



# CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES QUALITY ASSURANCE SURVEILLANCE REPORT

PROJECT NO.: 20-5704-014

REPORT NO.: 93-18

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SURVEILLANCE SCOPE: CNWRA Conformance to TOP-18, Rev 3, Chg 2, for the Software Package EQ 3/6.

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 #Q199307130002 was reviewed to determine level of conformance to TOP-18. Objective evidence of software license was found. The use of procedure-required forms was observed. (Software Summary Form) Objective evidence of a users manual was found. Objective evidence of a technical description was observed. The files are being kept in the appropriate location. The software is written in one of TOP-18 approved languages.

**UNSATISFACTORY FINDINGS:**

1. No objective evidence that the software tools PREFOR, FORWARN, CRAFT, and PCMetrics had been applied to this software package (TOP-018, para. 6.3.1).
2. No objective evidence found to indicate that the Version 1.1 test cases were reviewed by technical staff (TOP-018, para. 6.3 and 6.3.1).
3. 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).
4. 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).
5. There is objective evidence to indicate that at least one different version of this software is being or has been used by CNWRA personnel. A version exists on the SwRI VAX (TOP-018, Appendix C).
6. MS-DOS 5.0 Backup Format is considered to be a compressed format and not directly readable by other versions of MS-DOS (TOP-018, para. 8.2.4-7).

NONCONFORMANCE REPORT NO.: 94-02

ATTACHMENTS: ~~None~~ NCR 94-02 2/7/94

**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. Either remove VAX version of EQ 3/6 or put it under control. Have the code developer/technical expert review INEL code runs and report as appropriate. Make the Code Custodian Working Sheet part of the procedure.

APPROVED:   
CENTER DIRECTOR OF QUALITY ASSURANCE

DATE: 2/7/94

**DISTRIBUTION:**

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

# CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

## NONCONFORMANCE REPORT

Project No. 20-5704-014

NCR No. 94-02

### PART 1: DESCRIPTION OF NONCONFORMANCE

Surveillance 93-18 identified the following deficiencies in EQ3/6 documentation: RDS 2/9/94

1. No objective evidence that the software tools PREFOR, FORWARN, CRAFT, and PCMetrics had been applied to this software package (TOP-018, para. 6.3.1).
2. No objective evidence found to indicate that the Version 1.1 test cases were reviewed by technical staff (TOP-018, para. 6.3 and 6.3.1).
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Initiated by: *[Signature]*

Date: 2/7/94

### PART 2: PROPOSED DISPOSITION AND CORRECTIVE ACTION

Disposition:

Responsible: L. McKague RDS  
Response due: 2/8/94 2/8/94

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: