



Department of Energy
Yucca Mountain Site Characterization
Project Office
P. O. Box 98608
Las Vegas, NV 89193-8608

WBS 1.2.9.3
QA

OCT 16 1991

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ISSUANCE OF CORRECTIVE ACTION REQUESTS (CARS) YM-92-001, YM-92-002, AND
YM-92-003 RESULTING FROM YUCCA MOUNTAIN QUALITY ASSURANCE DIVISION (YMQAD)
AUDIT YMP-92-01 OF LOS ALAMOS NATIONAL LABORATORY

Enclosed are CARS YM-92-001 through YM-92-003 generated as a result of YMQAD
Audit YMP-92-01.

Please identify the corrective actions to be taken and implemented to correct
the deficiencies. CAR Continuation Sheets and instructions for completion
have been provided. Send the originals of your responses to Nita J. Brogan,
Science Applications International Corporation, Las Vegas, Nevada. Responses
to the CARS are due 20 working days from the date of this letter. Extensions
to due dates must be requested in writing with appropriate justification
prior to the due dates.

If you have any questions, please contact either Catherine E. Hampton at
(702) 794-7973 or FTS 544-7973, or Richard E. Powe at (702) 794-7749 or
FTS 544-7749.

Richard E. Spence, Director
Yucca Mountain Quality Assurance Division

YMQAD:CEH-336

Enclosure:
CARS YM-92-001, YM-92-002,
and YM-92-003

YMP-5
9111010279 911016
PDR WASTE
WM-11 PDR

ADD: Ken Hooks Ltr. Encl.

102-7
WM-11
NH03

OCT 16 1991

Richard J. Herbst

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cc w/encl:

K. R. Hooks, NRC, Washington, ~~██████████~~
S. W. Zimmerman, NWPO, Carson City, NV
S. L. Bolivar, LANL, Los Alamos, NM
M. J. Clevenger, LANL, Los Alamos, NM
J. L. Day, LATA, Los Alamos, NM
C. H. Prater, SAIC, Las Vegas, NV, 517/T-06
H. C. Stafford, MACTEC, Las Vegas, NV

cc w/o encl:

J. B. Tillman, LAO
J. W. Hines, OQD, AL
A. R. Chernoff, MSD, AL
J. W. Gilray, NRC, Las Vegas, NV
N. J. Brogan, SAIC, Las Vegas, NV, 517/T-08

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

14CAR NO.: YM-92-001
 DATE: 10/09/91
 SHEET: 1 OF 1
 QA
 WBS No.: 1.2.9.3

CORRECTIVE ACTION REQUEST

1 Controlling Document LANL-YMP-QP-04.4, Rev. 0, & LANL-YMP-QP-04.5, Rev. 0	2 Related Report No. Audit YMP-92-01
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3 Responsible Organization Los Alamos Nat'l. Lab.	4 Discussed With M. Cleavenger & S. Bolivar
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10 Response Due 20 days from issue	11 Responsibility for Corrective Action R. Herbst	12 Stop Work Order Y or N No
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5 Requirement:

1. LANL-YMP-QP-04.4, Rev. 0, Para. 2.0, states in part, "...However, maintenance/repair services that involve calibration as part of that service will be procured pursuant to LANL-YMP-QP-04.5."
2. LANL-YMP-QP-04.5, Rev. 0, Para. 4.2, Definitions states, "A noncommercial grade service is the performance of activities that include, but are not limited to site characterization, design, fabrication, investigation, inspection, nondestructive examination, calibration, or installation and for which controls for acceptance are set prior to procurement."
3. LANL-YMP-QP-04.5, Rev. 0, Para. 6.2.1 states in part, "...The requester, QAL, or QAS evaluates a supplier for qualification..."

6 Adverse Condition:

Contrary to the above, Los Alamos has purchased calibration services as commercial grade services and has not qualified the vendor.

DISCUSSION

1. Purchase Requisition (PR) No. Q8608 concerning the procurement of calibration services from Simco was processed according to LANL-YMP-QP-04.4., Rev. 0 instead of LANL-YMP-QP-04.5, Rev. 0 as required.
2. The Simco calibration services were identified as a commercial-grade service instead of a noncommercial-grade service.
3. Simco has not been qualified as a provider of calibration services.
4. ASME NQA-1-1989 does not define commercial-grade services, (see attached ASME NQA-1 Interpretation QA89-003).

7 Recommended Action(s):

1. Correct deficiency identified by obtaining calibration from a qualified source.
2. Investigate to determine if similar procurements have been made.
3. Take action to prevent recurrence.

8 Initiator <i>KRP</i> K.I. McFall <i>Kenneth McFall</i>	Date: 10/4/91	9 Severity Level - 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/>	13 Approved By: OQA <i>R.C. Spence</i>	Date: 10/15/91
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15 Verification of Corrective Action:

16 Corrective Action Completed and Accepted: QAR _____ Date _____	17 Closure Approved By: OQA _____
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File: QA89-003

Subject: ANSI/ASME NQA-1-1986 Edition, and later Addenda through 1c-1988, S-1; 4S-1, Para. 2; 7S-1, Paras. 3.1 and 10; Commercial Grade Services — Subtier Suppliers

Date Issued: November 21, 1989

Question (1): Does ANSI/ASME NQA-1, 7S-1 require that suppliers of commercial grade calibration services for safety-related measuring and testing equipment be evaluated in accordance with para. 3.1?

Reply (1): ANSI/ASME NQA-1 defines commercial grade items in Supplement S-1 and addresses purchasing commercial grade items in Supplement 7S-1, para. 10 but commercial grade services are not defined.

However, ANSI/ASME NQA-1 does include requirements for the control of purchased services as defined by ANSI/ASME NQA-1, Supplement S-1, including supplier selection, bid evaluation, supplier performance evaluation, acceptance of services, and verification of conformance. See Supplement 7S-1 for specific requirements.

Question (2): Do the requirements of ANSI/ASME NQA-1, 7S-1, para. 3.1 for evaluation of suppliers of services apply through succeeding levels of subtier suppliers?

Reply (2): Yes, procurement documents issued at all tiers of procurement shall include provisions deemed necessary by the purchaser at each tier. See ANSI/ASME NQA-1, 4S-1, para. 2.

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14CAR NO.: YM-92-002
DATE: 10/09/91
SHEET: 1 OF 1
QA
WBS No.: 1.2.9.3

CORRECTIVE ACTION REQUEST

1 Controlling Document TWS-QAS-QP-08.1, Rev. 1	2 Related Report No. Audit YMF-92-01
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3 Responsible Organization Lc: Alamos Nat'l. Lab.	4 Discussed With S. Bolivar
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10 Response Due 20 days from issue	11 Responsibility for Corrective Action R. Herbst	12 Stop Work Order Y or N No
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5 Requirement:
TWS-QAS-QP-08.1, Rev. 1, Para. 6.4, states in part, "...If samples are shipped by the SMF, the PI determines that the manner utilized will not degrade the samples and will record such in a notebook."

6 Adverse Condition:
No objective evidence could be produced to demonstrate implementation of the requirement to document that the manner utilized to ship samples from the SMF will not degrade the samples.

DISCUSSION
Examples of samples received from the SMF for which this requirement has not been documented are core samples Nos. 0016408, 0016409, 0016410, and 0016412.

7 Recommended Action(s):

1. Take action to correct the deficiencies identified.
2. Investigate to determine if there are other similar deficiencies.
3. Take action to preclude recurrence.

8 Initiator <i>ASP</i> J.S. Martin <i>John</i>	Date: 10/4/91	9 Severity Level - 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/>	13 Approved By: OQA <i>R.C. Spence</i> <i>10/15/91</i>
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15 Verification of Corrective Action:

16 Corrective Action Completed and Accepted: QAR _____ Date _____	17 Closure Approved By: OQA _____
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14CAR NO.: YM-92-003
DATE: 10/09/91
SHEET: 1 OF 1
QA
WBS No.: 1.2.9.3

CORRECTIVE ACTION REQUEST

1 Controlling Document TWS-QAS-QP-12.1, Rev. 4	2 Related Report No. Audit YMP-92-01
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3 Responsible Organization Los Alamos Nat'l. Lab.	4 Discussed With S. Bolivar
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10 Response Due 20 days from issue	11 Responsibility for Corrective Action R. Herbst	12 Stop Work Order Y or N No
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5 Requirement:
TWS-QS-QP-12.1, Rev. 4, Para. 6.3, states in part, "...Instruments are calibrated by LANL's Standards and Calibration Group, by a service organization or by the operator. Individuals who perform calibrations...use written procedures."

6 Adverse Condition:
Contrary to the above, the Laboratory has performed calibrations to memos/draft procedures.

DISCUSSION
Examples include use of Memo No. TWS-EES-13-11-90-002 to perform calibrations for standards nos. 4526, 4527, and 4528. In addition, the automated digital electron microscope (ADEM) No. PN 840982 was calibrated utilizing a draft procedure. (Reference draft TWS-EES-DP-129).

7 Recommended Action(s):

1. Correct the deficiencies identified.
2. Investigate to determine if there are other similar deficiencies.
3. Take action to preclude recurrence.

8 Initiator <u>J.S. Martin</u> <u>JSM</u>	Date: 10/4/91	9 Severity Level - 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/>	13 Approved By: <u>R.C. Spence</u>	Date: 10/15/91
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15 Verification of Corrective Action:

16 Corrective Action Completed and Accepted: QAR _____ Date _____	17 Closure Approved By: OQA _____
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