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8/21/95

CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

CORRECTIVE ACTION REQUEST

1/5

CAR No: 95-02

Associated AR, SR, NCR No: CNWRA AR 95-01

PART A: DESCRIPTION OF CONDITION ADVERSE TO QUALITY

The technical review for CNWRA report titled "Thermo-Hydro-Mechanical Coupled Modeling: Big Ben Experiment, TC3" was found to be incomplete. "Instructions to Technical Reviewers," CNWRA Form QAP-12-3, required the reviewers to verify that existing data are qualified (or exempted) in accordance with QAP-015. No evidence of existing data being qualified or exempted could be produced. See attached.

Initiated by: Randy Folck *Randy Folck*

Date: 06/09/95

PART B: PROPOSED ACTION

Responsible EM: B. Sagar
Response Due: 07/24/95

1) Extent of Condition:

Thirty two technical document review packages were examined at random, and no other occurrences of the existing data review criterion being checked off were identified. Few, if any other occurrences are expected.

2) Root Cause:

In spite of the review criteria being attached to the review document, reviewers may not faithfully execute these instructions. In addition, in this particular case, the QA verification of the review process failed to identify that this review criterion was not addressed.

3) Remedial Action:

Proposed Completion Date: N/A

None is required for the specific report identified. Using the current basis for qualifying existing data, since the affected data are not expected to be directly used in the license review process, this review criterion will not be selected.

4) Corrective Action to Preclude Recurrence:

Proposed Completion Date: 08/31/95

To assure that reviewers acknowledge and follow each of the applicable review criteria, form QAP-12 shall be revised to provide objective evidence (initials) of the reviewers' addressing the applicable review criteria.

Element Manager: *B. Sagar*

Date: 6/29/95

PART C: APPROVAL
Comments/Instructions

Director of QA: *Gene Maloney*

Date: 7/3/95

PART D: VERIFICATION OF CORRECTIVE ACTION IMPLEMENTATION

A new CNWRA Form QAP-12 (REV 7/95) was completed, circulated to EMs for comment, and produced. It was put on the general access G-drive and was attached to an E-mail message to the staff. A hard copy of the new form is attached.

- Distribution:**
- W. Patrick
 - B. Mabrito
 - Directors
 - Element Managers
 - R. Mantoufel
 - A. Ghosh
 - R. Brient

Verified by: *Gene Maloney*

Date: 8/21/95



CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

INSTRUCTIONS TO TECHNICAL REVIEWERS

Technical Review Items to Verify

2/5

TO: R. Manteufel, A. Ghosh

SUBJECT: Thermo-Hydro-Mechanical Coupled Modeling: Big-Ben Experiment, TC3
Review of

Please perform a Technical Review of the subject document in accordance with CNWRA QAP-002, verifying the specific items identified below. Technical comments shall be documented on the attached Comment Resolution Record and presented to the author for resolution.

Required review completion date: 9/16/94

TECHNICAL CORRECTNESS

-
-
-
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-

- Assumptions are reasonable and clearly stated.
- Appropriate techniques are used.*
- Computations are correct, calculations are documented and verified in accordance with QAP-014.
- Existing data are qualified (or exempted) in accordance with QAP-015.
- Conclusions are properly supported by correctly interpreted data.*
 - * Novel or beyond state-of-the-art techniques or significant uncertainties in data and interpretations warrant application of the Peer Review.

READABILITY

-
-

- Document is written for the intended audience, with correct grammar and syntax.
- Illustrations and tables clearly present basic information and emphasize relationships.

CONTENT AND FORMAT

-
-
-
-
-
-

- Title reflects the objectives of the document.
- Abstract states purpose, describes study, and summarizes the pertinent results and conclusions.
- Introduction states the objectives and scope of the work and presents background information.
- Body of the manuscript is logically organized and presents the basic information.
- Conclusions and results summarize the principal findings and answer each of the objectives of the work.
- References are cited in the text and in the references section.

ELEMENT MANAGER <i>[Signature]</i>	DATE 9/9/94	COGNIZANT DIRECTOR <i>[Signature]</i>	DATE 8/11/94
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34 06/19/95
6/28/95

CENTER FOR NUCLEAR WASTE REGULATORY ANALYSIS
DOCUMENT REVIEW REQUEST AND TRANSMITTAL CONTROL (RF)

3/5

I. DOCUMENT INFORMATION

a. TITLE: Thermo-Hydro-Mechanical Coupled Modeling: Big-Ben Experiment. TC3

b. DOCUMENT TYPE

<input checked="" type="checkbox"/> Technical Report	<input type="checkbox"/> AP	<input type="checkbox"/> PADB	<input type="checkbox"/> Paper/Presentation *	<input type="checkbox"/> Project/Test Pt.
<input type="checkbox"/> Guidance Document	<input type="checkbox"/> TOP	<input type="checkbox"/> CQAM/QAP	<input type="checkbox"/> OPs/Work Plan	<input type="checkbox"/> PMPR

* Conference Title: _____

Sponsoring Organization(s) _____ Location _____ Date(s) _____

c. PROJECT INFORMATION

Project No. 20-5704-039 Milestone No. 20- _____ Subject Code _____

CNWRA DOCUMENT NO. Yes No _____ Assigned No. 94-021

d. SCHEDULE Today's Date 9/9/94 Scheduled Transmittal Date 9/29/94

II. RESPONSIBILITIES (Fill in names on each blank line in this section.)

Author(s) M. Ahola Element Manager A. Chowdhury Assigned Secretary Mary Ann Gruhlke

EDIT LEVEL Low (CNWRA) High (SwRI) 9/2/94

III. REVIEW (see QAP-002 Table 1 for applicable review types)

Review Types & Reviewers Determined by Element Manager

[Signature] 9/9/94
(EM Signature) (Date)

	Req'd Date	Initials	Review Complete Date
<input checked="" type="checkbox"/> TECHNICAL (Attach CNWRA Form QAP-12) Reviewer(s): <u>R. Manteufel, A. Ghosh</u>	9/16/94	<u>UCP for RM</u> <u>MPA for AG</u>	9/27/94 9/27/94
<input type="checkbox"/> PEER (Attach CNWRA Form QAP-13) Reviewer(s):	_____	_____	_____
<input type="checkbox"/> CONCURRENCE Reviewer:	_____	_____	_____
<input type="checkbox"/> QA Reviewer:	_____	_____	_____
<input checked="" type="checkbox"/> PROGRAMMATIC Reviewer: <u>B. Seger W. Patrick</u>	9/22/94	<u>UCP</u>	9/27/94
<input checked="" type="checkbox"/> FORMAT Reviewer:	_____	_____	9/27/94
Verification of Compliance with QAP-002	_____	<u>UCP</u>	9/27/94

IV. TRANSMITTAL

TO: _____ FROM: _____

COPIES TO: (Please add/delete names as required.)

<input type="checkbox"/> Standard Distribution (listed below)	_____	_____	_____
M. Knapp	CNWRA Element Mgrs.	_____	_____
S. Fortuna	S. Rowe (SwRI)	_____	_____
B. Stiltenepole	_____	_____	_____
B. Mechan	_____	_____	_____
J. Latz	_____	_____	_____
W. Patrick	_____	_____	_____
CNWRA Dir.	_____	_____	_____



CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES INSTRUCTIONS TO TECHNICAL REVIEWERS Technical Review Items to Verify

4/5

TO: _____

SUBJECT: Review of _____

Please perform a Technical Review of the subject document in accordance with CNWRA QAP-002, verifying the specific items identified below. Technical comments shall be documented on the attached Comment Resolution Record and presented to the author for resolution. Initial blanks on right side of page to show completion of assigned review.

Required review completion date: _____

ASSIGNED

ACCOMPLISHED

TECHNICAL CORRECTNESS

- Assumptions are reasonable and clearly stated.
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READABILITY

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- Title reflects the objectives of the document.
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ELEMENT MANAGER	DATE	COGNIZANT DIRECTOR	DATE

Case Folder
5/5

[46] From: Bruce Mabrito at cnwra-os2 8/27/95 8:45PM (1749 bytes: 11 ln)
To: Mikko Ahola at CNWRA, A Bagtzoglou at CNWRA, Charles Connor at CNWRA,
Mike Conway at CNWRA, David Ferrill at CNWRA, Amitava Ghosh at CNWRA,
Ronald Green at CNWRA, B Gureghian at CNWRA, Brent Henderson at CNWRA,
Renner Hofmann at CNWRA, Simon Hsiung at CNWRA, Ronald Janetzke at CNWRA,
Mark Jarzempa at CNWRA, Peter Lichtner at CNWRA, Randall Manteufel at CNWRA,
RL Marshall (Robert Marshall) at CNWRA, Ronald Martin at CNWRA,
Sitakanta Mohanty at CNWRA, William Murphy at CNWRA, Goodluck Ofoegbu at
CNWRA, Roberto Pabalan at CNWRA, David Pickett at CNWRA, James Prikryl at
CNWRA, Jongsoon Song at CNWRA, Stuart Stothoff at CNWRA, Gordon Wittmeyer at
CNWRA

To mailing list: #SA TECH STAFF
cc: Rawley Johnson at CNWRA, Larry McKague at CNWRA, English Percy at CNWRA
cc mailing list: #DIRS-MGRS
bcc: jgs1 at TW7, slf1 at TW8, jtb at TW7, Bonnie Caudle, Linda Hearon,
Alice Cortinas
Subject: QAP-015 QUALIFICATION OF EXISTING DATA

----- Message Contents -----

During the week of August 21, 1995, Revision 1 Change 0 of Quality Assurance Procedure-015 was distributed to many of our CNWRA technical staff. The reason for this revision was to address a corrective action request generated during our quality assurance audit earlier this year and to also clarify the CNWRA position on the use of existing data in the HLW program.

Should you have questions regarding this specific procedure, please contact Bob Brient (ext. 5537) or myself (ext. 5149).
Bruce