

CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

1/8
HJH
6-6-95

NONCONFORMANCE REPORT

Object No. 20-5704-014

NCR No. 94-02

PART 1: DESCRIPTION OF NONCONFORMANCE

Surveillance 93-8 identified the following deficiencies in EQ3/6 documentation:

MS 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).
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).

Initiated by: *[Signature]*

Date: 2/7/94

PART 2: PROPOSED DISPOSITION AND CORRECTIVE ACTION

Responsible: *[Signature]*
Response due: 2/9/94

Disposition:

Accept as is.

Basis of Disposition: Configured version of EQ3/6 version 7.1 has been updated by LLNL to version 7.2A and thereby rendered obsolete.

Action to correct nonconformance:

See attached memorandum.

Target date for completion: 2/18/94

Proposed by: William M. Murphy Date: 2/17/94

PART 3: APPROVAL

Element Manager: *[Signature]* Date: 2/17/94

Director of QA: *[Signature]* Date: 2/17/94

Comments/Instructions:

PART 4: CLOSE OUT

Comments: No action was necessary per the approved DDCI response

Verified by: *[Signature]*

Date: 2/2/94

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CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES QUALITY ASSURANCE SURVEILLANCE REPORT

PROJECT NO.: 20-5704-014 REPORT NO.: 93-18 PAGE 1 OF 1

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 #Q199307 130002 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

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

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MEMORANDUM

Feb. 16, 1994

To: Bruce Mabrito

From: W.M. Murphy

WMM 2/17/94

Subject: CNWRA Nonconformance Report No. 94-02, EQ3/6 Software Code

CNWRA NCR 94-02 lists six discrepancies associated with the currently configured EQ3/6 program (version 7.1). LLNL has updated the configured version (7.1) with version 7.2A making version 7.1 obsolete. In light of the LLNL version update, it would not be cost effective to devote excessive time and money to clear a nonconformance on obsolete code that will not be used at the CNWRA. I recommend the following solutions to **NR** 94-02:

1. No objective evidence that the software tools PREFOR, FORWARN, CRAFT, and PCMetrics had been applied to this softwarepackage (TOP-018, para. 6.3.1).

Para. 6.3.1 requires the use of these tools, but in light of the obsolete code I recommend the EQ3/6 version 7.1 of the code not be subjected to the evaluation tools just to clear the NCR. These software evaluation tools will be run on version 7.2A.

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).

This item does not exist unless the software evaluation tools have been used on EQ3/6; therefore this item does not appear to be a discrepancy.

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).

The obsolete code should not have any authorized users.

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).

This code has not been used since placement under CM: therefore no official release should be in evidence.

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).

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the subject different version is identified by its correct version number on
This is a copy of the obsolete code and should be removed from the SWRI VAX.
~~I will have the code removed from the SWRI VAX.~~

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).

A new uncompressed copy of the code can be extracted from the INEL CM system by the Code Custodian if necessary.

Eventually, the old version will be removed from the VAX and stored on tape or disk.

WMM
2/17/94