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G-000-705 .107

RE: CLOSURE PLAN U. S. DEPARTMENT OF ENERGY FEED
MATERIALS PRODUCTION CENTER OH6 890 008 976 (BARIUM
CHLORIDE WASTE SALT TREATMENT PLANT)

09/16/88

USEPA DOE-FN
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COMMENTS

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5

230 SOUTH DEARBORN ST.

CHICAGO, ILLINOIS 60604

SEP 16 1988

REPLY TO THE ATTENTION OF:
5H-12

James A. Reafsnyder, Site Manager
Oak Ridge Operations
U.S. Department of Energy
Post Office Box E
Oak Ridge, Tennessee 37831

RE: Closure Plan
U.S. Department of Energy
Feed Materials Production Center
OH6 890 008 976

Dear Mr. Reafsnyder:

On September 14, 1987, the United States Department of Energy (U.S. DOE) submitted to the U.S. Environmental Protection Agency (U.S. EPA) a closure plan for a barium chloride waste salt treatment plant at the Feed Materials Production Center (DOE/FMPC), located at 7400 Willey Road, Fernald, Ohio. The closure plan, and subsequent revisions, were submitted pursuant to the interim status requirements of the Resource Conservation and Recovery Act (RCRA).

Based upon a review of the facility's submittal and subsequent revisions, the U.S. EPA concludes that the closure plan for the barium chloride waste salt treatment plant meets the closure performance standard of 40 CFR §265.111 and complies with applicable parts of 40 CFR §265, Subpart G. The U.S. EPA approves the closure plan with the conditions stipulated in the Enclosure.

Please be advised that the approval of this interim closure does not release DOE/FMPC from any responsibilities under the Hazardous and Solid Waste Amendments of 1984, regarding corrective action for all releases of hazardous waste or constituents from any solid waste management unit, regardless of the time at which the waste was placed in the unit.

Date Rec'd SEP 20 1988
Librarian
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If you have any questions or comments regarding this approval, please contact Mary Logan of my staff, at (312 or FTS) 886-9288.

Sincerely,

David A. Allrich

for Basil G. Constantelos, Director
Waste Management Division

Enclosures

cc: Tony Sasson, OEPA w/enclosures
Ed Kitchen, OEPA w/enclosures
Paul Vandermeer, OEPA w/enclosures
Ghassan Khaled, OEPA w/enclosures
Don Marshall, OEPA-SWDO w/enclosures
Mary Stone, US/DOE w/enclosures

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Closure Plan Approval Conditions
 Barium Chloride Waste Salt Treatment Plant
 U.S. Department of Energy
 Feed Materials Production Center
 OH6 890 008 976

1. DOE/FMPC shall submit a sampling plan outlining the procedures, equipment and analytical methods used to sample the rinseates generated as a result of decontamination activities. This plan shall be submitted to the U.S. EPA for review and approval (or modification) within 10 days of receipt of this letter.
2. All nonhazardous waste residues, including materials remaining in the tanks and ancillary equipment and decontamination wash waters, shall be managed in a manner consistent with all State and Federal pollution control laws.
3. The decontamination levels for the tanks, ancillary equipment, pumps, filter press and other equipment in the process plant shall be established as follows:
 - a. For any of the equipment or materials which will be taken out of service and rendered unfit for service, the EP Toxicity test can be used to evaluate whether the rinseates indicate that there is no hazardous waste remaining. If the rinseates are below EP Toxic values the equipment may be handled as solid waste.
 - b. For any of the equipment or materials which will be salvaged or remain in service, decontamination will be considered complete when the rinseates contain less than the following values for any metal that exceeded the EP Toxic level for the waste handled:

Arsenic	0.05 mg/l
Barium	1.0 mg/l
Cadmium	0.01 mg/l
Chromium	0.05 mg/l
Lead	0.05 mg/l
Mercury	0.002 mg/l
Selenium	0.01 mg/l
Silver	0.05 mg/l

The analysis should use SW-846 methods for total metals.

4. The concrete floor and all other features of the containment system must be inspected for cracking, chipping, open joints, or other evidence of loss of integrity. If there is evidence of lack of integrity, a plan or assessment must be submitted to U.S. EPA, for approval, to evaluate the potential contamination of underlying soil.

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5. The decontamination levels for concrete flooring and other features of the containment system shall be the levels specified in Condition 3.b, for those metals that exceeded EP Toxic levels in the waste streams. If these levels of decontamination cannot be achieved by cleaning, scrubbing, or grinding the floor, DOE/FMPC may petition for other "clean" levels, if these levels are protective of public health and the environment.
6. If DOE/FMPC cannot clean close the barium chloride waste salt treatment plant, they must modify their closure plan and close in compliance with 40 CFR §265.197 and applicable parts of 40 CFR §265, Subpart G.

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