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2-208.11<sup>9</sup>

**OU 2 PRELIMINARY DESIGN PACKAGE FOR THE ON-SITE DISPOSAL FACILITY**

**02/15/96**

**USEPA  
10  
OU2**

**DOE-FN**



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 5  
77 WEST JACKSON BOULEVARD  
CHICAGO, IL 60604-3590

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REPLY TO THE ATTENTION OF:

FEB 15 1996

Mr. Johnny W. Reising  
United States Department of Energy  
Feed Materials Production Center  
P.O. Box 398705  
Cincinnati, Ohio 45239-8705

SRF-5J

RE: OU 2 Preliminary  
Design Package for  
the On-Site  
Disposal Facility

Dear Mr. Reising:

The United States Environ-  
ment completed its review of  
(U.S. DOE) Operable Uni-  
Design Package for the  
design package included  
technical specification

Overall, the package wa-  
package adequately conf-  
requirements and genera-  
has several comments.

Therefore, U.S. EPA  
package. U.S. DOE  
addressing U.S. EPA's  
receipt of this letter

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Agency (U.S. EPA) has  
Department of Energy's  
Design (RD) Preliminary  
all. The preliminary  
design calculations,  
gs.

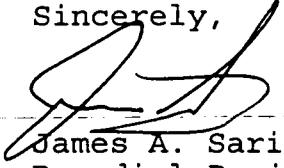
1. Although the design  
of Decision, regulatory  
ing practices, U.S. EPA

2 preliminary design  
ment response document  
within thirty (30) days

-2-

Please contact me at (312) 886-0992 if you have any questions regarding this matter.

Sincerely,



James A. Saric  
Remedial Project Manager  
Federal Facilities Section  
SFD Remedial Response Branch #2

Enclosure

cc: Tom Schneider, OEPA-SWDO  
Jack Baublitz, U.S. DOE-HDQ  
Don Ofte, FERMCO  
Charles Little, FERMCO  
Terry Hagen, FERMCO  
Michael Yates, FERMCO







completion. The text also states that, depending on the availability of funding, the implementation period could either be as little as 7 years or increase to 25 years or more. Text should be added to address how changes in the assumed implementation period will impact key elements of the design.

Commenting Organization: U.S. EPA  
 Section #: Appendix B Page #: 3-3  
 Original Specific Comment #: 6

Commentor: Saric  
 Line #: 15-19

~~Comment: - The text provides specifications for the haul road.~~  
 The haul road will be subject to heavy loads throughout remedial action activities. The text should include information regarding the haul road's load capacities or limits.

Commenting Organization: U.S. EPA  
 Section #: Appendix B Page #: 8-1  
 Original Specific Comment #: 7

Commentor: Saric  
 Lines #: 1 through 12

Comment: The project milestone dates indicated in this section differs from the milestone dates presented in the remedial design work plan. The milestone dates in this section indicate submittal of documents sooner than indicated in the work plan. The dates should be checked and adjusted if incorrect.

Commenting Organization: U.S. EPA  
 Section #: Appendix F Page #: NA  
 Original Specific Comment #: 8

Commentor: Saric  
 Line #: NA

Comment: Appendix F consists of a table that provides the quantities of soil and rubble from each operable unit (OU) that will be disposed of in the OSDF. The table should be revised to include the following information: units associated with the quantities provided, quantities of remediation waste requiring interim storage or staging, and quantities of investigation-derived waste. Text should be added to Appendix F to provide the following information: the purpose of the tables, a description of the method used to determine these quantities, a description of the relative accuracy of the quantities, a definition of the material categories of soil and rubble, and an explanation of how the material quantities will be monitored and updated.

A draft final copy of Table 7-3 from the OU5 feasibility study is included in Section 15.1 of the PD calculation package. Table 7-3 provides material quantities in cubic yards for OU2 through OU5. The text to be added to Appendix F should explain the discrepancies between the material quantities in Table 7-3 and the quantities in the Appendix F table.

**Preliminary Design Calculation Package**

Commenting Organization: U.S. EPA

Commentor: Saric

Section #: 12.2 Page #: 1 of 2

Line #: NA

Original Specific Comment #: 9

Comment: The conclusion section of the perimeter berm flow protection calculations states that the crest of the flood protection berm on the west side of the OSDF should be constructed to a minimum elevation of 596.0 feet above mean sea level (amsl). Drawing G-41, Detail 55, presents a profile of the top of the west perimeter berm. A low elevation at point of vertical intersection (PVI) station 39 + 18 indicates an elevation of 591.46 feet amsl. This elevation is 4.5 feet lower than the elevation of 596.0 feet amsl. In addition, an area approximately 1,500 feet long along the perimeter berm is below the 596-foot amsl elevation. This discrepancy should be addressed and corrected.

Commenting Organization: U.S. EPA

Commentor: Saric

Section #: 15.1 Page #: 5 of 15

Line #: NA

Original Specific Comment #: 10

Comment: Section 15.1 provides data verification for the required OSDF volume. Page 5 of 15 identifies the values for material composition fractions (F1 through F6). These values were obtained by dividing the impacted material volume for each material category from Table 7-3 of the OU5 draft feasibility study by the total volume of the OSDF (2.5 million cubic yards). The material composition fractions are incorrect, subsequently affecting the calculation of the OSDF's required volume. The correct material composition fractions are identified below:





Drawing #: G-61                      Page #: NA                      Line #: NA  
Original Specific Comment #: 17  
Comment: The type of grate for the equipment decontamination facility should be specified in the drawing and in text discussing this facility.

Commenting Organization: U.S. EPA                      Commentor: Saric  
Drawing #: G-61                      Page #: NA                      Line #: NA  
Original Specific Comment #: 18  
Comment: The welded wire designations in details 91, 92, and 93 do not comply with ASTM Method A615 Grade 60 as called for by Note 3 on Sheet G61. Typically, welded wire should comply with ASTM Method A185. The welded wire designation should be checked and clarified. Grade 60 welded wire may not be adequate reinforcement for an 8-inch thick concrete slab and should be reviewed.