

January 9, 1997

STATEMENT OF WORK FOR ROBERT TERHUNE

Work will include participation in the review of CNWRA and DOE documents that deal with finite element modeling of earth processes, on an as needed basis. In addition, support in the identification and provision of information and guidance on the availability of EOS and other physical property measurements of tuffs and other rock types.

LIST OF ELIGIBLE CONSULTANTS WHO WILL RESPOND TO RFP

This is a narrow field in which most scientists with equivalent experience are associated with DOE laboratories.

RATIONALE FOR NOT USING ANOTHER SWRI DIVISION'S RESOURCES

Mr. Terhune has been selected as a consultant because employees in other SwRI divisions do not have the necessary experience in the application of finite element modeling to earth materials.

RATIONALE FOR FEE

Estimated total number of Hours: 40

Hourly rates: :

Mr. Terhune is a well known numerical analyst in the field of underground nuclear phenomenology. His hourly rate of an hour is consistent with the rate charged by consultants in other areas with equivalent background, experience, and expertise.

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Robert Terhune

September 30, 1999

STATEMENT OF WORK

The tasks include serving as an outside reviewer for CNWRA generated documents concerning numerical modeling of deformation of earth and man-made materials in response to static and dynamic forces. In addition, tasks may include searching and obtaining documents from LLNL Library.

SUPPORT FOR CONTRACTOR REQUEST

CONTRACTOR: Robert Terhune

RATE (dollars/hour):

PERIOD OF PERFORMANCE:

November 1, 1999 to October 31, 2000

STATEMENT OF WORK:

Mr. Terhune pioneered the use of finite element calculations to understand the phenomenology of underground nuclear explosions. He has authored and co-authored a number of papers related to the analysis of the containment of underground nuclear explosions including cratering. In addition, Mr. Terhune is knowledgeable in the area of the EOS measurements on earth materials.

ESTIMATED UTILIZATION (hours):

80 hours

PRIOR CONTRACTOR WORK EXPERIENCE WITH SwRI:

Yes, since approximately 1995.

PROGRAMMATIC NEED FOR CONTRACTOR WORK:

With his experience with numerical modeling, Mr. Terhune provides CNWRA with expertise and experience to perform outside reviews of both CNWRA and DOE work.

LIST OF ELIGIBLE CONSULTANTS CONSIDERED: None

RATIONALE FOR SOLE/SINGLE SOURCE SELECTION:

Most people with similar experience are working for DOE.

RATIONALE FOR NOT USING SwRI RESOURCES:

No SwRI employee has similar experience especially with regards to experience in modeling earth materials.

PROJECT NUMBER(S): 20.01402.461 and 20.01402.471