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WMHT: <sup>101</sup>3109-2

MEMORANDUM TO: Michael J. Bell, Chief  
High-Level Waste Licensing  
Management Branch  
Division of Waste Management

THROUGH: Hubert J. Miller, Chief  
High-Level Waste Technical  
Development Branch  
Division of Waste Management

FROM: Robert J. Wright, Senior  
Technical Advisor  
High-Level Waste Technical  
Development Branch  
Division of Waste Management

SUBJECT: PERFORMANCE ASSESSMENT'S TASKS AT BWIP PRIOR TO SCR RECEIPT

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The activities described in your memorandum of March 2 have been reviewed by members of the BWIP team and by consultants Adrian Brown and Roy Williams. Their views are incorporated into the priority list of performance assessment tasks that is presented below.

The list is ordered according to relative interest to WMHT during the present period of preparation for the SCR. No particular attention has been given to the distinction between in-house tasks and contractor tasks.

Ellen Quinn cooperated in preparation of the listed tasks. Some correspond to specific activities in the March 2 memorandum, whereas others represent modifications thereof. Where appropriate, reference is made to the memorandum.

Priority List of Performance Assessment Tasks

- (1) Continue to update the present model as additional data become available. As one example, a southwest head gradient is

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reported in the Elephant Mountain area, according to RHO ST-38. As another example, temperature and chemical data on waters is expected to be forthcoming. These will need to be plugged in. Also, the capability for separate analysis of these data sets should be developed to provide independent checks on groundwater flow paths.

- (2) Develop the modeling capability to duplicate the hydrostratigraphic units used by RHO.
- (3) Sensitivity analyses of  $K_v/K_h$ :
  - a. over entire Pasco Basin
  - b. under anticlines
  - c. under the river
  - d. within the discontinuities and barriers

Note: this refers to item 2A, page 3.

- (4) Well testing, as described on page 4.
- (5) Scenario analyses as expected to be presented in the SCR, either in the text or by reference (eg. RHO ST-12). This refers to items 1A, 1B, 1C, 1D, on page 2.
- (6) Modify the model to determine the effect of the proposed Columbia Fault. This refers to item 1 in the lower half of page 3.
- (7) Set up NWFT/DVM grid, per item 3, page 4.
- (8) Sensitivity analyses, per item 4, page 4.

The memorandum of March 2 is useful to WMHT in describing the range and scope of performance activities that could be useful in the BWIP studies. Thank you.

ORIGINAL SIGNED BY

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