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**OPERABLE UNIT 4 PRELIMINARY DESIGN PACKAGE FOR UNDERGROUND
UTILITIES/SITE PREPARATION**

10/04/95

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RESPONSE



Department of Energy
Fernald Environmental Management Project
P. O. Box 398705
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OCT 04 1995

DOE-1581-95

Mr. James A. Saric Remedial Project Manager
U.S. Environmental Protection Agency
Region 5 - HRE-8J
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

Mr. Thomas A. Schneider
Ohio Environmental Protection Agency
401 East Fifth Street
Dayton, Ohio 45402-2911

Dear Mr. Saric and Mr. Schneider:

OPERABLE UNIT 4 PRELIMINARY DESIGN PACKAGE FOR UNDERGROUND UTILITIES/SITE PREPARATION

In response to your September 14, 1995, memorandum, "Approval of OU4 Preliminary Design Package for Underground Utilities," the Department of Energy, Fernald Area Office is providing the following information:

The design basis used to develop the flow details shown in the utility flow diagrams, can, for the most part, be found in the Design Criteria Package which was approved by the U.S. Environmental Protection Agency (U.S. EPA) on September 21, 1995. To summarize, the design basis is based on 3 - 8 tons/day capacity melters for a total of 24 tons/day; domestic water and sanitary flow is based on 35 individuals working in the facility at any one time; firewater at 1000 gallons per minute (gpm); and 150 gpm required for process water (9 gpm (used in the pilot plant) times 24 tons/day with intermittent flow at 0.6 hours/day).

Approximate coordinates of the benchmarks that will be used for the layout of the plant and associate utilities are indicated on the Pre-Final Civil Site Plan submitted to the U.S. EPA on August 31, 1995. However, the exact coordinates and elevations of these benchmarks would best be determined in the field, immediately after installation. A revised drawing showing the exact coordinates and elevations would then be issued to the construction subcontractor.

If you have any additional comments on the design package, please contact Randi Allen at (513) 648-3102.

Sincerely,

Susan M. Reising for JWR

Johnny Reising
Fernald Remedial Action
Project Manager

FN:Allen

cc:

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