

United States Government


Department of Energy

 Carlsbad Field Office
 Carlsbad, New Mexico 88221

memorandum



DATE: September 9, 2002

 REPLY TO
 ATTN OF: CBFO:QA:MLC:GS:02-1284:UFC 2300.00

SUBJECT: Issuance of Corrective Action Reports 02-079 through 02-085

TO: James Nunz, LASO

The Carlsbad Field Office performed Audit A-02-30 of the LANL TRU Waste Program on August 26 - 30, 2002. The audit team identified seven (7) conditions adverse to quality, which have been documented in the attached Corrective Action Reports (CARs).

Please have cognizant management of the LANL TWCP document, on the attached CAR Continuation Sheets, their proposed corrective actions with a schedule for completion and forward them to me prior to the response due date identified in CAR Block 14. LANL must also document the acceptability of any data generated prior to the resolution of the corrective actions as required by Section B6 of the WIPP Hazardous Waste Facility Permit.

Please note that CARs 02-079, 02-081, and 02-084 require accelerated corrective action. The corrective action for these CARs must be completed within thirty (30) days of the date of this letter.

If you have any questions or comments, please contact me at (505) 234 -7442.

M. Lea Chism //signature on file//
 M. Lea Chism
 Quality Assurance Specialist

Attachment

cc w/attachment:
 W. Ledford, CTAC *ED
 M. Eagle, EPA *ED
 T. Harms, DOE-HQ *ED
 A. Pangle, CTAC *ED
 B. Walker, EEG *ED
 D. Winters, DNFSB *ED
 S. Zappe, NMED *ED
 K. Watson, CBFO *ED
 G. Rodriguez, LASO *ED
 R. Erickson, LASO *ED
 D. Newell, LASO *ED
 P. Rogers, LANL *ED
 M. Gavett, LANL *ED
 P. Roush, WTS
 CBFO QA Record File
 CBFO M&RC

020910



CORRECTIVE ACTION REPORT

1. CAR No.: 02-079	2. Activity Report No.: A-02-30	3. Page <u>1</u> of <u>2</u>
4. Controlling Document: See Block 4 of Continuation Sheet	5. CBFO Assessment Team Leader: Ava Holland	
6. Responsible Organization: LANL TRUPACT Operations	7. CAQ Was Discussed With: M. Polley, J. Ankrom, and M. Sanchez	
8. Requirement that was violated: Failure to follow procedures as required by DOE/WIPP 02-3183, Revision 0, Interim Change 1, <i>CH Packaging Program Guidance</i> , DOE/WIPP 02-3184, Revision 0, <i>CH Packaging Operations Manual</i> and LANL Procedure TCWP-DTP-1.2-031, R.5, <i>Varian Porta-Test Leak Detector Calibration</i> . See Block 8 of CAR Continuation Sheet for specific requirements.		
9. Condition Adverse to Quality: Non-compliance with procedural sequential steps during minor TRUPACT-II maintenance and leak testing of the TRUPACT-II ICV. See Block 9 of the CAR Continuation Sheet for specific procedure non-compliances.		
10. Suggested Actions (Optional):		
11a. Significant CAQ	(Yes or No): Yes	
11b. Work Suspension Recommended	(Yes or No): No However, no TRU Waste should be loaded into a TRUPACT-II until corrected.	
11c. RCRA-Related	(Yes or No): No	
11d. Accelerated Corrective Action Required	(Yes or No): Yes	
12. Types of Actions: Remedial: <u>X</u> Investigative: <u>X</u> Root Cause: <u>X</u> Actions to Preclude Recurrence: <u>X</u>		
13. CAR Initiator: J. Willis/ T. Sellmer/ D. Scott		Date: 8/28/02
14. Response Due Date: <u>9/16/02</u>		Corrective Action Plan Required: YES
Required Corrective Action Completion Date: <u>10/9/02</u>		
15. a. Concurrence: _____	b. _____	NA _____
Assessment Team Leader	Date	Responsible Assistant Manager
Date	Date	Date
16. Corrective Actions Proposed by the Responsible Organization: Use CAR Continuation Sheet		
17. Acceptance of Proposed Corrective Actions:		
_____	_____	
Assessment Team Leader	Date	
18. Verification of Corrective Action Completion: (Use CAR Continuation Sheet)		
19a. Verified By: _____		
Name	Date	
19b. Trend Cause Code: _____		
20. Closure: _____		
Quality Assurance Manager	Date	

CBFO CORRECTIVE ACTION REPORT

(continuation sheet)

1. CAR No.: 02-079

2. Activity No.: A-02-30

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Block 4 Controlling Documents continued:

1. DOE/WIPP 02-3183, Revision 0, Interim Change 1, *CH Packaging Program Guidance*
2. DOE/WIPP 02-3184, Revision 0, *CH Packaging Operations Manual*
3. LANL Procedure TCWP-DTP-1.2-031, R.5, *Varian Porta-Test Leak Detector Calibration*.

Block 8 Requirements that were violated continued:

- 8a. DOE/WIPP 02-3183, Revision 0, Interim Change 1, *CH Packaging Program Guidance*, Attachment B – Approved Work Instructions, WI-CH.01, *Replacement of ICV/OCV Small Plugs, O-Rings, and Gaskets*, General Requirements, second bullet states: “Always replace the O-Ring or gasket if the plug or cover is replaced.” See Item 9a. below for specific violation of stated requirement.
- 8b. DOE/WIPP 02-3184, Revision 0, *CH Packaging Operations Manual*, Section 1.1 Purpose, second paragraph states in part: “This document details the instructions to be followed to operate, maintain, and test the TRUPACT-II and HalfPACT packaging. The intent of these instructions is to standardize operations. All users will follow these instructions or equivalent instructions that assure operations are safe and meet the requirements of the SARPs.” See Item 9b. below for specific violation of stated requirement.
- 8c. DOE/WIPP 02-3184, Revision 0, *CH Packaging Operations Manual*, Step 4.3.15 states: “Perform post-test calibration of leak detector and record results on Attachment 7.” Step 4.3.16 states in part: “Calculate ICV vent port plug O-ring seal leakage rate as follows:” TWCP-DTP-1.2-031, R.5, *Varian Porta-Test Leak Detector Calibration* provides instructions for calibration of the leak detector, including opening of the valve on the calibrated leak. See Item 9c. below for specific violation of stated requirement.

Block 9 Conditions Adverse to Quality continued:

- 9a. A new Outer Containment Vessel (OCV) Vent Port Plug was installed. However, a new Vent Port Plug O-Ring seal (Part Number 2077-160-17) was not installed as required by the Approved Work Instruction WI-CH.01 in Item 8a. above.
- 9b. The TRUPACT-II Technicians began the task of replacing an OCV lift pocket cover without an Approved Work Instruction (WI-CH.03) present. The operation was stopped by the lead technician, a copy of page 2 of 2 of WI-CH.03 was obtained, and the job proceeded to completion. Job was completed without obtaining Page 1 of 2 of WI-CH.03, which contains information pertinent to the task (including type of thread-locking compound to be used). Consequently, the wrong thread-locking compound was used on the job.
- 9c. During post-test calibration of the Helium Leak Detector (HLD) at Step 4.3.15, the Leak Test Examiner (LTE) never opened the valve on the calibrated standard leak to the HLD. However, the LTE performed the post-test calibration and was going to use the data to perform leak rate calculation of the Inner Containment Vessel (ICV) vent port seal test in accordance with Step 4.3.16 of DOE/WIPP 02-3184, Revision 0, *CH Packaging Operations Manual*

CBFO CORRECTIVE ACTION REPORT

(continuation sheet)

1. CAR No.: 02-080

2. Activity No.: A-02-30

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Block 4 Controlling Documents continued:

1. DOE/WIPP 02-3183, Revision 0, Interim Change 1, *CH Packaging Program Guidance*
2. DOE/WIPP 02-3184, Revision 0, *CH Packaging Operations Manual*
3. LANL Procedure TCWP-DTP-1.2-031, R.5, *Varian Porta-Test Leak Detector Calibration*, Section 6.5.1
4. ASNT, Recommended Practice No. SNT-TC-1A, June 1980

Block 8 Requirements that were violated continued:

- 8a. DOE/WIPP 02-3183, Revision 0, Interim Change 1, *CH Packaging Program Guidance*, Section 2.6, 1st paragraph states: "Users shall have the responsibility for a training program specific to this work scope to ensure qualified personnel, experienced in their assigned tasks, satisfactorily perform maintenance, nondestructive testing, leak testing, component replacement, and related operations. To ensure uniformity of training, Attachment C, Training Requirements, is included and provides the **minimal** requirements that must be included in site qualification cards for those sites, which use packaging. Users may supplement these requirements as appropriate."

DOE/WIPP 02-3183, Revision 0, Interim Change 1, *CH Packaging Program Guidance*, Attachment C, CH Packaging Qualification Requirements, 1st paragraph states: "The following guidelines establish the minimum training requirements for CH packaging operations. User site qualification cards SHALL include these items as a minimum. Users may separate the requirements to address different skills used to load a CH packaging per site requirements, as long as all areas are addressed by each site." See Item 9a. below for specific violation of stated requirements.

- 8b. DOE/WIPP 02-3183, Revision 0, Interim Change 1, *CH Packaging Program Guidance*, Section 2.6, 2nd paragraph states: "Leak test personnel shall meet the requirements of American Society of Nondestructive Testing (ASNT) Recommended Practice No. SNT-TC-1A.

ASNT Recommended Practice No. SNT-TC-1A, Section 8.3.2 NDT Level II states in part: "(1) General Examination – The recommended minimum number of Level II questions to be given are:

Test Method	Number of Questions
Leak Testing	20

LANL Procedure TWCP-QP-1.1-035, R.2, Written Practice for the Qualification of TWCP Nondestructive Examination Personnel, Section 6.5 states in part: "Each Level I (L) and Level II (L) examination shall consist of a general, specific, and practical exam, all approved by a Level III in the applicable NDE method.

- 6.5.1 The general examination shall be a closed book examination, it shall consist of at least the number of questions indicated in Minimum Number of Test Questions (Attachment 5) for the applicable method and shall cover the theory and principles of the method. This examination shall be completed within a period of two hours and shall have a percentile weight of 0.33."

See Item 9b. below for specific violation of stated requirements of items in 8b. above.

Block 9 Conditions Adverse to Quality continued:

- 9a. The following minimal requirements from DOE/WIPP 02-3183, Revision 0, Interim Change 1, *CH Packaging Program Guidance*, Attachment C, CH Packaging Qualification Requirements were not included in the LANL TRUPACT-II Technician Requalification Examination Record:

- C.2. Replace ICV/OCV lock ring bolt threaded inserts.
- C.3. Replace ICV lid debris seal.

In addition, LANL should review their LANL TRUPACT-II Technician Requalification Examination Record against DOE/WIPP 02-3183, Revision 0, Interim Change 1, *CH Packaging Program Guidance*, Attachment C, CH Packaging Qualification Requirements to ensure that all minimal training requirements are covered.

- 9b. No General examination was administered to personnel for Level II Leak Test requalification/certification.

CORRECTIVE ACTION REPORT

1. CAR No.: 02-081	2. Activity Report No.: A-02-30	3. Page <u>1</u> of <u>1</u> .
4. Controlling Document: CBFO Quality Assurance Description Document, CAO 94-1012, Rev. 3		5. CBFO Assessment Team Leader: A. Holland
6. Responsible Organization : LANL		7. CAQ Was Discussed With: P. Rogers
<p>8. Requirement that was violated: CBFO Quality Assurance Description Document, Section 2.1 WORK PROCESSES, A. Work shall be performed in accordance with established technical standards and administrative controls. Work shall be performed under controlled conditions using approved instructions, procedures, or other appropriate means.</p> <p>Hazardous Waste Facility Permit, NM 4890139088-TSDF, B4-3b, last paragraph: "Furthermore, the Permittees shall require the sites to implement procedure(s) which specify the administrative controls used by the site to ensure that prohibited items are documented and managed in accordance with site-specific certification plans."</p>		
<p>9. Condition Adverse to Quality: LANL has eliminated the use of the Prohibited Waste Report for control of prohibited items. The administrative controls used by LANL to ensure that prohibited items are documented and managed are not specified in LANL implementing procedures for the database system presently used for this purpose.</p>		
10. Suggested Actions (Optional):		
<p>11a. Significant CAQ (Yes or No): Yes 11b. Work Suspension Recommended (Yes or No): No 11c. RCRA-Related (Yes or No): Yes 11d. Accelerated Corrective Action Required (Yes or No): Yes</p>		
12. Types of Actions: Remedial: <input checked="" type="checkbox"/> Investigative: <input checked="" type="checkbox"/> Root Cause: <input checked="" type="checkbox"/> Actions to Preclude Recurrence: <input checked="" type="checkbox"/> .		
13. CAR Initiator: <u>N. Frank</u> Date: <u>9/4/02</u> .		
<p>14. Response Due Date: <u>9/16/02</u> Corrective Action Plan Required: YES Required Corrective Action Completion Date: <u>10/9/02</u></p>		
<p>15. a. Concurrence: _____ b. _____ NA _____ NA _____ <small>Assessment Team Leader Date Responsible Assistant Manager Date</small></p> <p>c. _____ <small>Quality Assurance Manager Date</small></p>		
16. Corrective Actions Proposed by the Responsible Organization: Use CAR Continuation Sheet		
17. Acceptance of Proposed Corrective Actions:		
<p>_____ Assessment Team Leader _____ Date _____</p>		
18. Verification of Corrective Action Completion: (Use CAR Continuation Sheet)		
<p>19a. Verified By: _____ Name _____ Date _____</p>		
19b. Trend Cause Code: _____		
20. Closure: _____ Quality Assurance Manager _____ Date _____		

CORRECTIVE ACTION REPORT

1. CAR No.: 02-082	2. Activity Report No.: A-02-30	3. Page <u>1</u> of <u>5</u> .
4. Controlling Document: TWCP-QP-1.1-006, R9	5. CBFO Assessment Team Leader: A. Holland	
6. Responsible Organization: : LANL	7. CAQ Was Discussed With: V. Clark, S. Betts, D. Miko	
8. Requirement that was violated: See attached Continuation Sheets for partial listing of the requirements that were not met.		
9. Condition Adverse to Quality: Documentation supporting the primitive baseline for Master Scan 3.1.5 did not meet the requirements of LANL procedure TWCP-QP-1.1-006, R9. See attached Continuation Sheets for partial listing of details.		
10. Suggested Actions (Optional): _____		
11a. Significant CAQ	(Yes or No):	No
11b. Work Suspension Recommended	(Yes or No):	No
11c. RCRA-Related	(Yes or No):	No
11d. Accelerated Corrective Action Required	(Yes or No):	No
12. Types of Actions: Remedial: <u>X</u> Investigative: <u>X</u> Root Cause: <u> </u> Actions to Preclude Recurrence: <u> </u> .		
13. CAR Initiator: <u>N. Frank</u> Date: <u>9/4/02</u>		
14. Response Due Date: <u>10/9/02</u> Corrective Action Plan Required: YES Required Corrective Action Completion Date: <u>NA</u>		
15. a. Concurrence: _____ Assessment Team Leader Date	b. <u>NA</u> _____ Responsible Assistant Manager Date	<u>NA</u> _____ Date
c. <u>NA</u> _____ Quality Assurance Manager Date		
16. Corrective Actions Proposed by the Responsible Organization: Use CAR Continuation Sheet		
17. Acceptance of Proposed Corrective Actions: _____ Assessment Team Leader Date		
18. Verification of Corrective Action Completion: (Use CAR Continuation Sheet)		
19a. Verified By: _____ Name Date		
19b. Trend Cause Code: _____		
20. Closure: _____ Quality Assurance Manager Date		

CBFO CORRECTIVE ACTION REPORT

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1. CAR No: 02-082

2. Activity No.: A-02-30

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Block # 8 Requirement that was violated:

Item #1:

6.1.1 Quality measures are summarized using the software category type in Appendix A and constitute the minimum QA requirements.

Table 1. Software QA Requirements

Software Category (Section)	SQAP 6.4.1	RD 6.4.2	VVP 6.4.2	DD 6.4.3	ID 6.4.4	UM 6.4.4	VD 6.4.5	IC 6.4.6	CI 6.5	CC 6.7	CR 6.8	AC 6.4.6	SPR 6.6	Note
Firmware DAS	x	—	—	—	—	—	—	—	—	—	—	—	—	1
Purchased DAS (6.3)	x	2	12	—	—	4	3,5	3,10	x	6	x	x	x	13
Developed DAS (6.2)	x	x	x	9	x	x	3	3,10	x	x	x	x	x	13
Commercial (Off-the- Shelf) Software (6.3)	x	2	12	—	—	4	5,12	x	x	6	x	x	x	11,13
QA-Vendor-Software (6.2)	x	7	7	7,9	7,8	7	7	x	x	6	x	x	x	13
Vendor-Software (6.2 or 6.3)	x	2	12	—	8	4	5,12	x	x	6	x	x	x	13
LANL Software (6.4)	x	x	x	9	x	x	x	x	x	x	x	x	x	13
System Software	—	—	—	—	—	—	—	—	—	—	—	—	—	14

Item #2:

6.1.9 QA records produced by this procedure are assigned a revision identification number (ID #):

n.m

where *n* is the major field and *m* is the minor field.

Item #3:

6.3.1 The code sponsor develops the SQAP and, if appropriate, proposes the purchase of the software to meet the needs defined in the SQAP in accordance with *Procurement* (TWCP-QP-1.1-005). A memorandum justifying the purchase or other acquisition, requirements, and intended use is attached to the purchase requisition form, if it is not documented in another official record (in which case, reference to such record(s) shall be included in the purchase documentation).

CBFO CORRECTIVE ACTION REPORT

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1. CAR No: 02-082

2. Activity No.: A-02-30

3. Page 3 of 5

Block # 8 Requirement that was violated:

Item #4:

6.3.4 The code sponsor then develops the software documentation, including the software cover sheet, software QA categorization, requirements, scope and application, and list of existing documents, called a primitive baseline.

Item #5:

6.3.5 The code sponsor reviews and documents the adequacy of the primitive baseline to determine the following in accordance with the QA measures identified in Appendix A:

- Adequacy of existing verification and validation and software documentation to support operation and maintenance.
- Activities to be performed and the documentation necessary to accept the software for its intended use and place it under configuration control.

The code sponsor documents the evaluation and includes at a minimum:

- User application requirements
- Test plans and test cases required to validate the software acceptability
- User documentation (Section 6.1.12)

Item #6:

6.3.6 The code sponsor documents the results of the review and actions taken to meet the applicable QA measures identified in a memorandum with software cover sheet (referred to as the primitive baseline review memorandum), documents installation and checkout of the software in accordance with Section 6.4.6, and forwards the documentation to the SQA/O.

Item #7:

6.3 Software Developed Under Other QA Programs

Software developed under other QA programs consists of software that was not developed or approved under a QA program consistent with the QAPD. This includes commercial (off-the-shelf) and legacy software. The process of qualifying such software for production is provided below. Several documents may be produced from this section in addition to the SQAP (Section 6.4.1), a primitive baseline memorandum (including the review of the primitive baseline), documents associated with Sections 6.4.2 through 6.4.5, and/or equivalent documentation. Software is documented for installation and checkout in accordance with Section 6.4.6.

Item #8:

CBFO Quality Assurance Description Document, CAO 94-1012, Rev. 3

2.1 WORK PROCESSES

A. Work shall be performed in accordance with established technical standards and administrative controls. Work shall be performed under controlled conditions using approved instructions, procedures, or other appropriate means.

CBFO CORRECTIVE ACTION REPORT

(continuation sheet)

1. CAR No: 02-082	2. Activity No.: A-02-30	3. Page <u>4</u> of <u>5</u>
<p>Block # <u>9</u> Condition Adverse to Quality:</p> <p><u>Item #1:</u></p> <p>Records package TWCP-07580, which was presented as the primitive baseline for Master Scan, did not include the users manual. The last page of the results in the SQAP was a mirror image of the actual page.</p> <p>Records package TWCP-09724 was prepared during the audit and presented as the primitive baseline for Master Scan. This included the users manual, but introduced other instances where the procedure was not met (see Item #7 below).</p> <p><u>Item #2:</u></p> <p>The SQAP did not have a revision identification number (ID#) assigned to it. The users manual did not have a revision identification number (ID#) assigned to it. The users manual does not include the use of Master Analysis.</p> <p><u>Item #3:</u></p> <p>The SQAP was developed (1/17/02) after receipt of the software (approx. 9/15/00), not before.</p> <p><u>Item #4:</u></p> <p>Neither TWCP-09724 nor TWCP-07580 had the software cover sheet or list of existing documents.</p> <p><u>Item #5:</u></p> <p>The code sponsor had not documented the adequacy review of the primitive baseline. (ref. TWCP-09724 and TWCP-07580).</p> <p><u>Item #6:</u></p> <p>No "primitive baseline review memorandum" was made available to the auditor. Records package TWCP-07580 included I & C forms for PN 960363 for Maestro. It was not clear if Maestro included Master Scan and Master Analysis.</p> <p><u>Item #7:</u></p> <p>It is not clear what documentation is required for this section. Attachment A requires an SQAP, RD, VVP, UM, and VD. This paragraph then appears to invoke Paragraphs 6.4.1 (SQAP), 6.4.2 (RD), 6.4.4 (UM), and 6.4.5 (VVP and VD).</p> <p>A review of TWCP-07580 showed that none of the review checklists Attachments 2, 3, 4, 7, and 10 were included. TWCP-09724 was presented with the required checklists, but these did not all meet the requirements of the respective paragraphs. For example, Attachment 7 for the users manual was to provide the minimum content of the users manual. Eight of the ten required content items were checked "No" meaning that the information was not included in the users manual.</p>		

CBFO CORRECTIVE ACTION REPORT

(continuation sheet)

1. CAR No: 02-082

2. Activity No.: A-02-30

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Block # 9 Condition Adverse to Quality:

Item #8:

Master Analysis was given to LANL free by ANTECH, and control of free software is not described in the LANL procedure (TWCP-QP-1.1-006, R9).

CORRECTIVE ACTION REPORT

1. CAR No.: 02-083	2. Activity Report No.: A-02-30	3. Page <u>1</u> of <u>1</u>
4. Controlling Document: TWCP-PLAN-0.2.4-001,R.6	5. CBFO Assessment Team Leader: A. Holland	
6. Responsible Organization: LANL TWCP	7. CAQ Was Discussed With: M. Baker, D. Miko	
8. Requirement that was violated: TWCP-PLAN-0.2.4-001,R.6, Section A3, requires that, The lower limit of detection (LLD) for each radioassay system must be determined.		
9. Condition Adverse to Quality: There is no objective evidence that lower limits of detection (LLD) has been determined for these NDA systems: PTGS, MTGS, HENC, and CTEN.		
10. Suggested Actions (Optional):		
11a. Significant CAQ (Yes or No): No 11b. Work Suspension Recommended (Yes or No): No 11c. RCRA-Related (Yes or No): No 11d. Accelerated Corrective Action Required (Yes or No): No		
12. Types of Actions: Remedial: <input checked="" type="checkbox"/> Investigative: <input checked="" type="checkbox"/> Root Cause: ___ Actions to Preclude Recurrence: ___		
13. CAR Initiator: <u>P. Kelly/P. Martinez</u> Date: <u>9/4/2002</u>		
14. Response Due Date: <u>10/9/02</u> Corrective Action Plan Required: YES Required Corrective Action Completion Date: <u>NA</u>		
15. a. Concurrence: _____ b. _____ NA _____ NA _____ Assessment Team Leader Date Responsible Assistant Manager Date c. _____ NA _____ NA _____ Quality Assurance Manager Date		
16. Corrective Actions Proposed by the Responsible Organization: Use CAR Continuation Sheet		
17. Acceptance of Proposed Corrective Actions: _____ Assessment Team Leader Date		
18. Verification of Corrective Action Completion: (Use CAR Continuation Sheet)		
19a. Verified By: _____ Name Date		
19b. Trend Cause Code: _____		
20. Closure: _____ Quality Assurance Manager Date		

CORRECTIVE ACTION REPORT

1. CAR No.: 02-084	2. Activity Report No.: A-02-30	3. Page <u>1</u> of 1
4. Controlling Document: WAP, QP-1.1-028, Revision 7	5. CBFO Assessment Team Leader: Ava Holland	
6. Responsible Organization: : LANL	7. CAQ Was Discussed With: Marji Gavett, Marvis Lin	
8. Requirement that was violated: WAP B1-3b(3): The result of visual examination will be transmitted to the radiography facility. QP-1.1-028, Revision 7, Section 6.4: transmit a copy of the visual examination comparison summaries and set of tables to the operation leader for Real-Time-Radiography (RTR).		
9. Condition Adverse to Quality: Visual examination comparison summaries and comparison tables had not been transmitted to the radiography facility.		
10. Suggested Actions (Optional): _____		
11a. Significant CAQ (Yes or No): No 11b. Work Suspension Recommended (Yes or No): No 11c. RCRA-Related (Yes or No): Yes 11d. Accelerated Corrective Action Required (Yes or No): Yes		
12. Types of Actions: Remedial: <u> X </u> Investigative: <u> X </u> Root Cause: <u> X </u> Actions to Preclude Recurrence: <u> X </u>		
13. CAR Initiator: <u> Steven D. Calvert </u> Date: <u> 9/4/02 </u>		
14. Response Due Date: <u> 9/16/02 </u> Corrective Action Plan Required: YES Required Corrective Action Completion Date: <u> 10/9/02 </u>		
15. a. Concurrence: _____ Date _____ b. <u> NA </u> _____ Date _____ <div style="display: flex; justify-content: space-around; font-size: small;"> Assessment Team Leader Responsible Assistant Manager </div> c. <u> NA </u> _____ <u> NA </u> _____ <div style="display: flex; justify-content: space-around; font-size: small;"> Quality Assurance Manager Date </div>		
16. Corrective Actions Proposed by the Responsible Organization: Use CAR Continuation Sheet		
17. Acceptance of Proposed Corrective Actions: _____ Date _____ <div style="display: flex; justify-content: space-around; font-size: small;"> Assessment Team Leader Date </div>		
18. Verification of Corrective Action Completion: (Use CAR Continuation Sheet)		
19a. Verified By: _____ Date _____ <div style="display: flex; justify-content: space-around; font-size: small;"> Name Date </div>		
19b. Trend Cause Code: _____		
20. Closure: _____ Date _____ <div style="display: flex; justify-content: space-around; font-size: small;"> Quality Assurance Manager Date </div>		

CORRECTIVE ACTION REPORT

1. CAR No.: 02-085	2. Activity Report No.: A-02-30	3. Page <u>1</u> of 1
4. Controlling Document: WAP, QP-1.1-039, Revision 0, IC1	5. CBFO Assessment Team Leader: Ava Holland	
6. Responsible Organization: : LANL	7. CAQ Was Discussed With: Pam Rogers	
8. Requirement that was violated: QP-1.1-039, Revision 0, IC1, Section 6.4: Converting RTR Volumes to Estimated Weights.		
9. Condition Adverse to Quality: The Radiography Data Report forms (using RTR 1.03) identify the slope table date as 6/19/00. The most recent RTR Volume to Weight Conversion Report is dated 9/22/00. There is no report dated 6/19/00.		
10. Suggested Actions (Optional): _____		
11a. Significant CAQ (Yes or No): No 11b. Work Suspension Recommended (Yes or No): No 11c. RCRA-Related (Yes or No): No 11d. Accelerated Corrective Action Required (Yes or No): No		
12. Types of Actions: Remedial: <input checked="" type="checkbox"/> Investigative: <input checked="" type="checkbox"/> Root Cause: _____ Actions to Preclude Recurrence: _____		
13. CAR Initiator: <u>Karen Gaydosh/Amelia I. Arceo</u> Date: <u>9/4/02</u>		
14. Response Due Date: <u>10/9/02</u> Corrective Action Plan Required: YES Required Corrective Action Completion Date: <u>NA</u>		
15. a. Concurrence: _____ b. _____ c. _____ <small>Assessment Team Leader Date Responsible Assistant Manager Date</small> <small>Quality Assurance Manager Date</small>		
16. Corrective Actions Proposed by the Responsible Organization: Use CAR Continuation Sheet		
17. Acceptance of Proposed Corrective Actions: _____ <small>Assessment Team Leader Date</small>		
18. Verification of Corrective Action Completion: (Use CAR Continuation Sheet)		
19a. Verified By: _____ <small>Name Date</small>		
19b. Trend Cause Code: _____		
20. Closure: _____ <small>Quality Assurance Manager Date</small>		