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**APPROVAL OF THE DIRECT SHEAR TESTING WORK PLAN**

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APPROVAL

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 18 1995

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

SRF-5J

RE: Approval of the Direct  
Shear Testing Work Plan

Dear Mr. Reising:

The United States Environmental Protection Agency (U.S. EPA) has completed its review of the United States Department of Energy's (U.S. DOE) Soil-Geosynthetic Interface Direct Shear Testing Work Plan. The work plan details laboratory interface and direct shear testing for components of the liner and final cover systems of the On-site Disposal Facility (OSDF).

The site-specific clay soil-geosynthetic clay liner (GCL) interface tests, the GCL-geomembrane interface tests, and the GCL-internal shear tests described in the work plan adequately provide design data for the OSDF. The normal loads and the shear displacement rates proposed for the tests also appear reasonable. The moisture content and relative compaction percentages proposed for the clay soil specimens also represent the conditions that will be encountered during the construction of the OSF.

Figure 2-1 should show the location from which the supplemental samples of clay soil will be collected and an explanation as to why GeoSyntec plans to perform such tests on the geosynthetic materials.

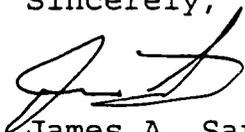
Therefore, U.S. EPA approves the work plan pending incorporation of responses to the above comments being incorporated into a revised document. Changed pages will be adequate to finalize this work plan. U.S. DOE must submit responses to comments and change pages within thirty (30) days receipt of this letter.

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part. of  
action  
response  
to DOE-0428-96  
(9407)

-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

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