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"NRC Technical Assistance
for Design Reviews"
Contract No. NRC-02-85-002
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Dear Naïem:

During the week of 6-10 March 1989, a discussion was held at the NRC concerning the documentation of Itasca codes for high-level waste management. Itasca codes FLAC, UDEC and 3DEC have been, and will be, used extensively in review analysis by the NRC for the high-level waste repository program. These codes and, in particular, the distinct element codes UDEC and 3DEC, provide an explicit analysis of jointed and faulted rock behavior and may be required by the NRC to best evaluate the modeling approach selected by DOE for NNWSI. Therefore, thorough documentation of these codes, in accordance with NRC requirements, should be performed so that these codes meet the same guidelines as those required for computer codes used by DOE.

The first step in this process was identified to be provision of documentation for the codes which meets the guidelines specified by NUREG-0856, "Final Technical Position on Documentation of Computer Codes for High-Level Waste Management". NUREG-0856 requires documentation of a computer code in five categories:

- (1) software summary;
- (2) description of mathematical models and numerical methods;
- (3) user's manual;
- (4) code assessment and support;
- (5) continuing documentation and code listings.

Partial documentation of Itasca codes in each of these categories has been performed already. In order to satisfy NUREG-0856

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