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**MODIFICATIONS TO THE OPERABLE UNIT 1
TREATABILITY STUDY WORK PLAN OF
OCTOBER 1991**

**DOE-FN/EPA
DOE-1720-93
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LETTER**



Department of Energy
Fernald Environmental Management Project
P.O. Box 398705
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APR 19 1993

DOE-1720-93

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

Mr. Graham E. Mitchell, Project Manager
Ohio Environmental Protection Agency
40 South Main Street
Dayton, Ohio 45402-2086

Dear Mr. Saric and Mr. Mitchell:

This letter is to notify you of modifications being made to the Operable Unit 1 Treatability Study Work Plan dated October 1991. The following technical changes will be incorporated:

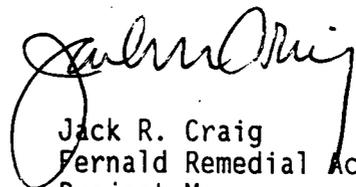
The Advanced Stage II testing will not be performed since results from the Preliminary Phase and the Advanced Phase Stage I testing for cement solidification and vitrification are sufficient. Sufficient data supporting these treatment alternatives have been developed through the Advanced Stage I portion of the program to support evaluation in the CRUI Feasibility Study. Formulation and waste form development has been successful and preliminary criteria met or exceeded. Further refinement of treatment alternatives will be carried out during pilot studies.

The optional phase testing involving wet/dry and freeze/thaw testing of the cement waste forms will be carried out on the Advanced Stage I formulations. All cement waste forms have met preliminary criteria for leachability and compressive strength with the exception of the Pit 4 samples. Due to the high uranium concentrations present in Pit 4, cement solidification would appear not to be an applicable treatment for Pit 4. Two formulations for each pit will be tested for wet/dry (ASTM D4843) and freeze/thaw (ASTM D4842) durability totaling 170 samples in all. The testing will be performed by the University of Cincinnati.

All other test work specified in the work plan has been performed. Results from these and other ongoing treatability studies will be incorporated in the Operable Unit 1 (OU1) Treatability Report. The OU1 Treatability Report is tentatively scheduled to be submitted to the Department of Energy in October 1993.

If you or your staff have any questions or comments, please contact Dave Lojek at 513-648-3127.

Sincerely,



Jack R. Craig
Fernald Remedial Action
Project Manager

FN:Hall

cc:

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