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**CORRECTION OF RENEWAL APPLICATION FOR PERMITS TO
OPERATE - SEVEN STORAGE TANKS - AT THE FERNALD
ENVIRONMENTAL MANAGEMENT PROJECT (OEPA) NO. 1431110128,
T039, T040, T041, T042, T048, T049, AND T073**

01/03/95

C:EC:95-0002

FERMCO

HAMILTON COUNTY

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PTO



Restoration Management Corporation

P.O. Box 398704 Cincinnati, Ohio 45239-8704 (513) 738-6200

January 3, 1995

U. S. Department of Energy
Fernald Environmental Management Project
Letter No. C:EC:95-0002

Mr. Peter Sturdevant
Compliance Specialist
Hamilton County Department
of Environmental Services
Air Quality Management Division
1632 Central Parkway
Cincinnati, Ohio 45210

Dear Mr. Sturdevant:

CORRECTION OF RENEWAL APPLICATION FOR PERMITS TO OPERATE - SEVEN STORAGE TANKS - AT THE FERNALD ENVIRONMENTAL MANAGEMENT PROJECT (OEPA) NO. 1431110128 T039, T040, T041, T042, T048, T049, AND T073

- Reference: 1) Letter, EC:94-0079, Terence Hagen to Peter Sturdevant, "Renewal of Permits to Operate at the Fernald Environmental Management Project OEPA ID. Nos 1431110128 T035, T036, T039, T040, T041, T042, and T095," dated December 16, 1994
- 2) Letter, EC:94-0077, Terence Hagen to Peter Sturdevant, "Renewal of Permits to Operate - ten storage tanks - at the Fernald Environmental Management Project OEPA ID. Nos 1431110128 T048, T049, T056, T057, T058, T059, T072, T073, T073, T081, and T085," dated December 20, 1994

Enclosed are corrections to the renewal applications for seven UNH storage tanks at the FEMP for which Permit to Operate applications were submitted in the referenced letters. These corrections identify the storage material as hazardous waste.



Mr. Peter Sturdevant
Letter No. C:EC:95-0002
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Please contact Ervin Fisher of my staff at (513) 738-6053 if you have any questions about these corrections.

Sincerely,

A handwritten signature in black ink, appearing to read "Terence D. Hagen". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Terence D. Hagen, Director
Environmental Compliance

TDH:EF:mhv
Enclosures

- cc: S. M. Beckman, FERMCO/MS65-2 - w/o attachments
- C. Glassmeyer, FERMCO/MS62 - w/o attachments
- D. W. Kirby, FERMCO/MS62 - w/o attachments
- K. O. Klee, FERMCO/MS65-2
- L. E. Parsons, DOE Contract Specialist/MS45
- W. J. Quaid, DOE-FN/MS45
- P. B. Spotts, FERMCO/MS65-2 - w/o attachments
- AR Coordinator/MS78
- File Record Storage Copy 108.6
- RTS Files

DOE - FEMP
 (Facility Name)
 F2-608, (2-170)
 (tank identification)

Complete the table below for any pressure or vacuum relief vent valve.

N/A

| Type of Vent Valve | Pressure Setting | Vacuum Setting | If pressure relief is discharged to a vapor control, identify the vapor control. |
|--------------------|------------------|----------------|--|
| | | | |

Operational Data (complete (a) through (g) of this item for all materials stored or to be stored. Attach additional sheets if necessary.)

a) Material Uranyl Nitrate (UNH) Trade Name N/A
 Density: 8.5-12. lbs/gal or -- ° API Producer N/A
 depending on concentration of UNH

b) Temperature of stored material: Average Amb °F and Maximum Amb °F
 (If temperature is approximately outdoor ambient temperature, write "AMB".)

c) Vapor pressure of stored material (Complete i, ii, iii of this item. If vapor pressure is not known, write "unknown"):

i.) Actual vapor pressure: 0.2480 psia at average storage temperature
 [Aqueous solution - 0.3331 psia at maximum storage temperature
 essentially water]

ii.) Reid vapor pressure: Average Unkn psi and minimum-maximum Unkn - Unkn psi

iii.) If material stored is a gas or liquified gas, provide the pressure at which it is stored: N/A psi gage at N/A °F

d) Type of liquid organic material (If the material is an organic liquid other than a gasoline, fuel oil, kerosene, crude oil, lubricant or other petroleum liquid, answer the question below.)

Is it a photochemically reactive material? [] Yes [X] No

e) Type of waste material (If the material is a waste, answer the question below.)

Is it a hazardous waste? [X] yes [] No

If yes, identify type (EPA hazardous waste number) D002, D005, D007

f) Indicate the year (or 12-month period) for item (g): 1995

g) Annual throughput of material: 250,000 gallons.

Completed by K. O. Klee Date 12/30/94

11. Complete the table below for any pressure or vacuum relief vent valve.

N/A

| Type of Vent Valve | Pressure Setting | Vacuum Setting | If pressure relief is discharged to a vapor control, identify the vapor control. |
|--------------------|------------------|----------------|--|
| | | | |
| | | | |

12. Operational Data (complete (a) through (g) of this item for all materials stored or to be stored. Attach additional sheets if necessary.)

a) Material Uranyl Nitrate (UNH) Trade Name N/A
Density: 8.5-12. lbs/gal or -- ° API Producer N/A
depending on concentration of UNH

b) Temperature of stored material: Average Amb °F and Maximum Amb °F
(If temperature is approximately outdoor ambient temperature, write "AMB".)

c) Vapor pressure of stored material (Complete i, ii, iii of this item. If vapor pressure is not known, write "unknown"):

i.) Actual vapor pressure: 0.2480 psia at average storage temperature
[Aqueous solution - 0.3331 psia at maximum storage temperature
essentially water]

ii.) Reid vapor pressure: Average Unkn psi and minimum-maximum Unkn - Unkn psi

iii.) If material stored is a gas or liquified gas, provide the pressure at which it is stored: N/A psi gage at N/A °F

d) Type of liquid organic material (If the material is an organic liquid other than a gasoline, fuel oil, kerosene, crude oil, lubricant or other petroleum liquid, answer the question below.)

Is it a photochemically reactive material? [] Yes [X] No

e) Type of waste material (If the material is a waste, answer the question below.)

Is it a hazardous waste? [X] yes [] No
If yes, identify type (EPA hazardous waste number) D002, D005, D007

f) Indicate the year (or 12-month period) for item (g): 1995

g) Annual throughput of material: 250,000 gallons.

Completed by K. O. Klee Date 12/30/94

DOE - FEMP
 (Facility Name)
 F2-606, (2-168)
 (tank identification)

11. Complete the table below for any pressure or vacuum relief vent valve.

N/A

| Type of Vent Valve | Pressure Setting | Vacuum Setting | If pressure relief is discharged to a vapor control, identify the vapor control. |
|--------------------|------------------|----------------|--|
| | | | |

12. Operational Data (complete (a) through (g) of this item for all materials stored or to be stored. Attach additional sheets if necessary.)

- a) Material Uranyl Nitrate (UNH) Trade Name N/A
 Density: 8.5-12. lbs/gal or -- ° API Producer N/A
 dependig on concentration of UNH
- b) Temperature of stored material: Average Amb °F and Maximum Amb °F
 (If temperature is approximately outdoor ambient temperature, write "AMB".)
- c) Vapor pressure of stored material (Complete i, ii, iii of this item. If vapor pressure is not known, write "unknown"):
- i.) Actual vapor pressure: 0.2480 psia at average storage temperature
 [Aqueous solution - 0.3331 psia at maximum storage temperature
 essentially water]
- ii.) Reid vapor pressure: Average Unkn psi and minimum-maximum Unkn - Unkn psi
- iii.) If material stored is a gas or liquified gas, provide the pressure at which it is stored: N/A psi gage at N/A °F
- d) Type of liquid organic material (If the material is an organic liquid other than a gasoline, fuel oil, kerosene, crude oil, lubricant or other petroleum liquid, answer the question below.)
- Is it a photochemically reactive material? [] Yes [X] No
- e) Type of waste material (If the material is a waste, answer the question below.)
- Is it a hazardous waste? [X] yes [] No
 If yes, identify type (EPA hazardous waste number) D002, D005, D007
- f) Indicate the year (or 12-month period) for item (g): 1995
- g) Annual throughput of material: 250,000 gallons.

Completed by K. O. Klee Date 12/30/94

11. Complete the table below for any pressure or vacuum relief vent valve.
N/A

| Type of Vent Valve | Pressure Setting | Vacuum Setting | If pressure relief is discharged to a vapor control, identify the vapor control. |
|--------------------|------------------|----------------|--|
| | | | |
| | | | |

12. Operational Data (complete (a) through (g) of this item for all materials stored or to be stored. Attach additional sheets if necessary.)

- a) Material Uranyl Nitrate (UNH) Trade Name N/A
Density: 8.5-12. lbs/gal or -- ° API Producer N/A
dependig on concentration of UNH
- b) Temperature of stored material: Average Amb °F and Maximum Amb ° F
(If temperature is approximately outdoor ambient temperature, write "AMB".)
- c) Vapor pressure of stored material (Complete i, ii, iii of this item. If vapor pressure is not known, write "unknown"):
 - i.) Actual vapor pressure: 0.2480 psia at average storage temperature
[Aqueous solution - 0.3331 psia at maximum storage temperature
essentially water]
 - ii.) Reid vapor pressure: Average Unkn psi and minimum-maximum Unkn - Unkn psi
 - iii.) If material stored is a gas or liquified gas, provide the pressure at which it is stored: N/A psi gage at N/A °F
- d) Type of liquid organic material (If the material is an organic liquid other than a gasoline, fuel oil, kerosene, crude oil, lubricant or other petroleum liquid, answer the question below.)
Is it a photochemically reactive material? [] Yes [X] No
- e) Type of waste material (If the material is a waste, answer the question below.)
Is it a hazardous waste? [X] yes [] No
If yes, identify type (EPA hazardous waste number) D002, D005, D007
- f) Indicate the year (or 12-month period) for item (g): 1995
- g) Annual throughput of material: 250,000 gallons.

Completed by K. O. Klee Date 12/30/94

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DOE - FEMP
(Facility Name)
F1-302 T048
(tank identification)

11. Complete the table below for any pressure or vacuum relief vent valve.

| Type of Vent Valve | Pressure Setting | Vacuum Setting | If pressure relief is discharged to a vapor control, identify the vapor control. |
|--------------------|------------------|----------------|--|
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |

12. Operational Data (complete (a) through (g) of this item for all materials stored or to be stored. Attach additional sheets if necessary.)

a) Material Slag Leach-Magnesium Fluoride Trade Name N/A
Density: 8.5-12 lbs/gal or _____ ° API Producer N/A

b) Temperature of stored material: Average AMB °F and Maximum AMB ° F
(If temperature is approximately outdoor ambient temperature, write "AMB".)

c) Vapor pressure of stored material (Complete i, ii, iii of this item. If vapor pressure is not known, write "unknown"):

i.) Actual vapor pressure: 0.4594 psia at average storage temperature
0.4594 psia at maximum storage temperature

ii.) Reid vapor pressure: Average UKN psi and minimum-maximum UNK - UNK psi

iii.) If material stored is a gas or liquified gas, provide the pressure at which it is stored: _____ psi gage at _____ °F

d) Type of liquid organic material (If the material is an organic liquid other than a gasoline, fuel oil, kerosene, crude oil, lubricant or other petroleum liquid, answer the question below.) Not an organic material

Is it a photochemically reactive material? [] Yes [] No

e) Type of waste material (If the material is a waste, answer the question below.)

Is it a hazardous waste? [X] yes [] No
If yes, identify type (EPA hazardous waste number) D002 D005 D007

f) Indicate the year (or 12-month period) for item (g): 1995 est

g) Annual throughput of material: 3,200 gallons.

Completed by Ervin Fisher, Jr. Reg/Tech Spec. III Date Dec 30, 1994

11. Complete the table below for any pressure or vacuum relief vent valve.

| Type of Vent Valve | Pressure Setting | Vacuum Setting | If pressure relief is discharged to a vapor control, identify the vapor control. |
|--------------------|------------------|----------------|--|
| | | | |

12. Operational Data (complete (a) through (g) of this item for all materials stored or to be stored. Attach additional sheets if necessary.)

a) Material Slag Leach-Magnesium Fluoride Trade Name N/A
Density: 8.5-12 lbs/gal or ° API Producer N/A

b) Temperature of stored material: Average AMB °F and Maximum AMB ° F
(If temperature is approximately outdoor ambient temperature, write "AMB".)

c) Vapor pressure of stored material (Complete i, ii, iii of this item. If vapor pressure is not known, write "unknown"):

i.) Actual vapor pressure: 0.4594 psia at average storage temperature
0.4594 psia at maximum storage temperature

ii.) Reid vapor pressure: Average UNK psi and minimum-maximum UNK - UNK psi

iii.) If material stored is a gas or liquified gas, provide the pressure at which it is stored: psi gage at °F

d) Type of liquid organic material (If the material is an organic liquid other than a gasoline, fuel oil, kerosene, crude oil; lubricant or other petroleum liquid, answer the question below.) Not an organic material

Is it a photochemically reactive material? [] Yes [] No

e) Type of waste material (If the material is a waste, answer the question below.)

Is it a hazardous waste? [X] yes [] No
If yes, identify type (EPA hazardous waste number) D002 D005 D007

f) Indicate the year (or 12-month period) for item (g): 1995 est

g) Annual throughput of material: 3,200 gallons.

Completed by Ervin Fisher, Jr. Reg/Tech Spec. III Date Dec 30, 1994



DOE - FEMP
 (Facility Name)
 F1-308 T073
 (tank identification)

Complete the table below for any pressure or vacuum relief vent valve.

| Type of Vent Valve | Pressure Setting | Vacuum | If pressure relief is discharged to a vapor control, identify the vapor control. |
|--------------------|------------------|--------|--|
| | | | |
| | | | |

Operational Data (complete (a) through (g) of this item for all materials stored or to be stored. Attach additional sheets if necessary.)

Process Wastewater

a) Material <50g/L Uranium; <3 Normal HNO₃ Trade Name Filtrate from Slag Leach
 Density: 8.5 lbs/gal or ° API Producer N/A

b) Temperature of stored material: Average AMB °F and Maximum AMB °F
 (If temperature is approximately outdoor ambient temperature, write "AMB".)

c) Vapor pressure of stored material (Complete i, ii, iii of this item. If vapor pressure is not known, write "unknown"):

i.) Actual vapor pressure: 0.4594 psia at average storage temperature
0.4594 psia at maximum storage temperature

ii.) Reid vapor pressure: Average UNK psi and minimum-maximum UNK - UNK psi

iii.) If material stored is a gas or liquified gas, provide the pressure at which it is stored: psi gage at °F

d) Type of liquid organic material (If the material is an organic liquid other than a gasoline, fuel oil, kerosene, crude oil, lubricant or other petroleum liquid, answer the question below.) Not an organic material

Is it a photochemically reactive material? [] Yes [X] No

e) Type of waste material (If the material is a waste, answer the question below.)

Is it a hazardous waste? [X] yes [] No

If yes, identify type (EPA hazardous waste number) D002 D005 D007

f) Indicate the year (or 12-month period) for item (g): 1995 est

g) Annual throughput of material: 2,250 gallons.

Completed by Ervin Fisher, Jr. Reg/Tech Spec. III Date Dec 30, 1994