

CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

MEMORANDUM

March 1, 1995

TO: Wesley C. Patrick, President
FROM: H. Lawrence McKague, Manager, Geologic Setting Element
SUBJECT: Consultant Service Contract for Dr. Alan Paul Morris

The following information is submitted in connection with this request for the subject consultant.

RATIONALE FOR CONTRACT:

Dr. Morris will actively participate in Tectonics Research which will include tectonic field studies, 2D and 3D tectonic modeling, and development of slip- and dilation-tendency analysis techniques. Dr. Morris has expertise and extensive recent experience in application of computer aided structural modeling to the solution of geologic problems in both academia and industry. Dr. Morris is utilized in a problem solving mode on an interim basis and will continue to participate in the tectonic modeling using Earth Vision, 3-D Move and GeoSec Software.

PROJECT NUMBERS(S):

20-5702-425
20-5704-162
20-5704-163
20-5704-164
20-5704-166
20-5704-167

DAYS/HOURS REQUIRED:

About 600 hours of the consultant's time will be required over the next 12 months.

HLM/cg

SUPPORT FOR CONSULTANT/SUBCONTRACTOR REQUEST

May 29, 1998

CONSULTANT/SUBCONTRACTOR:

Dr. Alan Morris

RATIONALE FOR USING AND PROGRAMMATIC IMPACT OF NOT USING CONSULTANT/ SUBCONTRACTOR:

Dr. Morris is experienced in the area of structural geology and in the application of cross section balancing software. In addition, Dr. Morris has field experience in the Yucca Mountain region. Without Dr. Morris' participation several tasks will be delayed or reduced in scope.

STATEMENT OF WORK:

Work for Alan Paul Morris will consist of a variety of activities in which he will participate on an as needed basis to supplement of structural geology staff.

Potential activities may include:

- technical review of reports in his areas of expertise
- assistance in preparation of reports in his area of expertise
- development of conceptual tectonic models
- participation in tectonic field studies
- construction of balanced geologic cross-sections using GeoSec and 3DMove
- assist in further development and modification of 3DSTRESS and 3DSTRESS-PC

LIST OF ELIGIBLE CONSULTANTS/SUBCONTRACTORS CONSIDERED:

None.

RATIONALE FOR SOLE/SINGLE SOURCE SELECTION:

Dr. Morris has a strong background in the application of cross section balancing software to the Yucca Mountain Region has participated extensively in the development and planning of 3DStress.

RATIONALE FOR NOT USING SwRI RESOURCES:

No one at SwRI has the necessary background and experience.

Statement of Work

Alan P. Morris

June 8, 2000

Dr. Morris will assist CNWRA staff in the assessment, evaluation and analysis of fracture and fault data from the Yucca Mountain Region. He will assist in the further development of 3DStress. On work for other projects, such as the JNOC project and the potential Edwards Underground Aquifer project, he will assist by supplying structural expertise on an as needed basis.