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CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES QUALITY ASSURANCE SURVEILLANCE REPORT

PROJECT NO.: 20-5708-471/472

REPORT NO.: 97-16

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SURVEILLANCE SCOPE: Structural Deformation Technical Assistance and Structural Deformation Code Development- 3D Stress

REFERENCE DOCUMENTS: Quality Requirements Application Matrices, Current Program Managers Periodic Report

STARTING DATE: October 15, 1997

ENDING DATE: October 23, 1997

QA REPRESENTATIVE: Mark R. Ehnstrom *ME*

PERSONS CONDUCTING TEST/EXAM/ACTIVITY: David Ferrill, John Stamatakos, Bruce Mabrito, Connie Cruz

SATISFACTORY FINDINGS:

Discussions were held with the PI to determine ongoing activities within the Structural Deformation and Seismicity element. Discussions concentrated in the areas of software control and report review and issue.

Software Control - The surveillance noted that a number of software programs are being used for analysis. Programs identified during the surveillance included 3D Stress, Arc Info, ERDAS, GEO SEC, Earthvision, ABAQUS, and UDEC. Review of available documentation showed that the software was under appropriate controls identified in procedure TOP-018, "Development and Control of Scientific and Engineering Software".

Report Reviews and Issue - Two intermediate reports were reviewed to determine compliance to QAP-002, "Review Of CNWRA Documents, Reports and Papers". The two reports titled Technical Input on Review and Acceptance Criteria for Issue Resolution Status Report on Type I Faults (IM 5708-471-745) and Modeling Fault-Dike Interactions (IM 5708-471-760) showed that proper reviews had been performed and that the required forms, i.e. forms AP-6-2, QAP-12-4, and TOP-3, had been completed.

UNSATISFACTORY FINDINGS: During the review of issued reports for compliance to QAP-002, Review Of CNWRA Documents, Reports and Papers, it was discovered that there was difficulty in locating report "Modeling Fault-Dike Interactions", IM 5708-471-760. The reason for the difficulty was that the report had been identified on the Form AP-6-2 as a paper/presentation instead of as a technical report. This then gave the report an incorrect document code which identifies where the report is to be filed. The AP-6-2 form and the document code was changed during the surveillance and the report is now correctly filed.

OBSERVATIONS: None

NONCONFORMANCE REPORT NO.: None

ATTACHMENTS: None

RECOMMENDATIONS/ACTIONS: Evaluate the need to document compliance to the developed QRAM.

APPROVED: _____

CENTER DIRECTOR OF QUALITY ASSURANCE

DATE: _____

10/29/97

DISTRIBUTION:

ORIGINAL - CENTER QA DIRECTOR/QA RECORDS

ORIGINATOR *M Ehnstrom*

PROJECT MANAGER *J Stamatakos/D Ferrill*

ELEMENT MANAGERS

B. Sagar, H. Garcia