-002 Building: 335 DMSA #: 335-04

Item Description: "00" Converter Transition Piece

Origin: PGDP Owner Status: ~~DOE~~ DOE Capital Equipment ID: NA

Analytical Data

Initial Characterization

Operating History

- [ ] No NCS Concerns (Not Process Equipment)
- [ ] Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- [ ] Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Assay

- [ ] Assay Assumed:
- [ ] Sample Request and Receipt Form Issued
- [ ] Assay Smear Samples Complete
- [ ] Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0

NA

Mass

- [ ] NDA Requested
- [ ] NDA Complete

Sample A:

Assay Used: 0

Pounds U: 0

U-235 (g): 0

Sample B:

Assay Used: 0

Pounds U: 0

U-235 (g): 0

NA

NCS Classification

- [x] NCS-Exempt
- [ ] LS
- [ ] UH
- [ ] PEH

Characterization Completed By:

Name: CW Walter

Badge #: 662525

Date: 3-8-00

[ ] RCRA or TSCA Issues Identified

NA

Comments:

[ ] Item relocated NA

New Location: Building:

DMSA #:

7-30-01

NMC&A Exempt
No visible Uranium

3-9-00

ENTERED 3-10-00

Date Printed: Monday, February 21, 2000

DMSA - Charac ation Form

Item Number: DMSA-335-04-003 Building: 335 DMSA #: 335-04

Item Description: 00 Converter Transfer Piece MAR 0 9 ENT'D

Origin: PGDP Owner Status: Capital Equipment ID: NA

Analytical Data

Initial Characterization	Assay	Mass	NCS Classification
Operating History ☐ No NCS Concerns (Not Process Equipment) ☐ Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached. **Visual** Inspection ☐ Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.	☐ Assay Assumed: 4 ☐ Sample Request and Receipt Form Issued ☐ Assay Smear Samples Complete ☐ Independent Verification of Assay form completed and attached. Assay wt%U-235: 0	☐ NDA Requested ☐ NDA Complete Sample A: Assay Used: 0 0 **U-235** (g): 0 Sample B: Assay Used: 0 Pounds U: 0 U-235(g): 0	☒ NCS-Exempt ☐ LS ☐ UH ☐ PEH Characterization Completed By: Name: Caudill Badge #: 662505 Date: 3-8-00
NA		NA	

☐ RCRA or TSCA Issues Identified

Comments:

☐ Item relocated NA

New Location: Building:

DMSA #:

7-30-01

NMC&A Exempt
No visible Uranium

ENTERED 3-10-00

Date Printed: Monday, February 21, 2000

DMSA - Characterization Form

MAR 0 9 ENTD

Item Number: DMSA-335-04-004 Building: 335 DMSA #: 335-04

Item Description: "00" Converter Transition Piece

Origin: PGDP Owner Status: ~~NA~~ ~~3-8-00~~ DOE Capital Equipment ID: NA

Initial Characterization

Operating History

- ☐ No NCS Concerns (Not Process Equipment)
- ☒ Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- ☐ Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Analytical Data

Assay

- ☐ Assay Assumed: 0
- ☐ Sample Request and Receipt Form Issued
- ☐ Assay Smear Samples Complete
- ☐ Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0

NA

Mass

- ☐ NDA Requested
- ☐ NDA Complete

Sample A:

Assay Used: 0
Pounds U: 0
U-235 (g): 0

Sample B:

Assay Used: 0
Pounds U: 0
U-235(g): 0

NA

NCS Classification

- ☒ NCS-Exempt
- ☐ LS
- ☐ UH
- ☐ PEH

Characterization Completed By:

Name: [illegible]
Badge #: 662305
Date: 3-8-00

☐ RCRA or TSCA Issues Identified

Comments:

NA

☐ Item relocated NA

New Location: Building:
DMSA #:

7-30-01 [illegible]

NMC&A Exempt
No visible Uranium

cal 3-9-00

ENTERED 3-10-00

1104: 7

Date Printed: Monday, February 21, 2000

DMSA - Characterization Form

MAR 0 9 ENTD

Item Number: DMSA-335-04-005 Building: 335 DMSA #: 335-04

Item Description: "OO" Converter Transfer Pipe

Origin: PGDP Owner Status: DOE ~~NA~~ Capital Equipment ID: NA

Analytical Data

Initial Characterization

Operating History

☐ No NCS Concerns (Not Process Equipment)

☐ Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

☐ Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Assay

☐ Assay Assumed: 0

☐ Sample Request and Receipt Form Issued

☐ Assay Smear Samples Complete

☐ Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0

NA

Mass

☐ NDA Requested

☐ NDA Complete

Sample A:

Assay Used: 0

Pounds U: 0

U-235 (g): 0

Sample B:

Assay Used: 0

Pounds U: 0

U-235(g): 0

NA

NCS Classification

☒ NCS-Exempt

☐ LS

☐ UH

☐ PEH

Characterization Completed By:

Name: [illegible]

Badge #: 462505

Date: 3-8-00

☐ RCRA or TSCA Issues Identified

Comments:

NA

☐ Item relocated NA

New Location: Building:

DMSA #:

7-30-01 NA

NMC&A Exempt
No visible Uranium

cal 3-9-00

110043

ENTERED 3-10-00

Date Printed: Monday, February 21, 2000

DMSA - Chara zation Form

MAR 0 9 ENTD

Item Number: DMSA-335-04-006 Building: 335 DMSA #: 335-04

Item Description: "OD" Converter Transition Piece

Origin: PGDP Owner Status: ~~NCA~~ DOE Capital Equipment ID: NA

Initial Characterization

Operating History

- No NCS Concerns (Sot Process Equipment)
- X Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Analytical Data

Assay

- Assay Assumed: 0
- Sample Request and Receipt Form
- Assay Smear Samples Complete
- Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0

NA

Mass

- NDA Requested
- NDA Complete

Sample A:

Assay Used: 0
Pounds U: 0
U-235 (g): 0

Sample B:

Assay Used: 0
Pounds U: 0
U-235(g): 0

NA

NCS Classification

- X NCS-Exempt
- LS
- UH
- PEH

Characterization Completed By:

Name: [illegible]
Badge #: 662505
Date: 3-8-00

- RCRA or TSCA Issues identified

Comments:

NA

- Item relocated NA

New Location: Building:
DMSA #:

Hat 2-30-01

110437

ENTERED 3-10-00

NMC&A Exempt
No visible Uranium

[illegible] 3-9-00

Date Printed: Monday, February 21, 2000

DMSA - Chara ization Form

MAR 0 9 ENTD

Item Number: DMSA-335-04-007 Building: 335 DMSA #: 335-04

Item Description: "00" Converter Transition Piece

Origin: PGDP Owner Status: ~~NNA-3-9-00~~ DOE Capital Equipment ID: NA

Analytical Data

Initial Characterization

Operating History

- No SCS Concerns (Not Process Equipment)
- X Independent Verification Form (verifying no MCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and atrached.

Assay

Assay Assumed: 0

Issued

Assay Smear Samples Complete

Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0

NA

Mass

NDA Requested

NDA Complete

Sample A:

Assay Used: 0

Pounds U: 0

U-235 (g): 0

Sample B:

Assay Used: 0

Pounds U: 0

U-235(g): 0

NA

NCS Classification

X NCS-Exempt

LS

UH

PEH

Characterization Completed By:

Name: Cunningham

Badge #: 662505

Item relocated NA

New Location: Building:

DMSA #:

RCRA or TSCA Issues Identified

Comments:

NA

7-30-
NA
1104

NMC&A Exempt
No visible Uranium

3-9-00

CONFIRMED 3-10-00

Date Printed: Monday, February 21, 2000

DMSA - Chara[illegible]zation Form

MAR 0 9 ENTD

Item Number: DMSA-335-04-008 Building: 335 DMSA #: 335-04

Item Description: "00" Converter Transition Piece

Origin: PGDP Owner Status: ~~DOE~~ DOE Capital Equipment ID: NA

Analytical Data

Initial Characterization

Operating History

- ☐ No NCS Concerns (Not Process Equipment)
- ☑ dependent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- ☐ Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Assay

- ☐ Assay Assumed: 0
- ☐ Sample Request and Receipt Form Issued
- ☐ Assay Smear Samples Complete
- ☐ Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0

NA

Mass

- ☐ NDA Requested
- ☐ NDA Complete

Sample A:

Assay Used: 0
Pounds U: 0
U-235 (g): 0

Sample B:

Assay Used: 0
Pounds U: 0
U-235(g): 0

NA

NCS Classification

- ☒ NCS-Exempt
- ☐ LS
- ☐ UH
- ☐ PEH

Characterization Completed By:

Name: C Wheeler
Badge #: 662505
Date: 3-8-00

☐ RCRA or TSCA Issues Identified

Comments:

NA

☐ Item relocated NA

New Location: Building:
DMSA #:

7-30-01 H.C.F. H0437

NMC&A Exempt
No visible Uranium

Crl 3-9-00

ENTERED 3-10-00

Date Printed: Monday, February 21, 2000

DMSA - Characterization Form

Item Number: DMSA-335-04-009 Building: 335 DMSA #: 335-04

MAR 09 ENTD

Item Description: "OD" Converter Transition Piece

Origin: PGDP Owner Status: ~~Hold 3-8-00~~ ~~DOE~~ Capital Equipment ID: NA

Analytical Data

Initial Characterization

Operating History

- No NCS Concerns (Not Process Equipment)
- %.Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Assay

- Assay Assumed: 0
- Sample Request and Receipt Form Issued
- Assay Smear Samples Complete
- Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0

NA

Mass

- NDA Requested
- NDA Complete

Sample A:

Assay Used: 0

Pounds U: 0

U-235 (g): 0

Sample B:

Assay Used: 0

Pounds U: 0

U-235(g): 0

NA

NCS Classification

- X NCS-Exempt
- LS
- UH
- PEN

Characterization Completed By:

Name:

Badge #: 662505

Date: 3-8-00

- RCRA or TSCA Issues Identified

Comments:

NA

- Item relocated NA

New Location: Building:

DMSA #:

7-30-01 FAH

110437

NMC&A Exempt
S o visible Uranium

cyl 3-9-00

CONTROL OFFICE 3-8-00 10

Date Printed: Monday, February 21, 2000

DMSA - Chara zation Form

Item Number: DMSA-335-04-010 Building: 335 DMSA #: 335-04

Item Description: 00 Converter Transition Piece

MAR 0 9 ENT'D

Origin: PGDP Owner Status: ~~DOE~~ DOE Capital Equipment ID: NA

Initial Characterization

Operating History

- No NCS Concerns (not Process Equipment)
- [X] Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Analytical Data

Assay

- Assay Assumed: 0
- Sample Request and Receipt Form Issued
- Assay Smear Samples Complete
- Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0

NA

Mass

- [ ] NDA Requested
- [ ] NDA Complete

Sample A:

Assay Used: 0
Pounds U: 0
U-235 (g): 0

Sample B:

Assay Used: 0
Pounds U: 0
U-235(g): 0

NA

NCS Classification

- [X] NCS-Exempt
- [ ] LS
- [ ] UH
- [ ] PEH

Characterization Completed By:

Name: Cuscalli
Badge #: 662505
Date: 3-8-00

RCRA or TSCA Issues Identified

Comments:

NA

[ ] Item relocated NA

New Location: Building:

DMSA #:

7-30-01 HCA 110437

NMC&A Exempt
No visible Uranium

cel 3-9-00

ENTERED 3-10-00

Date Printed: Monday, February 21, 2000

DMSA - Chara zation Form

Item Number: DMSA-335-04-011 Building: 335 DMSA #: 335-04

MAR 0 9 ENTD

Item Description: 00 Converter Transition Piece

Origin: PG-SP Owner Status: ~~NA 3-8-00~~ DOE Capital Equipment ID: NA

Analytical Data

Initial Characterization

Operating History

- [ ] No NCS Concerns (Not Process Equipment)
- [x] Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- [ ] Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Assay

- [ ] Assay Assumed: 0
- [ ] Sample Request and Receipt Form Issued
- [ ] Assay Smear Samples Complete
- [ ] Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0

NA

Mass

- [ ] NDA Requested
- [ ] NDA Complete

Sample A:

Assay Used: 0
Pounds U: 0
U-235 (g): 0

Sample B:

Assay Used: 0
Pounds U: 0
U-235(g): 0

NA

NCS Classification

- [x] NCS-Exempt
- [ ] LS
- [ ] UH
- [ ] PEH

Characterization Completed By:

Name: CW Walker
Badge #: 662505
Date: 3-8-00

- [ ] RCRA or TSCA Issues Identified

Comments:

NA

- [ ] Item relocated NA

New Location: Building:
DMSA #:

7-30-01
#44

110437

No visible Uranium

CW 3-7-00

Date Printed: Monday, February 21, 2000

?I-

DMSA - Charac[illegible]ation Form

MAR 0 9 ENTD

Item Number: DMSA-335-04-012 Building: 335 DMSA #: 335-04

Item Description: "OO" Converter Transition Piece

Origin: PG-DP Owner Status: ~~DOE~~ DOE Capital Equipment ID: NA

Analytical Data

Initial Characterization

Operating History

- No NCS Concerns (Not Process Equipment)
- [X] Independent Verification Form (verifying no NCS concerns due to equipment has never been esposed to process gas) is completed and attached.

Visual Inspection

- [ ] Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Assay

- Assay Assumed: 0
- Sample Request and Receipt Form Issued
- Assay Smear Samples Complete
- Independent Verification of Assay form completed and attached.

Assay wt% U-235: 0

NA

Mass

- [ ] NDA Requested
- [ ] NDA Complete

Sample A:

Assay Used: 0
Pounds U: 0
U-235 (g): 0

Sample B:

Assay Used: 0
Pounds U: 0
U-235(g): 0

NA

NCS Classification

- [X] NCS-Exempt
- [ ] LS
- [ ] UH
- [ ] PEH

Characterization Completed By:

Name: Cuiballi
Badge #: 662505
Date: 3-8-00

- RCRA or TSCA Issues Identified

NA

Comments:

- [ ] Item relocated

NA

New Location: Building:
DMSA #:

3-20-01

110437

NMC&A Exempt
No visible Uranium

cgl 3-9-00

ENTERED 3-10-00

Date Printed: Monday, February 21, 2000

DMSA - Charac .zation Form

Item Number: DMSA-335-04-013 Building: 335 DMSA #: 335-04

MAR 0 9 ENTD

Item Description: '00 Converter Transition Piece

Origin: PGDP Owner Status: ~~Not DOE~~ DOE Capital Equipment ID: N/A

Analytical Data

Initial Characterization	Assay	Mass	NCS Classification
Operating History S o NCS Concerns (Not Process Equipment) X Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and a;tached. **Visual Inspection** _ independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.	Assay Assumed:] 0 _ Sample Request and Receipt Form Issued _ Assay Smear Samples Complete _ Independent Verification of Assay form completed and attached. Assay wt%U-235: 0 N A	☐ **NDA** Requested ☐ NDA Complete Sample A: Assay Used: 0 Pounds U: 0 U-235 (g): 0 Sample B: Assay Used: 0 Pounds U: 0 U-235(g): 0 N A	X NCS-Exempt ☐ LS ☐ UH ☐ PEH Characterization Completed By: Name: C W Walker Badge #: 662505 Date: 3-8-00

_ RCRA or TSCA issues Identified

Comments:

N A

☐ Item relocated N/A

New Location: Building:

DMSA #:

7-30-01 Mark 110437

NMC&A Exempt
No visible Uranium

ENTERED 3-10-00

cyl 3-9-00

Date Printed: Monday, February 21, 2000

DMSA - Chara[illegible]zation Form

Item [illegible]mber: DMSA-335-04-014 Building: 335 DMSA #: 335-04

MAR 0 9 ENTD

Item Description: 00 Converter Transition Piece

Origin: PGDP Owner Status: ~~NON-DOE~~ DOE Capital Equipment ID: N/A

Analytical Data

Initial Characterization

Operating History

- No NCS Concerns (Not Process Equipment)
- X Independent Verification Form (verifying no SCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Assay

- Assay Assumed: 0
- Sample Request and Receipt Form Issued
- Assay Smear Samples Complete
- Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0

N/A

Mass

- ☐ NDA Requested
- ☐ NDA Complete

Sample A:

Assay Used: 0
Pounds U: 0
U-235 (g): 0

Sample B:

Assay Used: 0
Pounds U: 0
U-235(g): 0

N/A

NCS Classification

- X NCS-Exempt
- ☐ LS
- ☐ UH
- ☐ PEH

Characterization Completed By:

Name: [illegible]
Badge #: 662505
Date: 3-8-00

RCRA or TSCA Issues Identifie

Comments:

N/A

☐ Item relocated N/A

New Location: Building:
DMSA #:

7-30-00 [illegible]

1/0037

ENTERED 3-10-00

NMC&A Exempt
No visible Uranium

Cyl 3-9-00

Date Printed: Monday, February 21, 2000

DMSA - Chara ..zation Form

Item Number: DMSA-335-04-015 Building: 335 DMSA #: 335-04

MAR 0 9 ENT'D

Item Description: 00 Converter Transition Piece

Origin: DG-DP Owner Status: ~~NA~~ DOE Capital Equipment ID: NA

Analytical Data

Initial Characterization

Operating History

- No NCS Concerns (Not Process Equipment)
- X Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Assay

- Assay Assumed: 0
- Sample Request and Receipt Form Issued
- Assay Smear Samples Complete
- Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0

NA

Mass

- NDA Requested
- NDA Complete

Sample A:

Assay Used: 0
Pounds U: 0
U-235 (g): 0

Sample B:

Assay Used: 0
Pounds U: 0
U-235(g): 0

NA

NCS Classification

- X NCS-Exempt
- LS
- UH
- PEH

Characterization Completed By:

Name: [illegible]
Badge #: 6623505
Date: 3-8-00

- RCRA or TSCA issues Identified

Comments:

NA

- Item relocated NA

New Location: Building:
DMSA #:

7-30-01 [illegible]

112637

NMC&A Exempt
No visible Uranium

[illegible] 3-9-00

ENTERED 3-1000

Date Printed: Monday, February 21, 2000

DMSA - Charac zation Form

MAR 0 9 ERD

Item Number: DMSA-335-04-016 Building: 335 DMSA #: 335-04

Item Description: "OD" Converter Transition Piece

Origin: PGDP Owner Status: ~~DOE~~ DOE Capital Equipment ID: NA

Initial Characterization

Operating History

- No NCS Concerns (Not Process Equipment)
- X Independent verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Analytical Data

Assay

- Assay Assumed: 0
- Sample Request and Receipt Form Issued
- Assay Smear Samples Complete
- Independent Verification of Assay form completed and attached.

Assay wt% U-235: 0

NA

Mass

- NDA Requested
- NDA Complete

Sample A:

Assay Used: 0
Pounds U: 0
U-235 (g): 0

Sample B:

Assay Used: 0
Pounds U: 0
U-235 (g): 0

NA

NCS Classification

- X NCS-Exempt
- LS
- UH
- PEH

Characterization Completed By:

Name: [illegible]
Badge #: 662505
Date: 3-8-00

RCRA or TSCA Issues Identified

Comments:

NA

Item relocated NA

New Location: Building:
DMSA #:

7-30-01 [illegible]

110437

NMC&A Exempt
No visible Uranium

[illegible] 3-9-00

ENTERED 3-10-00

Date Printed: Monday, February 21, 2000

DMSA - Characterization Form

Item Number: DMSA-335-04-017 Building: 335 DMSA #: 335-04

MAR 0 9 ENTD

Item Description: "00" Converter Transition Piece

Origin: PGDP Owner Status: ~~NCA~~ 3-8-00 ~~DOE~~ DOE Capital Equipment ID: NA

Analytical Data

Initial Characterization

Operating History

- No NCS Concerns (Not Process Equipment)
- X Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Assay

- Assay Assumed: 0
- Sample Request and Receipt Form Issued
- Assay Smear Samples Complete
- Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0

NA

Mass

- NDA Requested
- NDA Complete

Sample A:

Assay Used: 0

Pounds U: 0

U-235 (g): 0

Sample B:

Assay Used: 0

Pounds U: 0

U-235(g): 0

NA

NCS Classification

- X NCS-Exempt
- LS
- UH
- PEH

Characterization Completed By:

Name: CW Wells

Badge #: 662505

Date: 3-8-00

- RCRA or TSCA Issues Identified

Comments: NA

Item relocated NA

New Location: Building:

DMSA #:

7-30-01 HCH

40437

NMC&A Exempt
No visible Uranium

crl 3-9-00

ENTERED 3-10-00

Date Printed: Monday, February 21, 2000

DMSA - Characterization Form

Item Number: DMSA-335-04-018 Building: 335 DMSA #: 335-04

MAR 0 9 ENTD

Item Description: "00" Conversion Transaction Price

Origin: PGDP Owner Status: ~~UCN 2-8-00~~ NA DOE Capital Equipment ID: NA

Analytical Data

Initial Characterization	Assay	Mass	NCS Classification
☐ No NCS Concerns (Not Process Equipment)	☐ Assay Assumed: 0	☐ NDA Requested	☒ NCS-Exempt
☒ [illegible] orm (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.	☐ Sample Request and Receipt Form Issued	☐ NDA Complete	☐ LS
	☐ Assay Smear Samples Complete	Sample A:	☐ UH
	☐ Independent Verification of Assay form completed and attached.	Assay Used: 0	☐ PEH
		Pounds U: 0	Characterization Completed By:
	Assay wt.%U-235: 0	U-235 (g): 0	Name: Cwilbellin
Visual Inspection		Sample B:	Badge #: 662505
☐ Independent Verification Form (verifying visual uranium contamination) is completed and attached.		Assay Used: 0	Date: 3-8-00
		Pounds U: 0	
		U-235 (g): 0	
	NA	NA	

RCRA or TSCA Issues Identified

Comments: NA

☐ Item relocated NA

New Location: Building:

DMSA #:

7-30-00 HLT

110437

NMC&A Exempt
No visible Uranium

cwl 3-9-00

CONFIRMED 3-10-00

Date Printed: Monday, February 21, 2000

DMSA - Characterization Form

Item Number: DMSA-335-04-019 Building: 335 DMSA #: 335-04

MAR 0 9 ENT'D

Item Description: 30 Computer Transition Piece

Origin: PGDP Owner Status: ~~NA~~ DOE Capital Equipment ID: NA

Analytical Data

Initial Characterization

Operating History

- [ ] No NCS Concerns (Not Process Equipment)
- [ ] Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- [ ] Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Assay

- [ ] Assay Assumed: 0
- [ ] Sample Request and Receipt Form Issued
- [ ] Assay Smear Samples Complete
- [ ] Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0

NA

Mass

- [ ] NDA Requested
- [ ] NDA Complete

Sample A:

Assay Used: 0
Pounds U: 0
U-235 (g): 0

Sample B:

Assay Used: 0
Pounds U: 0
U-235(g): 0

NA

NCS Classification

- [x] NCS-Exempt
- [ ] LS
- [ ] UH
- [ ] PEH

Characterization Completed By:

Name: [illegible]
Badge #: 662325
Date: 3-8-00

- [ ] RCRA or TSCA Issues Identified

Comments:

NA

- [ ] Item relocated NA

New Location: Building:
DMSA #:

7-30-01 HA

NMC&A Exempt
No visible Uranium

cjl 3-9-00

110437
ENTERED
3-10-00

Date Printed: Monday, February 21, 2000

DMSA - Characterization Form

Item Number: DMSA-335-04-020 Building: 335 DMSA #: 335-04

MAR 0 9 ENTD

Item Description: OO Converter Transition Piece

Origin: PGDP Owner Status: ~~N/A~~ DOE Capital Equipment ID: N/A

Analytical Data

Initial Characterization

Operating History

- ☐ No NCS Concerns (Not Process Equipment)
- ☒ Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached,

Visual Inspection

- ☐ Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Assay

- ☐ Assay Assumed: 0
- ☐ Sample Request and Receipt Form Issued
- ☐ Assay Smear Samples Complete
- ☐ Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0

N A

Mass

- ☐ NDA Requested
- ☐ NDA Complete

Sample A:

Assay Used: 0
Pounds U: 0
U-235 (g): 0

Sample B:

Assay Used: 0
Pounds U: 0
U-235(g): 0

N A

NCS Classification

- ☒ NCS-Exempt
- ☐ LS
- ☐ UH
- ☐ PEH

Characterization Completed By:

Name: [illegible]
Badge #: 626203
Date: 3-8-00

☐ RCRA or TSCA Issues Identified

Comments:

N A

☐ Item relocated N A

New Location: Building:
DMSA #:

7-30-01 JCR
10437

NMC&A Exempt
No visible Uranium

cyl 3-9-00

ENTERED 3-10-00

DMSA - Charac[illegible]ation Form

Item Number: DMSA-335-04-021 Building: 335 DMSA #: 335-04 MAR 0 9 EN

Item Description: 00 Conversion Transaction Press

Origin: PGDP Owner Status: ~~DOE~~ DOE 3-9-00 Capital Equipment ID: NA

Analytical Data

Initial Characterization

Operating History

- ☐ No NCS Concerns (Not Process Equipment)
- ☒ Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached,

Visual Inspection

- ☐ Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Assay

- ☐ Assay Assumed: 0
- ☐ Sample Request and Receipt Form Issued
- ☐ Assay Smear Samples Complete
- ☐ Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0

NA

Mass

- ☐ NDA Requested
- ☐ NDA Complete

Sample A:

Assay Used: 0
Pounds U: 0
U-235 (g): 0

Sample B:

Assay Used: 0
Pounds U: 0
U-235(g): 0

NA

NCS Classification

- ☒ NCS-Exempt
- ☐ LS
- ☐ UH
- ☐ PEH

Characterization Completed By:

Name: [illegible]
Badge #: 662525
Date: 3-8-00

☐ RCRA or TSCA Issues Identified

Comments:

NA

☐ Item relocated NA

New Location: Building:
DMSA #:

7-30-01 [illegible] 110437

NMC&A Exempt
No visible Uranium

cd 3-9-00

ENTERED 3-10-00

Date Printed: Monday, February 21, 2000

DMSA - Charac zation Form

MAR 0 9 EMU

Item Number: DMSA-335-04-022 Building: 335 DMSA #: 335-04

Item Description: OO Converter Transition Piece

Origin: PGDP Owner Status: ~~NA~~ DOE Capital Equipment ID: NA

Analytical Data

Initial Characterization

Operating History

- No NCS Concerns (Not Process Equipment)
- Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.
- Visual Inspection Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached,

Assay

- Assay Assumed: 0
- Sample Request and Receipt Form Issued
- Assay Smear Samples Complete
- Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0

NA

Mass

- NDA Requested
- NDA Complete

Sample A:

Assay Used: 0

Pounds U: 0

U-235 (g): 0

Sample B:

Assay Used:

Pounds U: 0

U-235(g): 0

NA

NCS Classification

- X NCS-Exempt
- LS
- UH
- PEH

Characterization Completed By:

Name: [illegible]

Badge #: 662505

Date: 3-8-00

RCRA or TSCA Issues Identified

Comments:

NA

Item relocated NA

New Location: Building:

DMSA #:

7-30-01 HCA

NMC&A Exempt
No visible Uranium

Cyl 3-9-00

110437 ENTERED 3-10-00

DMSA - Charac[illegible]zation Form

Item Number: DMSA-335-04-023 Building: 335 DMSA #: 335-04 MAR 0 9 2000

Item Description: 00 Converter Transition Piece

Origin: PGDP Owner Status: DOE Capital Equipment ID: N/A

Initial Characterization

Operating History

- No NCS Concerns (Not Process Equipment)
- X Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Analytical Data

Assay

- Assay Assumed: D
- Sample Request and Receipt Form Issued
- Assay Smear Samples Complete
- Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0

N/A

Mass

- NDA Requested
- NDA Complete

Sample A:

Assay Used: 0
Pounds U: 0
U-235 (g): 0

Sample B:

Assay Used: 0
Pounds U: 0
U-235(g): 0

N/A

NCS Classification

- X NCS-Exempt
- LS
- UH
- PEH

Characterization Completed By:

Name: [illegible]
Badge #: 162505
Date: 3-8-00

- RCRA or TSCA Issues Identified

Comments:

N/A

Item relocated N/A
New Location: Building:
DMSA #:

7-30-00 N/A

110437

NMC&A Exempt
No visible Uranium

cyl 3-9-00

ENTERED 3-10-00

Date Printed: Monday, February 21, 2000

DMSA - Characterization Form

MAR 0 9 ENTE

Item Number: DMSA-335-04-024 Building: 335 DMSA #: 335-04

Item Description: 00 Converter Transition Piece

Origin: PGDP Owner Status: ~~NA~~ DOE Capital Equipment ID: NA

Analytical Data

Initial Characterization

Operating History

- No NCS Concerns (Not Process Equipment)
- X Independenr Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached,

Assay

- Sample Request and Receipt Form Issued
- Assay Smear Samples Complete
- Independent Verification of Assay form completed and attached.

Assay wt%U-235: 0

NA

Mass

- NDA Requested
- NDA Complete

Sample A:

Assay Used: 0
Pounds U: 0
U-235 (g): 0

Sample B:

Assay Used: 0
Pounds U: 0
U-235(g): 0

NA

NCS Classification

- X NCS Exempt
- LS
- UH
- PEH

Characterization Completed By:

Name: [illegible]
Badge #: 662305
Date: 3-8-00

RCRA or TSCA Issues Identified

Comments:

NA

Item relocated NA
New Location: Building:
DMSA #:

7-30-0
4 LIT
11043.7

NMC&A Exempt
No visible Uranium

cyl 3-9-00

ENTERED 3-10-00

DOE

HAZARDOUS WASTE

RFD

Document ID Number 110477

Request For Disposal

Generation Process Information (Completed by Generator)

W1. Generator's Name (Print)	W2. Badge No.	W3. Generator's Phone No.	W3. Mail Stop	W5. Charge No. / WO
EARL TYLER	31491	441-5235	C-743-T1	

W16. Generator's Company	W7. Corp Owner	W8. Origin Site	W9. Origin Facility	W10. Origin Area	W11. Rad Area?
WESKEM	DOE	PGDP	C-335	C-335-04	☒ Yes ☐ No

W12. Number of Items	W13. Process Category (GCC)	W14. Process Activity Code	W15. AWA Number	W16. Physical Form
1	Leg	A93	N/A	SOLID

W17. Material Type(s)	W18. Holding Site	W19. Holding Facility	W20. Holding Area	W21 RFD Attachment
MT005	PGDP	C-335	C-335-04	☒ A ☑ B ☐ C

Waste Subcategories (Check all that apply)

	Yes	No		Yes	No		Yes	No		Yes	No
W22. Biological		✓	W25. Const. Debris		✓	W28. Non-Friable Asbestos		✓	W31. DMSA	✓	
W23. Accountable		✓	W26. Classified		✓	W29. TRU Waste		✓			
W24. Carcinogen		✓	W27. Friable Asbestos		✓	W30. CERCLA		✓			

Waste Description / Comments

W32. (7) seven Light bulbs (FROM B-25 Box DMSA 335-04-093 (RFD# 110425 went into 110107-01 Collection Container RCRA waste

C-335-04 ZONE(2)

This is to certify that the above named material is properly described and in the stated container, which is in good condition, marked with the RFD number, content, appropriate generation date, source location, and at the stated location.

W33. Generation Plan No.	W34. Generator's Signature	Date
	E. J. Tyler	08-03-01

Handling / Pickup Information (Completed by Waste Management)

P1. Pick-up Site	P2. Pick-up Facility	P3. Pick-up Room/Area

P4. PPE Requirements

P5. Container-Labeling Requirements

✓ RCRA	___ PCB	___ DET PCB (<50ppm & source <50ppm)	___ RAD	___ DOE
___ FISSILE	___ NCS EXEMPT	___ RD CONFIDENTIAL	___ ACID	___ USEC
___ FLAMMABLE	___ COMBUSTIBLE	___ OXIDIZER	___ BASE	___ WESKEM
___ ASBESTOS	___ REACTIVE	___ TRANSURANIC	___ NON-HAZ	

P6. Additional Handling Instructions

Verify Label
Zone
Barcode

Reference FWR	
Origin Date	
PCB Start Date	
RCRA Start Date	

P7. Waste Coordinator (Issued By)	Badge	Date	P8. Disposal/Storage Completed By	Badge	Date
[illegible]	703591	8/30/01	William Stray	704179	8-30-01

P9. Field Supervisor	Badge	Date	P10. Data Processing Completed By	Badge	Date
D A Wade	11357	8/30/01	Jerry Blisson	703232	9-10-01

P11. Waste Item Information

Waste Item No. RFD# 110477
Container No. (Barcode) NA
Weight 6 oz
Location and Grid C-752-A C-02
Container Size .01 cu. ft.

P12. Operator Comments

BJCF-515a (03/01)

DMSA

received 08-9-01

7

RCRA AND/OR TSCA WASTE

DOCUMENT ID NUMBER

110477-01

PROHIBITED ITEMS	ADDITIONAL WASTE CHARACTERISTICS			
B1. CHEMICALLY INCOMPATIBLE SUBSTANCES ☐ YES ☑ NO	B3. CHELATING AGENTS ☐ YES ☑ NO	B4. ION EXCHANGE RESINS ☐ YES ☑ NO	B5. pH	B6. CORROSIVITY TO STEEL mm/yr
B2. WASTE VARIANCE REQUEST NUMBER(s)	B7. FLASHPOINT ☐ C ☐ F	B8. BOILING POINT ☐ C ☐ F	B9. DETECTABLE PCB (Source <50 ppm) ☐ YES ☑ NO CONC. ppm	B10. WASTEWATER ☐ YES ☑ NO

DOCUMENT TYPE	DOCUMENT NUMBER		
R1. ANALYSIS SAMPLE ID NO.			
R2. PROCESS KNOWLEDGE FORM NO.			
R3. FISSLE CONTENT (Wt% U-235)	R4. GRAMS U-235	R5. NCS EXEMPT ☑ YES ☐ NO	R5. CHEMICAL FORM

DOCUMENT TYPE	DOCUMENT NUMBER	DETERMINATION	YES	NO
T1. ANALYSIS SAMPLE ID NO.		T3. RCRA WASTE		
		T4. TSCA WASTE		
T2. PROCESS KNOWLEDGE FORM NO.		T5. UNDERLYING HAZARDOUS CONSTITUENTS		

T6. PCBs PRESENT ☐ YES ☐ NO	T7. PCB CONCENTRATION ppm	T8. PCB SOURCE CONCENTRATION ppm	T9. PCB SOURCE CONCENTRATION RANGE (ppm) ☐ 50499.99 ☐ >=500

T10. KNOWN HAZARDOUS CONSTITUENTS

T11. KNOWN UNDERLYING HAZARDOUS CONSTITUENTS

RADIATION DATA FROM HEALTH PHYSICS SURVEY
SURFACE CONTAMINATION (Data Supplied by HP)

R7. HP SURVEY REQUIRED

R8. TRANSFERABLE (Alpha) dpm/100cm2	R9. FIXED (Alpha) dpm/100cm2
R10. TRANSFERABLE (Beta/Gamma) dpm/100cm2	R11. FIXED (Beta/Gamma) dpm/100cm2
R12. EXTERNAL DOSE/PACKAGE CONTACT MREM/HR	R13. DOSE RATE MREM/HR @ METERS (B/G)
R14. HP SIGNATURE	R15. SURVEY NUMBER

X1. PCB ITEM ☐ A ☐ AC ☐ B ☐ C	X2. WASTE STREAM ID	X3. FORM CODE	X4. SOURCE CODE
X5. HANDLING CODE	X6. LDR CODE	X7. REACTIVITY GROUP NUMBER	X8. GENERATED FROM A NON-RMMA ☐ YES ☐ NO

X9. SUBSTANCE ID	X10. CONCENTRATION	X11. UNITS	X12. EPA CODE(s)	X13. UNDERLYING HAZ CONSTITUENTS

X9. SUBSTANCE ID	X10. CONCENTRATION	X11. UNITS	X12. EPA CODE(s)	X13. UNDERLYING HAZ CONSTITUENTS

☐ X15. CONSITUENT CONTINUATION SHEET(s) THROUGH ATTACHED.

WASTE ITEM CONTAINER LOG

10. ITEM/CONTAINER	OF	DOCUMENT ID NUMBER
1	1	110477-01

11. WASTE ITEM ID NO.	12. ORIGIN DATE	13. RCRA ACCUMULATION START DATE	14. PCB DATE TO STORAGE
110477-01	08/3/01	8/2/01	N/A

15. WASTE MATERIAL PLACED IN (Or Removed From) CONTAINER	16. QUANTITY	17. DEPOSITOR INITIAL	17. DEPOSITOR DATE	18. COMMENTS (If Waste is removed from container, then final disposition must be noted.)
Bag with (7) Light Bulbs.	1	EJT	8/3/01	REMOVED FROM BOX C-335-04-09 AND PLACED INTO collection CONTAINER RFD# 110107

19. CONTAINER ID NO. (Barcode)	110. ABSORBENT MATERIALS? QUANTITY TYPE	111. NMC&A FORM	112. EST. NET VOLUME	113. UNITS
PAD01C02236	[ ] YES [✓] NO		.1 cu. ft.	

114. GROSS WEIGHT	115. UNITS	116. INNER CONTAINER TYPE	117. OUTER CONTAINER TYPE	118. TANK SEAL NUMBER
6 oz				N/A

119. CONTAINER GENERATOR SIGNATURE	DATE
E. J. Tyler	08/03/01

REPACKAGE EVENT LQG

Type of Repackage: —Transfer __Overpack __Split __ Labpack __ Bulk

Date__________

RFD #	Original	Original	Original	New	New	New	
~~H00~~ 110477-01				55 gal drum	RFD # 110107	PAD01C02236	

DOE Material Storage Area (DMSA) Item - NCS Characterization Form

ITEM	INITIAL CHARACTERIZATION	ANALYTICAL CHARACTERIZATION: ^{235}U Assay Analysis	ANALYTICAL CHARACTERIZATION: ^{235}U Mass Analysis	ANALYTICAL CHARACTERIZATION: Subcritical Mass Limits	ANALYTICAL CHARACTERIZATION: NDA Radiation Surveys	NCS CLASSIFICATION
RFD # 110477 Description: 7 Light Bulbs Independent Confirmations: Individual #1: HC Anderson Date: 8-3-01 Individual #2: CW Walk Date: 08/06/01 Other Information: Bldg. Co. C-335 DMSA # C-335-04 Origin N/A	Historical Documentation: N/A Process Knowledge: NOT PROCESS EQUIPMENT Visual Inspections Completed: ___ External Surfaces Inspection ___ Internal Surfaces Inspection Completed By: ___ Date: ___ N/A	Sample A: ___ % ^{235}U ___ 1 sigma (% ^{235}U) ___ 2 sigma (% ^{235}U) ___ Total (^{235}U + 2 sigma) Sample B: ___ % ^{235}U ___ 1 sigma (% ^{235}U) ___ 2 sigma (% ^{235}U) ___ Total (^{235}U + 2 sigma)	Sample A: ___ g ^{235}U Sample B: ___ g ^{235}U	___ kg ^{235}U ___ Moderated Limiu ___ Hydrated Limits N/A	Sample A: Date & Time Performed: __/__/__ __am __ pm Date & Time Results Rec'd: __/__/__ __am __ pm Assumed Assay: ___ % ^{235}U Mass: ___ g ^{235}U Submitted By: ___ Date: ___ Sample B: Date & Time Performed: __/__/__ __am __ pm Date & Time Results Rec'd: __/__/__ __am __ pm Assumed Assay: ___ % ^{235}U Mass: ___ g ^{235}U Submitted By: ___ Date: ___	Initial Classification: ✓ NCS-Exempt ___ Spacing-Controlled ___ Singularly-Contingent DMSA Inspector: HC Anderson Date: 8-3-01 NDA Expert: N/A (if NDA is performed) Date: ___ Independent Verifications: Person #1: HC Anderson Date: 8-3-01 Person #2: CW Walk Date: 8-06-01 Reclassification: (if needed) ___ NCS-Exempt ___ Spacing-Controlled ___ Singularly-Contingent DMSA Inspector: ___ Date: ___ NDA Expert: ___ (if NDA is performed) Date: ___ Independent Verifications: Person #1: ___ Date: ___ Person #2: ___ Date: N/A

Comments: NO PREVIOUS DMSA # AVAILABLE (moved from DMSA)

Approved to Relocate: To: ___
Further NCS characterization is required. Item does not contain Singularly-Contingent mass.

NDA Expert #: ___
Date: ___

NDA Expert #: ___
Date: N/A

I have independently confirmed the identification and description for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match.

Independent Person #1: ___
Date: ___

Independent Person #2: ___
Date: ___

I have independently confirmed the destination for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match.

Independent Person #1: ___
Date: ___

Independent Person #2: ___
Date: ___

Rev. 1 (10/2000)

110477

DOE LLW RFD

Request For Disposal

Document ID Number **110780**

Generation Process Information (Completed by Generator)

W1. Generator's Name (Print)	W2. Badge No.	W3. Generator's Phone No.	W4. Mail Stop	W5. Charge No. / WO
Kevin Jones	702542	441-5287	C-743-T1	—

W6. Generator's Company	W7. Corp Owner	W8. Origin Site	W9. Origin Facility	W10. Origin Area	W11. Rad Area?
Weskem	DOE	PGDP	C-335	C-335-04	☑ Yes ☐ No

W12. Number of Items	W13. Process Category (GCC)	W14. Process Activity Code	W15. AWA Number	W16. Physical Form
1	LEG	A93	—	LIQUID

W17. Material Type(s)	W18. Holding Site	W19. Holding Facility	W20. Holding Area	W21 RFD Attachment
MT201	PGDP	C-335	C-335-04	☑ A ☐ B ☐ C

Waste Subcategories (Check all that apply)

	Yes	No		Yes	No		Yes	No		Yes	No
W22. Biological		✓	W25. Const. Debris		✓	W28. Non-Friable Asbestos		✓	W31. DMSA	✓	
W23. Accountable		✓	W26. Classified		✓	W29. TRU Waste		✓			
W24. Carcinogen		✓	W27. Friable Asbestos		✓	W30. CERCLA		✓			

Waste Description / Comments

W32. Hydraulic Fluid Drained From Hydraulic Pump (RFD# 110416-01) Zone 1 TO BE Sampled

BARCODE DMSA0216139

This is to certify that the above named material is properly described and in the stated container, which is in good condition, marked with the RFD number, content, appropriate generation date, source location, and at the stated location.

W33. Generation Plan No.	W34. Generator's Signature	Date
	[signature]	8-21-01

Handling / Pickup Information (Completed by Waste Management)

P1. Pick-up Site	P2. Pick-up Facility	P3. Pick-up Room/Area

P4. PPE Requirements

P5. Container-Labeling Requirements

___ RCRA	___ PCB	___ DET PCB (<50ppm & source <50ppm)	✓ RAD	✓ DOE
___ FISSILE	___ NCS EXEMPT	___ RD CONFIDENTIAL	___ ACID	___ USEC
___ FLAMMABLE	___ COMBUSTIBLE	___ OXIDIZER	___ BASE	___ **WESKEM**
___ ASBESTOS	___ REACTIVE	___ TRANSURANIC	___ NON-HAZ	

P6. Additional Handling Instructions

Verify Label, Barcode, & Zone
Add PCB detectable label

Reference FWR	
Origin Date	
PCB Start Date	
RCRA Start Date	

P7. Waste Coordinator (Issued By)	Badge	Date	P8. Disposal/Storage Completed By	Badge	Date
[signature]	203691	2/13/02	M.B. Shannon	201140	2/13/02

P9. Field Supervisor	Badge	Date	P10. Data Processing Completed By	Badge	Date
D A Wade	11357	2/13/02	[signature]	205451	2/18/02

P11. Waste Item Information

Waste Item No. 110780-01
Container No. (Barcode) DMSA0216139
Weight 30 LBS
Location and Grid C-335-04 Zone 1
Container Size 8.635 FT³

P12. Operator Comments

BJCF-515a (03/01)

DMSA

received 8-21-01

Low-Level Radioactive Waste

Attachment A

Document ID Number: 110780

Prohibited Items

	Yes	No		Yes	No
A1. Pyrophoric Materials (Other than radioactive forms of isotopes)		✓	A6. Ignition Sources		✓
A2. Active Chelating Agents		✓	A7. Free Liquids (Unless Wastewater)		✓
A3. TRU Radioisotopes> 100 nCi/g			A8. RCRA Waste		✓
A4. Explosive Materials		✓	A9. TSCA Waste		✓
A5. Etilogical Agents		✓			

A10. Waste Variance Request Number(s)

Additional Waste Characteristics

	Yes	No		Yes	No
A11. Chelating Agents		✓	A13. Detectable PCB (Concen and Source <50 ppm) Conc. ppm		✓
A12. ION Exchange Resins		✓	A14. Wastewater		✓

Radioisotope Determination Method

Document Type	Document Number
R1. Analysis Sample Id No. 01-ER-1207-S	Survey attached
R2. Process Knowledge Form No.	

R3. Fissile Content (Wt% U-235)	R4. Grams U-235	R5. NCS Exempt	R6. Chemical Form
		☒ Yes ☐ No	

Other Sample Analysis

Document Type	Document Number
01. Analysis Sample Id No.	335-04-CH01-Z1 attached
02. Process Knowledge Form No.	

Radiation Data From Health Physics Survey Surface Contamination (Data Supplied by HP)

R7. **HP** Survey Required ☒ Yes ☐ No attached

R8. Transferable (Alpha) dpm/100cm2	R9. Fixed (Alpha) dpm/100cm2
R10. Transferable (Beta/Gamma) dpm/100cm2	R11. Fixed (Beta/Gamma) dpm/100cm2
R12. External Dose/Package Contact MREM/HR	R13. Dose Rate MREM/HR @ Meters (B/G)
R14. **HP** Signature	R15. Survey Number

BJCF-560 (08/01)

WASTE ITEM CONTAINER LOG

10. ITEM/CONTAINER			DOCUMENT ID NUMBER
1 OF 1			110780
11. WASTE ITEM ID NO.	12. ORIGIN DATE	13. RCRA ACCUMULATION START DATE	14. PCB DATE TO STORAGE
110780-01	8-20-01		

15. WASTE MATERIAL PLACED IN (Or Removed From) CONTAINER	16. QUANTITY	17. DEPOSITOR INITIAL	17. DEPOSITOR DATE	18. COMMENTS (If Waste is removed from container, then final disposition must be noted.)
Hydraulic Fluid drained From RFD# 110416-01	1	KT	8-20-01	DRAINED For Sampling
				Zone 1

19. CONTAINER ID NO. (Barcode)	110. ABSORBENT MATERIALS? [ ] YES [✓] NO	QUANTITY	TYPE	111. NMC&A FORM	112. EST. NET VOLUME	113. UNITS
0425A0216139						

114. GROSS WEIGHT	115. UNITS	116. INNER CONTAINER TYPE	117. OUTER CONTAINER TYPE	118. TANK SEAL NUMBER

119. CONTAINER GENERATOR SIGNATURE: [signature] DATE: 8-20-01

UCN-20700 PAGE 2

DOE Material Storage Area (DMSA) Item - NCS Characterization Form

ITEM	INITIAL CHARACTERIZATION	ANALYTICAL CHARACTERIZATION: ^{235}U Assay Analysis	^{235}U Mass Analysis	Subcritical Mass Limits	NDA Radiation Surveys	NCS CLASSIFICATION
RFD # 110780 Description: HYD OIL Independent Confirmations: Individual #1: [illegible] Date: 8/24-01 Individual #2: HC Anderson Date: 8-20-01 Other Information: Bldg./Col.: C335 D33 DMSA #: 335-04 Origin: NA	Historical Documentation: NA Process Knowledge: NOT PROCESS EQUIPMENT Visual Inspections Completed: ___ External Surfaces Inspection ___ Internal Surfaces Inspection Completed By: Date: NA	Sample A: ___ % ^{235}U ___ 1 sigma (% ^{235}U) ___ 2 sigma (% ^{235}U) ___ Total (^{235}U + 2 sigma) Sample B: ___ 1 sigma (% ^{235}U) ___ 2 sigma (% ^{235}U) ___ Total (^{235}U + 2 sigma)	Sample A: ___ g ^{235}U Sample B: ___ g ^{235}U	___ kg ^{235}U Moderated Limits ___ Hydrated Limits NA	Sample A: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: ___ % ^{235}U Mass: ___ g ^{235}U Submitted By: Date: Sample B: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: ___ % ^{235}U Mass: ___ g ^{235}U Submitted By: Date:	Initial Classification: ✓ NCS-Exempt ___ Spacing-Controlled ___ Singularly-Contingent DMSA Inspector: [illegible] Date: 8-20-01 NDA Expert: (if NDA is performed) Date: Independent Verifications: Person #1: Date: Person #2: Date: Reclassification: (if needed) ___ NCS-Exempt ___ Spacing-Controlled ___ Singularly-Contingent DMSA Inspector: Date: NDA Expert: (if NDA is performed) Date: Independent Verifications: Person #1: Date: Person #2: Date: N.A.

Comments:

REMOVED OIL FROM HYD PUMP & HYD JACKS RFD 10412, 10413, 10414 10415 & 10416

Approved to Relocate: To ___
Further NCS characterization is required. Item does not contain Singularly-Contingent mass.

NDA Expert #1 ___
Date:

NDA Expert #2 N.A.
Date:

I have independently confirmed the identification and description for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match.

Independent Person #1: ___
Date:

Independent Person #2: ___
Date:

I have independently confirmed the destination for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match.

Independent Person #1: ___
Date:

Independent Person #2: ___
Date:

Rev. 3 (10/2000)

110780

Section 13

REUSABLE MATERIAL FORMS

WESKEM DMSA ITEM IDENTIFICATION SHEET

Prefix: E000

DMSA Item ID #: 10

E000 10

DMSA #: C-335-04

Zone #: 2

Description: 8'X10" Flanged Trap

CATEGORY

Reusable Equipment: ✓

New or Unused Items: ☐

USEC List: ☐

Number of Items: 1

Estimated Volume: app 12 cu. ft.

Estimated Weight: app 400#

Barcode #: DMS0110414

Old Used: C-335-04-030

Verifier #1: Billy Sorey

Badge #1: 704279

Date #1: 8-7-01

Verifier #2: D a Wade

Badge #2: 11357

Date #2: 8/7/01

ATTACHMENTS

NCS Characterization Form: ✓

HP Survey: ☐

Analytical Data: ☐

Comments:

DMSA - Chara ization Form

Item Number: DMSA-335-04-030 Building: 335 DMSA #: 335-04

Item Description: 8' x 10" Flanged Trap

Origin: GDP Owner Status: DOE Capital Equipment ID:

APR-1-8-2000

Analytical Data

Initial Characterization

Operating History

S o NCS Concerns (Not Process Equipment)

Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

X Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Assay

Assay Assumed: 0

Sample Request and Receipt Form Issued

Assay Smear Samples Complete

Independent Verification of Assay form completed and attached.

Assay wt%U-235:

Mass

NDA Requested

NDA Complete

Group Number

Sample A:

Assay Used: 0

Pounds U: 0

U-235 (g): 0

Sample B:

Assay Used: 0

ds U: 0

U-235 (g): 0

NCS Classification

X NCS-Exempt

LS

UH

PEH

Characterization Completed By:

Name:

Badge #: 662505

Date: 4-10-00

2-30-01

RCRA or TSCA Issues Identified

Comments:

Visible probe scan showed no visible contamination

Item relocated New Location: Building:

DMSA #:

NMCA Exempt - No visible contamination or U-235 activity is too low to quantify

Completed By (Initials): Date:

4-19-00

E 00010

Date Printed: Monday, March 27, 2000

DOE Material Storage Area (DMSA) Item - NCS Characterization Form

ITEM	INITIAL CHARACTERIZATION	ANALYTICAL CHARACTERIZATION: ^{235}U Assay Analysis	^{235}U Mass Analysis	Subcritical Mass Limits	NDA Radiation Surveys	NCS CLASSIFICATION
~~RFD #~~ E-000-10 Description 8' X 10" FLANGED TRAP Independent Confirmations: Individual #1: [illegible] Date: 8-8-01 Individual #2: [illegible] Date: 8-7-01 • • • • • • • • • • • Other Informanon: Bldg/Col C-335 - D-32 DMSA # C-335-04 Ongin N/A	Historical Documentation: _____ Process Knowledge: _____ Visual Inspections Completed: ____ External Surfaces Inspection ____ Internal Surfaces Inspection Completed By: _____ Date: N/A	Sample A: ___ % ^{235}U ___ 1 sigma (% ^{235}U) ___ 2 sigma (% ^{235}U) ___ Total (^{235}U + 2 sigma) Sample B: ___ % ^{235}U ___ 1 sigma (% ^{235}U) ___ 2 sigma (% ^{235}U) ___ Total (^{235}U + 2 sigma)	Sample A: ___ g ^{235}U Sample B: ___ g ^{235}U	___ kg ^{235}U ___ Moderated Limits ___ Hydrated Limits N/A	Sample A: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: ___ % ^{235}U Mass: ___ g ^{235}U Submitted By: _____ Date: _____ Sample B: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: ___ % ^{235}U Mass: ___ g ^{235}U Submitted By: _____ Date: _____	Initial Classification: ✓ NCS-Exempt ____ Spacing-Controlled ____ Singularly-Contingent DMSA Inspector: [illegible] Date: 8-7-01 NDA Expert: _____ (if NDA is performed) Date: _____ Independent Verifications: Person #1: _____ Date: _____ Person #2: _____ Date: _____ • • • • • • • • • • • Reclassification: (if needed) ____ NCS-Exempt ____ Spacing-Controlled ____ Singularly-Contingent DMSA Inspector: _____ Date: _____ NDA Expert: _____ (if NDA is performed) Date: N/A Independent Verifications: Person #1: _____ Date: _____ Person #2: _____ Date:

Comments: NCS EXEMPT BY PREVIOUS CHARACTERIZATION (DMSA# 335-04-030)
REFER TO ATTACHED SHEETS FOR DETAILED INFORMATION

Approved to Relocate: To _____ Further NCS characterization is required. Item does not contain Singularly-Contingent mass. NDA Expert #1: _____ Date: _____ NDA Expert #2: N/A Date: _____	I have independently confirmed the identification and description for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this infomation to match. Independent Person #1: _____ Date: _____ Independent Person #2: _____ Date: _____	I have independently confirmed the destination for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match Independent Person #1 _____ Date: _____ Independent Person #2: _____ Date: _____

Rev 3 (10/2000)

E 00010

WESKEM DMSA ITEM IDENTIFICATION SHEET

Prefix: E000

DMSA Item ID #: 11

E000 11

DMSA #: C-335-04

Zone #: 2

Description:

8'X 10" flanged Trap

CATEGORY:

Reusable Equipment: ✓

New or Unused Items: ☐

USED LIST: ☐

Number of Items: 1

Estimated Volume: app 12 cu.ft.

Estimated Weight: app 400 #

Barcode #: DMSA0110413

Old Used #: C-335-04-029

Verifier #1: Bubby Stacy

Badge #1: 704279

Date #1: 8-7-01

Verifier #2: Da Wade

Badge #2: 11357

Date #2: 8/7/01

ATTACHMENTS:

NCS Characterization Form: ✓

HP Survey: ☐

Analytical Data: ☐

Comments:

DMSA - Charac[illegible]ization Form

Item Number: DMSA-335-04-029 Building: 335 DMSA #: 335-04

Item Description: 8' x 10" Flanged Trap

Origin: GDP Owner Status: DOE Capital Equipment ID: APR 1 8 2000

Initial Characterization

Operating History

- No NCS Concerns (Not Process Equipment)
- Independent Verification Form (verifying no NCS concerns due to equipment has never been exposed to process gas) is completed and attached.

Visual Inspection

- X Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.

Analytical Data

Assay

- Assay Assumed: 0
- Sample Request and Receipt Form Issued
- Assay Smear Samples Complete
- Independent Verification of Assay form completed and attached.

Assay ~~Y J-235:

Mass

- NDA Requested
- NDA Complete

Group Number

Sample A:

Assay Used: 0

Pounds U: 0

U-235 (g): 0

Sample B:

Assay Used: 0

Pounds U: 0

U-235(g): 0

NCS Classification

- X NCS-Exempt
- LS
- UH
- PEH

Characterization Completed By:

Name: [illegible]

Badge #: 662505

Date: 4-10-00

7-30-01 HCA

RCRA or TSCA Issues Identified

Comments:

Video probe scan showed no visible contamination

Item relocated New Location: Building:

DMSA #:

NMCA Exempt - No visible contamination or U-235 activity is too low to quantify

Completed By (Initials): Date:

E 00011

ENTERED 4-19-00

Date Printed: Monday, March [illegible] 2000

DOE Material Storage Area (DMSA) Item - NCS Characterization Form

ITEM	INITIAL CHARACTERIZATION	ANALYTICAL CHARACTERIZATION: ^{235}U Assay Analysis	ANALYTICAL CHARACTERIZATION: ^{235}U Mass Analysis	ANALYTICAL CHARACTERIZATION: Subcritical Mass Limits	ANALYTICAL CHARACTERIZATION: NDA Radiation surveys	NCS CLASSIFICATION
~~RFD~~ E 000 11 Description 8' X 10'' FLANGED TRAP Independent Confirmations: Individual #1: [illegible] 8-8-01 Date: Individual #2: H C Anderson Date: 8-7-01 Other Information: Bldg./Col.: C-335-D-32 DMSA #: C-335-04 Origin: N/A	historical Documentation: Process Knowledge: Visual Inspections Completed: ____ External Surfaces Inspection ____ Internal Surfaces Inspection Completed By: Date: N/A	Sample A: ___ % ^{235}U ___ 1 sigma (% ^{235}U) ___ 2 sigma (% ^{235}U) ___ Total (^{235}U + 2 sigma) Sample B: ___ % ^{235}U ___ 1 sigma (% ^{235}U) ___ 2 sigma (% ^{235}U) ___ Total (^{235}U + 2 sigma)	Sample A: ___ g ^{235}U Sample B: ___ g ^{235}U	___ kg ^{235}U ___ Moderated Limits ___ Hydrated Limits N/A	Sample A: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: ___ % ^{235}U Mass: ___ g ^{235}U Submitted By: Date: Sample B: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assumed Assay: ___ % ^{235}U Mass: ___ g ^{235}U Submitted By: Date:	Initial Classification: ✓ NCS-Exempt ___ Spacing-Controlled ___ Singularly-Contingent DMSA Inspector: H C Anderson Date: 8-7-01 NDA Expert: (if NDA is performed) Date: Independent Verifications: Person #1: Date: Person #2: Date: Reclassification: (if needed) ___ NCS-Exempt ___ Spacing-Controlled ___ Singularly-Contingent DMSA Inspector: Date: NDA Expert: (if NDA is performed) Date: N/A Independent Verifications: Person #1: Date: Person #2: Date:

Comments: NCS EXEMPT BY PREVIOUS CHARACTERIZATION (DMSA # 335-04-029

REFER TO ATTACHED SHEETS FOR DETAILED INFORMATION

Approved to Relocate: To Further NCS characterization is required. Item does not contain Singularly-Contingent mass. NDA Expert #1: Date: NDA Expert #2: N/A Date:	I have independently confirmed the **identification and description** for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match. **Independent Person #1:** Date: **Independent Person #2:** Date:	I have independently confirmed the **destination** for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match. **Independent Person #1:** Date: **Independent Person #2:** Date:

Rev. 3 (10/2000)

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