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MEMORANDUM FOR: Malcolm R. Knapp
High-Level Waste Licensing
Management Branch
Division of Waste Management
FROM: Matthew J. Gordon
High-Level Waste Licensing
Management Branch
Division of Waste Management
SUBJECT: STRATEGY MEETING WITH MARK LOGSDON, MIKE WEBER AND
MATTHEW GORDON

RE Browning
MJ Bell
MJ Gordon & r/f
MF Weber
M Logsdon
HJ Miller
PS Justus
JT Greeves
JOBunting
PDR

April 4, 1983

Mark Logsdon, Mike Weber and myself met on April 4, 1983 (8:30 to 9:30 AM) to discuss performance assessment strategy and resource allocations for the coming year. The conclusions of our meeting are listed below.

Highest Priority

1. WMHL should perform a final benchmarking run against PORFLO using newly obtained DOE information. This will support all future non-isothermal use of SWIFT.
2. A set of comparison runs of the SWIFT 2-D model in steady-state, pre-placement conditions, vs. the "analytic" runs documented in Appendix D, should be executed. Golder may perform all of this work, or Golder and WMHL divide the work.
3. M. Logsdon will obtain progress reports on the regional modeling task force meetings in Washington State.
4. A hydrology workshop should take place before June 1 to obtain new data and information from DOE.
5. M. Weber and I will discuss needs and strategies for a more detailed definition of "disturbed zone" with you on Wednesday, April 7.

High Priority

1. WMHL should perform an updated critical appraisal of the Lehman and Quinn model.

OFC	: WMHL	: WMHL	: WMHT	:	:	:	:
NAME	: MJGordon	: lmc	: MFWeber	: MLogsdon	:	:	:
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- 2. WMHL should exercise NWFT/DVM on set of possible flow paths determined from final 2-D analytic runs (Appendix D). This will occur after SWIFT 2-D has verified the Appendix D results (Highest Priority #2). The analysis will test sensitivity to chemical parameters, using the selected flow path set to provide bounding cases.
- 3. WMHL should attain capability of exercising SWIFT in 3-D, small-scale, polar geometry to perform pump test analyses on new cluster test data from BWIP.
- 4. WMHL should expand our particle tracking codes to allow transient case tracking.

Middle Priority

- 1. WMHL should evaluate effects of future pumping using large-scale SWIFT 3-D model, and support model with data and valid forecasting techniques.
- 2. WMHL should quantify round-off error present in SWIFT/BNL runs, using hydrostatic simulation model.

Low Priority

- 1. WMHL should modify 3-D large scale model by incorporating thermal effects for the purpose of evaluating the boundary effects of our 2-D model.

Simultaneously, WMHL and WMHT should be getting into position to evaluate tuff and salt sites. We expect that M. Weber may begin focusing more strongly on salt sites while providing backup to me on basalt and to P. Ornstein on tuff. I expect to focus on basalt and provide backup to M. Weber on salt and P. Ornstein on tuff.

M. Weber and I will be prepared to discuss these topics, and our OPS Plan report, on Wednesday, April 6, with you and/or Dr. Bell.

Original Signed By:

Matthew J. Gordon
High-Level Waste Licensing
Management Branch
Division of Waste Management

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