

July 13, 2000

Dr. Stephan J. Brocoum, Assistant Manager
Licensing and Regulatory Compliance
U.S. Department of Energy
Yucca Mountain Site Characterization Office
P.O. Box 30307
North Las Vegas, NV 89036-0307

SUBJECT: TRANSMITTAL OF MULTIFLO CODE (VERSION 1.2.1) AND REQUEST FOR
SOLID-CENTERED FLOW-THROUGH (SCFT) VERSION OF EQ6 CODE

Dear Dr. Brocoum:

In your June 21, 2000, letter to C. William Reamer, you requested a copy of the most current version of the U.S. Nuclear Regulatory Commission's (NRC's) MULTIFLO computer code and its documentation. Your request for MULTIFLO included both an executable version of the computer code and the source code.

I am pleased to send the U.S. Department of Energy (DOE) the latest version of the MULTIFLO code (Version 1.2.1, both source code and an executable version) and its documentation. As requested by your staff, the package containing the code and its documentation (two compact disks) will be sent directly to CRWMS M&O Software CM, 1180 Town Center Drive, Mail Stop 418, Las Vegas, Nevada 89144. We will notify DOE as future versions of the MULTIFLO code are developed and become available.

MULTIFLO has been copyrighted by the Center for Nuclear Waste Regulatory Analyses (CNWRA) on behalf of the NRC. Consequently, there are restrictions on the fields of use where you and your contractors may employ this code. The CNWRA licensing agreement transmitted to you in a letter from Reamer to Brocoum (dated 10/7/99) delineates those restrictions.

Our review of preliminary documents supporting DOE's Site Recommendation Consideration Report indicates the Solid-Centered Flow-Through (SCFT) Version of the EQ6 code is critical to understanding and predicting in-package fluid chemistry. We request the SCFT Version of the EQ6 code (source code and executable version) be provided to this office. In addition, we request that the input and output data files (MOL.20000127.0045) used to predict in-package fluid chemistry be provided. Receipt of the SCFT Version and supporting files will greatly facilitate issue resolution of the Evolution of the Near Field Environment Key Technical Issue.

S. Brocoum

-2-

If you have any further questions regarding the MULTIFLO code or its documentation or our request for the SCFT Version of EQ6, please contact Bret Leslie of my staff at (301) 415-6652 or by e-mail at bwl@nrc.gov.

Sincerely,

/ra/

Elmo E. Collins, Acting Chief
High-Level Waste Branch
Division of Waste Management
Office of Nuclear Material Safety
and Safeguards

cc: See attached list

Letter to S. Brocoum from E. Collins dated: July 13, 2000

cc: R. Loux, State of Nevada
S. Frishman, State of Nevada
L. Barrett, DOE/Wash, DC
A. Brownstein, DOE/Wash, DC
S. Hanauer, DOE/Wash, DC
C. Einberg, DOE/Wash, DC
D. Shelor, DOE/Wash, DC
N. Slater, DOE/Wash, DC
R. Dyer, YMPO
S. Brocoum, YMPO
R. Clark, YMPO
C. Hanlon, YMPO
T. Gunter, YMPO
G. Dials, M&O
J. Bailey, M&O
D. Wilkins, M&O
M. Voegele, M&O
S. Echols, Winston & Strawn
B. Price, Nevada Legislative Committee
J. Meder, Nevada Legislative Counsel Bureau
D. Bechtel, Clark County, NV
E. von Tiesenhausen, Clark County, NV
A. Kalt, Churchill County, NV
G. McCorkell, Esmeralda County, NV
L. Fiorenzi, Eureka County, NV
A. Remus, Inyo County, CA
B. Duke, Lander County, NV
J. Pitts, Lincoln County, NV
J. Wallis, Mineral County, NV
L. Bradshaw, Nye County, NV
M. Murphy, Nye County, NV
J. McKnight, Nye County, NV
N. Stellavato, Nye County, NV
B. Ott, White Pine County, NV
D. Weigel, GAO
W. Barnard, NWTRB
R. Holden, NCAI
C. Williams, NIEC
R. Arnold, Pahrump County, NV
J. Lyznicky, AMA
R. Clark, EPA
F. Marcinowski, EPA
R. Anderson, NEI
R. McCullum, NEI
S. Kraft, NEI
J. Kessler, EPRI
R. Wallace, USGS
R. Craig, USGS
W. Booth, Engineering Svcs, LTD
J. Curtiss, Winston & Strawn