



CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES QUALITY ASSURANCE SURVEILLANCE REPORT

PROJECT NO.: 20-5702-722

REPORT NO.: 93-24

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SURVEILLANCE SCOPE: CNWRA Conformance to TOP-18, Rev 3, Chg 2.

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: A great deal of progress has been accomplished since the June 1993 Programs Review. An earnest attempt is being made by individuals at the CNWRA to effectively implement this system. Schedules for control have been developed and attempts to adhere to the schedule appear to be genuine. Control of physical records is excellent. A great deal of time and effort has been expended on identification and initial control of candidate software.

UNSATISFACTORY FINDINGS: Compliance to TOP-18 concerning the release of software is not adequate. There appears to be a disconnect between the configuration control system and the day-to-day operations of the CNWRA. This does not appear to be intentional but appears to be a result of lack of understanding of what the procedures require.

1. The list of software that is currently controlled does not list any of the subsequent versions as being controlled or being released to the technical staff (TOP-018, Appendix C and para. 8.1.3).
2. The Code Custodian, Quality Assurance and possibly upper CNWRA management appear to not know what controlled software is actually being used in a daily fashion at the CNWRA, i.e. multiple copies of UDEC with two different version numbers, the release to the NRC of preliminary SEISM1 code (TOP-018, para. 1).
3. Code Custodian does not have direct access to a CNWRA system that allows for the generation/review of 8mm DAT recorded backups (TOP-018, Appendix C and para. 8.1.3).

NONCONFORMANCE REPORT NO.: 94-08

ATTACHMENTS: ~~None~~ → NCR 94-08

MS 2/7/94

RECOMMENDATIONS/ACTIONS:

1. Documentation review by element managers and/or technical leads needs to be documented in order to receive credit for the work being performed.
2. Consideration should be given to incorporating Code Custodian Checklist/Working Paper into TOP-18.
3. Consideration should be given to modification to TOP-18 to state the minimum level/percent of code that must be tested in acceptance testing.
4. Consideration should be given to modification of TOP-18 to provide some type of mandatory documentation feedback loop to address issue raised during code analysis.
5. Consideration should be given to modification of TOP-18 to state the McCabe and Halstead metric limits that are acceptable for CNWRA generated software and other non-CNWRA generated software.
6. Consideration should be given to modification of TOP-18 to state what the CNWRA will consider acceptable evidence of or for software license.
7. There may be the need to provide some official CNWRA documentation to relate technical documentation and use manuals to the CNWRA Software Summary Form designated official name and version number.

APPROVED: 
CENTER DIRECTOR OF QUALITY ASSURANCE

DATE: 2/7/94

DISTRIBUTION:

ORIGINAL - CENTER QA DIRECTOR - Bruce Mabrito
ORIGINATOR - RWM/TCT
Principle Engineer/Scientist - R. Baca
EM - B. Baca
B. Sagar, R. Johnson

CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

NONCONFORMANCE REPORT

Project No. 20-5702-722

NCR No. 94-08

PART 1: DESCRIPTION OF NONCONFORMANCE

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Initiated by:

[Signature]

Date:

2/7/94

PART 2: PROPOSED DISPOSITION AND CORRECTIVE ACTION

Disposition:

Responsible: R. Baca

Response due: 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: