



**Department of Energy**

**Ohio Field Office  
Fernald Area Office**

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2090

MAR 16 1999

Mr. Gene Jablonowski, Remedial Project Manager  
U.S. Environmental Protection Agency  
Region V, SRF-5J  
77 West Jackson Boulevard  
Chicago, Illinois 60604-3590

DOE- 0544-99

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

Dear Mr. Jablonowski and Mr. Schneider:

**SILO 3 PROJECT REMEDIAL DESIGN DELIVERABLES SCHEDULE**

Enclosed is the Fernald Environmental Management Project (FEMP) Silo 3 Project Remedial Design Deliverables Schedule. This letter and enclosed report meet the March 18, 1999, milestone and requirements established in the approved Remedial Design Work Plan (approved June 17, 1998).

Based on the Silo 3 remediation contractor's schedule (Rocky Mountain Remediation Services), the following are milestone dates for these submittals:

Draft Remedial Design Package for Silo 3 Stabilization	June 1, 2000
Draft Silo 3 Remedial Action Work Plan	May 1, 2001

If you have any questions, please contact Nina Akgündüz at (513) 648-3110.

Sincerely,

Johnny W. Reising  
Fernald Remedial Action  
Project Manager

FEMP:Akgündüz

Enclosure

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## Enclosure

Mr. Gene Jablonowski  
Mr. Tom Schneider

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## cc w/enclosure:

S. Fauver, EM-42/CLOV  
N. Hallein, EM-42/CLOV  
J. Lorence, OH/FEMP  
A. Murphy, OH/FEMP  
D. Yockman, OH/FEMP  
J. Saric, USEPA-V, SRF-5J  
R. Beaumier, TPSS/DERR, OEPA-Columbus  
T. Schneider, OEPA-Dayton (three copies of enclosures)  
F. Bell, ATSDR  
M. Schupe, HSI GeoTrans  
R. Vandegrift, ODH  
F. Barker, Tetra Tech  
AR Coordinator, FDF/78

## cc w/o enclosure:

A. Tanner, OH/FEMP  
T. Hagen, FDF/65-2  
J. Harmon, FDF/90  
R. Heck, FDF/2  
S. Hinnefeld, FDF/31  
D. Paine, FDF/52-4  
S. Peterman, FDF/52-4  
T. Walsh, FDF/65-2  
K. Wintz, FDF/19  
ECDC, FDF/52-7

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**FERNALD ENVIRONMENTAL MANAGEMENT PROJECT**

**SILO 3 PROJECT**

**REMEDIAL DESIGN DELIVERABLES**

**SCHEDULE**

**MARCH 1999**

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**SILO 3 PROJECT  
REMEDIAL DESIGN DELIVERABLES  
SCHEDULE**

**A. Remedial Action Strategy**

On December 18, 1998, a firm fixed price/firm fixed-unit price performance-based service contract was awarded to Rocky Mountain Remediation Services (RMRS), based in Golden, Colorado. This contract was prepared in accordance with the Explanation of Significant Differences (ESD) for the Operable Unit (OU) 4, Silo 3 Remedial Action. RMRS will design and construct a remediation facility, retrieve and treat Silo 3 material, package the treated waste, and shutdown and dismantle the remediation facility. Treatment operations will be conducted at the FEMP.

During the first phase of the contract, RMRS will prepare the design for facilities to be constructed next to Silo 3. A structure will be constructed to access the material through the top of Silo 3. After the material is removed from the silo and transported to the treatment facility, it will be chemically stabilized to bind the regulated metals in the Silo 3 material and meet the disposal facility Waste Acceptance Criteria (WAC). Depending upon the disposal facility WAC, Silo 3 material may be compressed into bricks to minimize the final disposal volume. RMRS' responsibility for the treated Silo 3 waste will not end until Fluor Daniel Fernald (FDF) confirms that the treated waste meets the disposal facility WAC.

On January 15, 1998, FDF issued RMRS Notice to Proceed (NTP) for remediation of the material contained in Silo 3. RMRS services shall include:

- Design, construction, start-up, operation, maintenance, shutdown and dismantlement of any treatment facilities to meet the requirements of the contract;
- Remove, treat, package, and interim staging of the Silo 3 material to meet the requirements of the contract;
- Gross decontamination of the Silo 3 interior;
- Minimize final volume of waste generated for disposal and life-cycle cost to DOE; and
- Perform the work in a safe and environmentally-compliant manner.

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FDF will be responsible for the shipment of the treated and packaged waste to the final disposal facility upon verification by FDF, that the treated waste form meets the WAC.

**B. Remedial Design Submittals Schedule**

In June 1998, the United States Environmental Protection Agency (U.S. EPA) and Ohio Environmental Protection Agency (OEPA) approved the Silo 3 Project Remedial Design Work Plan (RDWP), which defined the enforceable milestones for design of the remediation process. These milestones would be specified based in RMRS' schedule.

RMRS has begun the document submittal process and has provided a schedule identifying submittal dates for the required design deliverables, which FDF has reviewed and accepted. Based on this schedule, the milestone dates for submittals to your agencies are the following:

Draft Remedial Design Package for Silo 3 Stabilization	June 1, 2000
Draft Silo 3 Remedial Action Work Plan	May 1, 2001

As RMRS submits the design deliverables, FDF will ensure that the requirements, as set forth in the contract, are incorporated into the design and planned operations. As the project progresses, FDF will maintain the involvement of the regulators and Stakeholders.

**C. Remedial Design Package**

As noted in the approved RDWP, the Remedial Design Package will contain substantive information from the comprehensive documents prepared by RMRS pursuant to the contract. The Remedial Design Package will include the following information:

- Design documentation;
  - Silo 3 retrieval technology description
  - Process description
  - Process flow diagram
  - Heat and material balance
  - General arrangement drawing
  - Design specifications
  
- Applicable or Relevant and Appropriate Requirements (ARAR) compliance strategy and substantive permit requirements (a "permitting crosswalk");

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- Description of site preparation activities including methods and materials used to control erosion, dust, and stormwater and minimize the impact of activities on the environment;
- Detailed description of process operations;
- Process Control Plan;
- Description of Health and Safety Controls for operations;
- Contingency Plan;
- Sampling and Analysis Plan;
- Operational Environmental Control Plan (which includes waste management); and
- Operational description of FDF's responsibility for transportation and disposal of treated waste.

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***D. Remedial Action Work Plan (RAWP)***

Following approval of the Remedial Design Package by the EPAs, an RAWP will be prepared and submitted to the EPAs. This plan will specify the implementation strategy and the milestones for the Remedial Action phase of the Silo 3 Project.