8/3/87

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Mr. Roger Hart ITASCA Consulting Group P.O. Box 14806 Minneapolis, MN 55414

Dear Mr. Hart:

ITASCA should perform the following work under the contract entitled, "Technical Assistance for Design Reviews" (NRC-02-85-002, FIN D1016).

## TASK ORDER 001

## Meetings:

1. ITASCA should send two senior engineers to a meeting to discuss the creep model in FLAC and the Stress3d code during August, 1987 in Silver Spring, Maryland (note: a trip was approved for July 22 and 23 for one senior engineer to discuss stress3d and the rock burst potential at BWIP point paper).

## Document Reviews

Itasca should review the following NNWSI documents.

- 1) "Thermomechanical Analysis of Underground Excavations in the vicinity of a Nuclear Waste Isolation Panel", C.M. St. John, SAND84-7208.
- 2) "Sensitivity Analyses of Underground Drift Temperature, Stresses, and Safety Factors to Variation in the Rock Mass Properties of Tuff for a Nuclear Waste Repository Located at Yucca Mountain, Nevada" B.L. Ehgartner, SAND86-1250.
- 3) "Analysis of Horizontal Waste Emplacement Boreholes of a Nuclear Waste Repository in Tuff", K.Aruimoli and C.M. St. John, SAND86-7133.
- 4) "Thermal Analysis of Spent Fuel Disposal in Vertical Emplacement Boreholes in a Welded Tuff Repository", C.M. St. John, SAND84-7207
- 5) "Investigation of Excavation Stability in a Finite Repository", C.M. St. John, S.J. Mitchell, SAND86-7011
- 6) "Reference Thermal and Thermal/Mechanical Analyses of Drifts for Vertical and Horizontal Emplacement of Nuclear Waste in a Repository in Tuff", C.M. St. John, SAND86-7005
- 7) "Near Field Mechanical Calculations Using a Continuum Jointed Rock Model in the JAC Code", R.K. Thomas, SAND83-0070

87219671 WM Project: WM-10, 11, 16 PDR yes (Return to WM, 623-SS)	WM Record File: D1016 LPDR yes	WM Record File DIDIL  THASCA  Distribution:	WM Project 10, 11, 16  Docket No.  PDR  LPDR  (B, N, 5)
8709090150 870803 PDR WMRES EECITAS D-1016 PDR	3916	(Return to WM, 623-SS)	

The review of each document should take no more than 3 person days. Instructions for the reviews can be found in the attached note (Tiktinsky to Nataraja, 7/28/87).

The action taken by this letter is considered to be within the scope of the current contract NRC-02-85-002. No changes to costs or delivery of contracted products are authorized. Please notify me immediately if you believe this letter would result in changes to costs or delivery of contracted products. I can be reached on (301) 427-4649.

Sincerely,

## ORIGINAL SIGNED BY

David H. Tiktinsky
Technical Review Branch
Division of High-Level Waste Management
Office of Nuclear Material Safety
and Safeguards

cc: M. Little, NRC