CENTER FOR JCLEAR WASTE REGULADORY ANALYSES

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### NONCONFORMANCE REPORT

#### Project No. 20-5708-761

NCR No. 96-07

#### PART 1: DESCRIPTION OF NONCONFORMANCE

Quality Assurance Procedure-002, Review of CNWRA Documents, Reports and Papers, Table 1, Review Requirements Matrix shows that "Journal Articles, Proceedings, Conference Papers" require a Technical or Peer review and a Programmatic review.

Contrary to this requirement, the following documents were not subjected to formal QAP-002 requirements before being sent out to the NRC: "Total System Performance Assessment Focus Topic: Infiltration and Deep Percolation," plus others (Transmitted **as** IM 20-5708-761-650 May 21, 1996) and "Total System Performance Assessment Focus Topic: Dilution" (Transmitted **as** IM 20-5708-761-640 June 24, 1996). These two documents were identified during preparation for the annual CNWRA QA Audit and did not have supporting review documentation required by QAP-002.

**Initiated by:** Bruce Mabrito Date: July 11, 1996

### PART 2: PROPOSED DISPOSITION AND CORRECTIVE ACTION

#### **Disposition:**

Contrary to QA findings, the two items identified do not constitute a nonconformance

#### **Basis of Disposition:**

QAP-002 does not explicitly apply to these two deliverables because they are viewgraph presentations. These presentation materials were reviewed by both CNWRA and NRC management. In addition, these presentation material were drawn directly from the letter report "Input to Audit Review of DOE TSPA-95 (IM 5708-761-630) which Action to correct nonconformance: was reviewed in accordance with QAP-002.

Proposed by: RGBacc PART 3: APPROVAL	Target date for completion: $7/12/96$ Date: $7/12/96$
Element Manager: <u>P&amp; Beco</u> Director of QA: <u>Selem Malus</u>	Date: <u>7/12/96</u> Date: <b>7/19/96</b>
Comments/Instructions: Accept L. BACA Disposition STATEMENT.	md connective repros
PART 4: CLOSE OUT Comments: MA Verified by Sum Meins Date: 7/19/96	Distribution: Original - R. Baca, Affected EM B. Mabrito Other Element Managers B. Sagar H. Garcia R. Brient
Verified by Stun Mills Date: 19/96	

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#### INPUT ON NCR No. 96-07

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Following are several points for consideration in resolving the different perspectives on the subject NCR.

- 1. It is arguable whether the Description of Nonconformance is correct in the first place. The subject items were used in presentations. Although the term "presentations" is included in one of the subheadings of Table 1 of QAP-002, the Document Type field clarifies that "Journal articles, proceedings, conference papers" are intended to be covered. The implication is that slides, viewgraphs, poster boards, and the like are not subject to the provisions of QAP-002. Certainly if an EM wanted to have them reviewed using QAP-002, there is no prohibition on doing so; neither is there a requirement.
- 2. In the past, we debated writing QAP-002 to address Intermediate Milestones (IM) and Major Milestones (MM). We decided to not do this because "IM" and "MM" are contractual terms that do not necessarily convey the quality-sensitive attributes of the items (such as importance to safety, waste isolation, or licensing). Instead a review requirements matrix was introduced that establishes requirements according to document type, which (at least to some degree) conveys the quality-sensitive nature of the item.
- з. The argument made in item 2 notwithstanding, it is interesting that the milestone-type construct remains with regard to editing requirements (see section 4.1.2). QAP-002 requires that all IMs and MMs "shall be edited."

Acounded by W. PATRick 7/19/96 SSh-7/19/96

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	CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES QUALITY ASSURANCE PROCEDURE																Proc. <u>Q</u> Revision <u>f</u> Pag <u>e 6 c</u>	
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Document Type		Reports on Research and Technical Assistance, NUREGs/CRs	Semi-Annual Research Reports		RPD Documents		Journal Articles, Proceedings, Conference Papers		Draft Technical Positions, Rulemakings, and Regulatory Guides		сдам, дарь	TOPs		Operations Plans, Work Plans	Project Plans, Test Plans	Administrative Procedures	Program Manager's Periodic Reports	

### CNWRA Form OAP-2

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## **Center for Nuclear Waste Regulatory Analyses**

6220 CULEBRA ROAD .P.O. DRAWER 28510 .SAN ANTONIO. TEXAS, U.S.A. 78228-0510 (210) 522-5160 + FAX (210) 522-5184

May 21, 1996 Contract No. NRC-02-93-005 Account No. 20-5708-761

U.S. Nuclear Regulatory Commission ATTN: Mr. Rex Wescott Division of Waste Management TWFN Mail Stop (7 D 13) Washington, DC 20555

Subject: Transmittal of Intermediate Milestone 5708-761-650: Support NRC/DOE PA Technical Exchange Meeting

Dear Mr. Wescott:

As part of the work performed under the Total-System Performance Assessment (TSPA) and Technical Integration KTI, the PA Element has prepared a set of presentations that will be given at the upcoming NRC/DOE Technical Exchange Meeting on TSPA. The presentations cover the five focus topics from the audit review of the recent DOE TSPA-95 report: (i) , temperature and relative humidity analysee, (ii) container lifetime and source term models, (iii) infiltration and deep percolation analyses, (iv) TSPA model abstractions, and (v) groundwater dilution calculations. These presentations were prepared by the KTI teams and have been reviewed by CNWRA and NRC management. We believe that information contained in these presentations will provide constructive commentary on the models, approaches, and assumptions used in the DOE TSPA-95 report.

Hard copies of the subject five presentations are attached and are submitted to fulfill IM 20-5708-761-650. In addition to this presentation material, we plan to prepare a trip report after the Technical Exchange to summarize the key points and agreements regarding TSPA methodology issues.

If you have any questions on this deliverable, please call me at (210) 522-3805.

Sincerely yours,

Mark S. Jargentin FOR RG BACS Robert G. Baca, Manager

Performance Asseesment

RGB/cq

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- R. Codell

W. Patrick CNWRA Directors CNWRA Element Managers R. Manteufel S. Stothoff G. Wittmeyer S. Mohanty



## TOTAL SYSTEM PERFORMANCE ASSESSMENT FOCUS TOPIC: INFILTRATION AND DEEP PERCOLATION

Participants Stuart A. Stothoff and A.C. Bagtzoglou

N. Coleman (NRC)

## **Center for Nuclear Waste Regulatory Analyses**

Presented by Stuart A. Stothoff

> May 22, 1996 Las Vegas, NV

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# AREA OF CONCERN: CALCULATION OF TEMPERATURE AND RELATIVE HUMIDITY IN TSPA-95

Collaborators R. Green, G. Rice, G. Ofoegbu

R. Wescott, J. Pohle (NRC)

### **Center for Nuclear Waste Regulatory Analyses**

Presented by Randy Manteufel

May 22, 1996 Las Vegas, NV

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NRC/DOE Technical Exchange on TSPA 1

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## Center for Nuclear Waste Regulatory Analyses

6220 CULEBRA ROAD • P.O. DRAWER 28510 • SAN ANTONIO, TEXAS, U.S.A. 78228-0510 (210) 522-5160 • FAX (210) 522-5184

June 24, 1996 Contract No. NRC-02-93-005 Account No. 20-5708-761 Q,

U.S. Nuclear Regulatory Commission ATTN: Mr. Rex Wescott Division of Waste Management TWFN Mail Stop (7 D 13) Washington, DC 20555

Subject: Transmittal of Intermediate Milestone 5708-761-640: Support for ACNW Meeting-Presentations

Dear Mr. Wescott:

As part of the work performed under the Total-System Performance Assessment (TSPA) and Technical Integration KTI, the PA Element has prepared two presentations that will be given at the Advisory Committee on Nuclear Waste (ACNW) meeting on TSPA. The presentations provide an overview of results for two focus topics from the audit review of the DOE TSPA-95 report: (i) TSPA model abstractions and (ii) groundwater dilution calculations.

Hard copies of the two presentations are attached and are submitted to fulfill IM 20-5708-761-640. In addition to this presentation material, we reviewed and commented on the NRC presentation materials for the ACNW meeting.

If you have any questions on this deliverable, please call me at (210) 522-3805.

Sincerely yours,

And M D. Martifal for R.G. B

Robert G. Baca, Manager Performance Assessment

RGB/cg ftL.WetterVACNW%.Her cc: J. Linehan S. Fortuna B. Stiltenpole (2)

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- T. McCartín
- N. Eisenberg

, W. Patrick CNWRA Directors CNWRA Element Managers

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# TOTAL SYSTEM PERFORMANCE ASSESSMENT FOCUS TOPIC: DILUTION

Participants R.G. Baca, G.W. Wittmeyer, D.A. Turner

N. Coleman (NRC)

**Center for Nuclear Waste Regulatory Analyses** 

Presented by Robert G. Baca

Jűne 26,1996 Rockville, MD

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