



CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES QUALITY ASSURANCE SURVEILLANCE REPORT

PROJECT NO.: 20-5702-425

REPORT NO.: 93-15

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SURVEILLANCE SCOPE: CNWRA Conformance to TOP-18, Rev 3, Chg 2, for the Software Package SEISM1.

REFERENCE DOCUMENTS: TOP-18, Rev 3, Chg 2.

STARTING DATE: 12-6-93

ENDING DATE: 12-10-93

QA REPRESENTATIVE: R. Mielke

PERSONS CONDUCTING TEST/EXAM/ACTIVITY: R. Mielke

SATISFACTORY FINDINGS: CNWRA File #Q199307130001 was reviewed. Software licensing is not an issue. NRC developed the software. The software is in an approved language, Fortran. The use of procedure-required form was observed. Media used for storage meets requirement of procedure. Technical documentation, i.e. user manual and tech description, was found in the file.

UNSATISFACTORY FINDINGS:

1. The Software Summary Form does not indicate version number (TOP-018, para. 5.4).
2. Software Summary Form states code is for a sun 4/260. User has version that runs on Sun Sparc 2 IPA or IPX systems (TOP-018, Appendix A, 14 and 15).
3. No objective evidence that the software tools PREFOR, FORWARN, CRAFT, and PCMetrics had been applied to this software package (TOP-18, para. 6.3.1).
4. No objective evidence found to indicate that the version test cases were reviewed by technical staff (TOP-18, para. 6.3 and 6.3.1).
5. No objective evidence could be found to indicate that the procedure-required list of authorized users had been generated (TOP-018, Appendix C and para. 8.1.3).
6. No objective evidence could be found to indicate that any copies of this program have been officially released to any user (TOP-018, Appendix C).
7. There is objective evidence (interview notes) to indicate that a copy of this software was released to the NRC during the spring of 1993 (TOP-018, Appendix C).

NONCONFORMANCE REPORT NO.: 94-01

ATTACHMENTS: ~~None~~ NCR 94-01 LJS 2/9/94

RECOMMENDATIONS/ACTIONS: 1. The appropriate software tools should be executed on the software package and the results recorded. Generate the Software Release Notice for this package. Clean up the SSF for this software package. Generate the documentation to indicate technical review of the test cases. Make the Code Custodian Working Sheet part of TOP-18.

APPROVED: 
CENTER DIRECTOR OF QUALITY ASSURANCE

DATE: 2/7/94

DISTRIBUTION:

ORIGINAL - CENTER QA DIRECTOR - Bruce Mabrito
ORIGINATOR - RWM/TCT
Principle Engineer/Scientist - R. Hofmann
Element Manager - L. McKague
B. Sagar, R. Baca, R. Johnson

CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

NONCONFORMANCE REPORT

Project No. 20-5702-425

NCR No. 94-01

PART 1: DESCRIPTION OF NONCONFORMANCE

- Surveillance 93-15 identified the following deficiencies in SEM 1 code documentation:* LJS
2/18/94
1. The Software Summary Form does not indicate version number (TOP-018, para. 5.4).
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Initiated by: *[Signature]*

Date: *2/7/94*

PART 2: PROPOSED DISPOSITION AND CORRECTIVE ACTION

Disposition:

*Responsible: L. McKasne
Response due: 2/18/94*

*LJS
2/18/94*

Basis of Disposition:

Action to correct nonconformance:

Target date for completion: _____

Proposed by:

Date:

PART 3: APPROVAL

Element Manager: _____ Date: _____

Director of QA: _____ Date: _____

Comments/Instructions:

PART 4: CLOSE OUT

Comments:

Verified by:

Date: