



CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES QUALITY ASSURANCE SURVEILLANCE REPORT

PROJECT NO.: 20-2705-053

REPORT NO.: 93-20

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

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 #Q19931022002 was reviewed to determine the level of conformance to TOP-18. Objective evidence exists to support the requirements for user and technical documentation. The software is in an acceptable language. The backup files are stored in an acceptable format on an acceptable media. Procedure-required software tool analysis had been performed.

UNSATISFACTORY FINDINGS: 1. There was no objective evidence of software license concerning this package (TOP-018, para. 6.2.1).
2. No objective evidence was observed to indicate that any version of BIGFLOW has been released to any users (TOP-018, Appendix C and 8.1.3).
3. No objective evidence exists to indicate the evaluation tools (FORWARN, CRAFT, PCMETRICS) data is being reviewed or acted on by CNWRA technical and management staff (TOP-018, para. 6.3.1).

NONCONFORMANCE REPORT NO.: 94-04

ATTACHMENTS: ~~None~~ RCA 94-04 WBS 9/94

RECOMMENDATIONS/ACTIONS: Results of the INEL analysis tools do not seem to be acted on by CNWRA and this is not required by TOP-18. Results of code coverage indicated that 31% of code segment exercised by provided test case. TOP-18 does not provide guidelines/standards to the community as to the minimum level of test that should be required. This appears to be another shortcoming of the standard. Based on data found concerning software license, the use of this code appears to be highly questionable at this time. Software license and use/rights need to be determined and documented.

APPROVED: 
CENTER DIRECTOR OF QUALITY ASSURANCE

DATE: 2/7/94

DISTRIBUTION:

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

CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

NONCONFORMANCE REPORT

Project No. 20-2705-053

NCR No. 94-04

PART 1: DESCRIPTION OF NONCONFORMANCE

Surveillance 9320 identified the following deficiencies in BIGFLOW code documentation:

AKS
2/9/94

1. There was no objective evidence of software license concerning this package (TOP-018, para. 6.2.1).
2. No objective evidence was observed to indicate that any version of BIGFLOW has been released to any users (TOP-018, Appendix C and 8.1.3).
3. No objective evidence exists to indicate the evaluation tools (FORWARN, CRAFT, PCMETRICS) data is being reviewed or acted on by CNWRA technical and management staff (TOP-018, para. 6.3.1).

Initiated by:

B. Baca

Date:

2/7/94

PART 2: PROPOSED DISPOSITION AND CORRECTIVE ACTION

Responsible: B. Baca
Response due: 2/18/94

AKS
2/9/94

Disposition:

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: