

Center for Nuclear Waste Regulatory Analyses

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Contract No. NRC-02-93-005
Project No. 20-5708-562

U.S. NUCLEAR REGULATORY COMMISSION
ATTN: Dr. Bret Leslie
Program Element Manager
Division of Waste Management
Mail Stop T7C-6
Washington, DC 20555

SUBJECT: Intermediate Milestone 20-5708-562-631, User's Manual for MULTIFLO:
Part II-MULTIFLO 1.0 and GEM 1.0, Multicomponent-Multiphase Reactive
Transport Model, CNWRA 96-010

Dear Dr. Leslie:

Enclosed is the subject report, User's Manual for MULTIFLO: Part II-MULTIFLO 1.0
and GEM 1.0, Multicomponent-Multiphase Reactive Transport Model, CNWRA 96-010,
Intermediate Milestone 20-5708-562-631. This submittal completes the requirements
of the intermediate milestone.

We plan to transmit the complete METRA and GEM software, which together
constitute MULTIFLO, early in the next fiscal year, followed by a training
session. METRA calculates the thermohydrological parameters, while GEM computes
the reactive transport aspect of the problem. The codes may be used in stand-
alone or coupled mode.

If you need more information or have questions, please contact Peter C. Lichtner
at (210) 522-6084.

Sincerely yours,

Narasi Sridhar
Narasi Sridhar
Element Manager
Engineered Barrier System

NS/blg

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