

Dr. English C. Percy, Element Manager
Geohydrology and Geochemistry
Center for Nuclear Waste Regulatory Analyses
6220 Culebra Road, Building 189
San Antonio, Texas 78238-5166

November 20, 2000

SUBJECT: ACCEPTANCE OF INTERMEDIATE MILESTONE 20.01402.562.100,
"SOFTWARE REQUIREMENTS DESCRIPTION FOR THE COMPUTER CODE
MULTIFLO VERSION 2.0"

Dear Dr. Percy:

You submitted the deliverable, "Software Requirements Description for the Computer Code MULTIFLO Version 2.0" to me by your letter dated October 30, 2000. This submission was in fulfillment of Intermediate Milestone 20.01402.561.100. The deliverable was received on November 2, 2000, fifteen days before its due date. The U.S. Nuclear Regulatory Commission staff has completed its technical and programmatic review of the subject document. This document is acceptable and fulfills the requirements set forth in the fiscal year 2001 interim Operations Plans for the Evolution of the Near-Field Environment (ENFE) Key Technical Issue (KTI). This deliverable contains no pre-decisional information and will be made publicly available.

The letter that transmitted the deliverable, as well as the deliverable report, shows how the proposed modifications to the MULTIFLO code will support issue resolution and review activities in several different KTIs. I approve of all the proposed modifications except for the addition of the surface complexation model.

The addition of the surface complexation model would not be consistent with the NRC's risk-informed, performance-based regulatory approach. For example, while the surface complexation model is a more realistic approach, data to support implementation of the model only exists for radionuclides that are not significant to risk at Yucca Mountain. Thus, I request that you undertake no work at this time to develop the surface complexation model for the MULTIFLO code. If you or the author of the deliverable have any questions, please contact me at (301) 415-6652.

Sincerely,
/ra/

Bret W. Leslie
Program Element Manager
High-Level Waste Branch
Division of Waste Management
Office of Nuclear Material Safety
and Safeguards

cc: J. Linehan
B. D. Meehan

Dr. English C. Pearcy, Element Manager
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