



Department of Energy

Washington, DC 20585

QA: L

SEP 16 1997

R. L. Strickler
President and General Manager
TRW Environmental Safety Systems, Inc.
2650 Park Tower Drive, Suite 800
Vienna, VA 22180

EVALUATION OF RESPONSE AND VERIFICATION OF CORRECTIVE ACTION
AND CLOSURE OF PERFORMANCE REPORT (PR) YM-97-P-013

The Office of Quality Assurance staff has evaluated your response, verified the corrective action to PR YM-97-P-013 and determined the results to be satisfactory. As a result, the PR is considered closed.

If you have any questions, please contact either James Blaylock at (702) 794-1420 or James J. George at (202) 586-7220.

R.W. Clark
for Donald G. Horton, Director
Office of Quality Assurance

OQA:JB-2323

Enclosure:
DR YM-97-P-013

cc w/encl:
T. A. Wood, DOE/HQ (RW-55) FORS
J. O. Thoma, NRC, Washington, DC
S. W. Zimmerman, NWPO, Carson City, NV
B. R. Justice, M&O, Las Vegas, NV
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R. W. Clark, DOE/OQA, Las Vegas, NV

cc w/o incl:
W. L. Belke, NRC, Las Vegas, NV
J. J. George, OQA/QATSS, Washington, DC
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OFFICE OF CIVILIAN
RADIOACTIVE WASTE MANAGEMENT
U.S. DEPARTMENT OF ENERGY
WASHINGTON, D.C.

8 ☒ Performance Report
☐ Deficiency Report
NO. YM-97-P-013
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PERFORMANCE/DEFICIENCY REPORT

1 Controlling Document:
QAP-SI-0, Revision 1 and QAP-3-9, Revision 6

2 Related Report No.
NA

3 Responsible Organization:
M&O WM&I/Science and Engineering

4 Discussed With:
M. Wisenburg/D.Lancaster

5 Requirement/Measurement Criteria:

QAP-SI-0 states in paragraph 5.4.4C NOTE: "The computer software or software components are not released for work subject to the QARD until approved by the Software Configuration Manager in accordance with QAP-SI-3. Following approval, all uses of the computer software or software components for work subject to the QARD will be controlled by Software Configuration Management in accordance with QAP-SI-3."

In Addition, QAP-3-9 states in Attachment I, Item 6.A that ".....If the proposed software used which is subject to the requirements of the QARD, falls outside the range of validation , then prior to use, further validation shall be performed in accordance with the appropriate procedure. "

6 Description of Condition:

Contrary to the above stated requirements, the validation of the CSASIX Module of SCALE 4.2 occurred concurrent with its use in QAP-3-9 design analysis activities (specifically, analysis DI D00000000-01717-0200-00024 Rev 00) in support of the Burnup Credit Topical Report and prior to baselining in accordance with QAP-SI-0 and QAP-SI-3. It should be noted that completion of the software module validation occurred 5/13/97 with the approval of the Software Qualification Report. This date is prior to the approval on 5/15/97 of the analysis which used the software module. It should also be noted that baselining of the CSASIX module occurred at the first meeting of the SCCB that occurred after the validation of the module was completed.

7 Initiator

P. White

P. White

Date 07/01/97

9 Is condition an isolated occurrence?

☒ Yes ☐ No ☐ Unknown; Must be Yes if PR

10 Recommended Actions: (Not required for PR)

~~Revise QAPs 3-9, SI-0 and SI-3 to provide the flexibility to validate software concurrent with its use and to use validated software prior to baselining.~~ *James George 7/3/97*

11 QA Review:

QAR James George/*James George* Date 07/03/97

12 Response Due Date

8/15/97 *7/13/97* 20 working days from issuance

13 Director, OQA Issuance Approval (QAR for PR)

Printed Name *James George*

Signature *James George*

Date *7/3/97*

22 Corrective Actions Verified

QAR *See copy w/ signature* Date

23 Closure Approved by: (N/A for PR)

AQOAM

N/A

Date

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RADIOACTIVE WASTE MANAGEMENT
U.S. DEPARTMENT OF ENERGY
WASHINGTON, D.C.

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8 ☒ Performance Report
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NO. YM-97-P-013
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PERFORMANCE/DEFICIENCY REPORT

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QAP-SI-0, Revision 1 and QAP-3-9, Revision 6

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NA

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M&O WM&I/Science and Engineering

4 Discussed With:
M. Wisenburg/D.Lancaster

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7 Initiator

P. White

Date 07/01/97

9 Is condition an isolated occurrence?

☒ Yes ☐ No ☐ Unknown; Must be Yes if PR

10 Recommended Actions: (Not required for PR)

~~Revise QAPs 3-9, SI-0 and SI-3 to provide the flexibility to validate software concurrent with its use and to use validated software prior to baselining.~~ *James George* 7/3/97

11 QA Review:

QAR James George/*James George* Date 07/03/97

12 Response Due Date

8/15/97 *5/15/97* 20 working days from issuance

13 Director, OQA Issuance Approval (QAR for PR)

Printed Name *JAMES GEORGE*

Signature *James George*

Date 7/3/97

22 Corrective Actions Verified

QAR *JAMES GEORGE*/*James George* Date 3/27/97

23 Closure Approved by: (N/A for PR)

AOQAM

N/A

Date

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PERFORMANCE/DEFICIENCY REPORT RESPONSE

14 Remedial Actions:

The Software Qualification Report for the validation of CSASIX Module of SCALE 4.2 has been re-evaluated. It has been determined that the module did meet all the qualification testing criteria and is therefore acceptable for use in applications that are subject to the QARD requirements. Therefore, no adverse impact on the design analyses for which the software was used resulted from its qualification concurrent with its use or from its use prior to baselining. No further action is required.

15 Extent of Condition: (Not required for PR)

Not Required

16 Root Cause Determination: (Not required for PR)

Required: ☐ Yes ☒ No

17 Action to Preclude Recurrence: (Not required for PR)

Required: ☐ Yes ☒ No

18 Corrective Action Completion Due Date:

Complete

19 Response by:

W. C. [Signature]

Date 8/18/97

Phone (703) 204-8652

20 Response Accepted

QAR James GEORGE / Jan George Date 8/27/97

21 Response Accepted (N/A for PR)

DOQA

N/A

Date

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PR/DR CONTINUATION PAGE

VERIFICATION OF CORRECTIVE ACTION IMPLEMENTATION

Based on review of objective evidence such as the Software Qualification Report (SQR), QAP-3-9 design analyses using the software module, baseline documentation, and interviews with personnel relative to the reevaluation of the SQR to determine acceptability of the module for use in work subject to QARD requirements, the actions required to complete corrective action for the PR are complete and no adverse impact was found to have resulted from use of the software prior to completion of baseline activities.

Verified by: James George / James George

Date: 8/27/97