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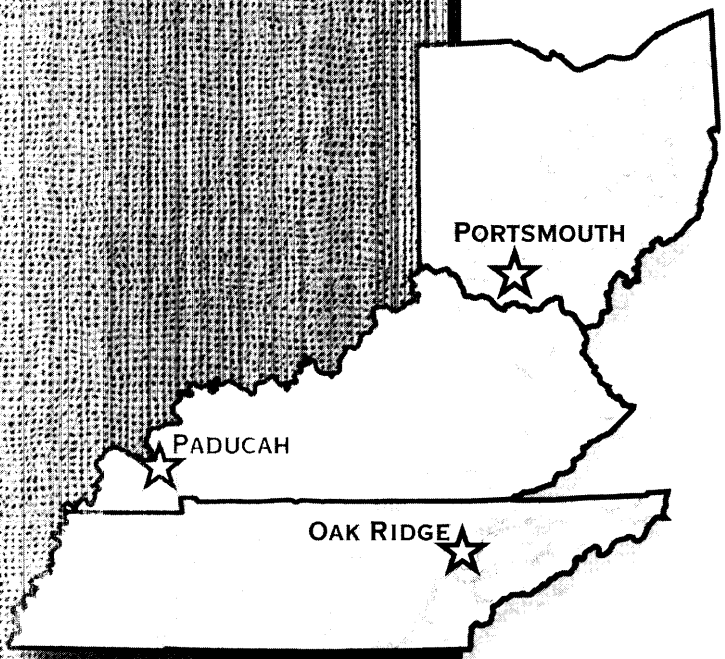
BJC/PAD-269

ENVIRONMENTAL MANAGEMENT
& ENRICHMENT FACILITIES
MANAGEMENT AND INTEGRATION CONTRACT

Final Inventory/Characterization Report for the C-331-10 Department of Energy Material Storage Area at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky

D-17610-0007



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BECHTEL JACOBS COMPANY LLC
FOR THE UNITED STATES
DEPARTMENT OF ENERGY

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SIGNATURE: T. J. Ellington DATE: 8-16-01

DOCUMENT DESCRIPTION (TO BE **COMPLETED BY** REQUESTER)

DOCUMENT NUMBER BJC/PAD 269 PAGES 168

DOCUMENT TITLE FINAL INVENTORY/CHARACTERIZATION REPORT FOR THE C331-10 DEPT OF ENERGY MATERIAL STORAGE AREA AT PGDP

AUTHORS(S) (INDICATE OTHER DIVISIONS OR ORGANIZATIONS, IF APPLICABLE)

DOCUMENT TYPE (SEE DOC. PREP. GUIDE, CHS. 1 AND 2, FOR DEFINITIONS OF DOCUMENT TYPES): ☐ DRAWING ☐ PHOTO

☒ FORMAL REPORT ☐ PROGRESS REPORT ☐ INFORMAL REPORT ☐ ABSTRACT ☐ CORRESPONDENCE ☐ OTHER VISUALS

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REMARKS:

JCN-878 (S 7-93)

BJC/PAD-269

Final Inventory/Characterization Report for the C-331-10 Department of Energy Material Storage Area (DMSA) at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky

Date Completed June 14, 2001

Date Issued – July, 2001

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

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9. IH SAMPLING DATA

ACRONYMS

1. A/C – Allis-Chalmers
2. DMSA – Department of Energy Materials Storage Area
3. DOE – Department of Energy
4. EPA – Environmental Protection Agency
5. HP – Health Physics
6. IH – Industrial Hygiene
7. Lc – Level Sub C
8. LLW – Low Level Waste
9. NCS – Nuclear Criticality Safety
10. QA – Quality Assurance
11. QC – Quality Control
12. RCRA – Resource Conservation and Recovery Act
13. RFD – Request for Disposal
14. SAA – Satellite Accumulation
15. SME – Subject Matter Expert
16. TSCA – Toxic Substance Control Act

EXECUTIVE SUMMARY

The DMSA C-331-10 field activities began on June 8,2001 and were completed on June 14,2001. During which one (1) hazardous or RCRA item was identified and inventoried. Seventeen (17) low level waste (LLW) items were identified and inventoried.

RCRA/MIXED

The RCRA inventory included a fluorescent light starter. A Health Physics (HP) survey was performed on this item and it was above free release limits and is therefore considered mixed waste. The HP survey data is contained in survey number 01-ER-1049-S and is located under the HP Survey section in this document. As required, the fluorescent light starter was removed and placed in a storage container. The storage container was properly labeled with a hazardous waste label and is currently being stored in the permitted RCRA waste storage facility located in the C-752-A building at the Paducah Gaseous Diffusion Plant (PGDP). The volume of the fluorescent light starter is .06 cubic feet and the storage container volume is 7.4 cubic feet. Note that other like RCRA items from different DMSA's will be placed in this container as they are identified.

LLW

The LLW inventory included Allis-Chalmers (a/c) pump parts, pump impellers, carbon pipe fittings, metal process equipment, (3) exhaust fan impellers, (2) wooden pallets, a/c parts, fork lift fix base, (4) a/c pump casings, a/c compressor housing, and water valves. The total volume was 344 cubic feet. All items had barcode labels and DMSA inventory tags placed on them and remain in the DMSA.

The Health Physics (HP) survey conducted also included smear, direct readings, and air samples. According to the radiological survey results, survey number 01-ER-760-S had the highest Alpha read of 132,490/100 cm^2 on the a/c pump back plate. Survey number 01-ER-756-S had the highest Beta/Gamma contamination read of 10,064,000/100 cm^2 on the a/c pump back plate. The lowest read for Alpha and Beta/Gamma was <Lc in all areas and survey maps.

The Industrial Hygiene (IH) field data concluded no irregularities or exceedences contained in this data package. The laboratory QA/QC data package has also been reviewed and found to be adequate.

DMSA C-331-10 INVENTORY

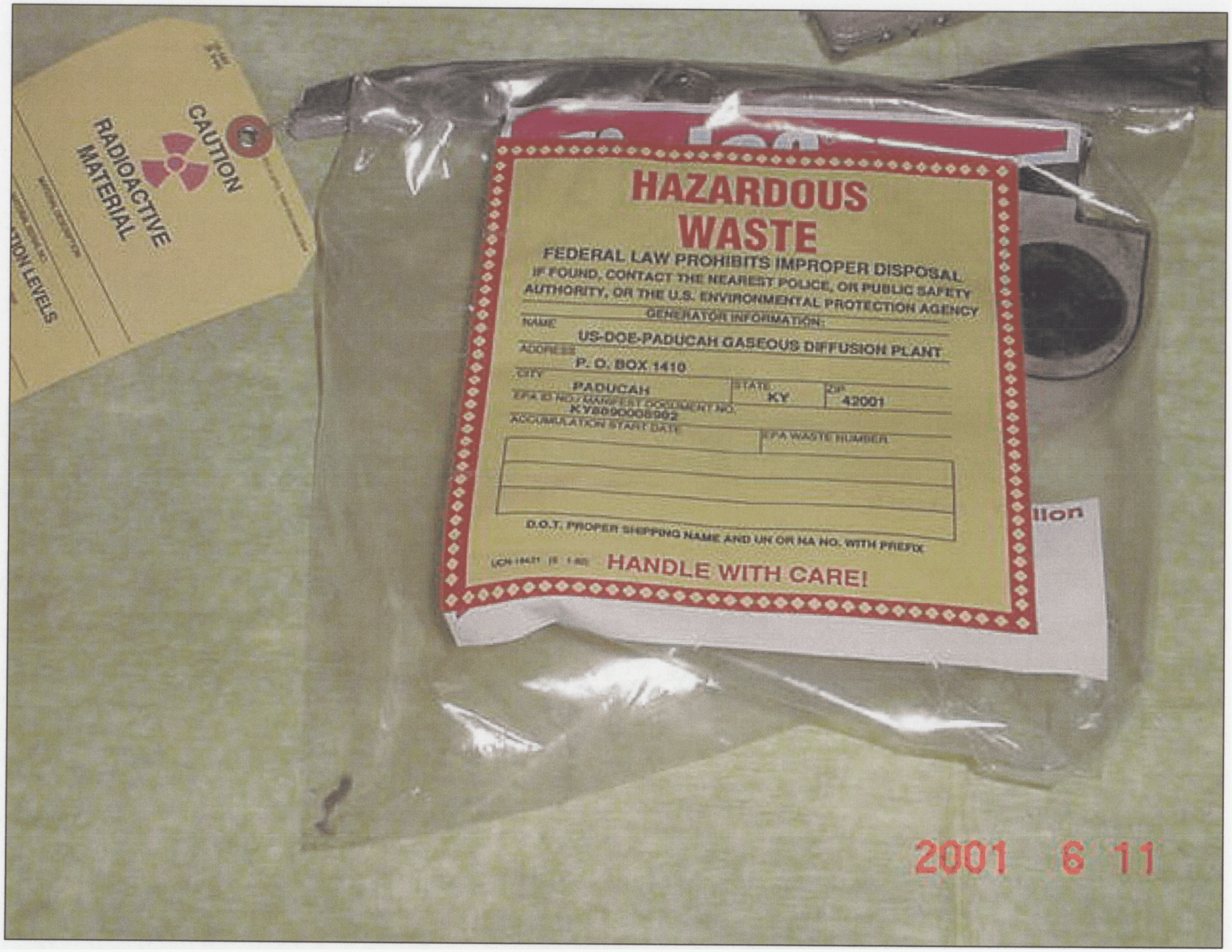
C-331-10 DMSA INVENTORY							
Description	Original RFD #	**Material Classification**	**Column #**	**Barcode**	**# Items**	**Volume Cubic Feet**	**Material Transferred to USEC**
A/C Pump Parts	110001	LLW	Zone 1	DMSA0100001	1	96	No
Pump Impellers	110002	LLW	Zone 1	DMSA0100002	1	6	No
Carbon Pipe Fittings	110003	LLW	Zone 1	DMSA0100003	1	3	No
Metal Process Equipment	110004	LLW	Zone 1	DMSA0100004	1	96	No
Fluorescent Light Starter	110005	RCRA/MIXED	Zone 1		1	0.06	No
Exhaust Fan Impeller	110006	LLW	Zone 1	DMSA0100006	1	4	No
Exhaust Fan Impeller	110007	LLW	Zone 1	DMSA0100007	1	8	No
Exhaust Fan Impeller	110008	LLW	Zone 1	DMSA0100008	1	8	No
Wooden Pallets	110009	LLW	Zone 1	DMSA0100009	1	16	No
Wooden Pallets	110011	LLW	Zone 1	DMSA0100011	1	16	No
Air Conditioner Parts	110012	LLW	Zone 1	DMSA0100012	1	45	No
Fork Lift Fix Base	110013	LLW	Zone 1	DMSA0100013	1	6	No
A/C Pump Casing, Blackplate	110014	LLW	Zone 1	DMSA0100014	1	8	No
A/C Compressor Housina	110015	LLW	Zone 1	DMSA0100015	1	4	No
A/C Pump Casing	110016	LLW	Zone 1	DMSA0100016	1	8	No
A/C Pump Casinq	110017	LLW	Zone 1	DMSA0100017	1	8	No
Water Valves	110019	LLW	Zone 1	DMSA0100019	1	4	No

*Changes only apply to RFD numbers listed.

WASTE IDENTIFIED FOR REMOVAL

WASTE REMOVED FROM C-331-10 DMSA							
Waste Material	Original RFD #	Material Classification	Column #	Barcode	# Items	Volume Cubic Feet	Material Transferred to USEC
Fluorescent Light Starter	110005	RCRA/MIXED	Zone 1		1	0.06	No

*Changes only apply to RFD numbers listed.


CAUTION
RADIOACTIVE
MATERIAL
HAZARDOUS
WASTE
FEDERAL LAW PROHIBITS IMPROPER DISPOSAL
IF FOUND, CONTACT THE NEAREST POLICE, OR PUBLIC SAFETY
AUTHORITY, OR THE U.S. ENVIRONMENTAL PROTECTION AGENCY
GENERATOR INFORMATION:
NAME
US-DOE-PADUCAH GASEOUS DIFFUSION PLANT
ADDRESS
P. O. BOX 1410
CITY
PADUCAH
STATE
KY
ZIP
42001
EPA ID NO./MANIFEST DOCUMENT NO.
KY8890008982
ACCUMULATION START DATE
EPA WASTE NUMBER
D.O.T. PROPER SHIPPING NAME AND UN OR NA NO. WITH PREFIX
HANDLE WITH CARE!
2001 6 11

C-331-10
6/11/01
GENERAL ELECTRIC
600 W 600 V
2001 6 11

2001 6 11

RFD 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-331-10														
	110005		FLUORESCENT LIGHT STARTER	0	☐	☐	☐	☑	☐	☐	☐	6113101	6/13/01	C-752-A
ZONE 1	110001	DMSA0100001	A/C PUMP PARTS	96	☑	☐	☐	☐	☐	☐	☐	6/13/01	6113/01	
ZONE 1	110002	DMSA0100002	PUMP IMPELLERS	6	☑	☐	☐	☐	☐	☐	☐	6/11/01	6111/01	
ZONE 1	110003	DMSA0100003	CARBON PIPE FITTINGS	3	☑	☐	☐	☐	☐	☐	☐	6111/01	6111/01	
ZONE 1	110004	DMSA0100004	METAL PROCESS EQUIPMENT	96	☑	☐	☐	☐	☐	☐	☐	6/13/01	6113/01	
ZONE 1	110006	DMSA0100006	EXHAUST FAN IMPELLER	4	☑	☐	☐	☐	☐	☐	☐	6112101	6112/01	
ZONE 1	110007	DMSA0100007	EXHAUST FAN IMPELLERS	8	☑	☐	☐	☐	☐	☐	☐	6/12101	6112/01	
ZONE 1	110008	DMSA0100008	EXHAUST FAN IMPELLERS	8	☑	☐	☐	☐	☐	☐	☐	6/12/01	6112/01	
ZONE 1	110009	DMSA0100009	WOODEN PALLETS	16	☑	☐	☐	☐	☐	☐	☐	6112/01	6112/01	
ZONE 1	110011	DMSA0100011	WOODEN PALLETS	16	☑	☐	☐	☐	☐	☐	☐	6113/01	6113/01	
ZONE 1	110012	DMSAOI00012	AIR CONDITIONER PARTS	45	☑	☐	☐	☐	☐	☐	☐	6113101	6/13/01	
ZONE 1	110013	DMSA0100013	FORK LIFT FIX BASE	6	☑	☐	☐	☐	☐	☐	☐	6113/01	6113/01	
ZONE 1	110014	DMSA0100014	AJC PUMP CASING, BACKPLATE	8	☑	☐	☐	☐	☐	☐	☐	6/13/01	6113/01	
ZONE 1	110015	DMSAO100015	A/C COMPRESSOR HOUSING	4	☑	☐	☐	☐	☐	☐	☐	6113101	6113/01	
ZONE 1	110016	DMSAOI00016	A/C PUMP CASING	8	☑	☐	☐	☐	☐	☐	☐	6113/01	6113/01	
ZONE 1	110017	DMSAOI00017	A/C PUMP CASING	8	☑	☐	☐	☐	☐	☐	☐	6/13/01	6113/01	
ZONE 1	110018	DMSA0100018	A/C PUMP CASING	8	☑	☐	☐	☐	☐	☐	☐	6113/01	6113/01	
ZONE 1	110019	DMSA0100019	WATER VALVES	4	☑	☐	☐	☐	☐	☐	☐	6113101	6/13/01	
Summary for C-331-10			*(18 RFDs)*	*344 Ft3*										

Grand Total (18 RFDs) *344 Total Ft3*

DOE

LLW

RFD

Request For Disposal

Document ID Number: iinnoi

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
Terri Ross	31871	5325	C-743-1	

W6. Generator's Company	W7. Corp Owner	W8. Origin Site	W9. Origin Facility	W10. Origin Area	W11. Rad Area?
Weskem	DOE	PGDP	C-331	C-331-~~14~~ 10	☒ Yes ☐ No

W12. Number of Items	W13. Process Category (GCC)	W14. Process Activity Code	W15. AWA Number	W16. Physical Form
1	PRO	A93	N/A	Solid

W17. Material Type(s)	W18. Holding Site	W19. Holding Facility	W20. Holding Area	W21 RFD Attachment
MT007	PGDP	C-331	C-331-10	☒ A ☐ B ☐ C

Waste Subcategories (Check all that apply)

	Yes	No		Yes	No		Yes	No		Yes	No
N22. Biological		X	W25. Const. Debris		X	W28. Non-Friable Asbestos		X	W31. DMSA	X	
N23. Accountable		X	W26. Classified		X	W29. TRU Waste		X			
N24. Carcinogen		X	W27. Friable Asbestos		X	W30. CERCLA		X			

Waste Description / Comments

W32. see attached logsheet

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
	Terri Ross	6-13-01

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 + perform inventory.

Reference FWR

Origin Date

PCB Start Date

RCRA Start Date

P7. Waste Coordinator (Issued By)	Badge	Date	P8. Disposal/Storage Completed By	Badge	Date
Terri Ross	31871	7/24/01	Sam Ray Allcock	704291	7/25/01

P9. Field Supervisor	Badge	Date	P10. Data Processing Completed By	Badge	Date
D A Wade	11357	7-25-01	Lonnie Allison	703232	7/26/01

P11. Waste Item information

Waste item No. 1 DOE I

Container No. (Barcode) DMSA010000 1

Weight 1370

Location and Grid C-331-10, zone 1

Container Size

P12. Operator Comments

Low Level waste remains in DMSA until DOE approval for LLW remediation.

BJCF-515a (03/01)

DMSA

WITS Completed

received 6-15-01

LOW-LEVEL RADIOACTIVE WASTE

ATTACHMENT A

DOCUMENT ID NUMBER 110001

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. PK JR 6/26/07	
R2. PROCESS KNOWLEDGE FORM NO.	PK # ~~0209~~ JR 6-26-07 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)

☐ YES ☐ NO

R8. TRANSFERABLE (Alpha)	R9. FIXED (Alpha)
dpm/100cm2	dpm/100cm2
R10. TRANSFERABLE (Beta/Gamma)	R11. FIXED (Beta/Gamma)
dpm/100cm2	dpm/100cm2

MREM/HR MREM/HR @ METERS (B/G)

R14. HP SIGNATURE	R15. SURVEY NUMBER

WASTE ITEM CONTAINER LOG

10. ITEM/CONTAINER	OF	DOCUMENT ID NUMBER 110001

11. WASTE ITEM ID NO.	12. ORIGIN DATE	13. RCRA ACCUMULATION START DATE	14. PCB DATE TO STORAGE
110001-01		N/A	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.)
a/c pump bearing part	1	JR	6/11/01	C-331-10-046 10 lb
a/c pump bearing part	1	JR	6/11/01	C-331-10-044
a/c pump bearing part	1	JR	6/11/01	C-331-10-047
a/c pump bearing part	1	JR	6/11/01	C-331-10-045
a/c pump bearing part	1	JR	6/11/01	C-331-10-043
a/c pump bearing part	1	JR	6/11/01	C-331-10-042
a/c pump bearing cap	1	JR	6/11/01	C-331-10-039 10 lb
a/c pump bearing cap	1	JR	6/11/01	C-331-10-040
12" pipe slip on flange	1	JR	6/11/01	C-331-10-050 10 lb
12" pipe slip on flange	1	JR	6/11/01	C-331-10-051 10 lb
JR 6/01 ~~a/c compressor housing~~	~~1~~	~~JR~~	~~6/11/01~~	~~C-331-10-037 (sheet metal blank)~~
a/c pump backplate	1	JR	6/11/01	C-331-10-034 100 lb
a/c pump backplate	1	JR	6/11/01	C-331-10-019
a/c compressor housing	1	JR	6/11/01	C-331-10-037 100 lb
a/c pump bearing part	1	JR	6/11/01	C-331-10-041
a/c pump casing & back plate	1	JR	6/11/01	C-331-10-006 pump casing & backpl 150 lb
a/c pump bearing part	1	JR	6/11/01	C-331-10-048 bearing rocker 10 lb
a/c pump backplate	1	JR	6/11/01	C-331-10-010
a/c pump backplate	1	JR	6/11/01	C-331-10-011 100 lb
a/c pump backplate	1	JR	6/11/01	C-331-10-030
a/c pump backplate	1	JR	6/11/01	C-331-10-032
a/c pump backplate	1	JR	6/11/01	C-331-10-033
a/c pump bearing part	1	JR	6/11/01	C-331-10-049 rocker bearing
vacuum balance exp. joint	1	JR	6/11/01	C-331-10-012 200 lb
		Full		

DMSA0100001	☐ YES ☐ NO		NET 96	FT3
114. GROSS WEIGHT 1370	115. UNITS	116. INNER CONTAINER TYPE	117. OUTER CONTAINER TYPE	118. TANK SEAL NUMBER
CONTAINER GENERATOR SIGNATURE Denis Ross				DATE 6-11-01

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 #: 110001 Description: ST-90 Box Independent Confirmations: Individual #1: J D Young Date: 6-18-01 Individual #2: C A Wade Date: 6/18/01 • • • • • • • • • • • ~~Other Information:~~ Bldg./Col.: C-331 Col. 7-1 DMSA #: C-331-10 Origin:	Historical Documentation: ?roc— s 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:	Classification: ___ NCS-Exempt ___ Spacing-Controlled ___ Singularly-Contingent DMSA Inspector: H C Anderson Date: 6-11-01 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: N/A Date: Person #2: Date:

Comments: NCS EXEMPT BY PREVIOUS CHARACTERIZATION
REFER TO ATTACHED SHEETS FOR DETAILED-SPECIFIC 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)

COPY

DMSA - Characterization Form

MAY 0 9 2

Item Number: DMSA-331-10-006 Building: 331 DMSA #: 331-10

Item Description: AC Pump Casing & Backplate

Origin: JC & GDP Owner Status: DOE Capital Equipment ID: NA

Analytical Data

Initial Characterization

Operating History

No **SCS** 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

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 #: 31373

Date: 5-9-00

RCRA or **TSCA** Issues Identified

Comments: NA

☐ Item relocated

New Location: Building: NA

DMSA #:

ENTERED 5-16-00

Date Printed: Monday, February 21, 2000

110001

COPY

DMSA - Charac[illegible]ation Form

Item Number: DMSA-331-10-012 Building: 331 DMSA #: 331-10

Item Description: Vacuum Bellows Expansion Jt

Origin: PGDP Owner Status: DOE Capital Equipment ID: NA

MAY 0 9 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

Issued and [illegible]m

Assay Smear Sa[illegible] Complete

Independent Ve[illegible]nples[illegible]tion of Ass[illegible]

Indep[illegible]ndent Verifica[illegible] attached Assay

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

X NCS-Exempt

LS

UH

PEH

Characterization Completed By:

Name: [illegible]

Badge #: 31373

Date: 5-9-00

COPY

RCRA or TSCA Issues Identified

Comments:

Item relocated

New Location: Building:

DMSA #:

ENTERED 5-16-00

Date Printed: Monday, February 21, 2000

110001

DMSA - Charac ation Form

MAY 0 9 2000

Item Number: DMSA-331-10-032 Building: 331 DMSA #: 331-10

Item Description: AC Pump Backplate

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 esposed 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

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: L. Shitt

Badge #: 31373

Date: 5-9-00

COPY

-- RCRA or TSCA Issues Identified

Comments: NA

☐ Item relocated NA

New Location: Building:

DMSA #:

ENTERED 5-10-00

Date Printed: Monday, February 21, 2000

110001

v 57

DMSA - Charac ation Form

Item Number: DMSA-331-10-007 Building: 331 DMSA #: 331-10

Item Description: AC Pump Casing & Backplate

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

JUN 21 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

VOID

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 Completed

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:

Badge #:

Date:

RCRA or TSCA Issues Identified

Comments:

See 331-10-037

☐ Item relocated

New Location: Building:

DMSA #:

COPY

ENTERED 6-22-00

Date Printed: Monday, February 21, 2000

VOID

DMSA - Charac ation Form

JUN 2 0 2000

Item Number: DMSA-331-10-040 Building: 331 DMSA #: 331-10

Item Description: AC Pump BEARING CAP

Origin: DC DP Owner Status: DOE Capital Equipment ID: N/A

Analytical Data

Initial Characterization

Operating History

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

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 #: 662505

Date: 6-15-00

RCRA or TSCA Issues Identified N/A

Comments:

☐ Item relocated N/A

New Location: Building:

DMSA #:

Cy NMCA

JUN 2 0 2000

ENTERED 6-20-00

Date Printed: Monday, February 21, 2000

DMSA - Charac ation Form

JUN 2 0

Item Number: DMSA-331-10-042 Building: 331 DMSA #: 331-10

Item Description: AC Pump Bearing Part

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: [illegible]

Badge #: 662505

Date: 6-19-00

☐ RCRA or TSCA Issues Identified NA

Comments:

☐ Item relocated NA

New Location: Building:

DMSA #:

[illegible]

JUN 2 0 2000

ENTER 6-20-00

Date Printed: Monday, February 21, 2000

DMSA - Charac ation Form

Item Number: DMSA-331-10-043 Building: 331 DMSA #: 331-10

JUN 2 0 2000

Item Description: A C Pump Bearing Pack

Origin: PG-DP 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

✓ NCS-Exempt

LS

UH

PEH

Characterization Completed By:

Name: CWhelan

Badge #: 662505

Date: 6-19-00

RCRA or TSCA Issues Identified N A

Comments:

Item relocated N A

New Location: Building:

DMSA #:

Cat Uncat

JUN 2 0 2000

ENTERED 6-20-00

Date Printed: Monday, February 21, 2000

11001

DMSA - Characterization Form

JUN 2 0 2000

Item Number: DMSA-331-10-044 Building: 331 DMSA #: 331-10

Item Description: AC Pump Bearing Pack

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

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

X NCS-Exempt

LS

UH

PEH

Characterization Completed By:

Name: C.W. Walton

Badge #: 662505

Date: 6-19-00

N/A N/A

RCRA or TSCA Issues Identified N/A

Comments:

Item relocated N/A

New Location: Building:

DMSA #:

NMCA

JUN 2 0 2000

ENTERED 6-20-00

Date Printed: Monday, February 21, 2000

DMSA - Charac ation Form

JUN-2-0-2000

Item Number: DMSA-331-10-047 Building: 331 DMSA #: 331-10

Item Description: An Pressed Borosilic Panels

Origin: PC-DE 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 XCS 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
- Assay Request and Receipt Form Issued
- Assay Samples Complete
- 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

- X NCS-Exempt
- LS
- UH
- PEH

Characterization Completed By:

Name: [illegible]

Badge #: 166205

Date: 6-14-00

- RCRA or TSCA Issues Identified

Comments:

- Item relocated

New Location: Building:

DMSA #:

JUN-2-0-2000

ENTERED 6-20-00

Date Printed: Monday, February 21, 2000

DMSA - Charac .ation Form

JUN 2 0 2000

Item Number: DMSA-331-10-048 Building: 331 DMSA #: 331-10

Item Description: AC Pump Bearing Part

Origin: PC-50 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: C W Waller

Badge #: 662505

Date: 6-19-00

RCRA or TSCA Issues Identified N/A

Comments:

Item relocated N/A

New Location: Building:

DMSA #:

C. J. Nuell

JUN 2 0 2000

ENTERED 6-26-00

Date Printed: Monday, February 21, 2000

110001

DMSA - Charac .ation Form

JUN 2 0 2000

Item Number: DMSA-331-10-049 Building: 331 DMSA #: 331-10

Item Description: AC Pump Bearing Part

Origin: Prod 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 est and Receipt Form ☐ As- Smear Samples Complete ☐ Indep dent Verification of Assay form co pleted and attached. ☐ Sample Rec Assay wt%U-235: 0 ☐ Assay Smea ☐ Independent form compl 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: CW Walla Badge #: 662505 Date: 6-19-00

☐ RCRA or TSCA Issues Identified N A

Comments:

☐ Item relocated N A

New Location: Building:

DMSA #:

Cal N McA

JUN 2 0 2000

ENTERED 6-20-00

DMSA - Charac .ation Form

JUN 2 0 2000

Item Number: DMSA-331-10-050 Building: 331 DMSA #: 331-10

Item Description: 12" Pipe Slip on Flange

Origin: R-DP 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 #: 662505

Date: 6-19-00

☐ RCRA or TSCA Issues Identified

☐ Item relocated

JUN 2 0 2000

ENTERED 6-20-00

Date Printed: Monday, February 21,2000

DOE

Request For Disposal

LLW

RFD

Document ID Number
110002

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
Terri Ross	31871	5325	G-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-331	C-331-10	☒ 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-331	C-331-10	☒ 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. box of misc. pump impellers (4) etc. 230 lbs.

DMSA-331-10-024

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
	Terri Ross	6-11-01

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 & perform inventory.

Reference FWR
Origin Date
PCB Start Date
RCRA Start Date

P7. Waste Coordinator (Issued By)	Badge	Date	P8. Disposal/Storage Completed By	Badge	Date
Terri Ross	31871	7/24/01	Tom Ray Allcock	704291	7/25/01

P9. Field Supervisor	Badge	Date	P10. Data Processing Completed By	Badge	Date
D A Wade	11357	7/25/01	Jessie Gleason	703232	7/26/01

P11. Waste Item Information

Waste Item No. 110002-01
Container No. (Barcode) DMSA0100002
Weight 230
Location and Grid C-331-10 zone 1
Container Size

P12. Operator Comments

Low Level Waste remains in DMSA until DOE approval for LLW remediation.

BJCF-515a (03/01)

DMSA

WITS Completed

received 6-15-01

LOW-LEVEL RADIOACTIVE WASTE

ATTACHMENT A

DOCUMENT ID NUMBER 110002-01

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.	

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. 0210	

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	OF	DOCUMENT ID NUMBER 110002

11. WASTE ITEM ID NO.	12. ORIGINDATE	13. RCRA ACCUMULATION START DATE	14. PCB DATE TO STORAGE
111002-01	6/11/01	N/A	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.)
box of misc. pump impellers, etc	1	JR	6/11/01	DMSA-331-10-024 (4) pump impellers

19. CONTAINER ID NO. (Barcode)	110. ABSORBENT MATERIALS? QUANTITY TYPE	111. NMC&A FORM	112. EST. NET VOLUME	113. UNITS
DMSA0160002	☐ YES ☒ NO		6	FT3

114. GROSS WEIGHT	115. UNITS	116. INNER CONTAINER TYPE	117. OUTER CONTAINER TYPE	118. TANK SEAL NUMBER
230			S	

119. CONTAINER GENERATOR SIGNATURE	DATE
Jerri Ries	6-11-01

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 #: 110002 Description: BOX OF MISC. PUMP IMPELLERS ETC. 4 EACH Independent Confirmations: Individual #1: [illegible] Date: 6-11-01 Individual #2: HCAnderson Date: 6-11-01 **Other Information:** Bldg./Col.: C-331 Col. Z-1 DMSA #: C-331-10 Origin:	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: 6-11-01 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: N/A Date:

Comments: NCS EXEMPT BY PREVIOUS CHARACTERIZATION (DMSA-331-10-024)
REFER TO ATTACHED SHEETS FOR DETAILED SPECIFIC 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)

DMSA - Characterization Form

Item Number: DMSA-331-10-024 Building: 331 DMSA #: 331-10

Item Description: Box of Miscellaneous Pump Impellers ETC.

MAY 09 2000

Origin: GDP Owner Status: DOE Capital Equipment ID:

Analytical Data

Initial Characterization

Operating History

No NCS Concerns (Not Process Equipment)

Independent Verification Form (verifying no SCS 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: [signature]

Badge #: 31373

Date: 5-9-00

RCRA or TSCA Issues Identified

N/A

Comments:

Item relocated

N/A

New Location: Building:

DMSA #:

ENTERED 5-16-00

Date Printed: Monday, February 21, 2000

DOE LLW RFD

Request For Disposal

Document ID Number 110003

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
Terri Ross	31871	5325	C-7431	

W6. Generator's Company	W7. Corp Owner	W8. Origin Site	W9. Origin Facility	W10. Origin Area	W11. Rad Area?
Weskem	DOE	PGDP	C-331	C-331-10	☒ 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-331	C-331-10	☒ 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. box of carbon pipe fittings 50lb
C-331-10-038

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

W33. Generation Plan No.	W34. Generator's Signature	Date
	Terri Ross	6/11/01

Handling / Pickup Information (Completed by Waste Management)

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

___ 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 + perform inventory

Reference FWR

Origin Date

PCB Start Date

RCRA Start Date

P7. Waste Coordinator (Issued By)	Badge	Date	P8. Disposal/Storage Completed By	Badge	Date
Terri Ross	31871	7/24/01	Jean Ray Allenk	704291	7/25/01

P9. Field Supervisor	Badge	Date	P10. Data Processing Completed By	Badge	Date
D A Wade	11357	7/25/01	Jerrie Musson	703232	7/26/01

P11. Waste Item Information

Waste Item No. 110003-01
Container No. (Barcode) DMSA0100003
Weight 50 lbs
Location and Grid C-331-10 zone 1
Container Size

P12. Operator Comments

Low Level Waste remains in DMSA until DOE approval for LLW remediation.

BJCF-515a (03/01)

DMSA

WITS Completed

received 6-15-01

LOW-LEVEL RADIOACTIVE WASTE

ATTACHMENT A

DOCUMENT ID NUMBER 110003-01

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	

DOCUMENT TYPE	DOCUMENT NUMBER
01. ANALYSIS SAMPLE ID NO.	
02. PROCESS KNOWLEDGE FORM NO. 0210	

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

I0. ITEM/CONTAINER	OF	DOCUMENT ID NUMBER
		110003

I1. WASTE ITEM ID NO.	I2. ORIGIN DATE	I3. RCRA ACCUMULATION START DATE	I4. PCB DATE TO STORAGE
110003-01	6-11-01	N/A	N/A

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.)
carbon pipe fittings	1	JR	6/11/01	C-331-10-038 (in cardboard box)

I9. CONTAINER ID NO. (Barcode)	I10. ABSORBENT MATERIALS? ☐ YES ☒ NO	QUANTITY	TYPE	I11. NMC&A FORM	I12. EST. NET VOLUME	I13. UNITS
DMSA0100003					3	FT³

I14. GROSS WEIGHT	I15. UNITS	I16. INNER CONTAINER TYPE	I17. OUTER CONTAINER TYPE	I18. TANK SEAL NUMBER

I19. CONTAINER GENERATOR SIGNATURE	
Cherie Ross	6/11/0

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 #: 110003 Description: BOX OF CARBON PIPE FITTINGS Independent Confirmations: Individual #1: [illegible] Date: 10-11-01 Individual #2: HC Anderson Other Information: Bldg./Col.: C-331 Col. Z-1 DMSA #: C-331-10 Origin:	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: 10-11-01 NDA Expert: (if NDA is performed) Date: Independent Verifications: Person #1: Date: Person #2: N/A 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:

Comments: NCS EXEMPT BY PREVIOUS CHARACTERIZATION (DMSA - 331-10-038)
REFER TO ATTACHED SHEETS FOR DETAILED SPECIFIC 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 [illegible] acing-Controlled Item against the written description for [illegible] information to match. Independent Person #1 : Independent Person #1: Date: Independent Person #2: Date:	I have independently [illegible] Item against the written [illegible] 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 - Charac ation Form

JUN 2 0 2000

Item Number: DMSA-331-10-038 Building: 331 DMSA #: 331-10

Item Description: CARBON PIPE FITTINGS

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: 6-19-00

RCRA or TSCA Issues Ident fied

NA

Comments:

Item relocated NA

New Location: Building:

DMSA #:

NMLA

JUN 2 0 2000

ENTERED 6-20-00

Date Printed: Monday, February 21, 2000

DOE

LLW

RFD
Document ID Number
110004

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
Terri Ross	31871	5325	C-743 I	

W6. Generator's Company	W7. Corp Owner	W8. Origin Site	W9. Origin Facility	W10. Origin Area	W11. Rad Area?
Weskem	DOE	PGDP	~~PGDP~~ C-331	C-331-10	☒ 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-331	C-331-10	☒ 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. metal process equipment 710 lbs
B25 Box

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
	Terri Ross	6-12-01

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

Reference FWR
Origin Date
PCB Start Date
RCRA Start Date

P7. Waste Coordinator (Issued By)	Badge	Date	P8. Disposal/Storage Completed By	Badge	Date
Terri Ross	31871	7/24/01	Jason Ray Allen	704291	7/25/01

P9. Field Supervisor	Badge	Date	P10. Data Processing Completed By	Badge	Date
D A Wade	11357	7/25/01	Jerrie Gleason	703232	7/26/01

P11. Waste Item Information

Container No. (Barcode) ____
Weight 710 lbs
Location and Grid ____
Container Size ____

P12. Operator Comments

DMSA until DOE approval for LLW remediation.

DMSA

Completed

received
JH 6-15-01

LOW-LEVEL RADIOACTIVE WASTE

ATTACHMENT A

DOCUMENT ID NUMBER 110004

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) 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	OF	DOCUMENT ID NUMBER 110004

11. WASTE ITEM ID NO.	12. ORIGIN DATE	13. RCRA ACCUMULATION START DATE	14. PCB DATE TO STORAGE
110004-01	6-11-01	N/A	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.)
See attached log sheet for contents				DMSA-C-331-10-035

19. CONTAINER ID NO. (Barcode)	110. ABSORBENT MATERIALS? QUANTITY TYPE	111. NMC&A FORM	112. EST. NET VOLUME	113. UNITS
DMSA0100DD4	☐ YES ☒ NO		96	FT3

114. GROSS WEIGHT	115. UNITS	116. INNER CONTAINER TYPE	117. OUTER CONTAINER TYPE	118. TANK SEAL NUMBER
710		plastic liner	B-25 box	

119. CONTAINER GENERATOR SIGNATURE	DATE
Gene Ray	6/12/01

WASTE IDENTIFICATION LOG SHEET

Copy

Generator Name:

RFD No.: DMSA 331-10-035

Building/Area: C-331

Storage Location: ~~331-10-293~~ JK 7-7-00

Container Type/ID No.: B-25 Box 331-10-~~293~~ 035

BAG/ITEM No.	WASTE MATERIAL	GSA/BLDG No.	SOURCE	PCB ppm	INITIAL	DATE	WEIGHT
025	~~331~~ DMSA 331-10-025	C-331				5/5/00	
002	331-10-002						
001	331-10-002						
001	331-10-028						
002	~~331-10-029 036~~ JK 7-6-00						
	331-10-003	DMSA 331-10	CA		JC	5-4-00	
	331-10-004	DMSA 331-10	CA		JC	5-4-00	
	331-10-031	"	"		"	"	
1	Mounting bracket	"	"		"	"	
	331-10-036	"	"		"	"	
3	bearing housing	"	"		"	"	
9	bearings	"	"		"	"	

Source Code: **C** - Contamination Area **CCZ** - Contamination Control Zone

C

COMMIT

DEPOSITOR'S INITIALS CERTIFY THAT MATERIAL IS PROPERLY DESCRIBED; ALL EQUIPMENT CONTAINING LIQUIDS, REFRIGERAN AND HAZARDOUS COMPONENTS HAVE BEEN PROPERLY MANAGED; AND ALL PROCEDURAL REQUIREMENTS HAVE BEEN MET.

CP-20300 (11-1-99)

WASTE IDENTIFICATION LOG SHEET

COPY

Generator Name:

RFD No.: DMSA 331-10-035

Building/Area: C-331

Storage Location: ~~331-10-293~~ JK 7-7-00

Container Type/ID No.: B-25 Box 331-10-~~293~~ 035

BAG/ITEM No.	WASTE MATERIAL	GSA/BLDG No.	SOURCE	PCB ppm	INITIAL	DATE	WEIGHT
025	~~331~~ DMSA 331-10-025	C-331	SEE B DOCKET	BEARING & CRAT		3/3/00	
002	331-10-002 AC COMP BACKPLATE						
001	331-10-001 AC COMP BACKPLATE						
001	331-10-028 AC COMP BACKPLATE						
002	~~331-10-029~~ ~~036~~ JK 7-6-00						
	331-10-003 AC COMP SUCTION & BACKPLATE	DMSA 331-10	CA		JC	5-4-00	
	331-10-004 AC COMP BACKPLATE	DMSA 331-10	CA		JC	5-4-00	
	331-10-031 AC COMP BACKPLATE	"	"		"	"	
1	Mounting bracket	"	"		"	"	
	331-10-036 AC COMP BACKPLATE	"	"		"	"	
3	bearing housing	"	"		"	"	
9	bearings	"	"		"	"	

Source Code: C - Contamination Area CCZ - Contamination Control Zone

C

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.

COMMIT 1996 0:7

CP-20300 (11-1-99)

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

ITEM	INITIAL CHARACTERIZATION	ANALYTICAL CHARACTERIZATION: ^{235}U Assay Analysis	Miss Analysis	Subcritical Miss Limits	NDA Radiation Surveys	MCS CLASSIFICATION
RFD #: 110004 Description: B25 Box **Independent Confirmations:** Individual #1: Denis Ross Date: 6-12-01 Individual #2: D a Wade Date: 6/12/01 • • • • • • • • • • • **Other Information:** Bldg./Col.: C331 AA1 DMSA #: C 331-10 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:** X NCS-Exempt ___ Spacing-Controlled ___ Singularly-Contingent DMSA Inspector: [illegible] Date: 6-12-01 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: NCS EXEMPT BY PREVIOUS CHARACTERIZATION (DMSA-C331-10-035)

REFER TO ATTACHED SHEETS FOR DETAILED - SPECIFIC 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)

DMSA - Charac. ation Form

Item Number: DMSA-331-10-035 Building: 331 DMSA #: 331-10

Item Description: B-25 Box

Origin: PGDP Owner Status: DOE Capital Equipment ID: NA

Analytical Data

Initial Characterization

Operating History

No SCS 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.

PER DMSA CHARACTERIZATION FORM

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 #: C500165

Date: 7-6-02

RCRA or TSCA Issues Identified

Comments:

☐ Item relocated

New Location: Building:

DMSA #:

All is Chal mes.

DMSA - Charac. ation Form

Item Number: DMSA-331-10-001 Building: 331 DMSA #: 331-10

MAY 0 9 2000

Item Description: AC Compressor Backplate

Origin: JK Tube + GDP Owner Status: DOE Capital Equipment ID: NA

Analytical Data

Initial Characterization

Operating History

No SCS 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

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: [signature]

Badge #: 31373

Date: 5-9-00

RCRA or TSCA Issues Identified NA

☐ Item relocated NA

New Location: Building:

DMSA #:

Comments:

ENTERED 5-16-00

Date Printed: Monday, February 21, 2000

DMSA - Charac zation Form

Item Number: DMSA-331-10-003 Building: 331 DMSA #: 331-10

Item Description: A C Compressor Suction & Backplate

Origin: Rocky Flats & GDP Owner Status: DOE Capital Equipment ID: N/A

MAY 0 9 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: [signature]

Badge #: 31373

Date: 5-9-00

RCRA or TSCA Issues Identified N/A

Comments:

Item relocated N/A

New Location: Building:

DMSA #:

ENTERED 5-16-00

Date Printed: Monday, February 21, 2000

DMSA - Characterization Form

Item Number: DMSA-331-10-004 Building: 331 DMSA #: 331-10

MAY 0 9 2000

Item Description: AC Compressor Backplate

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

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: L. Sletto

Badge #: 31373

Date: 5-9-00

RCRA or TSCA Issues Identified

Comments: NA

☐ Item relocated NA

New Location: Building:

DMSA #:

COPY

ENTERED 5-16-00

Date Printed: Monday, February 21, 2000

DMSA Characterization Form

Item Number: DMSA-331-10-031 Building: 331 DMSA #: 331-10

Item Description: AC Pump Backplate

Capital Equipment ID: N/A

MAY 0 9 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.

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

NDA Requested

NDA Completed

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 #: 31373

Date: 5-9-00

RCRA or TSCA Issues Identified N/A

Comments:

Item relocated N/A

New Location: Building:

DMSA #:

ENTERED 5-16-00

DMSA - Characterization Form

Item Number: DMSA-331-10-026 Building: 331 DMSA #: 331-10

MAY 0 9 2000

Item Description: A C Pump Backplate

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

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: [signature]

Badge #: 31373

Date: 5-9-00

RCRA or TSCA Issues Identified NA

Comments: NA

☐ Item relocated NA

New Location: Building:

DMSA #:

ENTERED 5-16-00

Date Printed: Monday, February 21, 2000

DOE HAZARDOUS WASTE

Request For Disposal

Document ID Number 110005

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. / WC
Terri Ross	31871	5325	C743T1	

W6. Generator's Company	W7. Corp Owner	W8. Origin Site	W9. Origin Facility	W10. Origin Area	W11. Rad Area?
Weskem	DOE	PGDP	C-331	~~C-3 Multiple~~ C-331-10	☒ Yes ☐ No

W12. Number of Items	W13. Process Category (GCC)	W14. Process Activity Code	W15. AWA Number	W16. Physical Form
1	PRO LEG	A93	N/A	Solid

W17. Material Type(s)	W18. Holding Site	W19. Holding Facility	W20. Holding Area	W21 RFD Attachment
MT007	PGDP	C-752A		☒ A ☒ B ☐ C

Waste Subcategories (Check all that apply)

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

Waste Description / Comments

W32. fluorescent fixture end piece w/ starter from C-331-10 and ~~other RCRA waste~~ JR 6/25/01 from zone 1 to RCRA storage

JR 6/25/01 COLLECTION DATE CLOSED: FINAL WGT:

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
	Terri Ross	6-13-01

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

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

P6. Additional Handling Instructions

Put lamp starter into collection container RFD #110126 & verify labeling.

Reference FWR

Origin Date 6-11-01

PCB Start Date

RCRA Start Date

P7. Waste Coordinator (Issued By)	Badge	Date	P8. Disposal/Storage Completed By	Badge	Date
Terri Ross	31871	7/26/01	Jeff Seaton	704274	7-26-01

P9. Field Supervisor	Badge	Date	P10. Data Processing Completed By	Badge	Date
D. Wade	11357	7/26/01	Jerrie Gibson	703232	7-26-01

P11. Waste Item Information

Waste Item No. 110005-01

Container No. (Barcode) ~~PAD01C026645~~ DW 7/28/01

Weight est. 8 oz

Location and Grid C-752A

Container Size .1 cu. ft. est.

P12. Operator Comments

BJCF-515a (03/01)

DMSA

WITS Completed

received 6-13-01

RCRA AND/OR TSCA WASTE

ATTACHMENT B

DOCUMENT ID NUMBER 110005

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
	B11. RADIOACTIVE ☑ 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. 0209		T5. UNDERLYING HAZARDOUS CONSTITUENTS		✓

T6. PCBs PRESENT	T7. PCB CONCENTRATION	T8. PCB SOURCE CONCENTRATION	T9. PCB SOURCE CONCENTRATION RANGE (ppm)
☐ YES ☑ NO	ppm	ppm	☐ 50-499.99 ☐ >=500

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 LDRCODE	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

X14 SUBSTANCE NAME

☐ X15 CONSITUENT CONTINUATION SHEET(S) THROUGH ATTACHED

WASTE ITEM CONTAINER LOG

COPY

10. ITEM/CONTAINER	OF	DOCUMENT ID NUMBER
1	1	110005

12. ORIGIN DATE		
6/11/01	6/11/01	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.)
fluorescent fixture	1	JR	6/11/01	C. 331-10
end piece w/ starter				

19. CONTAINER ID NO. (Barcode)	110. ABSORBENT MATERIALS? QUANTITY TYPE	111. NMC&A FORM	112. EST. NET VOLUME	113. UNITS
PAD01CO2645	[ ] YES [X] NO			

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

119. CONTAINER GENERATOR SIGNATURE	DATE
Jesse Rios	6-11-01

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 #: 110006 Description: EXHAUST FAN IMPELLER Independent Confirmations: Individual #1: Denis Rosso Date: 6-12-01 Individual #2: Ken Date: 6-12-01 • • • • • • • • • • • Other Information: Bldg./Col.: C-331 Col. 7-1 DMSA #: C-331-1D Origin:	Historical Documentation: Process Knowledge: Visual Inspections Completed: ____ External Surfaces Inspection ____ Internal Surfaces Inspection Completed By: Date:	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	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: 6-12-01 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:

Comments: NCS EXEMPT BY PREVIOUS CHARACTERIZATION (DMSA 331-10-015)
REFER TO ATTACHED SHEETS FOR DETAILED SPECIFIC 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:

Rev. 3 (10/2000)

COPY

110006

DMSA - Characterization Form

MAR 27 2000

(3)

Item Number: DMSA-331-10-015 Building: 331 DMSA #: 331-10

Item Description: Cylinder Tare Scale

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: 3-16-00

RCRA or TSCA Issues Identified

Comments: N/A

[ ] Item relocated N/A

New Location: Building:

DMSA #:

NMC&A Exempt
No visible Uranium

[illegible] 3-27-00

RECORD COPY JL 6-19-01

ENTERED 6-28-00

Date Printed: Monday, February 21, 2000

DOE
Request For Disposal

LLW

RFD

Document ID Number
110006

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
Terri Ross	31871	5325	C743T1	

W6. Generator's Company	W7. Corp Owner	W8. Origin Site	W9. Origin Facility	W10. Origin Area	W11. Rad Area?
Weskem	DOE	PGDP	C-331	C-331-10	☒ Yes ☐ No

W12. Number of Items	W13. Process Category (GCC)	W14. Process Activity Code	W15. AWA Number	W16. Physical Form
	LEG	A93	N/A	Solid

W17. Material Type(s)	W18. Holding Site	W19. Holding Facility	W20. Holding Area	W21. RFD Attachment
MT007	PGDP	C-331	C-331-10	☒ 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.
exhaust fan impeller
DMSA -331-10-015

~~75~~ 100 lbs.

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
	Terri Ross	6-12-01

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 + perform inventory

Reference FWR	
Origin Date	
PCB Start Date	
RCRA Start Date	

P7. Waste Coordinator (Issued By)	Badge	Date	P8. Disposal/Storage Completed By	Badge	Date
Terri Ross	31871	7/24/01	Jam Ray Allcock	704291	7/25/01

P9. Field Supervisor	Badge	Date	P10. Data Processing Completed By	Badge	Date
D A Wade	11357	7/25/01	Jessie Hesson	703232	7/26/01

P11. Waste Item Information
Waste Item No. 110006-01
Container No. (Barcode) DMSA0100006
Weight 100 lbs
Location and Grid C-331-10
Container Size

P12. Operator Comments
Low Level Waste remains in DMSA until DOE approval for LLW remediation.

BJCF-515a (03/01)

DMSA

WITS Completed

received 6-15-01

LOW-LEVEL RADIOACTIVE WASTE

ATTACHMENT A

DOCUMENT ID NUMBER 110006-01

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	

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.	

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.	
O2. PROCESS KNOWLEDGE FORM NO 0210	

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	k13. DOSE RATE MREM/HR @ METERS (B/G)
R14. HP SIGNATURE	R15. SURVEY NUMBER

WASTE ITEM CONTAINER LOG

I1. WASTE ITEM ID NO.	I2. ORIGIN DATE	I3. RCRA ACCUMULATION START DATE	I4. PCB DATE TO STORAGE
110006		N/A	N/A

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.)
exhaust fan impeller	1	JR	6/12/01	OMSA-331-10-015

I9. CONTAINER ID NO. (Barcode)	I10. ABSORBENT MATERIALS? QUANTITY TYPE	I11. NMC&A FORM	I12. EST. NET VOLUME	I13. UNITS
DMSF			4	FT3

I14. GROSS WEIGHT	I15. UNITS	I16. INNER CONTAINER TYPE	I17. OUTER CONTAINER TYPE	I18. TANK SEAL NUMBER
100 lbs				

I19. CONTAINER GENERATOR SIGNATURE	DATE
[illegible]	6/12/01

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 #: 110006 Description: EXHAUST FAN IMPELLER Independent Confirmations: Individual #1: Denis Rosa Date: 6-12-01 Individual #2: Ken Date: 6-12-01 • • • • • • • • • • • Other Information: Bldg./Col.: C-331 Col. Z-1 DMSA #: C-331-10 Origin:	Historical Documentation: Process Knowledge: Visual Inspections Completed: ____ External Surfaces Inspection ____ Internal Surfaces Inspection Completed By: Date:	Sample A: ___ 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 ___ rated Limits ___ Hydrated Limits	Sample A: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assume 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: K Henderson Date: 6-12-01 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:

Comments: NCS EXEMPT BY PREVIOUS CHARACTERIZATION (DMSA 331-10-015)
ATTACHED SHEETS FOR DETAILED SOURCE 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-ControlledItem against the written instructions and find this information to match.

Independent Person #1:
Date:

Independent Person #2:
Date:

I have independently confinned 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:

110006

DMSA - Characterization Form

MAR 27 2000

(3)

Item Number: DMSA-331-10-015 Building: 331 DMSA #: 331-10

Item Description: Exhaust Fan Impeller

Origin: PEDP 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: 3-16-00

RCRA or TSCA Issues Identified

NA

Comments:

Item relocated NA

New Location: Building:

DMSA #:

NMC&A Exempt
No visible Uranium

[illegible] 3-27-00

ENTERED 3-28-00

Date Printed: Monday, February 21, 2000

DOE

LLW

RFD

Request For Disposal

Document ID Number 110007

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
Terri Ross	31871	5325	C743T1	

W6. Generator's Company	W7. Corp Owner	W8. Origin Site	W9. Origin Facility	W10. Origin Area	W11. Rad Area?
Weskem	DOE	PGDP	C-331	C-331-10	☒ Yes ☐ No

W12. Number of items	W13. Process Category (GCC)	W14. Process Activity Code	W15. AWA Number	W16. Physical Form
2	LEG	A93	N/A	Solid

W17. Material Type(s)	W18. Holding Site	W19. Holding Facility	W20. Holding Area	W21 RFD Attachment
MT007	PGDP	C-331	C-331-10	☒ 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. exhaust fan impellers 200 lbs
C-331-10-013
C-331-10-014

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

W33. Generation Plan No.	W34. Generator's Signature	Date
	Terri Ross	6/12/01

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	___ WESKEC
___ ASBESTOS	___ REACTIVE	___ TRANSURANIC	___ NON-HAZ	

P6. Additional Handling Instructions

Verify labeling & perform inventory

Reference FWR

Origin Date

PCB Start Date

RCRA Start Date

P7. Waste Coordinator (Issued By)	Badge	Date	P8. Disposal/Storage Completed By	Badge	Date
Terri Ross	31871	7/24/01	Jim Ray Allen	704291	7/25/01

P9. Field Supervisor	Badge	Date	P10. Data Processing Completed By	Badge	Date
D A Wade	11357	7/25/01	Jessie Gleason	703232	7/26/01

P11. Waste Item Information

Waste Item No. 110007-01
Container No. (Barcode) DMSA0100007
Weight 200 lbs
Location and Grid C-331-10 zone 1
Container Size

P12. Operator Comments

Low Level Waste remains in DMSA until DOE approval for LLW remediation.

BJCF-515a (03/01)

DMSA

WITS Completed

received 6-15-01

LOW-LEVEL RADIOACTIVE WASTE

ATTACHMENT A

DOCUMENT ID NUMBER 110007-01

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	

DOCUMENT TYPE	DOCUMENT NUMBER
01. ANALYSIS SAMPLE ID NO.	
O2. PROCESS KNOWLEDGE FORM NO. 0210	

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 MREM/HR @ METERS (B/G)
R14. HP SIGNATURE	R15. SURVEY NUMBER

WASTE ITEM CONTAINER LOG

I1. WASTE ITEM ID NO.	I2. ORIGIN DATE	I3. RCRA ACCUMULATION START DATE	I4. PCB DATE TO STORAGE
110007-01		N/A	N/A

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.)
exhaust fan impeller	1	JR	6/12/01	C-331-10-013
exhaust fan impeller	1	JR	6/12/01	C-331-10-014
				Banded together as one item

I9. CONTAINER ID NO. (Barcode)	I10. ABSORBENT MATERIALS? QUANTITY TYPE	I11. NMC&A FORM	I12. EST. NET VOLUME	I13. UNITS
			8	

I19. CONTAINER GENERATOR SIGNATURE: Dave Ross

DATE: 6/12/01

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 #: 110007 Description: 2 EA IMPELLERS Independent Confirmations: Individual #1: Neil Ross Date: 6-12-01 Individual #2: Date: 6-12-01 Other Information: Bldg./Col.: C-331 COL L-1 DMSA #: C-331 - 10 Origin:	Historicel 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	___ kg²rsll ___ 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: 6-12-01 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: N/A Person #2: Date:

Comments: NCS EXEMPT BY PREVIOUS CHARACTERIZATION (DMSA-331-10-13 DMSA-331-10-014)
REFER TO ATTACHED SHEETS FOR DETAILED SPECIFIC 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)

DMSA - Charac ation Form

Item Number: DMSA-331-10-013 Building: 331 DMSA #: 331-10

Item Description: Exhaust Fan Impeller

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

MAR 2 7 2000

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 concamination) is completed arid 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

X NCS-Exempt

LS

UH

PEH

Characterization Completed By:

Name: [illegible]

Badge #: 662505

Date: 3-16-00

RCRA or TSCA Issues Identified N/A

Item relocated N/A

Comments:

New Location: Building:

DMSA #:

NMC&A Exempt
No visible Uranium

[illegible] 3-27-00

ENTERED 3-28-00

Date Printed: Monday, February 21, 2000

DMSA - Charac ation Form

MAR 27 2000

Item Number: DMSA-331-10-014 Building: 331 DMSA #: 331-10

Item Description: Exhaust Fan Impeller

Origin: PGDP 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

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: 3-16-00

. RCRA or TSCA Issues Identified

Comments:

NA

Item relocated NA

New Location: Building:

DMSA #:

NMC&A Exempt
No visible Uranium

3-27-00

ENTERED 4-7-00

Date Printed: Monday, February 21, 2000

11007

DOE LLW RFD

Request For Disposal

Document ID Number 110008

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
Terri Ross	31871	5325	C743T1	

W6. Generator's Company	W7. Corp Owner	W8. Origin Site	W9. Origin Facility	W10. Origin Area	W11. Rad Area?
Weskem	DOE	PGDP	C-331	C-331-10	☒ Yes ☐ No

W12. Number of Items	W13. Process Category (GCC)	W14. Process Activity Code	W15. AWA Number	W16. Physical Form
2	LEG	A93	N/A	Solid

W17. Material Type(s)	W18. Holding Site	W19. Holding Facility	W20. Holding Area	W21 RFD Attachment
MT007	PGDP	C-331	C-331-10	☒ 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 / Contents

W32. exhaust fan impellers 200lbs
C-331-10-016
C-331-10-017

This is to certify that the above named material is properly described and in the sbted 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
	Terri Ross	6/12/01

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 & perform inventory

Reference FWR

Origin Date

PCB Start Date

RCRA Start Date

P7. Waste Coordinator (Issued By)	Badge	Date	P8. Disposal/Storage Completed By	Badge	Date
Terri Ross	31871	7/24/01	Jason Ray Allcock	704291	7/25/01

P9. Field Supervisor	Badge	Date	P10. Data Processing Completed By	Badge	Date
DA Wade	113557	7/25/01	Jessie Gibson	703232	7/26/01

P11. Waste Item Information

Waste Item No. 110008-01
Container No. (Barcode) DMSA0100008
Weight 200 lbs
Location and Grid C-331-10 Zone 1
Container Size

P12. Operator Comments

Low Level Waste remains in DMSA until DOE approval for LLW remediation.

BJCF-515a (03/01)

DMSA

WITS Completed

received 6-15-01

LOW-LEVEL RADIOACTIVE WASTE

ATTACHMENT A

DOCUMENT ID NUMBER 110008-01

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. 0210	

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	OF	DOCUMENT ID NUMBER
		110008

11. WASTE ITEM ID NO.	12. ORIGIN DATE	13. RCRA ACCUMULATION START DATE	14. PCB DATE TO STORAGE
110008-01	6-12-01	N/A	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.)
exhaust fan impellers	1	JR	6/12/01	C-331-10-016
exhaust fan impellers	1	JR	6/12/01	C-331-10-017
				Banded together as one

19. CONTAINER ID NO. (Barcode)	110. ABSORBENT MATERIALS? ☐ YES ☐ NO	QUANTITY	TYPE	111. NMC&A FORM	112. EST. NET VOLUME	113. UNITS
DMS A010000a					8	FT3

114. GROSS WEIGHT	115. UNITS	116. INNER CONTAINER TYPE	117. OUTER CONTAINER TYPE	118. TANK SEAL NUMBER
200 lbs				

Shirl Ross

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 #: 110008 Description: 2 EA EXHAUST FAN IMPELLERS Independent Confirmations: Individual #1: [illegible] Date: 6-12-01 Individual #2: [illegible] Date: 6/12-01 Other Information: Bldg./Col.: C-331 Col Z-1 DMSA #: C-33-10 Origin:	Historical Documentation: Process Knowledge: Visual Inspections Completed: ____ External Surfaces Inspection ____ Internal Surfaces Inspection Completed By: Date:	Sample A: ___ % ^{235}U ___ 1 sigma ___ 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 ___ Unmoderated 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: 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: R. Atkinson Date: 6-12-01 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: N/A Date:

Comments: NCS EXEMPT BY PREVIOUS CHARACTERIZATION (DMSA 331-10-016) (DMSA 331-10-017) SHEETS FOR DETAILED - SPECIFIC 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

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: _____

information to match.

Independent Person #2: _____
Date: _____

110008

MAR 27 2000

DMSA - Chara ation Form

Item Number: DMSA-331-10-016 Building: 331 DMSA #: 331-10

Item Description: Exhaust fan Impeller

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: 3-16-00

RCRA or TSCA Issues Identified

Comments: N/A

Item relocated N/A

New Location: Building:

DMSA #:

NMC&A Exempt
No visible Uranium

[illegible] 3-27-00

ENTERED 3-28-00

Date Printed: Monday, February 21, 2000

DMSA - Charac .ation Form

MAR 27 2000

Item Number: DMSA-331-10-017 Building: 331 DMSA #: 331-10

Item Description: Exhaust Fan Impeller

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:

d: 0

Pound. U: 0

U-235 (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 #: 66250

Date: 3-16-00

RCRA or TSCA Issues Identified N/A

Comments:

Item relocated A/#A

New Location: Building:

DMSA #:

NMC&A Exempt
No visible Uranium

cyl 3-27-00

ENTERED 3-28-00

Date Printed: Monday, February 21, 2000

116008

DOE

Request For Disposal

LLW

RFD

Document ID Number **110009**

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
Terri Ross	31871	5325	C-743T1	

W6. Generator's Company	W7. Corp Owner	W8. Origin Site	W9. Origin Facility	W10. Origin Area	W11. Rad Area?
Weskem	DOE	PGDP	C-331	C-331-10	☑ 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
MT013	PGDP	C-331	C-331-10	☑ 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. wooden pallets 325 lbs

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
	Terri Ross	6-12-01

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 & perform inventory

Reference FWR

Origin Date

PCB Start Date

RCRA Start Date

P7. Waste Coordinator (Issued By)	Badge	Date	P8. Disposal/Storage Completed By	Badge	Date
Terri Ross	31871	7/24/01	Sam Ray Allcock	704291	7/25/01

P9. Field Supervisor	Badge	Date	P10. Data Processing Completed By	Badge	Date
D a Wade	11357	7/25/01	Jessie Bussom	703232	7/26/01

P11. Waste Item Information

Waste Item No. 110009

Container No. (Barcode) DMSA0100009

Weight 325 lbs

Location and Grid C-331-10, ZONE 1

Container Size

P12. Operator Comments

Low Level Waste remains in DMSA until DOE approval for LLW remediation.

BJCF-515a (03/01)

DMSA

WITS Completed

received 6-15-01

LOW-LEVEL RADIOACTIVE WASTE

ATTACHMENT A

DOCUMENT ID NUMBER. 110009-01

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
01. ANALYSIS SAMPLE ID NO.	
02. PROCESS KNOWLEDGE FORM NO. 0210	

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

WASTE ITEM CONTAINER LOG

10. ITEM/CONTAINER	OF	DOCUMENT ID NUMBER 110009

11. WASTE ITEM ID NO.	12. ORIGIN DATE	13. RCRA ACCUMULATION START DATE	14. PCB DATE TO STORAGE
110009-01	6-12-01	N/A	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.)
wooden pallets	1	JR	6/12/01	group of wood pallets secured together with plastic to make one unit

19. CONTAINER ID NO. (Barcode)	110. ABSORBENT MATERIALS? QUANTITY TYPE	111. NMC&A FORM	112. EST. NET VOLUME	113. UNITS
DMSA 010009	☐ YES ☒ NO		16	FT3

114. GROSS WEIGHT	115. UNITS	116. INNER CONTAINER TYPE	117. OUTER CONTAINER TYPE	118. TANK SEAL NUMBER
325 lbs				

119. CONTAINER GENERATOR SIGNATURE	DATE
Jerri Ross	6-12-01

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 Miss Limits	ANALYTICAL CHARACTERIZATION: NDA Radiation Surveys	NCS CLASSIFICATION
RFD #: 110009 Description: WOOD PELLETS Independent Confirmations: Individual #1: [illegible] Date: 6-12-01 Individual #2: Joyce Ross Date: 6-12-01 ▪▪▪▪▪▪▪▪▪▪▪ Other Information: Bldg./Col.: C331-Z1 DMSA #: C331-10 Origin:	Historical Documentation: No Process Knowledge: NOT PROCESS GAS 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: X NCS-Exempt ___ Spacing-Controlled ___ Singularly-Contingent DMSA Inspector: [illegible] Date: 6-12-01 NDA Expert: N.A. (if NDA is performed) Date: Independent Verifications: Person #1: [illegible] Date: 6-13-01 Person #2: [illegible] Date: 6-13-01 ▪▪▪▪▪▪▪▪▪▪▪ 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:

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:

DOE

LLW

RFD

Document ID Number 110011

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
Terri Ross	31871	5325	C743T1	

W6. Generator's Company	W7. Corp Owner	W8. Origin Site	W9. Origin Facility	W10. Origin Area	W11. Rad Area?
Weskem	DOE	PGDP	C-331	C-331-10	☒ 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-331	C-331-10	☒ 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. wood pallets wrapped in plastic as one unit 325 lbs

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
	Terri Ross	6/13/01

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 + perform inventory.

Reference FWR

Origin Date

PCB Start Date

RCRA Start Date

P7. Waste Coordinator (Issued By)	Badge	Date	P8. Disposal/Storage Completed By	Badge	Date
Terri Ross	31871	7/24/01	Jason Ray Allisak	704291	7/25/01

P9. Field Supervisor	Badge	Date	P10. Data Processing Completed By	Badge	Date
D A Wade	11357	7/25/01	Jessie Hudson	703232	7/26/01

P11. Waste Item Information

Waste Item No. 110011-01

Container No. (Barcode) DMSA01000011

Weight 325 lbs

Location and Grid C-331-10 zone 1

Container Size

P12. Operator Comments

Low Level Waste remains in DMSA until DOE approval for LLW remediation.

BJCF-515a (03/01)

DMSA

WITS Completed

received 6-15-01

LOW-LEVEL RADIOACTIVE WASTE

ATTACHMENT A

DOCUMENT ID NUMBER 110011-01

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 CONC.	A14. WASTEWATER
☐ YES ☒ NO	☐ YES ☒ NO	And 5 <50 pp ☐ 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
01. ANALYSIS SAMPLE ID NO.	
02. PROCESS KNOWLEDGE FORM NO. 0210	

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 MREM/HR	R13. DOSE RATE MREM/HR @ METERS (B/G)
R14. HP SIGNATURE	R15. SURVEY NUMBER

WASTE ITEM CONTAINER LOG

DOCUMENT ID NUMBER
110011

11. WASTE ITEM ID NO.	12. ORIGIN DATE	13. RCRA A CUMULATION START DATE	14. PCB DATE TO STORAGE
110011-01	6-13-01	N	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.)
Wood pallets	1	JR	6/13/01	wood pallets wrapped in plastic as one unit

19. CONTAINER ID NO. (Barcode)	110. ABSORBENT MATERIALS? QUANTITY TYPE	111. NMC&A FORM	112. EST. NET VOLUME	113. UNITS
DMSA0100011	☐ YES ☒ NO		16	FT3

114. GROSS WEIGHT	115. UNITS	116. INNER CONTAINER TYPE	117. OUTER CONTAINER TYPE	118. TANK SEAL NUMBER
325 lbs				

119. CONTAINER GENERATOR SIGNATURE

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

RFD #: 110011

Description: D

Independent Confirmations:
Individual #1: [illegible]
Date: 6/13/01
Individual #2: Terri Ross

Other Information:
Bldg./Col.: C 221 - Z1
DMSA #: C331-10
Origin: N.A.

INITIAL CHARACTERIZATION

Historical Documentation: N.A.

Process Knowledge: NOT PROCESS EQUIPMENT

Visual Inspections Completed:
___ External Surfaces Inspection
___ Internal Surfaces Inspection
N.A.
Date:

ANALYTICAL CHARACTERIZATION

^{235}U Assay Analysis	^{235}U Mass	Subcritical	NDA Radiation
Sample A:	Sample A:	___ kg ^{235}U	Sample A:
___ % ^{235}U	___ g ^{235}U	___ Moderated Limits	Date & Time Performed: ___/___/___ ___am ___pm
___ 1 sigma (% ^{235}U)		___ Hydrated Limits	Date & Time Results Rec'd: ___/___/___ ___am ___pm
___ 2 sigma (% ^{235}U)			Assumed Assay: ___ % ^{235}U
___ Total (^{235}U + 2 sigma)	Sample B:		Mass: ___ g ^{235}U
Sample B:	___ g ^{235}U		Submitted By: ___
			Date: ___
___ % ^{235}U			Sample B:
___ 1 sigma (% ^{235}U)			Date & Time Performed: ___/___/___ ___am ___pm
___ 2 sigma (% ^{235}U)			Date & Time Results Rec'd: ___/___/___ ___am ___pm
___ Total 2 sigma)		N.A	Assumed Assay: ___ % ^{235}U
			Mass: ___ g ^{235}U
			Submitted By: ___
			Date: ___

NCS CLASSIFICATION

Initial Classification:
Initial Classification:
X NCS-Exempt
___ Spacing-Controlled
___ Singularly-Contingent
DMSA Inspector: [illegible]
Date: 6-13-01
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:

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: ___

DOE

LLW

RFD

Request For Disposal

Document ID Number
110012

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
Kevin Jones	702542	441-5287	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-331	C-331-10	☑ Yes ☐ No

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

W17. Material Type(s)	W18. Holding Site	W19. Holding Facility	W20. Holding Area	W21 RFD Attachment
MT007	PGDP	C-331	C-331-10	☐ 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. AC Pump Casing, Backplate, & Discharge Elbow. 2000 lbs. +3 pallets
DMSA-C331-10-008
DMSA-C331-10-036
DMSA-C331-10-027

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
	Kevin Jones	6-13-01

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 & perform inventory

Reference FWR
Origin Date
PCB Start Date
RCRA Start Date

P7. Waste Coordinator (Issued By)	Badge	Date	P8. Disposal/Storage Completed By	Badge	Date
Jerri Ross	31871	7/24/01	Jan Ray Allmk	704291	7/25/01
P9. Field Supervisor	**Badge**	**Date**	**P10. Data Processing Completed By**	**Badge**	**Date**
D A Wade	11357	7/25/01	Jessie Gleason	703232	7/26/01

P11. Waste Item Information
Waste Item No. 110012-01
Container No. (Barcode) DMSA01000012
Weight 2120. lbs
Location and Grid C-331-10 zone 1
Container Size

P12. Operator Comments
Low Level Waste remains in DMSA until DOE approval for LLW remediation.

BJCF-515a (03/01)

DMSA

WITS Completed

received
6-15-01

LOW-LEVEL RADIOACTIVE WASTE

ATTACHMENT A

DOCUMENT ID NUMBER 110012-01

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
01. ANALYSIS SAMPLE ID NO.	
02. PROCESS KNOWLEDGE FORM NO. 0210	

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	DOCUMENT ID NUMBER 110012

11. WASTE ITEM ID NO.	12. ORIGIN DATE	13. RCRA ACCUMULATION START DATE	14. PCB DATE TO STORAGE
110012-01	6-13-01	N/A	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.)
AC Pump Casing, Backplate & Discharge Elbow		KJ	6-13-01	DMSA-G331-10-008
AC Pump Casing, Backplate, Discharge Elbow		KJ	6-13-01	DMSA-G331-10-036
AC Pump Casing		KJ	6-13-01	DMSA-G33A-10-027

19. CONTAINER ID NO. (Barcode)	110. ABSORBENT MATERIALS? QUANTITY TYPE	111. NMC&A FORM	112. EST. NET VOLUME	113. UNITS
DMSA010001a	☐ YES ☑ NO		45	FT3

114. GROSS WEIGHT	115. UNITS	116. INNER CONTAINER TYPE	117. OUTER CONTAINER TYPE	118. TANK SEAL NUMBER
2120. lbs				

119. CONTAINER GENERATOR SIGNATURE	DATE
[signature]	6-13-01

UCN-20700 PAGE 2

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

ITEM	INITIAL CHARACTERIZATION	ANALYTICAL CHARACTERIZATION: ^{235}U Assay Analysis	Mass Analysis	Subcritical Mass Limits	NDA Radiation Surveys	NCS CLASSIFICATION
RFD #: 110012 Description: A.C PUMP CASING, BACK PLATE, DISCHARGE ELBOW (3) Independent Confirmations: Individual #1: [illegible] Date: 6/13/01 Individual #2: Terri Ross Date: 6/13/01 Other Information: Bldg./Col.: C331-Z1 DMSA #: C331-10 Origin: NIA	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	___ 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: 6-13-01 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: NCS EXEMPT BY PREVIOUS CHARACTERIZATION (DMSA C331-10-08, 027, 036)

REFER TO ATTACHED SHEETS FOR DETAILED SPECIFIC 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)

110012

DMSA - Charac[illegible]ation Form

MAY 0-9-2000

Item Number: DMSA-331-10-008 Building: 331 DMSA #: 331-10

Item Description: AC Pump Casing, Backplate and Discharge Elbow

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

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 #: 31373

Date: 5-9-00

RCRA or TSCA Issues Identified

NA

Item relocated NA

New Location: Building:

DMSA #:

Comments:

ENTERED 5-10-00

Date Printed: Monday, February 21, 2000

DMSA - Char: ization Form

Item Number: DMSA-331-10-027 Building: 331 DMSA #: 331-10

Item Description: AC Pump Casing

MAY 0 9 2000

Origin: GDP Owner Status: DOE Capital Equipment ID: NA

Analytical Data

Initial Characterization	Assay	Mass	NCS Classification
Operating History S o SCS 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 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: 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: [signature] Badge #: 31373 Date: 5-9-00
Visual Inspection ☒ Independent Verification Form (verifying visual inspection detected no visible uranium contamination) is completed and attached.			

RCRA or TSCA Issues Identified

Comments:

NA

☐ Item relocated NA

New Location: Building:

DMSA #:

ENTERED 5-16-00

Date Printed: Monday, February 21, 2000

DMSA - Charac zation Form

Item Mumber: DMSA-331-10-036 Building: 331 DMSA #: 331-10

JUN 14 2000

Item Description: Compressible Back Plate

Origin: New R&D Owner Status: 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 hss never been esposed 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 #: 60999

Date: 6-7-00

RCRA or TSCA Issues Identified

Comments: NA

Item relocated NA

New Location: Building:

DMSA #:

ENTERED 1-11-00

Date Printed: Monday, February 21, 2000

DMSA - Chara ation Form

Item Number: DMSA-331-10-029 Building: 331 DMSA #: 331-10

Item Description: AC Pump Casing

Origin: CP Owner Status: DOE Capital Equipment ID: n/a

JUN 21 2000

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

Mass

☐ NDA Requested

☐ NDA Complete

VOID

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

UI-I

PEH

Characterization Completed By:

Name:

Badge #:

Date:

RCRA or TSCA Issues Identified

Comments:

See 331-10-036

Item relocated

New Location: Building:

DMSA #:

ENTERED 6-22-00

DOE
Request For Disposal

LLW

RFD

Document ID Number: 110013

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
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-331	C-331-10	☑ 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-331	C-331-10	☒ 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. Fork Lift Fix Base
C-331-10-005

110 lbs

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
	Kevin Jones	6-13-01

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 & perform inventory

Reference FWR	
Origin Date	
PCB Start Date	
RCRA Start Date	

P7. Waste Coordinator (Issued By)	Badge	Date	P8. Disposal/Storage Completed By	Badge	Date
Jerri Ross	31821	7/24/01	Jason Ray Allcock	704291	7/25/01
P9. Field Supervisor	**Badge**	**Date**	**P10. Data Processing Completed By**	**Badge**	**Date**
D A Wade	11357	7/25/01	Jerrie Gibson	703232	7/26/01

P11. Waste Item Information

Waste Item No. 110013-01
Container No. (Barcode) DMSA0100013
Weight 110 lbs
Location and Grid C-331-10 zone 1
Container Size

P12. Operator Comments

Low Level Waste remains in DMSA until DOE approval for LLW remediation.

BJCF-515a (03/01)

DMSA

WITS Completed

received 6-15-01

LOW-LEVEL RADIOACTIVE WASTE

ATTACHMENT A

DOCUMENT ID NUMBER 110013

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.	

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. 0210	

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 DOSU 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	OF	DOCUMENT ID NUMBER
1	1	110013

11. WASTE ITEM ID NO.	12. ORIGIN DATE	13. RCRA ACCUMULATION START DATE	14. PCB DATE TO STORAGE
110013-01	6/12/01	N/A	N/A

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	
forklift fix base	1	JR	6/12/01	C-331-10-005

DMSA 010013	☐ YES ☒ NO			6	FT3
114. GROSS WEIGHT	115. UNITS	116. INNER CONTAINER TYPE	117. OUTER CONTAINER TYPE		118. TANK SEAL NUMBER
110 lbs					

119. CONTAINER GENERATOR SIGNATURE: Glenn Ross 6/12/01

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 #: 110013 Description: FORK LIFT FIXTURE Independent Confirmations: Individual #1: [illegible] Date: 6-14-01 Individual #2: [illegible] • • • • • • • • • • • Other Information: Bldg./Col.: C331 - Y-1 DMSA #: C331-10 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 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: X NCS-Exempt ___ Spacing-Controlled ___ Singularly-Contingent DMSA Inspector: [illegible] Date: 6-13-01 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: NCS EXEMPT BY PREVIOUS CHARACTERIZATION (DMSA C331-10-005)

REFER TO ATTACHED SHEETS FOR DETAILED SPECIFIC 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)

DMSA - Characterization Form

Item Number: DMSA-331-10-005 Building: 331 DMSA #: 331-10

Item Description: Fork lift truck

Origin: PGDP Owner Status: DOE Capital Equipment ID:

MAR 27 2000

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: Cunnelle

Badge #: 662505

Date: 5-16-00

RCRA or TSCA Issues Identified

Comments:

NA

Item relocated NA

New Location: Building:

DMSA #:

NMC&A Exempt
No visible Uranium

3-27-00

COPY

ENTERED 3-28-00

Date Printed: Monday, February 21, 2000

110013

DOE
Request For Disposal

LLW

RFD

Document ID Number
110014

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
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-331	C-331-10	☑ 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-331-10	C-331-10	☒ 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. AC Pump Casing, Backplate Assembly. 1000 lbs
C-331-10-009

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
	Kevin Jones	6-13-01

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 & perform inventory

Reference FWR
Origin Date
PCB Start Date
RCRA Start Date

P7. Waste Coordinator (Issued By)	Badge	Date	P8. Disposal/Storage Completed By	Badge	Date
Gerri Rios	31871	7/24/01	Jason Ray Allcock	704291	7/25/01
P9. Field Supervisor	**Badge**	**Date**	**P10. Data Processing Completed By**	**Badge**	**Date**
D A Wade	11357	7/25/01	Jessie Pherson	703232	7/26/01

P11. Waste Item Information
Waste Item No. 110014-01
Container No. (Barcode) DMSA0100014
Weight 1000 lbs
Location and Grid C-331-10, zone 1
Container Size

P12. Operator Comments
Low Level Waste remains in DMSA until DOE approval for LLW remediation.

BJCF-515a (03/01)

DMSA

received
JS 6-20-01

LOW-LEVEL RADIOACTIVE WASTE

ATTACHMENT A

DOCUMENT ID NUMBER

110014

PROHIBITED ITEMS

A1. PYROPHORIC MATERIALS -OTHER THAN RADIOACTIVE FORMS OF ISOTOPES	A2. ACTIVE CHELATING AGENTS	A3. TRU nCi/g	A4.
☐ 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
01. ANALYSIS SAMPLE ID NO.	
02. PROCESS KNOWLEDGE FORM NO. 0210	

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 DOSUPACKAGECONTACT MREM/HR	R13. DOSE RATE MREM/HR @ METERS (B/G)
R14. HP SIGNATURE	R15. SURVEY NUMBER

WASTE ITEM CONTAINER LOG

10. ITEM/CONTAINER	OF	DOCUMENT ID NUMBER 110014

11. WASTE ITEM ID NO.	12. ORIGIN DATE	13. RCRA ACCUMULATION START DATE	14. PCB DATE TO STORAGE
110014	6-13-01	N/A	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.)
ac pump casing, back plate assembly	1	JR	6/13/01	C-331-10-009

19. CONTAINER ID NO. (Barcode)	110. ABSORBENT MATERIALS? QUANTITY TYPE	111. NMC&A FORM	112. EST. NET VOLUME	113. UNITS
DMSA01DD014	☐ YES ☒ NO		8	FT3

114. GROSS WEIGHT	115. UNITS	116. INNER CONTAINER TYPE	117. OUTER CONTAINER TYPE	118. TANK SEAL NUMBER
1000 lbs				

119. CONTAINER GENERATOR SIGNATURE	DATE
Dave Ross	6/13/01

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 #: 110014 Description: AC PUMP CASING, BACK PLATE ASSEMBLY Independent Confirmations: Individual #1: D A Wade Date: 6/13/01 Individual #2: Tom Rao Other Information: Bldg./Col.: C331 Z-1 DMSA #: C 331-10 Origin:	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: ___ ^{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 Assume 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: 6.13.01 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: N/A Date:

Comments: NCS EXEMPT BY PREVIOUS CHARACTERIZATION (DMSA 331-10-009)
REFER TO ATTACHED SHEETS FOR DETAILED - SPECIFIC 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 - Charac[illegible]ization Form

Item [illegible]ber: DMSA-331-10-009 Building: 331 DMSA #: 331-10

MAY 0 9 2000

Item Description: A C Pump Casing, back plate assy

Origin: [illegible] & GDP Owner Status: DCC Capital Equipment ID:

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: 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 #: 31373

Date: 5-9-00

RCRA or TSCA Issues Identified

NA

Comments:

☐ Item relocated OK

New Location: Building:

DMSA #:

COPY

ENTERED 5-10-00

Date Printed: Monday, February 21, 2000

DOE LLW RFD

Request For Disposal

Document ID Number 110015

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
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-331	C-331-10	☒ 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-331	C-331-10	☒ 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. AC Compressor Housing + "blank" (piece of galvanized metal) also tagged as C-331-10-037, packaged as one unit 500lbs

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
	Kevin Jones	6-13-01

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 + perform inventory

Reference FWR

Origin Date

PCB Start Date

RCRA Start Date

P7. Waste Coordinator (Issued By)	Badge	Date	P8. Disposal/Storage Completed By	Badge	Date
Jerri Kors	31871	7/24/01	Joan Ray Allcock	704291	7/25/01

P9. Field Supervisor	Badge	Date	P10. Data Processing Completed By	Badge	Date
D A Wade	11357	7/25/01	Jessie Blisson	703232	7/26/01

P11. Waste Item Information

Waste Item No. 110015-01

Container No. (Barcode) DMSA0100015

Weight 500lbs

Location and Grid C-331-10, zone 1

Container Size

P12. Operator Comments

Low Level Waste remains in DMSA until DOE approval for LLW remediation.

BJCF-515a (03/01)

DMSA

received 6-20-01

LOW-LEVEL RADIOACTIVE WASTE

ATTACHMENT A

DOCUMENT ID NUMBER 110015

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	D Y E S ☒ 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.	
O2. PROCESS KNOWLEDGE FORM NO. 0210	

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

WASTE ITEM CONTAINER LOG

10. ITEM/CONTAINER	OF	DOCUMENT ID NUMBER
1	1	110015

11. WASTE ITEM ID NO.	12. ORIGIN DATE	13. RCRA ACCUMULATION START DATE	14. PCB DATE TO STORAGE
110015	4/12/01	N/A	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.)
AC Compressor housing	1	JR	6/13/01	C-331-10-037
				there is also a "blank" (piece of galvanized metal) tagged as C-331-10-037 included as unit of 1 (one)

19. CONTAINER ID NO. (Barcode)	110. ABSORBENT MATERIALS?	QUANTITY	TYPE	111. NMC&A FORM	112. EST. NET VOLUME	113. UNITS
DMSA0100015	☐ YES ☒ NO				4	FT3

114. GROSS WEIGHT	115. UNITS	116. INNER CONTAINER TYPE	117. OUTER CONTAINER TYPE	118. TANK SEAL NUMBER
509 lbs				

119. CONTAINER GENERATOR SIGNATURE	DATE
[signature]	6-13-01

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	
Descripnon: AC COMPRESSOR HOUSING Independent Confirmations: Individual #1: [illegible] Date: 6/13/01 Individual #2: Terri Ross Date: 6/13/01 Other Information: Bldg./Col.: C331 Z1 DMSA #: C331-10 Origin:	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:	____ Moderated Limits ____ Hydrated Limits NA	Sample A: Date & Time Performed: __/__/__ __am __pm Date & Time Results Rec'd: __/__/__ __am __pm Assume 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: 6-13-01 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: NA

Comments: NCS EXEMPT BY PREVIOUS CHARACTERIZATION (DMSA # C331-10-037)
REFER TO ATTACHED SHEETS FOR DETAILED SPECIFIC 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: NA	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:

DMSA - Charac ation Form

Item Number: DMSA-331-10-037 Building: 331 DMSA #: 331-10

Item Description: AC Compressor Housing

Origin: Part of GDP Owner Status: DOE Capital Equipment ID: N/A

JUN 14 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 independen: 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

Indep dent Verificatio of Assay form co pleted and a ached.

Assay v 235: 0

N/A

Mass

☐ NDA Requested

☒ NDA Complete

Sample A:

Assay Used: 0

Pounds\ 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: 6-7-00

RCRA or TSCA Issues Identified

Comments: NK

☐ Item relocated NK

New Location: Building:

DMSA #:

331-10-037 to 003

ENTERED 6-14-00

Date Printed: Monday, February 21, 20

DOE

LLW

RFD

Request For Disposal

Document ID Number 110016

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
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-331	C-331-10	☑ 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-331	C-331-10	☒ 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. AC Pump Casing C-331-10-020 840 lbs

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]	6-13-01

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	___ WSEC
___ FLAMMABLE	___ COMBUSTIBLE	___ OXIDIZER	___ BASE	___ WESKEM
___ ASBESTOS	___ REACTIVE	___ TRANSURANIC	___ NON-HAZ	

P6. Additional Handling Instructions

Verify labeling & perform inventory

Reference FWR	
Origin Date	
PCB Start Date	
RCRA Start Date	

P7. Waste Coordinator (Issued By)	Badge	Date	P8. Disposal/Storage Completed By	Badge	Date
Terri Ross	31871	7/24/01	Jason Ray Allmark	704291	7/25/01

P9. Field Supervisor	Badge	Date	P10. Data Processing Completed By	Badge	Date
D A Wade	11357	7/25/01	Jenie Gleason	703232	7/26/01

P11. Waste Item Information

Waste Item No. 110016-01

Container No. (Barcode) DMSA0100016

Weight 840 lbs

Location and Grid C-331-10, zone 1

Container Size

P12. Operator Comments

Low Level Waste remains in DMSA until DOE approval for LLW remediation.

BJCF-515a (03/01)

DMSA

received 6-20-01

LOW-LEVEL RADIOACTIVE WASTE

ATTACHMENT A

DOCUMENT ID NUMBER 110016

PROHIBITED ITEMS

A1. PYROPHORIC MATERIALS -OTHER THAN RADIOACTIVE FORMS OF ISOTOPES	A2. ACTIVE CHELATING AGENTS	A3. TRU RADIOISOTOPES >100 nCi/g	A4.)SIVE 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 pprn) 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 EXEMP'	R5. CHEMICAL FORM
		☒ YES ☐ NO	

OTHER SAMPLE ANALYSIS

DOCUMENT TYPE	DOCUMENT NUMBER
O1. ANALYSIS SAMPLE ID NO.	
02. PROCESS KNOWLEDGE FORM NO. 0210	

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 I	DOCUMENT ID NUMBER 110016

11. WASTE ITEM ID NO.	12. ORIGIN DATE		
110016	6/13/01	N/A	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.)
AC pump casing	1	JR	6/13/01	C-331-10-020

19. CONTAINER ID NO. (Barcode)	110. ABSORBENT MATERIALS?	QUANTITY	TYPE	111. NMC&A FORM	112. EST. NETVOLUME	113. UNITS
DMSA0100016	☐ YES ☒ NO				8	FT3

114. GROSS WEIGHT	115. UNITS	116. INNER CONTAINER TYPE	117. OUTER CONTAINER TYPE	118. TANK SEAL NUMBER
840 lbs				

119. CONTAINER GENERATOR SIGNATURE: Glen Ross

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 #: 110014 Description: A.C. PUMP CASING Independent Confirmations: Individual #1: [illegible] Date: 6/13/01 Individual #2: Jesus Rosa Date: 6/13/01 Other Information: Bldg./Col.: C-331 Z-1 DMSA #: C-331-10 Origin:	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 ___ 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: ___ ^{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: 6-13-01 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: N.A Date:

Comments: NCS EXEMPT BY PREVIOUS CHARACTERIZATION (DMSA C331-10-20)

REFER TO ATTACHED SHEETS FOR DETAILED SPECIFIC 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)

DMSA - Charac[illegible]tion Form

Item Number: DMSA-331-10-020 Building: 331 DMSA #: 331-10

Item Description: AC Pump Casing

MAY 09 2000

Origin: [illegible] & GDP Owner Status: 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

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: [signature]

Badge #: 31373

Date: 5-9-00

RCRA or TSCA Issues Identified N/A

Comments:

☐ Item relocated N/A

New Location: Building:

DMSA #:

ENTERED 5-14-00

COPY

DOE
Request For Disposal

LLW

Document ID Number
110017

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
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-331	C-331-10	☑ Yes ☐ No

W12. Number of Items	W13. Process Category (GCC)	W14. Process Activity Code	W15. AWA Number	W16. Physical Form
1	LEG	A43	N/A	Solid

W17. Material Type(s)	W18. Holding Site	W19. Holding Facility	W20. Holding Area	W21 RFD Attachment
MT007	PGDP	C-331	C-331-10	☒ 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. AC Pump Casing 1000 lbs
C-331-10-018

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]	6-13-01

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 + perform inventory

Reference FWR
Origin Date
PCB Start Date
RCRA Start Date

P7. Waste Coordinator (Issued By)	Badge	Date	P8. Disposal/Storage Completed By	Badge	Date
Glen Ross	31871	7/24/01	Jason Ray Allcock	704291	7/25/01

P9. Field Supervisor	Badge	Date	P10. Data Processing Completed By	Badge	Date
D A Wade	11357	7/25/01	Jerrie Hussom	703232	7/26/01

P11. Waste Item Information
Waste Item No. 110017-01
Container No. (Barcode) DMSA0100017
Weight 1000 lbs
Location and Grid C-331-10, zone 1
Container Size

P12. Operator Comments
Low Level Waste remains in DMSA until DOE approval for LLW remediation.

BJCF-515a (03/01)

DMSA

received
6-20-01

LOW-LEVEL RADIOACTIVE WASTE

ATTACHMENT A

DOCUMENT ID NUMBER 110017

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
01. ANALYSIS SAMPLE ID NO.	
02. PROCESS KNOWLEDGE FORM NO. 0210	

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

WASTE ITEM CONTAINER LOG

I0. ITEM/CONTAINER	1 OF 1	DOCUMENT ID NUMBER 110017

11. WASTE ITEM ID NO.	12. ORIGIN DATE	13. RCRA ACCUMULATION START DATE	14. PCB DATE TO STORAGE
110	6/13/01	N/A	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.)
AC pump casing	1	JR	6/13/01	C-331-10-018

19. CONTAINER ID NO. (Barcode)	110. ABSORBENT MATERIALS? ☐ YES ☑ NO	QUANTITY	TYPE	111. NMC&A FORM	112. EST. NET VOLUME	113. UNITS
DMSA0100017					8	FT³
1000 lbs						

119. CONTAINER GENERATOR SIGNATURE	DATE
Jeni Ross	6/13/01

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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 #: 110017 Description: A.C PUMP CASING Independent Confirmations: Individual #1: [illegible] Date: 6/13/01 Individual #2: Jesse Ross Date: 6/13/01 • • • • • • • • • • • Other Information: Bldg./Col.: C331 - Z1 DMSA #: C331-10 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: 6-13-01 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: NCS EXEMPT By PREVIOUS CHARACTERIZATION (DMSA C331-10-018)

REFER TO ATTACHED SHEETS FOR DETAILED SPECIFIC 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)

DMSA - Charac .zation Form

Item Number: DMSA-331-10-018 Building: 331 DMSA #: 331-10

Item Description: AC Pump Casing

Origin: CDP Owner Status: DOE Capital Equipment ID:

MAY-0-9 2000

Analytical Data

Initial Characterization

Operating History

No NCS Concerns (Sot Process Equipment)

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

Visual Inspection

X Indspendent Verification Form (verifying visual inspection detecied 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 attacled.

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

UI-I

PEH

Characterization Completed By:

Name: [signature]

Badge #: 51373

Date: 5-9-00

RCRA or TSCA issues Identified N/A

Item relocated N/A

Comments:

New Location: Building:

DMSA #:

ENTERED 5-16-00

Date Printed: Monday, February 21, 2000

DOE

LLW

RFD

Document ID Number
110018

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
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-331	C-331-10	☑ 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-331	C-331-10	☒ 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. AC Pump Casing
C-331-10-023

875 lbs

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
	Kevin Jones	6-13-01

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 & perform inventory

Reference FWR
Origin Date
PCB Start Date
RCRA Start Date

P7. Waste Coordinator (Issued By)	Badge	Date	P8. Disposal/Storage Completed By	Badge	Date
Orrin Ross	31871	7/24/01	Jason Ray Allen	704291	7/25/01

P9. Field Supervisor	Badge	Date	P10. Data Processing Completed By	Badge	Date
D A Wade	11357	7/25/01	Jessie Gleason	703232	7/26/01

P11. Waste Item Information

Waste Item No. 110018-01
Container No. (Barcode) DMSA010001 8
Weight 875 lbs
Location and Grid C-331-10, zone 1
Container Size

P12. Operator Comments

Low Level waste remains in DMSA until DOE approval for LLW remediation.

BJCF-515a (03/01)

DMSA

received
6-20-01

LOW-LEVEL RADIOACTIVE WASTE

ATTACHMENT A

DOCUMENT ID NUMBER 110018

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 RESIN	A13. PCB (Concen. And Source <50 ppm)	A14.
☐ 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
01. ANALYSIS SAMPLE ID NO.	
02. PROCESS KNOWLEDGE FORM NO. 0210	

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

WASTE ITEM CONTAINER LOG

10. ITEM/CONTAINER	OF	DOCUMENT ID NUMBER 110018

11. WASTE ITEM ID NO	12. ORIGIN DATE	13. RCRA ACCUMULATION START DATE	14. PCB DATE TO STORAGE
110018-01	6-13-01	N/A	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.)
	1	DR	6/13/01	C-331-10-023

19. CONTAINER ID NO. (Barcode)	110. ABSORBENT MATERIALS? QUANTITY TYPE	111. NMC&A FORM	112. EST. NET VOLUME	113. UNITS
DMSA0100018	☐ YES ☒ NO		8	FT3

114. GROSS WEIGHT	115. UNITS	116. INNER CONTAINER TYPE	117. OUTER CONTAINER TYPE	118. TANK SEAL NUMBER
875 lbs				

119. CONTAINER GENERATOR SIGNATURE	DATE
Denis Ross	6-13-01

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	
Description: A.C. PUMP	Historical Documentation:	Sample A:	Sample A:	kg ^{235}U	Sample A:	Initial Classification: ✓ NCS-Exempt; Spacing-Controlled; Singularly-Contingent
		% ^{235}U	g ^{235}U	Moderated Limits	___/___/___ am pm	DMSA Inspector:
		1 sigma (% ^{235}U)		Unmoderated Limits	Date & Time Results Rec'd: ___/___/___ am pm	Date: 6-13-01
		2 sigma (% ^{235}U)			Assumed Assay: % ^{235}U	NDA Expert: (if NDA is performed)
Date:		Total (^{235}U + 2 sigma)	Sample B:		Mass: g ^{235}U	Date:
	Visual Inspections Completed:	Sample B:	g ^{235}U		Submitted By:	Independent Verifications: Person #1:
Other Information:	Internal Surfaces Inspection				Date:	Date:
Bldg./Col.: C331 - Z1					Sample B:	Person #2:
DMSA #: 331-10	Completed By:	1 sigma (% ^{235}U)			Date & Time Performed: ___/___/___ am pm	Reclassification: (if needed) NCS-Exempt; Spacing-Controlled; Singularly-Contingent
Origin:	Date:	2 sigma (% ^{235}U)			Date & Time Results Rec'd: ___/___/___ am pm	DMSA Inspector:
	N.A.	Total (^{235}U + 2 sigma)		N.A.	Assumed Assay: % ^{235}U	Date:
					Mass: g ^{235}U	NDA Expert: (if NDA is performed)
					Submitted By:	Date:
					Date:	Independent Verifications: Person #1:
						Date:
						Person #2:
						Date: N.A.

Comments: NCS EXEMPT BY PREVIOUS CHARACTERIZATION (DMSA C331-10-023)

REFER TO ATTACHED SHEETS FOR DETAILED SPECIFIC 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 description for this NCS-Exempt or Spacing-Controlled Item against the written instructions and find this information to match.
NDA Expert #1: ___ Date: ___	Independent Person #1: ___ Date: ___	Independent Person #1: ___ Date: ___
NDA Expert #2: ___ Date: ___ N.A.	Independent Person #2: ___ Date: ___	Independent Person #2: ___ Date: ___

Rev. 3 (10/2000)

DMSA - Chara zation Form

Item Number: DMSA-331-10[illegible] Building: 331 DMSA #: 331-10[illegible]

Item Description: [illegible]

Origin: [illegible] Owner Status: [illegible] Capital Equipment ID: NA

MAY-0-9 2000

Analytical Data

Initial Characterization

Operating History

No NCS Concerns (Not Process Equipment)

Independent Verification Form (verifying no NCS concerns due to equipment 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

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

X NCS-Exempt

☐ LS

☐ UH

☐ PEH

Characterization Completed By:

Name: [illegible]

Badge #: 31373

Date: 5-9-00

RCRA or TSCA Issues Identified

comments:

☐ Item relocated

New Location: Building:

DMSA #:

COPY

5-16-00

DOE

LLW

RFD

Document ID Number 110019

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
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-331	C-331-10	☑ Yes ☐ No

W12. Number of Items	W13. Process Category (GCC)	W14. Process Activity Code	W15. AWA Number	W16. Physical Form
1	LEG	493	N/A	Solid

W17. Material Type(s)	W18. Holding Site	W19. Holding Facility	W20. Holding Area	W21 RFD Attachment
MT007	PGDP	C-331	C-331-10	☑ 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. Water Valve - see attached log sheet
C-331-10-021
C-331-10-022

800 Lbs

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
	Kevin Jones	6-13-01

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 + perform inventory

Reference FWR

Origin Date

PCB Start Date

RCRA Start Date

P7. Waste Coordinator (Issued By)	Badge	Date	P8. Disposal/Storage Completed By	Badge	Date
Jerri Rose	31871	7/24/01	Jason Ray Allcock	704291	7/25/01

P9. Field Supervisor	Badge	Date	P10. Data Processing Completed By	Badge	Date
W A Wade	11357	7/25/01	Jessie Ellison	703232	7/26/01

P11. Waste Item Information

Waste Item No. 110019-01
Container No. (Barcode) DMSA0100019
Weight 800 lbs
Location and Grid C-331-10, zone 1
Container Size

P12. Operator Comments

Low Level waste remains in DMSA until DOE approval for LLW remediation

BJCF-515a (03/01)

DMSA

WITS Completed

received 6-15-01

LOW-LEVEL RADIOACTIVE WASTE

ATTACHMENT A

DOCUMENT ID NUMBER 110019 - 01

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
01. ANALYSIS SAMPLE ID NO.	
02. PROCESS KNOWLEDGE FORM NO. 0210	

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 MREM/HR @ METERS (B/G)
R14. HP SIGNATURE	R15. SURVEY NUMBER

WASTE ITEM CONTAINER LOG

I0. ITEM/CONTAINER	OF	DOCUMENT ID NUMBER 110019

I1. WASTE ITEM ID NO.	I2. ORIGIN DATE	I3. RCRA ACCUMULATION START DATE	I4. PCB DATE TO STORAGE
110019-01	6-13-01	N/A	N/A

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.)
Water valve	1	JR	6/13/01	C-331-10-021
Water valve	1	JR	6/13/01	C-331-10 022
	1			packaged together as one unit

I9. CONTAINER ID NO. (Barcode)	I10. ABSORBENT MATERIALS? ☐ YES ☒ NO	QUANTITY	TYPE	I11. NMC&A FORM	I12. EST. NET VOLUME	I13. UNITS
DMSA 00019					4	FT3

I14. GROSS WEIGHT	I15. UNITS	I16. INNER CONTAINER TYPE	I17. OUTER CONTAINER TYPE	I18. TANK SEAL NUMBER
800 lbs				

I19. CONTAINER GENERATOR SIGNATURE	DATE
Denis Ross	6/13/01

UCN-20700 PAGE 2

- 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 #: 110019 Description: WATER VALVES 2 EACH Independent Confirmations: Individual #1: [illegible] Date: 6/13/01 Individual #2: Jerri ROSS Date: 6/13/01 • • • • • • • • • • • Other Information: Bldg./Col.: C331 Z1 DMSA #: C331-10 Origin:	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 ___ (% ^{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: 6-13-01 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: NCS EXEMPT BY PREVIOUS CHARACTERIZATION (DMSA C331-10-021, 022

REFER TO ATTACHED SHEETS FOR DETAILED SPECIFIC 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)

DMSA - Characterization Form

MAR 27 2000

Item Number: DMSA-331-10-021 Building: 331 DMSA #: 33

Item Description: Water Valve

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

Characterized By:

Name: [illegible]

Badge #: 662505

Date: 3-16-00

RCRA or TSCA Issues Identified N/A

Comments:

- [ ] Item relocated N/A

New Location: Building:

DMSA #:

COPY

CONFIRMED 3-28-00

NMC&A Exempt
No visible Uranium

[illegible] 3-27-00

Date Printed: Monday, February 21, 2000

110019

DMSA - Charac zation Form

Item Number: DMSA-331-10-036 Building: 331 DMSA #: 331-10

JUN 14 2000

Item Description: Compressor Back Plate

Origin: GDP Owner Status: 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

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: GP Miller

Badge #: 60999

Date: 6-7-00

RCRA or TSCA Issues Identified

Comments: NA

Item relocated NA

New Location: Building:

DMSA #:

COPY

ENTERED 11-14-00

Date Printed: Monday, February 21, 2000

DMSA - Chara. ation Form

Item Number: DMSA-331-10-029 Building: 331 DMSA #: 331-10

Item Description: AC Pump Cooling

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

JUN 21 2000

Analytical Data

Initial Characterization

Operatins! 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 conipleted 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

VOID

NCS Classification

NCS-Exempt

LS

UH

PEH

Characterization Completed By:

Name:

Badge #:

Date:

RCRA or TSCA Issues Identified

Comments:

See 331-10-036

Item relocated

New Location: Building:

DMSA #:

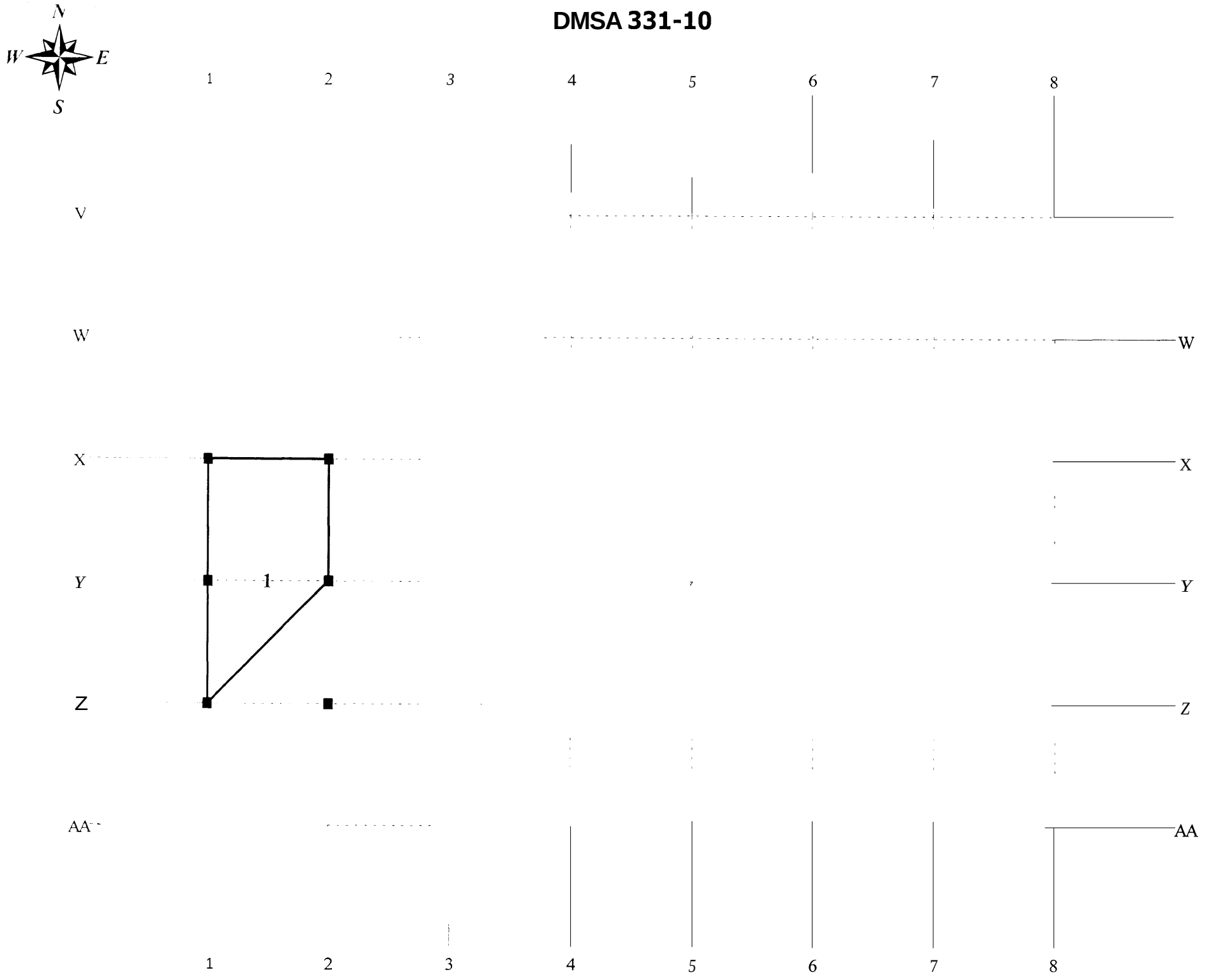
COPY

ENTERED 6-22-00

Date Printed: Monday, February 21, 2000

ZONE MAP

DMSA 331-10



SME INSPECTION

DMSA SUBJECT MATTER EXPERT (SME) INSPECTION

DMSA NO 31

NOTE. Final -based on entry inspection 06/08/01

DATE 6/13/01

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
110005	C-331-10	Fluorescent light starter	1	1		X									X	RCRA by definition	Transferred to C-752-A
110001	C-331-10	A/C pump parts	1	1											X	No RCRA or PCB constituents	
110002	C-331-10	Pump Impellers	1	1											X	No RCRA or PCB constituents	
110003	C-331-10	Carbon pipe fittings	1	1											X	No RCRA or PCB constituents	
110004	C-331-10	Metal process equipment	1	1											X	No RCRA or PCB constituents	
110006	C-331-10	Exhaust fan impellers	1	1											X	No RCRA or PCB constituents	
110007	C-331-10	Exhaust fan impellers	1	1											X	No RCRA or PCB constituents	
110008	C-331-10	Exhaust fan impellers	1	1											X	No RCRA or PCB constituents	
110009	C-331-10	Wooden pallets	1	1											X	No RCRA or PCB constituents	
110011	C-331-10	Wooden pallets	1	1											X	No RCRA or PCB constituents	
110012	C-331-10	Air conditioner parts	1	1											X	No RCRA or PCB constituents	
110013	C-331-10	Fork lift fx base	1	1											X	No RCRA or PCB constituents	
110014	C-331-10	A/C Pump casing backplate	1	1											X	No RCRA or PCB constituents	
110015	C-331-10	A/C Compressor housing	1	1											X	No RCRA or PCB constituents	
110016	C-331-10	A/C pump casing	1	1											X	No RCRA or PCB constituents	
110017	C-331-10	A/C pump casing	1	1											X	No RCRA or PCB constituents	
110018	C-331-10	A/C pump casing	1	1											X	No RCRA or PCB constituents	
110019	C-331-10	Water valves	1	1											X	No RCRA or PCB constituents	

HP SURVEY

Radiologic... Survey Form

Survey No.: 01-ER-746-S Date: 6-11-01 Time: 0830 RWP NO: 01-DOE-31-S

Location of Survey – General (Site/Bldg.)/Specific (Room/Area): C-331 DMSA-10

Purpose of Survey: JOB COVERAGE Material Description: MATERIAL PACKAGING

Technician: TA LOYD Badge: 704869 Technician: Wm. Dancer Badge: 722288

Model #: Ludlum 3	Serial #: 130838	Cal. due date: 8-3-01	Probe Model #: 44-9	CF Pt. 4.88	CF Plane: 31.45
Model #: Ludlum 2221	Serial #: 78147	Cal. due date: 1-16-02	Probe Model #: 43-5	CF Pt 9.04	CF Plane 18.08
Model #: Ludlum 3	Serial #: 106328	Cal. due date: 8-2-01	Probe Model #: 44-9	CF Pt. 5.09	CF Plane: 32.82
Model #: Ludlum 2221	Serial #: 102039	Cal. due date: 3-22-02	Probe Model #: 43-5	CF Pt. 7.14	CF Plane: 14.28
Model #: N/A	Serial #: N/A	Cal. due date: N/A	α CF: N/A	β/γ CF: N/A	
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	AC Bearing Cap 046	4 / 42.13	145	2 / 47.04	7711	45 / 76.21	<Lc	50 / 540.08	4595	
2	AC Bearing Cap 044		<Lc		<Lc		<Lc		<Lc	
3	AC Bearing Cap 047		<Lc		<Lc		<Lc		<Lc	
4	AC Bearing Cap 045		<Lc		<Lc		<Lc		<Lc	
5	AC Bearing Cap 043		<Lc		<Lc		<Lc		<Lc	
6	AC Bearing Cap 042		<Lc		1142		<Lc		586	
7	AC Bearing Cap 039		<Lc		<Lc		<Lc		<Lc	
8	AC Bearing Cap 040		<Lc		<Lc		<Lc		<Lc	
9	12" Slip-on flange		<Lc		<Lc		<Lc		<Lc	
10	12" Slip-on flange	4 / 42.13	<Lc	2 / 47.04	<Lc	45 / 76.21	<Lc	50 / 540.08	<Lc	

N/A

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COMMENTS: SMEARS FIELD READ WITH INSTRUMENTS S/N-130838 & 78147. DIRECT READINGS WITH S/N-106328 & 102039

Released to: N/A

HP Supervisor Review: [signature] / 6/19/01
Signature/ Date

Survey No. 01-ER-746-S

Item No	Sample Location	BKGD Lc	Removable α dpm/100cm²	BKGD Lc	Total α dpm/100cm²	BKGD Lc	Removable β,γ dpm/100cm²	BKGD Lc	Total β,γ dpm/100cm²	Remarks
11	AC Pump Back plate 034	4 / 42.13	63	2 / 47.04	<Lc	45 / 76.21	5822	50 / 540.08	984600	* <0.2mR/hr - 30 cm 3.67 mRad/hr Contact
12	AC Pump Back plate 019		3806		12109		2240		196920	* 1.8 mRad/hr Contact, <0.2mR/hr 30cm
13	AC Compressor Housing 037		<Lc		<Lc		<Lc		<Lc	N/A
14	AC Bearing Cap 041		<Lc		<Lc		<Lc		<Lc	N/A
15	AC Pump Casing and Backplate - 006		579		11795		288		13161	N/A
16	Pump Bearing Part 248		<Lc		<Lc		<Lc		<Lc	N/A
17	AC Pump Backplate 010		<Lc		685		400		1115880	* 0.5 mRad/hr - 30 cm 7.34 mRad/hr - Contact
18	AC Pump Back plate 011		443		1999		23853		2625600	* 0.5 mRad/hr - 30 cm 18.35 mRad/hr - Contact
19	AC Pump Backplate 030		<Lc		257 ~~129~~		639		722040 ~~377760~~	* 5.5 mRad/hr Contact 0.2 mRad/hr - 30 cm
20	AC Pump Backplate 032		108		2985		102480		1969200	* 3.67 mRad/hr Contact, <0.2 mR/hr - 30 cm Item Wrapped with plastic
21	AC Pump Back plate 033		<Lc		1685		517		111588	1.8 mRad/hr Contact, <0.2mRad/hr-30cm
22	Rocker Bearing, AC Pump Bearing Part - 049		<Lc		257		<Lc		<Lc	N/A
23	Vac balance expansion joint - 012	4 / 42.13	118	2 / 47.04	<Lc	45 / 76.21	922	50 / 540.08	72204	N/A

COMMENTS/NOTES: * Bicron RSO-5 S/N-A794C Cal due 8/25/01 LLD - 0.2 mR

Items Placed In ST90 Box # 110001

COPY

Radiologic; Survey Form

Survey No.: DI-ER-747-S Date: 6-11-01 Time: 0830 RWP NO: 01-DOE-31-S

Location of Survey – General (Site/Bldg.)/Specific (Room/Area): C-331 DMSA C331-10

Purpose of Survey: JOB COVERAGE Material Description: See Below

Technician: TA Loyd Badge: 704869 Technician: Wm. Duncan Badge: 722289

Model #: Ludlum 3	Serial #: 103835	Cal. due date: 8-3-01	Probe Model #: 44-9	CF Pt.: 4.88	CF Plane: 31.45
Model #: Ludlum 2221	Serial #: 78147	Cal. due date: 1-16-02	Probe Model #: 43-5	CF Pt.: 9.04	CF Plane: 18.08
Model #: Ludlum 3	Serial #: 106328	Cal. due date: 8-2-01	Probe Model #: 44-9	CF Pt.: 5.09	CF Plane: 32.82
Model #: Ludlum 2221	Serial #: 102039	Cal. due date: 3-22-02	Probe Model #: 43-5	CF Pt.: 7.14	CF Plane: 14.28
Model #: N/A	Serial #: N/A	Cal. due date: N/A	α CF: N/A	β/γ CF: N/A	
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	Box RFD# 110003	4 / 42.13	<Lc	2 / 47.04	<Lc	45 / 76.21	<Lc	50 / 540.08	<Lc	N/A
2	RFD# 110002 IMPELLERS		2938		66902		1610		328200	* <0.2mR/hr at contact & 30cm
3	DIGITAL CAMERA		<Lc		<Lc		<Lc		<Lc	N/A
4-7	(4) AIR MONITORS		<Lc		<Lc		<Lc		<Lc	N/A
8	FLUORESCENT FIXTURE END PIECE W/ STARTER		<Lc		<Lc		<Lc		<Lc	ITEM BAGGED REMOVED TO COLLECTION DRUM
9	(1) PALLET		<Lc		<Lc		82511		4266600	* 55mRad/hr. Contact, 2.5mRad/hr. 30cm
10-14	(5) PALLETS		<Lc		<Lc		**		**	** PALLET were above contamination limits. these (5) + Item 8 were wrapped in plastic
15	BOUNDARY VERIFICATION		54		N/A		244		N/A	N/A
16-23	BOUNDARY VERIFICATION		<Lc				<Lc			N/A
24	SOP	4 / 42.13	<Lc	2 / 47.04		45 / 76.21	<Lc	50 / 540.08		N/A

COMMENTS: Smears field read w/ instruments S/N - 103835 & 78147. Direct Readings - 106328 & 102039. * Bicron RSO5 S/N - A7646C, Cal due 8/25/01, LLD - 0.2mR

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Released to: WESKEM

HP Supervisor Review: M. [illegible] / 6/19/01
Signature/ Date

Radiological Survey Form

Survey No.: 01-ER-756-S Date: 6/12/01 Time: 0930 RWP NO: 01-DDE-31-S

Location of Survey – General (Site/Bldg.)/Specific (Room/Area): C-331 DMSA-10

Purpose of Survey: JOB COVERAGE Material Description: MATERIAL MOVEMENT

Technician: TA LOYD Badge: 704869 Technician: Wm. Duncan Badge: 722288

Model #	Serial #	Cal. due date	Probe Model #	CF Pt.	CF Plane
Ludlum 3	106173	8-4-01	44-9	4.25	27.44
Ludlum 2221	102039	3-22-02	43-5	7.14	14.28
Ludlum 3	130835	8-3-01	44-9	4.88	31.45
Ludlum 2221	78147	1-16-02	43-5	9.04	18.08
N/A	N/A	N/A	α CF: N/A	β/γ CF: N/A	
	N/A	N/A	α CF: N/A	β/γ CF: N/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	EXHAUST FAN IMPELLER RFO# 110006 - 015	1 / 16.63	21	1 / 42.13	<Lc	35 / 58.63	149	45 / 491.54	<Lc	N/A
2	EXHAUST FAN IMPELLER RFO# 110007 - 013		29		<Lc		1250		25160	N/A
3	EXHAUST FAN IMPELLER RFO# 110007 - 014		<Lc		~~<Lc~~ 1483 dpm/100		663		125800	2.94 mRad/hr. Contact, <0.2 mR/hr 30cm
4	EXHAUST FAN IMPELLER RFO# 110008 - 016		71		<Lc		315		629	N/A
5	EXHAUST FAN IMPELLER RFO# 110008 - 017		21		<Lc		<Lc		629	N/A
6	PALLET #1		93		1216		2818		106930	1.5 mRad/hr. Contact, <0.2 mR/hr 30cm
7	PALLET # 2		885		22618		3795		94350	N/A
8	PALLET # 3		64		1446		1165		251600	<0.2 mR/hr β/γ at contact & 30cm
9	DMSA-10 035 BLUE B25 Box - Smear to open		<Lc		<Lc		<Lc		<Lc	Smear taken to open lid of box
10	IN BLUE B25 C331 DMSA 10 - 031	1 / 16.63	<Lc	1 / 42.13	723	35 / 58.63	74320	45 / 491.54	10064000	110 mRad/hr. - Contact, 1 mRad/hr. 30cm

COMMENTS:

Released to: N/A

HP Supervisor Review: M. Scott, 6/19/01
Signature/ Date

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Radiologic; Survey Form

Survey No.: 01-ER-757-S Date: 6-12-01 Time: 1630 RWP NO: 01-ER-31-S

Location of Survey – General (Site/Bldg.)/Specific (Room/Area): C-331 DMST C331-10

Purpose of Survey: Job Coverage Material Description: Material Movement

Technician: TA Loyd Badge: 704889 Technician: Wm. Duncan Badge: 722284

Model #: Ludlum 3	Serial #: 106173	Cal. due date: 8-4-01	Probe Model #: 44-9	CF Pt.: 4.25	CF Plane: 27.44
Model #: Ludlum 2221	Serial #: 102039	Cal. due date: 3-22-02	Probe Model #: 43-5	CF Pt.: 7.14	CF Plane: 14.28
Model #: Ludlum 3	Serial #: 130835	Cal. due date: 8-3-01	Probe Model #: 44-9	CF Pt.: 4.88	CF Plane: 31.45
Model #: Ludlum 2221	Serial #: 78147	Cal. due date: 1-16-02	Probe Model #: 43-5	CF Pt.: 9.04	CF Plane: 18.08
Model #: N/A	Serial #: N/A	Cal. due date: N/A	α CF: N/A	β/γ CF: N/A	
Model #:	Serial #:	Cal. due date:	α CF: N/A	β/γ CF: N/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
1-2	Lift Bar	1 / 16.63	21	1 / 42.13	<Lc	35 / 58.63	<Lc	45 / 491.54	<Lc	
3	Ratchet/Socket		<Lc							
4	Pliers									
5-8	(4) Slings									
9	Digital Caliper									N/A
10-12	(3) IH Pumps									
13	(1) HP Pump			1 / 42.13	<Lc			45 / 491.54	<Lc	
14-23	Boundary Verification & SOP	1 / 16.63	<Lc		N/A	35 / 58.63	<Lc		N/A	
					N/A					

COMMENTS: Smears Field Read With Instruments 106173 & 102039. Direct Readings With S/N-130835 & 78147

COPY

Released to: Weskem

HP Supervisor Review: M. Sanders 6/19/01
Signature/ Date

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This is the original

Radiological Survey Form

Survey No.: 01-CR-760-S Date: 6/13/01 Time: 0925 RWP NO: 0 001 3 S

Location of Survey – General (Site/Bldg.)/Specific (Room/Area): C-331 DMSA C331-10

Purpose of Survey: Job Coverage Material Description: Material Movement

Technician: TA Loyd Badge: 704869 Technician: Wm. Duncan Badge: 722288

Model #	Serial #	Cal. due date	Probe Model #	CF Pt.	CF Plane
Ludlum 3	13-835	8-3-01	44-9	4.88	31.45
Ludlum 2221	99131	6-27-01	43-5	8.46	16.42
Ludlum 2	106173	8-4-01	44-9	4.25	27.44
Ludlum 2221	78147	1-16-02	43-5	9.04	18.08
N/A	N/A	N/A	α CF: N/A	β/γ CF: N/A	
			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	AC Pump Casing backplate & discharge elbow #110012-008	1 / 19.71	110	1 / 42.13	2495	35 / 67.21	361	50 / 452.01	16464	# RFD # 110012-008
2	AC Pump Casing backplate & discharge elbow #110012-036		829		132490		819		109760	* RFD# 110012-036 <0.2mR/hr β at contact & 30cm
3	AC Pump casing backplate & discharge elbow #110012-027		102		15296		<Lc		10976	RFD# 110012 027
4	Forklift Fix Base RFD# 110013-005		<Lc		<Lc		<Lc		3842	RFD# 110013-005
5	AC Pump Casing Backplate assembly RFD# 110014-009		<Lc		108		68		3293	RFD# 110014-009
6	AC Compressor Housing RFD# 110015-037		<Lc		2133		<Lc		16464	RFD# 110015-037
7	AC Pump Casing RFD# 110016-020		<Lc		52324		498		27952	RFD# 110016 020
8	AC Pump Casing RFD# 110017-018		<Lc		398		386		49392	RFD# 110017-018
9	AC Pump Casing RFD# 110018-023		85		1049		1454		164640	* RFD# 110018 0.7mRad/hr at contact <0.2mR/hr 30cm
10, 11	Water Valve (2) RFD# 110019-021 & 22	1 / 19.71	<Lc	1 / 42.13	<Lc	35 / 67.21	<Lc	50 / 452.01	<Lc	RFD# 110019

COMMENTS: Smears field read with instruments S/N-13015 & 99131. Direct readings w/ S/N-106173 & 78147. * RS05 S/N-17940 cal due 8/25/01 LLD 0.2mR

Released to: ____

HP Supervisor Review: M. Smith 6/19/01
Signature/ Date

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

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Radiological Survey Continuation Form

Survey No.: 01-ER-760-S

Item No.	Sample Location	BKGD / Lc	Removable α dpm/100cm²	BKGD / Lc	Total α dpm/100cm²	BKGD / Lc	Removable β,γ dpm/100cm²	BKGD / Lc	Total β,γ dpm/100cm²	Remarks
12-15	(4) Air Monitors	1 / 19.71	<Lc	1 / 42.13	<Lc	35 / 67.21	<Lc	50 / 452.01	<Lc	
16,17	(2) Flashlights		<Lc		<Lc		<Lc		<Lc	
18	(1) Digital Camera		<Lc		<Lc		<Lc		<Lc	
19	Clipboard		<Lc	1 / 42.13	<Lc		<Lc		<Lc	
20-29	Boundary Verification		<Lc				<Lc			
30	SOP	1 / 19.71	<Lc			35 / 67.21	<Lc			
										N/A
									N/A	
					N/A					
	N/A						N/A			
										COPY

COMMENTS/NOTES:

Radiologic.. Survey Form

Survey No.: 01-ER 774-S Date: 6/14/01 Time: 1515 RWP NO: 01-DOE-31..

Location of Survey – General (Site/Bldg.)/Specific (Room/Area): DMSA C331-10

Purpose of Survey: MATERIAL RELEASE TRANSFER Material Description: MISC. EQUIPMENT

Technician: TA Lyd Badge: 704869 Technician: L/m Duncan Badge: 722288

Model #: Ludlum 3	Serial #: 106173	Cal. due date: 8-4-01	Probe Model #: 44-9	CF Pt.: 4.25	CF Plane: 27.44
Model #: Ludlum 2221	Serial #: 99131	Cal. due date: 6-27-01	Probe Model #: 43-5	CF Pt.: 8.46	CF Plane: 16.92
Model #: N/A	Serial #: N/A	Cal. due date: N/A	Probe Model #: N/A	CF Pt.: N/A	CF Plane: N/A
Model #: N/A	Serial #: N/A	Cal. due date: N/A	α CF: N/A	β/γ CF: N/A	
			α CF: N/A	β/γ CF: N/A	

Tennelec: Yes ____ 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
1-12	TOYOTA FORKLIFT	2 / 27.88	< L_c	2 / 55.75	< L_c	60 / 76.77	< L_c	60 / 495.15	< L_c	
13	RACHET / SOCKET									
14	CLAMP									
15	WIRE SPOOL									
16	BAG OF CLIPS									
17,18	(2) BOTTLES - 409									
19	(1) ROLL OF TAPE									
20	(1) CRIMPER									
21	(1) BARCODE READER									
22-24	(3) BAGS RAD TRASH	2 / 27.88	< L_c	2 / 55.75	< L_c	60 / 76.77	< L_c	60 / 495.15	< L_c	

N/A

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COMMENTS: FORKLIFT GROSS MASSCLEANED WIPED PRIOR TO SMEAR SURVEY

Released to: WESKEM HP Supervisor Review: [signature] 6-25-2001
Signature/Date

Survey No.: 01-ER-774-S

Item No.	Sample Location	BKGD / Lc	Removable α dpm/100cm²	BKGD / Lc	Total α dpm/100cm²	BKGD / Lc	Removable β,γ dpm/100cm²	BKGD / Lc	Total β,γ dpm/100cm²	Remarks
25,26	Bag Rocks	2 / 27.88	<Lc	2 / 55.75	<Lc	60 / 76.77	<Lc	60 / 495.15	<Lc	
27,28	(2) Barcode Readers				<Lc				<Lc	
29-34	Boundary Verification				N				N	
40	SOP	2 / 27.88	<Lc	2 / 55.75	A	60 / 76.77	<Lc	60 / 495.15	A	
										N
										A
					N					
					A					

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COMMENTS/NOTES:

Radiological Survey Form

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Survey No.: 01-ER-1049-S Date: 7-30-01 Time: 09:00 RWP NO: N/A

Location of Survey – General (Site/Bldg.)/Specific (Room/Area): C-752-A

Purpose of Survey: Investigative (for Weskem) Material Description: Fluorescent Fixture End Piece w/ Starter

Technician: John Gaw / John Gaw Badge: 635941 Technician: Renee Balkey / Renee Balkey Badge: 703556

Model #	Serial #	Cal. due date	Probe Model #	CF Pt.	CF Plane
α Lud 2221	68801	09-25-01	43-5	8.16	16.31
Br Lud 3	90213.	08-04-01	44-9	5.33	34.40
N	N	N	N	N	N
A	A	A	α CF: N / βγ CF:	A	A

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 βγ L	Removable β,γ dpm/100cm²	BKGD βγ L	Total β,γ dpm/100cm²	Remarks
1	O/S Bag	1 / 19.00	< Lc	1 / 38.01	< Lc	110 / 130.33	< Lc	110 / 840.64	< Lc	Bag Containing Fl. Fixture
2	Fixture	↓	< Lc	↓	65	↓	< Lc	↓	1720.	side of fixture
3	↓	1 / 19.00	< Lc	1 / 38.01	98	110 / 130.33	< Lc	110 / 840.64	2477.	side of fixture
N		N		N		N		N		N
	A		A		A		A		A	A

COMMENTS: Item from C331 / DMSA # 10. All Accessible Areas Surveyed.

Released to: HP Supervisor Review: Signature/ Date

HP SMEAR AND AIR SAMPLE ACTIVITY REPORT

KLR 5/3/01

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AIR SAMPLE CALCULATION WORKSHEET

PAGE 1 OF 3

COPY

SURVEY INFORMATION SAMPLING RCT NAME WC Hodges SIGNATURE WC Hodges BADGE 702584

Purpose of Survey Job Coverage - Lapel Building/Location: DMA 31-10

Survey # 01- ER - 488 -A RWP #: 01-DOE- 31 - 5 Work Description IH Sampling

SAMPLING INSTRUMENTATION

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

Serial No.: 954040 Cal. Due Date: 4-28-01

MEDIA DESCRIPTION

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

NOTE: 1 CFM = 28.32 LPM

Start Date	Start Time	Start Flow CFM / LPM	Stop Dale	Stop Time	Stop Flow CFM / LPM	Flow Duration (Minutes) (f)	Average Flow Rate (LPM)	Total Air Volume (L)
***	***	***	***	***	***	41	7.62	312.42

Area Posted as ARA?	Were Respirators Worn?
☐ Yes ☒ No	☐ Yes ☒ No

☒ N/A

LABORATORY INFORMATION LAB RCT NAME Ryan Payne SIGNATURE Ryan Payne BADGE 703117

INSTRUMENTATION USED	Serial #:	Cal Due Date:	Alpha Efficiency	Beta Efficiency
☐Tennelec Series 2 / Series 5 ☐ Ludlum 2929 ☐ Berthold LB770	142651	6-1-01	.3659	.3563
☐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)
4-24-01	0750	Alpha	480	0.20	0.43	300	0.23	0.37	-0.14	-0.37	0.21
		Beta	480	2.51	5.04	300	54.34	54.41	-0.07	-0.20	3.05
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) **
2E-12	5E-13	-8.20E-13	0
Beta DAC (µCi/ml)	**Posting Level (µCi/ml)**	**Concentration (µCi/ml)**	**Concentration (% DAC) ** **
6 E-08	1.5 E-08	-3.03E-13	0

☒ (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) = 9.32E-13 Beta MDC (µCi/ml) = 7.65E-12

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

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

received 5/3/01 MW

*** See air sample calculation worksheet continuation form Counts 70 α 16302 B-γ

Reviewed By: [signature] Date: 4-30-2001

AIR SAMPLE **CALCULATION** WORKSHEET

CONTINUATION FORM

Air Sample # 01 - ER - 488 - A RWP # 01 - DOE - 31 - A

Lapel User	Badge / SSN#	Date On	Time On	Start Flow	Date Off	Time Off	Stop Flow
Chris Wagner	722572	4-20-01	09:30	7.62 LPM	4-20-01	09:49	7.62 LPM
Chris Wagner	722572	4-20-01	13:00	7.62 LPM	4-20-01	13:22	7.62 LPM
				A			
		N					

Comments: Two entries were made into DMSA C-331-10 for 1H sampling

Flow duration = 19 + 22 = 41 minutes, Average Flow Rate = 7.62 LPM

Wes Hodges — Name

WC Hodges — Signature

4-20-01 — Date

LOW VOLS/LAPEL BZA AIR SAMPLE CALCULATIONS

Survey Number	01-ER-488-A	Start Flow LPM	7.62
Start Date/Time		Stop Flow LPM	7.62
End Date/Time	1/0/00 0:00	Average Flow	7.620
		Total Volume Air (L)	312.420

Days Elapsed		0
Hours Elapsed		0
Minutes Elapsed		0
Total Minutes		41

Activity in dpm-Alpha	-0.37
Activity in dpm-Beta	-0.20
Volume in L	312.42
Volume in mL	312420.00
Alpha Activity by 4.74E-7	-1.7538E-07
arV (.7)(1)(Volume in mL)	218694
Beta Activity by 4.74E-7	-9.48E-08
arV (1)(1)(Volume in mL)	312420

Alpha Concentration in microCi/mL	-8.02E-13
% 2e-12 (Based on Np-237)	-4.01E+01
% 1e-10 (Drum Mountain)	-8.02E-01
% 1 1e-11 (Tc-99 Tank)	-7.29E+00
For a Different Percent DAC Enter DAC Value Below	
1 10E-11	-7.29E+00

Beta Concentration in microCi/mL	-3.03E-13
% 6E-8 (Based on Th-234)	-5.06E-04
For a Different Percent DAC Enter DAC Value Below	
6 00E-08	-5.06E-04

Use This for Calculating Minimum Detectible Concentration in MicroCi/mL

Enter Alpha MDA	0.43	Enter Beta MDA	5 04
Alpha MDA*4 74E-7	2 0382E-07	Beta MDA*4 74E-7	2 38896E-06
arV (7)(1)(Vol In mL)	218694	arV (1)(1)(Vol In mL)	312420
Alpha MDC in microCi/mL	9.62E-13	Beta MDC in microCi/mL	7.65E-12

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

	ALPHA		BETA-
Gr Sample Count Rate,cpm	0 23	Gr Sample Count Rate,cpm	54 34
Gr Sample Count Time,min	300	Gr Sample Count Time,min	300
Bkgr Count Rate, cpm	0 37	Bkgr Count Rate, cpm	54 41
Bkgr Count Time, min	480	Bkgr Count Time, min	480
Counter Efficiency %	0.3659	Counter Efficiency %	0.3563
+/- 2 Sigma, dpm	0.21	+/- 2 Sigma dpm	3.05

NOTES:

DATA TO BE ENTERED GOES IN

RESULTS ARE DISPLAYED IN

Printed Name: Julie Woods

Signature & Date: Julie Woods 4/25/01

KLR 5/3/01

~~RECORD COPY~~

AIR SAMPLE CALCULATION WORKSHEET

PAGE 1 OF 3

COPY

SURVEY INFORMATION SAMPLING RCT NAME WC Hodges SIGNATURE WC Hodges BADGE 702584

Purpose of Survey Job Coverage - Hi Vol. Building/Location: DMSA Vol. 4-2

Survey # 01- ER - 486 -A RWP #: 01-DOE- 31 -S Work Description: JH Sampling

SAMPLING INSTRUMENTATION

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

Serial No 19909 N Cal Due Date 7-24-01

MEDIA DESCRIPTION

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

NOTE 1 CFM = 28 32 LPM

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)
4-20-01	0930	18	4-20-01	0955	18	25	509.76	12744

Area Posted as ARA? ☐ Yes ☒ No

Were Respirators Worn? ☐ Yes ☒ No ☒ N/A

Ryan Payne

INSTRUMENTATION USED	Serial #	Cal Due Date	Alpha Efficiency	Beta Efficiency
☒Tennelec Series 2 / Series 5 ☐ Ludlum 2929 ☐ Berthold LB770	36643	6-05-01	0.28	0.40
INSTRUMENTATION USED ☐ Tennelec Series 2 / Series 5 ☐ Ludlum 2929 ☐ Berthold LB770	Serial #:	Cal Due Date	Alpha Efficiency	Beta Efficiency

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)
4-23-01	1312	Alpha	30	0.31	1.09	20	0.20	0.03	0.17	0.59	0.75
		Beta	30	1.61	3.56	20	2.00	1.80	0.20	0.51	2.02
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									

Alpha DAC (µCi/ml)	Posting Level (µCi/ml)	Concentration (µCi/ml)	Concentration (% DAC) **
2E-12	5E-13	1.08E-13	5.41
Beta DAC (µCi/ml)	**Posting Level (µCi/ml)**	**Concentration (µCi/ml)**	**Concentration (% DAC) ** **
6 E 08	1 5 E-08	6.54E-14	1.09E-4

† (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) = 2.00 -13 **Beta** MDC (µCi/ml) = 4.57E-13

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

** Notify Operations Support Manager or designee when 10% of [

received 5/3/01 MW

Reviewed By: Date: 4-26-2001

IH SAMPLING DATA

Portsmouth Analytical Laboratory
Official Report

Customer Smpl Id: 3110B1AM-01
Project:X-02-IB KCW005069B
Subproj Analyses:WIPE
Customer:N J SMITH

Matrix: WIPE
Protocol:NONE
Status: APPROVED
Location:

Sampled: 04/20/01 13:09:00
Received: 05/16/01 10:30:00
Needed: 05/30/01 23:59:00
Approved: 05/24/01 09:03:31

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

Analy Meth: NIOSH-7300-1 QC Batch:QC01143005 Test:7300FILTER Rpt Basis:Not Corrected Date Approved
Prep Meth: Analyzed:05/21/01 00:00:00 E L SIMPSON Approver: W R WAUGH 05/74/01 09:03

Analyte Name	Result	+/-	Unit	Qual	Fn	LCR	Dilu	HT	CLF
Arsenic	0.332		ug/wipe	U		0.332	1		
Barium	2.77		ug/wipe			0.00676	1		
Beryllium	0.0066		ug/wipe	B		0.00334	1		
Cadmium	0.095		ug/wipe	B		0.0256	1		
Chromium	2.50		ug/wipe			0.147	1		
Lead	4.84		ug/wipe			0.322	1		
Nickel	4.15		ug/wipe			0.171	1		
Selenium	0.32		ug/wipe	U		0.32	1		
Silver	0.039		ug/wipe	JU		0.039	1		
Thallium	0.35		ug/wipe	U		0.35	1		

Comments: Ba not an approved element for NIOSH 7300. Analysis performed per customer's request.

QC Batch Comments: Ag qualified as estimate due to LCS not meeting acceptance limits.

EPA Qualifiers:

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

J Quality data for the sample as estimated.

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

[illegible]
[illegible]
Lab Director: [illegible]
***** END OF REPORT *****

COPY

Portsmouth Analytical Laboratory
Official Report

Customer Smpl Id: 3110B1AM-03
Project:X-02-IB KCW005069B
Subproj Analyses:AIR
Customer:N J SMITH

Matrix: AIR
Protocol:NONE
Status: APPROVED
Location:

Sampled: 04/20/01 13:11:00
Received: 05/16/01 10:30:00
Needed: 05/30/01 23:59:00
Approved: 05/24/01 09:04:36

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

Analy Meth:NIOSH-7300-2 QC Batch:QC01143005 Test:7300FILTER Rpt Basis:Not Corrected Date Approved
Prep Meth: Analyzed:05/21/01 00:00:00 E L SIMPSON Approver: W R WAUGH 05/24/01 09:03

Analyte Name	Kesu It	+/-	Unit	Qual	Fn	LCR	Dilu	HT	CLF
Arsenic	0.332		ug/filter	U		0.332	1		
Beryl lium	0.00334		ug/filter	U		0.00334	1		
Cadmium	0.0256		ug/filter	U		0.0256	1		
Chromium	0.822		ug/filter	B		0.147	1		
Icad	0.322		ug/filter	U		0.322	1		
Nickel	0.121		ug/filter	U		0.121	1		
Selenium	0.373		ug/filter	B		0.32	1		
Silver	0.039		ug/filter	JU		0.039	1		
Thallium	0.35		ug/filter	U		0.35	1		

QC Batch Comments: Ag qualified as estimate due to LCS not meeting acceptance limits.

EPA Qualifiers:

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

J Qualify data for the sample as estimated.

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

U.S. EPA Analytical Laboratory
[illegible] Peketon OH [illegible]
Lab Director: Deborah [illegible]
***** END OF REPORT *****

COPY

Johns Manville

Johns Manville Corporation
10100 W Ute Avenue (80127)
P O Box 625005
Littleton CO 80162-5005
3039782000

COVER PAGE

June 1, 2001

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

Laboratory Report ID: 0105 1009
Laboratory Name: Johns Manville Technical Centet
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 alculated 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 tlic industrial ygiene 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
t	1	MCE filter	NIOSH 7400 ("A" rules) Issue 2, 4th Edition, 8/15/94	5/15/2001
Volatile Organic Compounds (VOCs)	1	6-liter Canister	EPA method TO-14A	5/24/2001

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

Scott A. Steiner
ott A. Steiner
ustrial Hygiene Project Manager

6/1/01
Date

COPY

June 1, 2001

Laboratory Report ID: 01051009
Laboratory Name: Johns Manville Technical Center
Industrial Hygiene Laboratory
Reference Number: KCWO05069A
Reference Name: WESKEM PAD
Requestor: Paducah

Sample Results

Date Received: 5/10/2001
Date Analyzed: 5/15/2001

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
01051009-001	3110B1AM-04	Fibers by PCM ("A" rules)	4.0 fibers	100 fields	< 7 fibers/mm^2	864.78 L.	< 0.003 fibers/cc

COPY

June 1, 2001

Laboratory Report ID: 01051009
Laboratory Name: Johns Manville Technical Center
Industrial Hygiene Laboratory
Reference Number: KCWO05069A
Reference Name: WESKEM PAD
Requestor: Paducah

Sample Results

Date Received: 5/10/2001
Date Analyzed: 5/24/2001

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

Laboratory Sample Number: **01051009-002**
Customer Sample Number: **3110B1AM-05**

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	ND	< MDL	U
Chloromethane	0.63	2.00	0.00	1.00	ND	< MDL	U
1,2-Dichlorotetrafluoroethane (Freon 114)	0.50	2.00	0.00	1.00	ND	< MDL	U
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	ND	< MDL	U
1,1-Dichloroethene	2.60	4.00	0.00	1.00	ND	< MDL	U
Dichloromethane (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	ND	< MDL	U
Carbon tetrachloride	0.20	2.00	0.00	1.00	ND	< MDL	U
1,2-Dichloropropane	0.10	2.00	0.00	1.00	ND	< MDL	U
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	ND	< MDL	U
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
Ethylbenzene	0.13	2.00	0.00	1.00	ND	< MDL	U
m, p-Xylenes	0.20	2.00	0.00	1.00	ND	< MDL	U
Styrene	0.19	2.00	0.00	1.00	ND	< MDL	U
1,1,2,2-Tetrachloroethane	0.23	2.00	0.00	1.00	ND	< MDL	U
o-Xylene	0.12	2.00	0.00	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	ND	< MDL	U
1,3-Dichlorobenzene	0.28	2.00	0.00	1.00	ND	< MDL	U
1,4-Dichlorobenzene	0.31	2.00	0.00	1.00	ND	< MDL	U
1,2-Dichlorobenzene	0.30	2.00	0.00	1.00	ND	< MDL	U
1,2,4-Trichlorobenzene	0.77	2.00	< MDL	1.00	< MDL	< MDL	U
Hexachloro-1,3-butadiene	0.66	2.00	0.00	1.00	ND	< MDL	U

June 1, 2001

Laboratory Report ID: 01051009
Laboratory Name: Johns Manville Technical Center
Industrial Hygiene Laboratory
Reference Number: KCWO05069A
Reference Name: WESKEM PAD
Requestor: Paducah

Sample Results

Date Received: 5/10/2001
Date Analyzed: 5/24/2001

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

Laboratory Sample Number: **01051009-002**
Customer- Sample Number: **31** IOBI AM-05

Tentatively Identified Compound (TIC)	CAS Nos.	Laboratory Blank *(ppb-v)*	DF	TOTAL(3) *(ppb-v)*	TOTAL(2) *(ppb-v)*	Flags*

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(1) = *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 infernal 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	Semi-quantitative sample result value (value between MDL and PQL)
U	Undetected, analyzed for, but not detected (value below MDL)

June 1, 2001

Laboratory Report ID: 01051009
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: 5/15/2001
Analytical Method: NIOSH 7400("A" rules)

Laboratory QC Type	Laboratory QC Number	Requested Analysis	Expected Recovery	Actual Recovery	Percent Recovery	Pass / Fail
Method Blank	QCO1051404	Fibers by PCM ("A" rules)	< 7 fibers/mm2	< 7 fibers/mm2	N/A	pass
Laboratory Control Sample	QC01051403	Fibers by PCM ("A" rules)	4 1 fibers/mm2	5 09 fibers/mm2	124 2%	pass

June 1, 2001

Laboratory Report ID: 01051009
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: 5/24/2001
Analytical Method: **EPA** method TO-**14A**

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-Dichloroethene	2.60	4.00	< MDL	< MDL	N/A	*pass*
Dichloromethane (Methylene chloride)	**1.85**	4.00	< MDL	< MDL	N/A	*pass*
,1,2-Trichlorotrifluoroethane (Freon 113)	**1.35**	4.00	< MDL	< MDL	N/A	*pass*
,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*
2-Dichloroethane	0.24	2.00	< MDL	< MDL	N/A	*pass*
,1,1-Trichloroethane	0.18	2.00	< MDL	< MDL	N/A	*pass*
Benzene	0.15	2.00	< MDL	< MDL	N/A	*pass*
arbon tetrachloride	0.20	2.00	< MDL	< MDL	N/A	*pass*
2-Dichloropropane	0.10	2.00	< MDL	< MDL	N/A	*pass*
Trichloroethene	0.12	2.00	< MDL	< MDL	N/A	*pass*
s-1,3-Dichloropropene	0.20	2.00	< MDL	< MDL	N/A	*pass*
ans-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*
2-Dibromoethane	0.17	2.00	< MDL	< MDL	N/A	*pass*
Tetrachloroethene	0.18	2.00	< MDL	< MDL	N/A	*pass*
hlorobenzene	0.10	2.00	< MDL	< MDL	N/A	*pass*
ylbenzene	0.13	2.00	< MDL	< MDL	N/A	*pass*
p-Xylenes	0.20	2.00	< MDL	< MDL	N/A	*pass*
Styrene	0.19	2.00	< MDL	< MDL	N/A	*pass*
,2,2-Tetrachloroethane	0.23	2.00	< MDL	< MDL	N/A	*pass*
Xylene	0.12	2.00	< MDL	< MDL	N/A	*pass*
,3,5-Trimethylbenzene	0.24	2.00	< MDL	< MDL	N/A	*pass*
,2,4-Trimethylbenzene	0.18	2.00	< MDL	< MDL	N/A	*pass*
-Dichlorobenzene	0.28	2.00	< MDL	< MDL	N/A	*pass*
4-Dichlorobenzene	0.31	2.00	< MDL	< MDL	N/A	*pass*
2-Dichlorobenzene	0.30	2.00	< MDL	< MDL	N/A	*pass*
,4-Trichlorobenzene	0.77	2.00	< MDL	< MDL	N/A	*pass*
exachloro-1,3-butadiene	0.66	2.00	< MDL	< MDL	N/A	*pass*

June 1, 2001

Laboratory Report ID: 01051009
Laboratory Name: Johns Manville Technical (
Industrial Hygiene Laborat
Reference Number: KCWO05069A
Reference Name: WESKEM PAD
Requestor: Paducah

...sults Summ

A a 5.00.0001

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

Labora y QC Type: **Laboratory Control Sa**
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
)ichlorodifluoromethane (Freon 12)	0.28	2.00	20.313	18.66	91.9%	pass
Chloromethane	0.63	2.00	20.508	18.22	88.8%	pass
,2-Dichlorotetrafluoroethane (Freon 114)	0.50	2.00	20.508	18.09	88.2%	pass
'inyl chloride	0.81	2.00	20.508	19.03	92.8%	pass
Bromomethane	0.62	2.00	20.508	18.66	91.0%	pass
Chloroethane	0.83	2.00	20.508	18.38	89.6%	pass
richlorofluoromethane (Freon 11)	1.58	4.00	20.313	16.46	81.0%	pass
,1-Dichloroethene	2.60	4.00	20.117	17.46	86.8%	pass
Dichloromethane (Methylene chloride)	1.85	4.00	20.508	17.68	86.2%	pass
1,2-Trichlorotrifluoroethane (Freon 113)	1.35	4.00	20.313	17.77	87.5%	pass
1-Dichloroethane	0.88	2.00	20.703	18.13	87.6%	pass
cis-1,2-Dichloroethene	0.17	2.00	20.508	17.87	87.1%	pass
'hloroform	0.20	2.00	20.703	18.29	88.3%	pass
2-Dichloroethane	0.24	2.00	20.703	18.26	88.2%	pass
1,1,1-Trichloroethane	0.18	2.00	20.703	17.84	86.2%	pass
Benzene	0.15	2.00	20.898	17.65	84.5%	pass
'rbon tetrachloride	0.20	2.00	20.313	20.19	99.4%	pass
,2-Dichloropropane	0.10	2.00	20.703	17.68	85.4%	pass
Trichloroethene	0.12	2.00	20.508	16.84	82.1%	pass
-1,3-Dichloropropene	0.20	2.00	20.508	17.70	86.3%	pass
ns-1,3-Dichloropropene	0.29	2.00	20.703	17.23	83.2%	pass
,1,2-Trichloroethane	0.08	2.00	20.703	17.92	86.6%	pass
luene	0.12	2.00	20.703	17.66	85.3%	pass
-Dibromoethane	0.17	2.00	20.703	18.20	87.9%	pass
etrachloroethene	0.18	2.00	20.508	17.59	85.8%	pass
'lorobenzene	0.10	2.00	20.313	17.52	86.3%	pass
yl benzene	0.13	2.00	20.508	17.90	87.3%	pass
, p-Xyenes	0.20	2.00	41.016	35.82	87.3%	pass
tyrene	0.19	2.00	19.922	17.06	85.6%	pass
2,2-Tetrachloroethane	0.23	2.00	20.313	16.84	82.9%	pass
-xylene	0.12	2.00	20.313	17.31	85.2%	pass
3,5-Trimethylbenzene	0.21	2.00	20.703	17.10	82.6%	pass
4-Trimethylbenzene	0.18	2.00	20.703	16.65	80.4%	pass
Dichlorobenzene	0.28	2.00	19.922	18.55	93.1%	pass
4-Dichlorobenzene	0.31	2.00	19.922	16.47	82.7%	pass
Dichlorobenzene	0.30	2.00	19.922	15.75	79.1%	pass
4-Trichlorobenzene	0.77	2.00	20.508	11.48	56.0%	pass
'xachloro-1,3-butadiene	0.66	2.00	20.508	13.07	63.7%	pass

June 1, 2001

Laboratory Report ID: 01051009
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: 5/24/2001
Analytical Method: EPA method TO-14A

Laboratory QC Type: **Sample Duplicate (01051009-002)**
Laboratory QC Number: **01051009-002 (Dup.)**

Requested Analysis	MDL *(ppb-v)*	PQL *(ppb-v)*	Amount Found Primary Analysis Spiked *(ppb-v)*	Amount Found Duplicate Analysis Recovered *(ppb-v)*	Percent Recovery	Pass / Fail
)ichlorodifluoromethane (Freon 12)	0.28	2.00	< MDL	< MDL	N/A	poss
Chloromethane	0.63	2.00	< MDL	< MDL	N/A	puss
1,2-Dichlorotetrafluoroethane (Freon 114)	0.50	2.00	< MDL	< MDL	N/A	poss
/inyl chloride	0.81	2.00	< MDL	< MDL	N/A	pass
3romomethane	0.62	2.00	< MDL	< MDL	N/A	pass
Chloroethane	0.83	2.00	< MDL	< MDL	N/A	pass
'richlorofluoromethane (Freon 11)	1.58	d.00	< MDL	< MDL	N/A	pass
,1-Dichloroethene	2.60	d.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	d.00	< MDL	< MDL	N/A	pass
,1-Dichloroethane	0.88	2.00	< MDL	< MDL	N/A	pass
cis-1,2-Dichloroethene	0.17	2.00	< MDL	< MDL	N/A	poss
Chloroform	0.20	2.00	< MDL	< MDL	N/A	pass
2-Dichloroethane	0.24	2.00	< MDL	< MDL	N/A	pass
,1,1-Trichloroethane	0.18	2.00	< MDL	< MDL	N/A	pass
Benzene	0.15	2.00	< MDL	< MDL	N/A	pass
arbon tetrachloride	0.20	2.00	< MDL	< MDL	N/A	pass
2-Dichloropropane	0.10	2.00	< MDL	< MDL	N/A	pass
Trichloroethene	0.12	2.00	< MDL	< MDL	N/A	pass
s-1,3-Dichloropropene	0.20	2.00	< MDL	< MDL	N/A	pass
ns-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
2-Dibromoethane	0.17	2.00	< MDL	< MDL	N/A	pass
etrachloroethene	0.18	2.00	< MDL	< MDL	N/A	pass
Chlorobenzene	0.10	2.00	< MDL	< MDL	N/A	pass
ıyl benzene	0.13	2.00	< MDL	< MDL	N/A	pass
..., p-Xylenes	0.20	2.00	< MDL	< MDL	N/A	pass
Styrene	0.19	2.00	< MDL	< MDL	N/A	pass
2,2-Tetrachloroethane	0.23	2.00	< MDL	< MDL	N/A	pass
Xylene	0.12	2.00	< MDL	< MDL	N/A	pass
1,3,5-Trimethylbenzene	0.21	2.00	< MDL	< MDL	N/A	pass
4-Trimethylbenzene	0.18	2.00	< MDL	< MDL	N/A	pass
-Dichlorobenzene	0.28	2.00	< MDL	< MDL	N/A	pass
4-Dichlorobenzene	0.31	2.00	< MDL	< MDL	N/A	pass
2-Dichlorobenzene	0.30	2.00	< MDL	< MDL	N/A	pass
4-Trichlorobenzene	0.77	2.00	< MDL	< MDL	N/A	pass
exachloro-1,3-butadiene	0.66	2.00	< MDL	< MDL	N/A	pass