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*APPROVAL OF SOUTH PLUME GROUNDWATER
PUMP TEST WORK PLAN*

05/28/93

*USEPA/DOE-FN
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LETTER*



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

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REPLY TO THE ATTENTION OF:

Mr. Jack R. Craig
United States Department of Energy
Feed Materials Production Center
P.O. Box 398705
Cincinnati, Ohio 45239-8705

HRE-8J

RE: Approval of South Plume
Groundwater Pump Test Work Plan

Dear Mr. Craig:

The United States Environmental Protection Agency (U.S. EPA) has completed its review of the South Plume Groundwater Recovery System Pump Test Work Plan. The Plan adequately accomplishes the objectives of the pump test. However, U.S. EPA has a few minor comments concerning the test.

Therefore U.S. EPA approves the Work Plan pending incorporation of the attached comments.

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

Sincerely,

James A. Saric
Remedial Project Manager

cc: Graham Mitchell, OEPA-SWDO
Pat Whitfield, U.S. DOE-HDQ
Nick Kaufman, FERMCO
Jim Thiesing, FERMCO
Paul Clay, FERMCO

TECHNICAL REVIEW COMMENTS ON
SOUTH PLUME PUMP TEST WORK PLAN

MARCH 1993

General and specific comments on the "South Plume Groundwater Recovery System Pump Test Work Plan" for the Fernald Environmental Management Project (FEMP) are presented below. In general, the document is technically sound and the procedures described should meet the objectives of the pump test.

General Comments

1. The references to the groundwater sampling and analysis procedures are identified in Table 2-8, and the sampling procedures are included in Attachment B; however, no discussion of when groundwater sampling should be performed is included in the text. This discussion should be added to Section 2.3.4.
2. Procedures for staff gauge and stilling well installation and for surface water level measurement are not included in the work plan and should be added.
3. It is unclear what measurement intervals will be selected for the staff gauges and stilling wells. The measurement intervals for staff gauges and stilling wells should be specified in the work plan.

Specific Comments

1. Sections 2.3.4 and 2.3.5, Pages 2-15 and 2-16. Analyses other than sieve analysis that will be performed for split-spoon and core soil samples should be specified. In addition, the laboratory test procedures associated with such analyses should be added to Table 2-5.

2. **Section 2.5.1, Page 2-27.** The type of computer software, if any, that will be used for the aquifer parameter calculations should be specified.
3. **Figure 2-2.** Secondary observation wells 2543 and 2548 are listed in Table 2-3 but are not shown in Figure 2-2. These wells should be added to Figure 2-2.
4. **Figure 2-4.** The recovery test should be added to the pump test schedule.