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R-020-712.9

CERTIFICATIONS FOR WASTE SHIPMENT

12/31/96

**DOE-0349-97
DOE-FEMP EPAS
11
CERTIFICATE**



Department of Energy

**Ohio Field Office
Fernald Area Office**

P. O. Box 538705
Cincinnati, Ohio 45253-8705
(513) 648-3155



**DEC 31 1996
DOE-0349-97**

**Mr. James A. Saric, Remedial Project Director
U.S. Environmental Protection Agency
Region V - 5HSF-5J
77 W. Jackson Boulevard
Chicago, Illinois 60604-3590**

**Mr. Tom Schneider, Project Manager
Ohio Environmental Protection Agency
401 East 5th Street
Dayton, Ohio 45402-2911**

Dear Mr. Saric and Mr. Schneider:

CERTIFICATIONS FOR WASTE SHIPMENT

The enclosed certification sheet is provided to meet the one time notification and certification requirement listed in 40 Code of Federal Regulations (CFR) 268.9(d) and the Ohio Administrative Code 3745-59-09(D) for the thorium nitrate waste and multiple other mixed waste streams. The Thorium Nitrate Solidification Project, Mixed Waste Stabilization Project, and Neutralization-Precipitation-Deactivation-Stabilization Project conducted under Removal Action Number 9, treated these waste to non-hazardous and below the Universal Treatment Standards prior to shipping the waste to the Nevada Test Site (NTS) for disposal in 1996. The NTS has developed waste acceptance criteria for approval of specific waste streams from the generator sites for disposal of those waste at NTS. The solidified waste was accepted by NTS and met those criteria for disposal as low-level radioactive waste.

If you have any questions, please contact Robert Danner at (513) 648-3167.

Sincerely,

Jack R. Craig
Director

FEMP:Danner

Enclosure: As Stated

000001

cc w/enc:

S. Fauver, EM-42/CLOV
G. Jablonowski, USEPA-V, 5HRE-8J
T. Schneider, OEPA-Dayton (3 copies total of enc.)
T. Hagen, FDF/65-2
AR Coordinator/78

cc w/o enc:

C. Little, FDF/2
EDC, FDF/52-7

Notice and Certification

On September 24, 25, 26, 27 and October 31, 1996 shipments of wastes (bill of lading numbers: 6543, 6548, 6550, 6551, 6556, 6557 and 7016) that formerly exhibited one or more characteristics of a hazardous waste were made from the "Originating Facility" identified below to the Facility identified below. At the time of the shipments, the wastes no longer exhibited a characteristic of a hazardous waste.

Originating Facility

Fernald Environmental Management Project
7400 Wiley Road
Fernald, Ohio 45253-8704

Receiving Facility

Nevada Test Site (NTS)
Zone 2 - Mercury Highway
Mercury, Nevada 89023

The characteristic waste as initially generated had the following EPA hazardous waste numbers, belonged in the following treatability group and subcategory, and contained the underlying hazardous constituents:

Hazardous waste codes before treatment	Treatability Group and subcategory	Underlying hazardous Constituents
D002 D006 D007	Corrosive characteristic waste Managed in a non-Clean Water Act/non-Clean Water Act equivalent Non-class 1 Safe Drinking Water System; nonwastewater.	This waste contained the underlying hazardous constituents: barium, cadmium and chromium.

For wastes with concentration-based treatment standards in 40 CFR 268.40 [cadmium D006, chromium D007], the following certification is required:

I certify under penalty of law that I have personally examined and am familiar with the treatment and operation of the treatment process used to support this certification and that, based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the performance levels specified in 40 CFR Part 268, subpart D, and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004(d) without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting false certification, including the possibility of fine and imprisonment.

Robert P. Hecker 12/17/96
Authorized Signature / Date

For wastes with treatment standards expressed as technologies in 268.40 [corrosive D002], the following certification is required:

I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.42. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

Robert P. Hecker 12/17/96
Authorized Signature / Date

In addition to the above applicable certifications, for characteristic wastes that have been treated onsite to remove the characteristic and to meet the universal treatment standards in 40 CFR 268.48 for all hazardous constituents, the following certification is required:

I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic, and that underlying hazardous constituents, as defined in 40 CFR 268.2, have been treated onsite to meet the 268.48 Universal Treatment Standards. I am aware that there are significant penalties for submitting false certification, including the possibility of fine and imprisonment.

Robert P. Hecker 12/17/96
Authorized Signature / Date

Notice and Certification

Beginning in 1996, shipments of wastes that formerly exhibited one or more characteristics of a hazardous waste was made from the "Originating Facility" identified below to the "Receiving Facility" identified below. At the time of shipment, the wastes no longer exhibited a characteristic of a hazardous waste.

Originating Facility

Fernald Environmental
Management Project
7400 Willey Road
Fernald, Ohio 45239-8704
OH6890008976

Receiving Facility

Nevada Test Site
Mercury, Nevada 89023

The characteristic waste as initially generated had the following EPA Hazardous Waste Number(s), belonged in the following treatability group and subcategory, and (for D001, D002, and D012-D043 only) contained the underlying hazardous constituents [as defined in §268.2(I)].

Hazardous waste number(s)
before treatment

Treatability group
and subcategory

See attached list.

See attached list.

For wastes with concentration-based treatment standards in §268.40 (or California list wastes), the following certification is required:

I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the performance levels specified in 40 CFR Part 268 subpart D, and all applicable prohibitions set forth in 40 CFR §268.32 or RCRA Section 3004(d) without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.



Authorized Signature

For wastes with treatment standards expressed as technologies in §268.40, the following certification is required:

I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR §268.42. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.



Authorized Signature

NOTE: Underlying hazardous constituents are not required for D001 high-TOC subcategory or for D003-D011 characteristic waste.

Chemical Precipitation Waste Stream Report

50000

MEF NO	MEF DESCRIPTION	EPA CODE	Treatability Group and Subcategory
1425	CONTAMINATED RAGS PAPER POLYETHYLENE FROM RMI	D005	Concentration-Based
10025	CONTAMINATED SOIL AND ROCKS	D005	Concentration-Based
60306	HARDENED SALT BATH SLUDGE FROM RMI	D005	Concentration-Based

Chemical Precipitation Waste Stream Report

900006

MIEF NO	MIEF DESCRIPTION	EPA CODE	Treatability Group and Subcategory
1425	CONTAMINATED RAGS PAPER POLYETHYLENE FROM RMI	D005	Concentration-Based
2932	UNUSED TREATABILITY SAMPLES	D004 D005 D006 D007 D008 D009 D010 D011	Concentration-Based
10002	SORAP SALTS	D005 D008	Concentration-Based
10025	CONTAMINATED SOIL AND ROCKS	D005	Concentration-Based
60306	HARDENED SALT BATH SLUDGE FROM RMI	D005	Concentration-Based
60307	FURNACE SALT, SOLIDIFIED, CHLORIDE (PLANT 8 RECOVERY)	D005 D008	Concentration-Based

Chemical Deactivation/Reactives Waste Stream Report

000002

MEF NO	MEF DESCRIPTION	EPA CODE	Treatability Group and Subcategory
50089	MAGNESIUM POWDER AND TURNINGS	D001	Deactivation
40137	UNFIRED REDUCTION CHARGE	D001 D003	Deactivation
2772	MIXED METALS	D001 D008	Deactivation, Concentration-Based (D008)
700	MAGNESIUM FLAKE AND OILY RAGS	D001	Deactivation

Chemical Deactivation/Oxidizers Waste Stream Report

MEE NO	MEE DESCRIPTION	EPA CODE	Treatability Group and Subcategory
1575	URANYL NITRATE (UNH), EXCESS ANALYSIS BYPRODUCT	D002	Deactivation
1949	DRAW TEMP 275	D001	Deactivation
2788	THORIUM NITRATE	D002 D005 D007 D008	Deactivation, Concentration-Based (D005, D007, D008)
2789	THORIUM NITRATE	D002 D005 D007 D008	Deactivation, Concentration-Based (D005, D007, D008)
30080	NITRIC ACID MIXED WITH URANYL NITRATE	D002 D004 D007 D008 D011	Deactivation, Concentration-Based (D004, D007, D008, D011)
30081	DISCARD PROCESS RESIDUES, TRAILER CAKES, SLURRIES, RAFFINATES	D002	Deactivation
40122	THORIUM TRAILER CAKES; WASTE SLURRIES	D002 D005 D009	Deactivation, Concentration-Based (D005, D009)
40152	SCRAP THO2-HIGH F	D005	Concentration-Based
40181	THORIUM NITRATE SOLUTION	D002 D005 D007 D008	Deactivation, Concentration-Based (D005, D007, D008)
40185	IMPURE THORIUM NITRATE (SOLID)	D001 D005 D007 D008	Deactivation, Concentration-Based (D005, D007, D008)
40186	IMPURE THORIUM NITRATE (SOLID)	D001 D007 D008	Deactivation, Concentration-Based (D007, D008)
40192	THO2 POWDER REFINERY FEED	D008	Concentration-Based
60095	RESIDUAL UNH SOLUTION WITH TBP/KEROSENE	D002 D005	Deactivation, Concentration-Based (D005)
60160	IMPURE UNH	D001	Deactivation
60193	PURE UNH SOLUTION	D002	Deactivation

800000

Stabilization Waste Stream Report

60000

MEF NO	MEF DESCRIPTION	EPA CODE	Treatability Group and Subcategory
278	GRAPHITE FROM RMI	D005, D008	Concentration-Based
517	NON-RECOVERABLE TRASH FROM DRUM BALER	D007, D008	Concentration-Based
589	DIRT CONTAMINATED WITH UNKNOWN GREEN FLUID	D007, D008, D009	Concentration-Based
633	CONTAMINATED OIL	D007	Concentration-Based
644	NON-RECOVERABLE TRASH FROM PLANT 1	D008, D010	Concentration-Based
757	DIRT AND RUBBLE	D004, D007, D008, D010, D011	Concentration-Based
817	LEAD PAINT CHIPS	D008	Concentration-Based
1081	CADMIUM SPRINGS	D006	Concentration-Based
1294	WATER CONTAMINATED WITH PETROLEUM PRODUCTS	D008	Concentration-Based
1363	OILY SLUDGES FROM W/WTS AREA	D005, D006, D007, D008, D009	Concentration-Based
1380	NON OILY SUMP CLEANOUT MATERIAL FROM PLANT 8 OPERATIONS	D007, D008	Concentration-Based
1404	EXCAVATED SOIL FROM SPILL UNDER BLDG 64 LATHES	D008	Concentration-Based
1405	CLEANING AND WASH BATH WASTE FROM DECON. PAD	D008	Concentration-Based
1421	OILY RAGS, PADS, GLOVES AND PLASTIC WITH GREASE	D008	Concentration-Based
1430	PLASTIC SHEETING, GLOVES, FLOOR SWEEPINGS	D010	Concentration-Based
1813	TRASH FROM LAB RENOVATION	D009	Concentration-Based
1938	LIQUID SOLVENT WASTE FROM PAINT BOOTH SUMP	D007, D008, D010	Concentration-Based
1946	SOIL CUTTINGS FROM OUTDOOR FIRING RANGE	D008	Concentration-Based
1968	RUST, DIRT FROM NIL FISK SWEEPER	D008	Concentration-Based
2021	BARIUM CARBONATE	D005	Concentration-Based
2418	BROKEN FLUORESCENT BULBS	D009	Concentration-Based
2443	TRASH AND DEBRIS FROM UNKNOWN SOURCE	D008	Concentration-Based
2483	OFF-GAS HEPA FILTERS FROM OU4 VITPP & MAWS - CHROMIUM CONTAMINATED	D007, D011	Concentration-Based
2693	LEAD CONTAMINATED CONTACT WASTE FROM CTC FERMCO SAMPLING	D008	Concentration-Based
2724	MIXED POWDERS	D004, D008, D011	Concentration-Based
2764	PAINT WASTE & DEBRIS FROM 10/95 ROAD STRIPPING	D007, D008	Concentration-Based
2748	DISCARD PROCESS RESIDUES	D008	Concentration-Based

Stabilization Waste Stream Report

100000

MEF NO	MEF DESCRIPTION	EPA CODE	Treatability Group and Subcategory
2808	SOLIDS PREVIOUSLY D001 NOW ONLY D004 THROUGH D011	D004, D005, D006, D007, D008, D009, D010, D011	Concentration-Based
2823	ABSORBANT PIGS, PPE & TRASH CONTAMINATED W/ZIRNLO ACID	D007	Concentration-Based
2849	LEAD BATTERY ACID & LIME NEUTRALIZER	D008	Concentration-Based
10013	FILTER CAKE	D005, D007	Concentration-Based
10022	GRIT BLAST	D008	Concentration-Based
20007	OIL CONTAMINATED WET SUMP OR FILTER CAKE	D011	Concentration-Based
20015	SCRAP SALTS AND FLOOR SWEEPINGS - LOW FLUORIDE	D007	Concentration-Based
20024	SCRAP SALTS AND FLOOR SWEEPINGS - HIGH FLUORIDE	D007, D008	Concentration-Based
20027	DUST COLLECTOR RESIDUES - HIGH FLUORIDE	D004, D011	Concentration-Based
20033	DRY DUST COLLECTOR POWDER	D008	Concentration-Based
20035	DUST COLLECTOR RESIDUES - HIGH FLUORIDE	D007	Concentration-Based
20041	NON-METALLIC MISCELLANEOUS SAMPLES	D007	Concentration-Based
20046	NON-METALLIC MISCELLANEOUS SAMPLES	D007	Concentration-Based
20047	SCRAP SALTS AND FLOOR SWEEPINGS - LOW FLUORIDE	D004, D008	Concentration-Based
20053	CONTAMINATED SOIL, ROCKS, BRICKS AND CERAMICS	D010	Concentration-Based
20058	DUST COLLECTOR RESIDUES - HIGH FLUORIDE	D006, D008	Concentration-Based
20083	CONTAMINATED FILTER ELEMENTS	D004	Concentration-Based
20109	DUST COLLECTOR BAGS	D004, D006, D008	Concentration-Based
20143	NON-RECOVERABLE TRASH	D011	Concentration-Based
30027	CONTAMINATED SOIL, ROCKS, BRICKS AND CERAMICS	D004, D005, D007, D008, D010, D011	Concentration-Based
30036	DUST COLLECTOR RESIDUES - HIGH FLUORIDE	D006, D008	Concentration-Based
30039	CONTAMINATED ROCKS, SOIL, ETC., WITH NO FREE LIQUIDS	D011	Concentration-Based
30047	SOLVENT SLUDGE, TRICHLOR, PERCHLOR, ETC...	D007, D011	Concentration-Based
30053	NON-RECOVERABLE TRASH	D006, D007, D008	Concentration-Based
30060	WET SUMP OR FILTER CAKE - NON-OILY, NON-HALIDE	D005	Concentration-Based
30174	OIL-STAINED RAGS, TRASH, WIRE	D004, D008, D011	Concentration-Based
50031	CONTAMINATED METALLIC FILTER ELEMENTS AND OIL	D008, D010	Concentration-Based

Stabilization Waste Stream Report

000011

MEF NO	MEF DESCRIPTION	EPA CODE	Treatability Group and Subcategory
50058	DUST COLLECTOR BAGS	D007	Concentration-Based
50102	PROCESS RESIDUES, TRAILER CAKES, SLURRIES, RAFFINATES	D006, D008	Concentration-Based
50148	SCRAP U308 HIGH F	D004	Concentration-Based
50173	SALT SLUDGE, CHLORIDE	D007	Concentration-Based
50174	SALT SLUDGE, CHLORIDE	D007	Concentration-Based
50180	FURNACE SALT, NON-CHLORIDE	D007, D008, D010	Concentration-Based
50203	OILY SLUDGE FOR OXIDATION	D008	Concentration-Based
50351	DUST COLLECTOR RESIDUES, HIGH FLUORIDE	D004, D008	Concentration-Based
50387	NUSAL SALT SLUDGE	D005	Concentration-Based
50405	NON-RECOVERABLE TRASH	D006, D007	Concentration-Based
50406	FURNACE SALT, CHLORIDE	D004, D011	Concentration-Based
50408	FURNACE SALT, CHLORIDE	D008, D010	Concentration-Based
50412	NON OIL Y SLUDGE FOR ROASTING	D008	Concentration-Based
60005	FLOOR SWEEPINGS FROM PILOT PLANT	D008	Concentration-Based
60008	NONRECOVERABLE TRASH	D008	Concentration-Based
60011	USED FURNACE SALT (NU-SAL)	D007	Concentration-Based
60023	METAL SHAVINGS FROM MACHINE SHOP	D008	Concentration-Based
60102	CONTAMINATED BURNABLE TRASH	D006	Concentration-Based
60107	ASBESTOS ABATEMENT DEBRIS AND PAINT CHIPS	D008	Concentration-Based
60140	STEEL SHOT	D010	Concentration-Based
60141	FURNACE SALT	D005	Concentration-Based
60302	CONTAMINATED GRAPHITE	D005	Concentration-Based
60304	CONCRETE, ROCKS, FLOOR SWEEPINGS, TRASH	D005	Concentration-Based
60305	TRENCH SLUDGE FROM RMI	D008	Concentration-Based
60315	CONTAMINATED GRAPHITE	D005, D009	Concentration-Based
60450	CRUCIBLE COATING POWDERS	D007	Concentration-Based
61004	CONTAMINATED WATER FROM K-65 AREA	D007	Concentration-Based