

CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

NONCONFORMANCE REPORT

25/112

Project No. 20-1402-159

NCR No. 2000-03

PART 1: DESCRIPTION OF NONCONFORMANCE

Code changes included in TPA, V3.2.3, 3DStress, V1.3.1 and 3DStress, V1.3.2 represented minor enhancements or "bug" fixes. Design verification was not documented as required by TOP-018, Section 5.8.

Initiated by: *Mary Polk*

Date: 2-23-2000

PART 2: PROPOSED DISPOSITION AND CORRECTIVE ACTION

Disposition: *Accept documentation now existing in CNWRA QA Records Room.*

Basis of Disposition: *Complete documentation exists because of Software Change Reports and Scientific Notebook entries to support the code changes. This information is the same that would have been documented in a Design Verification Report.*

Action to Correct Nonconformance: ① For Developed CNWRA Scientific Engineering Software, the software control folder for each code will be checked to ensure that Change Reports or Scientific Notebook entries are present for historical purposes. ② Other, lesser known or used, developed CNWRA software will be reviewed to ensure that its folder is complete. ③ Table 1 in TOP-018 will be made more clear to the reader. Target date for completion: 4/21/2000

Proposed by: *Bruce Mahan*

Date: 3/3/2000

PART 3: APPROVAL

Element Manager: *John Wittmeyer*

Date: 3/20/2000

Director of QA: *Bruce Mahan*

Date: 3/20/2000

Comments/Instructions: *1/4/2000*

3/20/2000

NOTE: Surveillance Report 2000-13 written to document review of software. BE

PART 4: CLOSE OUT

Comments: *Items 1 and 2 under Action to Correct Nonconformance were addressed on Surveillance No. 2000-0013. Item No. 3 was addressed with the revision to TOP-018 dated 5/12/2000*

Verified by: *Mark R. Edwards* Date: *6/13/2000*

Distribution: QA Records / NCR Folder
All Element Managers
S. Mohanty
R. JANETZKE
D. FERRILL
B. SAGAR
H. GARCIA

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CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

MEMORANDUM

April 21, 2000

TO: Nonconformance Report (NCR) No. 2000-03 Folder

FROM: Bruce Mabrito, CNWRA Director of Quality Assurance

SUBJECT: Status of Response to NCR No. 2000-03

REFERENCE: QA Procedure-009; Nonconformance Control



NCR 2000-03 was written February 23, 2000 following a QA surveillance on scientific and engineering software. The proposed disposition and corrective action was signed off by G. Wittmeyer, B. Mabrito, and H. Garcia.

Some initial work has been accomplished to check that developed CNWRA scientific and engineering software have change reports or scientific notebook entry copies available in the folders of each developed software. However, due to travel schedules and other pressing QA business, a complete review has not been completed as of this date.

The purpose of this memorandum is to document for the record that limited actions have take place to close out this NCR and to extend the target date for completion to May 8, 2000.

This memorandum will be filed with NCR 2000-03 to provide "puppy tracks" leading to a close out of this NCR. Please call me at ext. 5149 if there are any questions regarding this matter.

cc: M. Ehnstrom/30
R. Folck/QA Consultant
M. Padilla

CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

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MEMORANDUM

May 8, 2000

TO: Nonconformance Report (NCR) No. 2000-03 Folder

FROM: Bruce Mabrito, CNWRA Director of Quality Assurance

SUBJECT: Status of Response to NCR No. 2000-03 / Extension

REFERENCE: QA Procedure-009; Nonconformance Control



NCR 2000-03 was written February 23, 2000 following a QA surveillance on scientific and engineering software. The proposed disposition and corrective action was signed off by G. Wittmeyer, B. Mabrito, and H. Garcia.

Due to travel of CNWRA staff members and the number of CNWRA deliverables, I have been unable to complete the checks on the developed CNWRA scientific and engineering software as part of the action to correct the nonconformance.

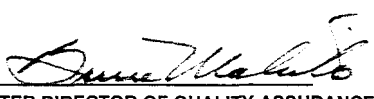
This memorandum is to document for the record that some actions have been completed to close out this NCR, but there is a need to extend the target date for completion to June 15, 2000.

This will be filed with NCR 2000-03 to provide status to closing out of this NCR. Please call me at ext. 5149 if there are any questions regarding this matter.

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CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES QUALITY ASSURANCE SURVEILLANCE REPORT

PROJECT NO.: 20.01402.159		REPORT NO.: 2000-13	PAGE <u>1</u> OF <u>2</u>
SURVEILLANCE SCOPE: Review of CNWRA Developed Scientific and Engineering Software to determine whether the documentation present in the CNWRA Software Working Records Folders is adequate.			
REFERENCE DOCUMENTS: Technical Operating Procedure-018, Development and Control of Scientific and Engineering (S&E) Software; QAP-004, Surveillance Control; Nonconformance Report 2000-03.			
STARTING DATE: 3/7/2000		ENDING DATE: 6/9/2000	
QA REPRESENTATIVE: B. Mabrito			
PERSONS CONDUCTING TEST/EXAM/ACTIVITY: Various CNWRA staff working on Developed S&E software.			
<p>SATISFACTORY FINDINGS: During the course of this surveillance, CNWRA Developed S&E software and documentation was checked and contact made with CNWRA staff who worked with the software. In each case, the particular S&E software folder was reviewed for completeness and where no Design Verification Report (DVR) was located, the objective evidence in the folder was compared to the DVR form questions and discussions were held with cognizant CNWRA staff. The list of Developed S&E software reviewed is included in Attachment A.</p> <p>In each case, key elements of the DVR were compared against that which was included in each software folder in the QA working records. Also, the previous version of the software code documentation was checked to ensure that the earlier DVR had been properly completed. The later version of the software documentation showed the specific changes made through the Software Change Reports. Based on this review, it is clear that although in a few cases no DVR was accomplished, product quality did not suffer. The minor enhancements and "bug" fixes made to TPA Version 3.2.3 and 3DStress Version 1.3.1 and 1.3.2 software were clearly identified and controlled so that the CNWRA product being delivered met the client's requirements.</p>			
UNSATISFACTORY FINDINGS: None.			
NONCONFORMANCE REPORT NO.: None.			
ATTACHMENTS: Attachment A.			
RECOMMENDATIONS/ACTIONS: N/A.			
APPROVED:  CENTER DIRECTOR OF QUALITY ASSURANCE		DISTRIBUTION: ORIGINAL - CENTER QA DIRECTOR QA Records ORIGINATOR PRINCIPAL INVESTIGATORS OF EACH CODE ELEMENT MANAGERS B. Sagar, H. Garcia	
DATE: <u>6/12/2000</u>			

ATTACHMENT A

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<u>NAME OF S&E SOFTWARE</u>	<u>DESIGN VERIFICATION REPORT</u>		<u>NOTES</u>
3DStress Version 1.2	Present	Dated 5/8/97	Software Release Notice Dated 7/15/99 Software Release Notice Dated 9/16/99
3DStress Version 1.3	Present	Dated 8/7/98	
3DStress Version 1.3.1	Not Present		
3DStress Version 1.3.2	Not Present		
ASHPLUME Version 1.0	Present	Dated 6/23/97	Software Release Notice Dated 9/21/95
BREATH Version 1.1	Not Present		
BREATH Version 1.2	Present	Dated 9/17/97	Software Release Notice Dated 1/21/98 Module put under TPA Code and controlled in that manner.
EBSPAC Version 1.0	Present	Dated 5/15/97	
EBSPAC Version 1.1	Present	Dated 6/17/97	
FAULTING Version 1.0	Not Present		
GEOINVRT Version 1.0	Software Code Not Finished		Software Requirements Description only.
HAZINFO Version 1.0	Software Code Not Finished		Software Requirements Description only.
MULTIFLO Version 1.2	Present	Dated 3/2/2000	Software Requirements Description only.
MULTIFLO Version 2.0	Software Code Not Finished		
PVHA Version 1.0	Present	Dated 2/15/2000	Element Manager (EM) determined that this software has not been used for regulatory reviews and will not be used for such work. EM requested the folder be archived in QA Records to reflect previous efforts on code.
SUFLAT Version 1.0	Not Present		
TECTRAN Version 1.0	Software Code Not Finished		Software Requirements Description only.
TPA Version 3.2	Present	Dated 7/17/98	Software Release Notice Dated 7/14/99
TPA Version 3.2 (PP) Beta	Present	Dated 11/25/98	
TPA Version 3.2.3	Not Present		
TPA Version 3.3	Present	Dated 11/24/99	
TPA Version 4.0	Present	Dated 3/31/2000	