



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

WBS 1.2.9.3

JUN 05 1992

Carl P. Gertz, Project Manager, YMP, NV

VERIFICATION OF CORRECTIVE ACTION AND CLOSURE OF CORRECTIVE ACTION REQUEST (CAR) YM-92-007 RESULTING FROM YUCCA MOUNTAIN QUALITY ASSURANCE DIVISION (YMQAD) AUDIT YMP-91-I-01

The YMQAD staff has verified the corrective action to CAR YM-92-007 and determined the results to be satisfactory. As a result, the CAR is considered closed.

If you have any questions, please contact either Robert B. Constable at 794-7945 or Richard L. Maudlin at 794-7290.

Robert B. Constable

Richard E. Spence, Director
 Yucca Mountain Quality Assurance Division

YMQAD:RBC-3773

Enclosure:
 CAR YM-92-007

cc w/encl:

- * K. R. Hooks, NRC, Washington, DC
- S. W. Zimmerman, NWPO, Carson City, NV
- J. W. Estella, SAIC, Las Vegas, NV, 517/T-22
- B. J. Verna, YMP, NV

cc w/o encl:

- J. W. Gilray, NRC, Las Vegas, NV
- N. J. Brogan, SAIC, Las Vegas, NV, 517/T-12

Note: 2nd Distribution previously processed with missing enclosure

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YMP-5
 9206150291 920605
 PDR WASTE
 WM-11 PDR

ADD: Ken Hooks

4tr. Encl
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**OFFICE OF CIVILIAN
RADIOACTIVE WASTE MANAGEMENT
U.S. DEPARTMENT OF ENERGY
WASHINGTON, D.C.**

14CAR NO.: YM-92-007
 DATE: 10/29/91
 SHEET: 1 OF 2
 QA
 WBS No.: 1.2.9.3

CORRECTIVE ACTION REQUEST

1 Controlling Document QAPD, DOE/RW-0215, Revision 3, ICN 3.1		2 Related Report No. Audit Report YMP-91-I-01	
3 Responsible Organization YMPO Procurement		4 Discussed With G. Phillips, C. Gertz	
10 Response Due 11/18/91	11 Responsibility for Corrective Action C. Gertz	12 Stop Work Order Y or N No	

5 Requirement:
 QAPD, Revision 3, Section 4.0, Subsection 4.1 states: "Procedures are established and implemented for the control of procurement documents. The procedures define the methods and responsibilities for procurement planning and changes thereto. Procurement planning includes identifying the need for a specific service, determining the specific work to be accomplished, identifying appropriate technical and quality requirements, and identifying sources for the work."
 Subsection 4.4 states in part: "Changes to procurement documents, other than minor changes...receive the same degree of control as utilized for the original documents."
 Section 5.0, Subsection 5.1 states in part: "Procedures are developed and implemented to ensure that methods to be used for performance of activities affecting quality are prescribed in documented plans, procedures, and instructions."

6 Adverse Condition:
 Contrary to the above, neither QMP-04-02, Revision 0, ICN 1, or any other approved quality procedure adequately describes the procurement process for the preparation, review, approval and issuance of Management Agreements, Memoranda of Understanding or other similar documents such as guidance letters/technical letters which utilize existing open contracts maintained by the DOE Field Operations Offices to perform YMPO Project specific work.
 The following statements are provided to support the above stated adverse condition.
 A. For example, a guidance/technical letter (RSED:JRD-1991) was issued on 3/13/91 to the San Francisco Operations Office which dealt with Lawrence Berkeley Laboratory (LBL). Subsequent to that letter, on June 20, 1991, a Management Agreement was established between YMPO and the San Francisco Operations Office. The agreement was to allow assignment of YMPO quality affecting activities to San Francisco Operations Office

7 Recommended Action(s):
 a. Develop an interim plan for procurement methodologies to control non-YMPO contracts, as deemed necessary, prior to issuance of a procedure that addressed the procurement issues identified in this CAR. In addition, consider the following

8 Initiator <u>R. L. Maudlin</u> <u>R. L. Maudlin</u>	Date: <u>11/7/91</u>	9 Severity Level - 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/>	13 Approved By: <u>R. L. Maudlin</u>	Date: <u>11/8/91</u>
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15 Verification of Corrective Action:
see Evaluation and Closure report dated 06-01-92

16 Corrective Action Completed and Accepted: <u>R. L. Maudlin</u>	Date: <u>06-01-92</u>	17 Closure Approved By: <u>Robert C. ...</u>	Date: <u>6/1/92</u>
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WASHINGTON, D.C.

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DATE: 10/29/91

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CORRECTIVE ACTION REQUEST
(continuation sheet)

6 Adverse Condition (continued)

contractors LLNL and LBL for which San Francisco Operations Office has an existing non-YMPO contract. Subsequent to the issuance of the Management Agreement, a guidance/technical letter (RSED:JRD-5069) was issued by YMPO to San Francisco Operations Office on August 13, 1991, which revised the specifics of the work to be performed. On 10/11/91, another guidance/technical letter (RSED:JMB-5500) was issued by YMPO directly to LBL.

The process by which the above example was accomplished is not defined in any YMPO approved quality procurement procedure.

- B. The Management Agreements have not been processed to the Central Records files.

7 Recommended Action(s) (continued)

recommendations when developing the interim plan.

- b. Obtain written confirmation from Headquarters as to which contracts have been transferred to YMPO control. (Refer to letter, YMF-JB-3866, dated 6/25/90).
- c. Conduct an indepth investigation into all existing procurements and identify which DOE Field Operation Offices are being directed to have their contractors perform quality-affecting work and list all of the contractors who are performing this work. Also, list by Field Operations Office and subordinate contractor what specific work is being accomplished and by who. Identify the Division Directors within YMPO who have delegated work in this manner and what specific task by WBS has been assigned.
- d. If quality-affecting work is being or may be performed by one of these contractors without an OCRWM approved QA program, take immediate action to suspend all quality-affecting work until their QA program has been approved.
- e. Investigate to determine if any quality-affecting work has been performed without an OCRWM approved QA program. If any quality-affecting work has been performed, determine what the effect on quality was in the absence of an approved QA program.
- f. Develop a comprehensive procurement procedure which addresses all aspects of procurement in any form which it may take.
- g. Investigate to determine if appropriate QA records of procurement documents exist and are properly located.
- h. Determine the cause of this condition and take measures to preclude recurrence.

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CAR NO. YM-92-007
DATE: 11/15/91
SHEET: 1 OF 2

CORRECTIVE ACTION REQUEST
(continuation sheet)

CORRECTIVE ACTION RESPONSE:

1. CORRECTIVE ACTION FOR DEFICIENT CONDITION

A. Extent of Deficiency: The extent of this deficiency at this time is indeterminant. The YMPO plans to take the following actions in order to address the extent of the deficiency:

- (1) YMPO will obtain written confirmation from Headquarters as to which contracts have been transferred to YMPO control. A letter requesting this information will be transmitted to Headquarters no later than November 22, 1991, requesting a response by December 27, 1991. Responsibility for this action is assigned to Garth Phillips.
- (2) YMPO will conduct an in-depth investigation into all existing procurements and identify which DOE Field Operation Offices are being directed to have their contractors perform quality-affecting work and list all of the contractors who are performing this work. Included in this will be a list by Field Operations Office and subordinate contractor what specific work is being accomplished and by whom. We will also identify the Division Directors within YMPO who have delegated work in this manner and what specific task by WBS has been assigned. A draft of this listing will be complete by December 6, 1991. A final listing will be created after the written confirmation of contracts has been received from Headquarters (per item (1), above). Responsibility for the completion of this action is assigned to Gary Roberson.
- (3) If it is determined that quality-affecting work is being or may be performed by one of these contractors without an OCRWM approved QA program, immediate action will be taken to suspend all quality-affecting work until the contractor QA program has been approved. The actions to suspend all quality-affecting work will be taken within 72 hours after they are identified. Responsibility for this action is assigned to the responsible Division Directors, with coordination provided by Gary Roberson.

Ltr dtd 11/15/91 - YMP: RVB - 863

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

CAR NO. YM-92-007

DATE: 11/15/91

SHEET: 2 OF 2

CORRECTIVE ACTION REQUEST
(continuation sheet)

- B. Root Cause: Due to the complex nature of this deficiency, the root cause is still under determination. The results of this determination will be provided to you by December 1, 1991, in a supplemental response to this Corrective Action Request.
- C. Remedial Action: The following remedial actions have been or will be taken to address this deficient condition:
- (1) YMPO has developed an interim plan for procurement methodologies to control non-YMPO contracts, as deemed necessary, prior to issuance of a procedure that addressed the procurement issues identified in this CAR. The recommended actions outlined in the CAR have been considered in the development of the interim plan. The interim plan is documented in a memorandum from Carl Gertz to Distribution, YMP:MBB-764, dated November 12, 1991, a copy of which is attached for your information. This action is complete.
 - (2) Following the completion of the investigation described in item A, (2), above, YMP will determine if any quality-affecting work has been performed without an OCRWM approved QA program. If any quality-affecting work has been performed, we will determine what the effect on quality was in the absence of an approved QA program. This determination will be completed within 30 working days of the identification of the performance of the quality-affecting work. Responsibility for completion of this action is assigned to the responsible Division Director, with oversight from Robert Barton.
 - (3) The YMP will investigate to determine if appropriate QA records of procurement documents exist and are properly located. This investigation will be complete by December 6, 1991, with a plan to submit any records by January 10, 1992. Responsibility for this action is assigned to Garth Phillips.
- D. Corrective Action to Prevent Recurrence: This action will be established upon completion of the root cause analysis and will be provided as part of the supplemental response on December 1, 1991.

Response Approved: Maxwell Blanchard
Responsible Manager

11-15-91
Date

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

CAR NO. YM-92-007
DATE: 11/19/91
SHEET: _____ OF _____

CORRECTIVE ACTION REQUEST
(continuation sheet)

Response Accepted: _____ Date _____
QAR

Response Accepted: _____ Date _____
OQA

SEE AMENDED RESPONSE.



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

WBS 1.2.9.1.1.Y
QA

NOV 12 1991

Distribution

DEVELOPING INTERIM GUIDANCE FROM THE U.S. DEPARTMENT OF ENERGY (DOE) TO YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT (YMP) PARTICIPANTS FOR PERFORMING WORK THAT IS SUPPORTING ITEMS ON THE Q-LIST (REFERENCE YMP 90-55, REVISION 0) OR THE QUALITY ACTIVITIES LIST (REFERENCE YMP 90-56, REVISION 4)

As a result of reviewing the draft information provided to me by Richard Powe, lead auditor, after the Quality Assurance (QA) Audit of the YMP, I have decided that this office will adopt the following process for issuing program or technical guidance, directions, instructions or clarifications to any participant that will perform work that is expected to be quality affecting when implementing the guidance, directions, instructions or clarifications. This process will apply to new work, changes to ongoing work, and any ongoing work that is not yet covered by an existing grading package, and will remain in effect until we can implement an approved procedure, now under development, that will describe the process YMP uses to ensure that no quality-affecting work will be done without clear evidence that it adequately meets the provisions of Administrative Procedure 5.28Q (Quality Assurance Grading) and, hence, satisfies the applicable parts of the Quality Assurance Requirements Document.

Until further notice, please implement the following:

1. When preparing letters containing quality-affecting program or technical guidance, directions, instructions or clarifications to any YMP participant for new work, changes to ongoing work, or ongoing work that is not yet covered by an existing grading package, be sure to include in the opening paragraph the following information.
 - a. Number of the contract, memorandum of understanding, management agreement, or other vehicle that defines the responsibilities and requirements of the participant to DOE.
 - b. Work Breakdown Structure (WBS) number of the work described elsewhere in the letter.
 - c. Number on the Q-List or Quality Activities List that the work falls under.
 - d. Number of the grading package that identifies the controls that apply to the work being requested or performed .
 - e. Number, and name of participant, of the Quality Assurance Program Description document that contains the QA requirements that the work must comply with.
 - f. If d. or e. do not exist yet, then prepare a Corrective Action Report in accordance with Quality Assurance Administrative Procedure 16.1, Revision 4, as an enclosure that describes when d. and e. will be in place before the quality-affecting work can be initiated.

Multiple Addressees

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2. To ensure that the chain-of-command is appropriately followed from a DOE procurement and QA standpoint, the letters should be prepared by the division directors or branch chief cognizant of the work, concurred with by the following persons (or their representative), and submitted to me for signature as the contracting officer's technical representative. These letters will become quality-affecting documents and filed as records in accordance with Quality Management Procedure 17-01 under WBS element 1.2.9.1.1.Y.

- a. Division Director responsible for work
- b. YMP Procurement Officer
- c. Other affected Division or Office Directors (e.g. Project Control)
- d. Yucca Mountain Quality Assurance Division (YMQAD)
- e. Senior Technical Manager
- f. Deputy Project Manager

The review and approval by YMQAD will provide an independent check that the information supplied in 1. above is accurate and that the scope of the work does not exceed the participant's QA program.

If you have any questions, please contact Maxwell B. Blanchard at 794-7939 or Robert V. Barton at 794-7957.



Carl P. Gertz
Project Manager

YMP:MBB-764

cc:

D. G. Horton, HQ (RW-3) FORS
L. R. Hayes, USGS, Las Vegas, NV
W. L. Clarke, LLNL, Livermore, CA
J. A. Blink, LLNL, Las Vegas, NV
R. J. Herbst, LANL, Los Alamos, NM
T. E. Blejwas, SNL, 6310, Albuquerque, NM
J. H. Nelson, SAIC, Las Vegas, NV
R. F. Pritchett, REECo, Las Vegas, NV
R. L. Bullock, RSN, Las Vegas, NV
R. E. Lowder, MACTEC, Las Vegas, NV
L. D. Foust, TESS, Las Vegas, NV

Distribution—Memorandum dated NOV 12 1991

Robert V. Barton, YMP, NV ~~←~~
J. Russell Dyer, YMP, NV
Wendy R. Dixon, YMP, NV
Richard E. Spence, YMP, NV
Edgar H. Petrie, YMP, NV
Winfred A. Wilson, YMP, NV
A. C. Robison, YMP, NV
E. Carol Rehkop, YMP, NV
Vincent F. Iorii, YMP, NV
Susan B. Jones, YMP, NV
Uel S. Clanton, YMP, NV
Jeremy M. Boak, YMP, NV
Kathleen F. Grassmeier, YMP, NV
Michael O. Cloninger, YMP, NV
George D. Dymmel, YMP, NV
John G. Gandi, YMP, NV

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

CAR NO. YM-92-007
DATE: 11/22/91
PAGE: 1 OF 3
QA

CORRECTIVE ACTION REQUEST (Continuation Page)

CORRECTIVE ACTION RESPONSE:

1. CORRECTIVE ACTION FOR DEFICIENT CONDITION

A. Extent of Deficiency: The extent of this deficiency at this time is indeterminate. The YMPO plans to take the following actions in order to address the extent of the deficiency:

- (1) YMPO will obtain written confirmation from Headquarters as to which contracts have been transferred to YMPO control. A letter requesting this information will be transmitted to Headquarters no later than November 22, 1991, requesting a response by December 27, 1991. Responsibility for this action is assigned to Garth Phillips.
- (2) YMPO will conduct an in-depth investigation into all existing procurements and identify which DOE Field Operation Offices are being directed to have their contractors perform quality-affecting work and list all of the contractors who are performing this work. Included in this will be a list by Field Operations Office and subordinate contractor what specific work is being accomplished and by whom. We will also identify the Division Directors within YMPO who have delegated work in this manner and what specific task by WBS has been assigned. A draft of this listing will be complete by December 6, 1991. A final listing will be created 10 days after the written confirmation of contracts has been received from Headquarters (per item (1), above). Responsibility for the completion of this action is assigned to Gary Roberson.
- (3) If it is determined that quality-affecting work is being or may be performed by one of these contractors without an OCRWM approved QA program, immediate action will be taken to suspend all quality-affecting work until the contractor QA program has been approved. The actions to suspend all quality-affecting work will be taken within 72 hours after they are identified. Responsibility for this action is assigned to the responsible Division Directors with coordination provided by Gary Roberson.

ENCLOSURE

REV. 08/91

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

CAR NO. YM-92-007
DATE: 11/22/91
PAGE: 2 OF 3
QA

CORRECTIVE ACTION REQUEST (Continuation Page)

- B. Root Cause: Due to the complex nature of this deficiency, the root cause is still under determination. The results of this determination will be provided to you by December 1, 1991, in a supplemental response to this Corrective Action Request.
- C. Remedial Action: The following remedial actions have been or will be taken to address this deficient condition:
- (1) YMPO has developed an interim plan for procurement methodologies to control non-YMPO contracts, as deemed necessary, prior to issuance of a procedure that addresses the procurement issues identified in this CAR. The recommended actions outlined in the CAR have been considered in the development of the interim plan. The interim plan is documented in a memorandum from Carl Gertz to Distribution, YMP:MBB-764, dated November 12, 1991, and amended in a memorandum from Carl Gertz to Distribution, YMP:RVE-954, dated November 22, 1991, a copy of which is attached for your information. A revision to an existing procedure or a new procedure will be completed within 45 days of completion of the root cause analysis.
 - (2) Following the completion of the investigation described in item A.(2) above, YMP will determine if any quality-affecting work has been performed without an OCRWM approved QA program. If any quality-affecting work has been performed, we will determine what the effect on quality was in the absence of an approved QA program. This determination will be completed within 30 working days of the identification of the performance of the quality-affecting work. Responsibility for completion of this action is assigned to the responsible Division Director, with oversight from Robert Barton. Any conditions found that are adverse to quality will be documented in a CAR.

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

CAR NO. YM-92-007
DATE: 11/22/91
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QA

CORRECTIVE ACTION REQUEST (Continuation Page)

(3) A determination of appropriate QA records needed will be made. The YMP will investigate to determine if appropriate QA records of procurement documents exist and are properly located. This investigation will be complete by December 6, 1991, with a plan to submit any records by January 10, 1992. Any conditions found that are adverse to quality will be documented in a CAR. Responsibility for this action is assigned to Garth Phillips.

D. Corrective Action to Prevent Recurrence: This action will be established upon completion of the root cause analysis and will be provided as part of the supplemental response on December 1, 1991.

Response Approved: *Richard A. Barton* 11/22/91
Responsible Manager Date
For Carl Gertz

Response Accepted: *Richard A. Mandel* 11-26-91
QAR Date

Response Accepted: *R. C. Spruce* 12/2/91
QAR Date



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

WBS 1.2.9.1.1.Y
QA

NOV 22 1991

Robert V. Barton, YMP, NV
J. Russell Dyer, YMP, NV
Wendy R. Dixon, YMP, NV
Richard E. Spence, YMP, NV
Edgar H. Petrie, YMP, NV
Winfred A. Wilson, YMP, NV
A. C. Robison, YMP, NV
E. Carol Rehkop, YMP, NV
Vincent F. Iorii, YMP, NV
Susan B. Jones, YMP, NV
Uel S. Clanton, YMP, NV
Jeremy M. Boak, YMP, NV
Kathleen F. Grassmeier, YMP, NV
Michael O. Cloninger, YMP, NV
George D. Dymmel, YMP, NV
John G. Gandi, YMP, NV

AMENDMENT TO INTERIM GUIDANCE FROM THE U.S. DEPARTMENT OF ENERGY (DOE) TO YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT (YMP) AFFECTED ORGANIZATIONS FOR PERFORMING WORK THAT IS SUPPORTING ITEMS ON THE Q-LIST (REFERENCE YMP 90-55, REVISION 0) OR THE QUALITY ACTIVITIES LIST (REFERENCE YMP 90-56, REVISION 4)

The subject guidance contained in my letter to Distribution on November 12, 1991, is amended as follows:

The following process will be used for issuing program or technical guidance, directions, instructions or clarifications to any affected organization that will perform work that is expected to be quality affecting when implementing the guidance, directions, instructions or clarifications. This process will apply to guidance for new work, changes to ongoing work, and any ongoing work that is not yet covered by an existing grading package, and will remain in effect until we can implement an approved procedure, now under development, that will describe the process YMP uses to ensure that no quality-affecting work will be done without clear evidence that it adequately meets the provisions of Administrative Procedure 5.28Q (Quality Assurance Grading) and, hence, satisfies the applicable parts of the Quality Assurance Requirements Document and the Quality Assurance Program Description (QAPD) document.

Changes to program guidance, directions, instructions or clarifications to any affected organization that will perform work that is expected to be quality affecting shall follow this same process.

Procurements utilizing contracts, management agreements, memorandums of understanding, inter-agency agreements or similar documents from this day forward shall implement the process defined in Quality Management Procedure (QMP) 04-02.

Until further notice, please implement the following:

1. When preparing letters containing quality-affecting program or technical guidance, directions, instructions or clarifications to any YMP affected organization for new work, changes to ongoing work, or ongoing work that is not yet covered by an existing grading package, be sure to include in the opening paragraph the following information.
 - a. Number of the contract, memorandum of understanding, management agreement, or other vehicle that defines the responsibilities and requirements of the affected organization to DOE.
 - b. Work Breakdown Structure (WBS) number of the work described elsewhere in the letter.
 - c. Number on the Q-List or Quality Activities List that the work falls under.
 - d. Number of the grading package that identifies the controls that apply to the work being requested or performed.
 - e. Number, and name of affected organization, of the QAPD that contains the quality assurance (QA) requirements that the work must comply with.
 - f. If d. or e. do not exist yet, then prepare a Corrective Action Report in accordance with Quality Assurance Administrative Procedure 16.1, Revision 4, as an enclosure that describes when d. and e. will be in place before the quality-affecting work can be initiated.
2. The document must include, as appropriate:
 - a. A statement of the scope of work to be performed by the affected organization.
 - b. Technical requirements.
 - c. QA program requirements.
 - d. The right of purchaser or designated or authorized parties access to supplier facilities and records for verification, such as inspection and/or audit.
 - e. Documentation required of the affected organization.
 - f. As applicable, the affected organization's requirements for reporting and review or approval of nonconformance dispositions.

NOV 22 1991

Multiple Addressees

-3-

3. To ensure that the chain-of-command is appropriately followed from a DOE procurement and QA standpoint, the letters shall be prepared by the division directors or branch chief cognizant of the work, concurred with by the following persons (or their representative), and submitted to me for signature as the contracting officer's technical representative. These letters will become quality-affecting documents and filed as records in accordance with QMP 17-01 under WBS element 1.2.9.1.1.Y.
 - a. Division Director responsible for work
 - b. YMP Procurement Officer
 - c. Other affected Division or Office Directors (e.g. Project Control)
 - d. Yucca Mountain Quality Assurance Division (YMQAD)
 - e. Senior Technical Manager
 - f. Deputy Project Manager

The review and approval by YMQAD will provide an independent check that the information supplied in 1. above is accurate and that the scope of the work does not exceed the affected organization's QA program.

If you have any questions, please contact Maxwell B. Blanchard at 794-7939 or Robert V. Barton at 794-7957.



Carl P. Gertz
Project Manager

YMP:RVB-954

cc:

D. G. Horton, HQ (RW-3) FORS
L. R. Hayes, USGS, Las Vegas, NV
W. L. Clarke, LLNL, Livermore, CA
J. A. Blink, LLNL, Las Vegas, NV
R. J. Herbst, LANL, Los Alamos, NM
T. E. Blejwas, SNL, 6310, Albuquerque, NM
J. H. Nelson, SAIC, Las Vegas, NV
R. F. Pritchett, REECO, Las Vegas, NV
R. L. Bullock, RSN, Las Vegas, NV
R. E. Lowder, MACTEC, Las Vegas, NV
L. D. Foust, TESS, Las Vegas, NV

YMP-063-R0
10/15/91

YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT
PROCEDURE COMPLIANCE DOCUMENTATION FORM

11/14/91

I have read, and understood and complied with Document QAPP 16.1 Rev 3 ICH# N/A
in accomplishing my responsibilities in this procedure. CAR YM-92-007

Signature R. E. Powe Name (Printed) R E Powe

Title QA Engineer III / Audit Team Leader Date 11/17/91

I have read, and understood and complied with Document QAPP K.L Rev 3 ICH# N/A
in accomplishing my responsibilities in this procedure.

Signature RL MAUDLIN Name (Printed) RL MAUDLIN

Title QA SPECIALIST Date 11-17-91

I have read, and understood and complied with Document QAPP K.L Rev 3 ICH# N/A
in accomplishing my responsibilities in this procedure.

Signature R. E. Spence Name (Printed) R. E. Spence

Title YMDA DO Date 11/17/91

I have read, and understood and complied with Document QAPP K.L Rev 4 ICH# N/A
in accomplishing my responsibilities in this procedure.

Signature RL MAUDLIN Name (Printed) RL MAUDLIN

Title QA SPECIALIST Date 11-17-91

I have read, and understood and complied with Document QAPP 16.1 Rev 4 ICH# N/A
in accomplishing my responsibilities in this procedure.

Signature Richard E. Spence Name (Printed) Richard E. Spence

Title Director Yucca Mountain QAD Date 11/17/91

I have read, and understood and complied with Document QAPP 16.1 Rev 4 ICH# N/A
in accomplishing my responsibilities in this procedure.

Signature Richard Maullin Name (Printed) Richard L. Maullin

Title QA SPECIALIST Date 11/17/91

YMP-063-R0
10/15/91

YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT PROCEDURE COMPLIANCE DOCUMENTATION FORM

I have read, and understood and complied with Document QAAPIL-1, Rev 4, CN# N/A
in accomplishing my responsibilities in this procedure.

Signature R.E. Space Name (Printed) Richard E. Space

Title Director YMRAD Date 12/17/91

I have read, and understood and complied with Document _____, Rev _____, CN# _____
in accomplishing my responsibilities in this procedure.

Signature N/A Name (Printed) _____

Title _____ Date _____

I have read, and understood and complied with Document _____, Rev _____, CN# _____
in accomplishing my responsibilities in this procedure.

Signature N/A Name (Printed) _____

Title _____ Date _____

I have read, and understood and complied with Document _____, Rev _____, CN# _____
in accomplishing my responsibilities in this procedure.

Signature N/A Name (Printed) _____

Title _____ Date _____

I have read, and understood and complied with Document _____, Rev _____, CN# _____
in accomplishing my responsibilities in this procedure.

Signature N/A Name (Printed) _____

Title _____ Date _____

I have read, and understood and complied with Document _____, Rev _____, CN# _____
in accomplishing my responsibilities in this procedure.

Signature N/A Name (Printed) _____

Title _____ Date _____

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CAR YM-92-007
December 1, 1991

Root Cause: There were several factors which contributed to the cause of this deficiency: the first factor was the general misunderstanding by Yucca Mountain Site Characterization Project personnel that technical direction letters were considered procurement documents since the definition of procurement document in the Quality Assurance Requirements Document, Revision 4, does not specifically identify technical direction letters as being procurement documents. There are two different, but overlapping, procurement systems: the federal procurement system and the quality assurance (QA) procurement system. The federal system was handled by Quality Management Procedure (QMP)-04-02, and it was assumed that this process completed the procurement cycle. In reality, the existing contracts managed by Headquarters (HQ), which were turned over to the Yucca Mountain Site Characterization Project Office (YMPO), required no change to the "federal" portion of that system but did require modifications due to the "QA" portion. This condition (i.e., transfer of authority from HQ to YMPO) was not anticipated by QMP-04-02 and no system existed to accomplish the needed changes.

Corrective Action to Prevent Recurrence: To prevent recurrence, the YMPO will develop a comprehensive procurement procedure(s) which will address all aspects of procurement in any form which it may take. This procedure(s) will be issued by February 28, 1992. The completion of this procedure(s) is assigned to Robert Barton.

Response Approved: Robert V. Barton 12/2/91
Date

Response Accepted: Richard J. Maul 12/12/91
QAR Date

Response Accepted: R.C. Spence 12/17/91
OQA Date

Letr dtd 12/2/91 - YMP: RVB-1121



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

WBS 1.2.3
 QA: N/A

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FEB 07 1992

Carl P. Gertz, Project Manager, YMP, NV

CORRECTIVE ACTION REQUEST (CAR) YM-92-007

As a partial resolution of problems identified with procurement related to possible quality-affecting activities, I have conducted an in-depth investigation into procurement of quality activities and have developed the included matrix. The original investigation was performed in late November and early December and was included in a draft matrix to Robert Barton, December 6, 1991. This is an ongoing evaluation concerning quality activities and procurement; therefore, the matrix will be maintained as a Yucca Mountain Site Characterization Project (YMP) management tool.

The original investigation determined the contractor performing quality of potential quality activities, the agreement mode and number, and a brief work scope statement. An assessment determined if a statement referring to quality assurance (QA) is in the contract letter agreement, and if the contractor was performing quality-affecting work scope. The QA program was identified under which the work was to be performed and a determination was made as to whether work was performed in fiscal year (FY) 1991 or planned for FY 1992. An additional information item included the grading package number under which work was performed and the initiator of that grading package. The procurement process was identified including FY 1991 participant direction letters by letter number.

This analysis resulted in the identification of one potential QA problem related to technical data not covered by a QA program. That problem was at Pacific Northwest Laboratory (PNL). The area of concern was in Work Breakdown Structure Element 1.2.3.6.2.1.6 entitled "Future Regional Climate and Environments." The work performed was related to climate modeling and performance assessment. After review by the Director, Regulatory & Safety Evaluation Division; the YMP QA Division; and the managers at PNL, YMP determined that this work consisted of scoping activities and model development and no data was acquired during the period in question which would be used in a license application.

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Carl P. Gertz

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This letter verifies the completion of this analysis and its inclusion within CAR Y4-92-007. As previously mentioned, this document/matrix will be continuously used and updated as a control for technical direction letters.

Please inform me if I can be of further help.


Gary D. Roberson, Acting Deputy
Director
Regulatory & Site Evaluation Division

RSED:GDR-1954

Enclosure:
Quality Assurance Grading Questions

cc w/encl:
J. R. Dyer, YMP, NV
R. E. Spence, YMP, NV
R. V. Barton, YMP, NV
M. B. Blanchard, YMP, NV

QUESTION 1: CMP01-01 Contractor	QUESTION 2: CMP-04-02 Contract #FOU, MOA, SAG	YMPO CO or COR	GAPD Number	Q3: QA SPEC	QUESTION 4: WBS	DIVISION	QUESTION 4:	QA?
Argonne National Laboratory	Contract #W-31109-CHENK-38 ANL Contract with Chicago # W-31-109-ENG-38	No		Yes	12.1.4.1	RSE	Total System Performance Assessment	N
					12.3.1	RSE	Site Management and Integration	N
					12.5.2.6	RSE	Study Plan Review	Y
Army Corps of Engineers	Interag. Agmt. #DE-A108-88NV10753	Yes		No	12.6.1.1	ED	ESF Management, Planning, Technical Assessment	Y
Brook Haven National Lab	Contract #DE-AC02-78-CH00078	No		7	12.1.4.2	RSE	Waste Package Performance Assessment	N
Bureau of Land Mgmt.	Interag. Agmt. #DE-A108-88NV10758	Yes		No	12.6	POC	Land Acquisition	N
Bureau of Mines	Interag. Agmt. #DE-A108-88NV10776	Yes		No	12.6.1.1	ED	ESF Management, Planning, Technical Assessment	Y
Comm. Coll of Southern Nevada		Yes						
Computer Science Corp.	Contract #DE-AC08-88NV10811	No		No	12.8.1.2	POC	Administrative Services	N
Desert Research Inst.	Contract #DE-AC08-88NV10845	Yes		Yes	12.5.4.3	POC	Archaeological Resources	N
EG&G	Contract #DE-AC08-88NV10817 Contract #DE-AC07-78DD01670	Yes		Yes	12.1.3.6	RSE	Geographic Information System Support	N
					12.3.1	RSE	Site Management and Integration	N
					12.5.4.7	POC	Environmental Compliance	N
					12.9.1.2	POC	Administrative Services	N
					12.9.3.3	POC	Quality Engineering	N
EPA	Interag. Agmt. #DE-A108-88NV10822	Yes		Yes	12.3.4	POC	Environmental Compliance	N
Golder Associates, Inc.	Chicago?	No		?	12.1.4.1	RSE	Total System Performance Assessment	N
Johnson Controls	Contract through Defense Nuclear Agency, #DE-A108-88NV10751	No		No	12.3.2.1.1.2	RSE	Mineralogy and Geochemical Alteration*	N
					12.3.5.1	RSE	Sample Management Facility*	N
					12.3.5.2.1	RSE	Common-to-Drilling Support*	N
					12.3.5.3.10	RSE	Geologic Pavements*	N
					12.3.5.3.18	RSE	Calcite-Silica Drillhole and Transfer*	N
					12.3.5.3.19	RSE	Volcanic Drillholes*	N
					12.3.5.3.22	RSE	In-Situ Stress Tests & Cont. Fault Transfer*	N
Lawrence Berkeley Lab	Management Agreement with BAH DE-AC03-788P00088	Yes		Yes	12.1.3	RSE	Technical Data Management	N
					12.1.4	RSE	Performance Assessment	N
					12.3.2.2.1.2	RSE	Structural Features within the Site Area	N
					12.3.3.1.2.9	RSE	Fluid Flow in Unsaturated Zone Fractured Rock	N
					12.3.3.1.2.9	RSE	Site Unsaturated Zone Modeling and Synthesis	N
					12.3.3.1.3.3	RSE	Saturated Zone System Synthesis & Modeling	N
					12.3.4.1.5.2	RSE	Demonstration of Applicability of Lab Data	N
					12.3.6.2.2.1	RSE	Outsunny Regional Hydrology	N
					12.5.2.5	RSE	Study Plan Review	N
					12.9.2	POC	Project Control	N
					12.9.3	QA	Quality Assurance	Y
Los Alamos National Lab	Management Agreement with AL	Yes	GAPP, LANL-YMP-R5	Yes	12.1	ED	Systems	Y
					12.3	RSE	Site	Y
					12.5	RSE	Regulatory and Institutional	Y
					12.6	ED	Exploratory Studies Facility	Y
					12.7	ED	Test Facilities	Y
					12.9	POC	Project Management	Y
L Livermore National Lab	Management Agreement with BAH	Yes	GAPP	Yes	12.1	ED	Systems	Y
					12.2	ED	Waste Package	Y
					12.5	RSE	Regulatory and Institutional	Y
MAC Technical Services	Contract #DE-AC08-87RL10840	Yes		Yes	12.1	ED	Systems	Y
					12.9	POC	Project Management	Y
Nation Acad of Sciences	Contract #DE-AC01-88AM00142	No		No	12.4.1.1	ED	Repository Management and Integration	N
						ED	Waste Package Management and Integration	N
NE ERI	Contract #DE-AC08-78PL01830	No		No	12.1.4.4	RSE	Waste Package Performance Assessment	N
					12.1.4.7	RSE	Development/Verification of Flow/Transport Models	N
					12.1.4.8	RSE	Supporting Cases for Performance Analysis	N
					12.1.4.9	RSE	Development/Verification of Flow/Transport Codes	N
					12.2.1	ED	Waste Package Management and Integration	N

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QUESTION 1: CMP01-01 Contractor	QUESTION 2: CMP-04-02 Contract, MOU, MOA, MO	YMP0 CO or COR	QAPD Number	Q3 QA SPEC	QUESTION 3: WBS	DIVISION	QUESTION 4:	QA?
					1.2.2.3.1.1 1.2.3.6.2.1.8 1.2.5.2.5	ED RSE RSE	Waste Form Testing - Spent Fuel Future Regional Climate and Environmental Study Plan Review	Y Y Y
REECO	Contract #DE-AC08-89NV10630	Yes	568-DOC-115	Yes	1.2.1 1.2.2 1.2.3 1.2.4 1.2.5 1.2.6 1.2.7 1.2.9	ED ED RSE ED RSE ED ED POC	Systems Waste Package Site Repository Regulatory and Institutional Exploratory Studies Facility Test Facilities Project Management	Y Y Y Y Y Y Y Y
RE/BPEC	Contract #OE-AC02-89CH10378	No		?	1.2.1.4	RSE	Performance Assessment	N
RSN	Contract #DE-AC08-91NV10633	Yes	QAPD-002	Yes	1.2.1 1.2.2 1.2.3 1.2.6	ED ED RSE ED	Systems Waste Package Site Exploratory Studies Facility	Y Y Y Y
BAQ/TM&S	Contract #DE-AC08-89NV10376	Yes	EAUC 90/6002	Yes	1.2.1 1.2.1.2.5 1.2.1.2.6 1.2.2 1.2.3 1.2.3.8.1 1.2.4 1.2.5 1.2.6	ED POC POC ED RSE POC ED RSE ED	Systems Change Control Board Plans and Procedures Development Waste Package Site Environmental Meteorological Studies Repository Regulatory and Institutional Exploratory Studies Facility	Y Y Y Y Y Y Y Y
Sandia National Lab	Management Agreement with AL	Yes	QAPD	Yes	1.2.1 1.2.3 1.2.4 1.2.5	RSE ED RSE	Systems Site Repository Regulatory and Institutional	Y Y Y Y
TRW/TESS	Contract #DE-AC01-91RW00134	No			1.2.1 1.2.1 1.2.2 1.2.3.1 1.2.4 1.2.5.1 1.2.5.2 1.2.6 1.2.9	RSE ED ED RSE ED RSE RSE ED POC	Systems Systems Waste Package Site Management and Integration Repository Regulatory Management and Integration Licensing Exploratory Studies Facility Project Management	N N N N N N N N N
University of Minnesota	Chicago?	No		?	1.2.1.4.2	RSE	Waste Package Performance Assessment	N
University of Nevada - Las Vegas		Yes						
University of Nevada - Reno		Yes						
University of Texas	Chicago?	No		No	1.2.3.1	RSE	Site Management and Integration	N
USGS - Wallace	DOE/EG Interagency Agreement	No		No	1.2.3.1	RSE	Site Management and Integration	N
U.S.G.S.	Interag. Agmt. #OE-AC08-89NV10874	Yes	YMP-0809-QAPP-01	Yes	1.2.1 1.2.3 1.2.5	ED RSE RSE	Systems Site Regulatory and Institutional	Y Y Y
Whelan Security Inc.	Contract #DE-AC08-89NV10630	No		Yes	1.2.9.1.2	PO	Administrative Services	N

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QUESTION 1: CMP01-01 Contractor	QUESTION 6: AP 5.29Q OAPD	QUESTION 7: AP 5.36 FY91 Work	QUESTION 8: AP 5.36 FY92 Work	QUESTION 9-12: CMP04-02 Procurement	QUESTION 13: AP 5.29Q Grading	QUESTION 14: AP 5.29Q Initiator	QUESTION 15: CMP04-02 Reference Letters	Comments
Argonne National Laboratory	YMPO YMPO YMPO	77,000 419,000 113,000	0 400,000 0	DEARs & FARs DEARs & FARs ?	RSE-018 RSE-004 RSE-013	YMPO YMPO YMPO	NNA.910516.0015 ? NNA.910423.0073	*AP 1,100 training required
Army Corps of Engineers	YMPO	1,000		?	EDD-002	YMPO	N/A	*No direction needed beyond contract
Brook Haven National Lab	YMPO	100,000	110,000	DEARs & FARs	RSE-018	YMPO	NNA.910516.0015	
Bureau of Land Mgmt.	YMPO	8,000		DEARs & FARs		YMPO		
Bureau of Mines	YMPO	1,000		DEARs & FARs	EDD-002	YMPO	N/A	*No direction needed beyond contract
Comm. Coll. of Southern Nevada								
Computer Science Corp.	YMPO	1,000		?	?	YMPO		
Desert Research Inst. EG&G	SAIC/EMSS YMPO YMPO YMPO YMPO	819,000 1,108,000 50,000 2,100,000 17,000 80,000	800,000 1,078,000 48,000 3,092,000	SAIC SP128 DEARs & FARs DEARs & FARs DEARs & FARs DEARs & FARs	D12543A E12138A RSE-004 E12547A Pending* Pending*	SAIC EG&G YMPO EG&G EG&G EG&G	NNA.901228.0074; 91-427(JB) ? NNA.901228.0074; 91-427(JB) *OAPD under development *OAPD under development	
EPA	SAIC/EMSS	128,000		SAIC SP128		SAIC?		
Goldier Associates, Inc.	OCRWM/YMP	?	180,000	DEARs & FARs	RSE-018*	YMPO		ENE to YMPO Pending
Johnson Controls	LANL YMPO REECO USGS USGS LANL USGS	0 0 100,000 0 0 0 0	0 0 90,000 0 0 0 0	? DEARs & FARs ? ? ? ?	#1(1.2.3.2) RSE-007 R90-1.2.3.-0004.1 01232212 01230221 #22(1.2.3.6) 01232848	LANL YMPO REECO USGS USGS LANL USGS	LANL Letter ? REECO Letter USGS Letter USGS Letter LANL Letter USGS Letter	*Photography only (no funding FY91) *Photography only (no funding FY91)
Lawrence Berkeley Lab	YMPO YMPO USGS USGS YMPO USGS YMPO YMPO YMPO YMPO YMPO	0 1,241,000 98,000 43,000 357,000 53,000 917,000 123,000 298,000 0 0	0 600,000 113,000 0 600,000 0 200,000 ? 300,000 0 0	DEARs & FARs DEARs & FARs ? ? DEARs & FARs ? DEARs & FARs DEARs & FARs ? DEARs & FARs ?	RSE-011 RSE-018 01232212 01233128 Pending* 01233133 under USGS7 under USGS7 RSE-013	YMPO YMPO USGS USGS YMPO USGS YMPO YMPO YMPO YMPO	No Funding NNA.910418.0022; RSED; JMB-8000 USGS Letter USGS Letter NNA.910418.0022; RSED; JMB-8000 USGS Letter NNA.910418.0022; RSED; JMB-8000 WMO.910813.0001 NNA.910418.0022; RSED; JMB-8000 No Funding No Funding	*Grading Package Pending *Grading Package Pending *Grading Package Pending *AP 1,100 training required
Los Alamos National Lab	LANL							
L. Livermore National Lab	LLNL							
MAC Technical Services	OCRWM							
Nation. Acad. of Sciences	OCRWM	12,000		DEARs & FARs				
	YMPO YMPO YMPO YMPO YMPO YMPO LLNL	70,000 437,000 300,000 800,000 91,000 0	270,000 450,000 450,000 200,000 10,600	DEARs & FARs DEARs & FARs DEARs & FARs DEARs & FARs ?	RSE-018 RSE-018 RSE-018 RSE-018 Pending	YMPO YMPO YMPO YMPO YMPO LLNL	NNA.910418.0021; WMO.910516.0001 NNA.910418.0021; RSED; JMB-8507 NNA.910418.0021; RSED; JMB-8507 NNA.910418.0021; RSED; JMB-8507 NNA.910418.0021; RSED; JMB-8507 WMO.910813.0002	*AP 1,100 training required

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QUESTION 1: CMP01-01 Contractor	QUESTION 6: AP 5.28Q OAPD	QUESTION 7: AP 5.38 FY91 Work	QUESTION 8: AP 5.38 FY92 Work	QUESTION 9-12: CMP04-02 Procurement	QUESTION 13: AP 5.28Q Grading	QUESTION 14: AP 5.28Q Indicator	QUESTION 15: CMP04-02 Reference Letters	Comments
	LNIL FNL* YMPO	0 373,000 10,000	121,884 308,000 10,000	? ? ?	Pending ? RSE-013	LNIL ? YMPO	EDD:RDG-404 ? NNA910418,0021; RSED; JMB-6507	*CAR YMP-82,005 *AP 1.10Q training required
RECO	RECO							
RE/SPEC RSN	YMPO RSN	110,000	0	DEARs & FARs	RSE-018		NNA910518,0018; RSED; JMB-6513*	
SAC/T&MS	YMPO YMPO YMPO SAC SAC YMPO	98,000	98,000	PCOAG-002 PCOAG-001				
Sandia National Lab	SNL							
TRW/TESS	OCRWM OCRWM OCRWM OCRWM OCRWM OCRWM OCRWM OCRWM		1,125,000 998,000 1,300,000	DEARs & FARs DEARs & FARs		YMPO YMPO YMPO YMPO YMPO YMPO YMPO		YMPO does not have COTR authority
University of Minnesota	YMPO	230,000	190,000	DEARs & FARs	RSE-018		NNA910518,0018	
University of Nevada-Las Vegas								
University of Nevada-Reno								
University of Texas	YMPO	33,000		DEARs & FARs	RSE-004		?	
USGS - Wash DC	OCRWM	100,000	150,000	DEARs & FARs	RSE-004	YMPO		
U.R.G.R.	USGS							*AG 80E-A08-82NV10874 Pending
University of Tennessee	YMPO	34,000		DEARs & FARs				

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**EVALUATION AND CLOSEOUT
OF CAR YM-92-007**

06/01/92

Personnel Contacted during Follow-up:

1. Robert Barton
2. Jerry Boak
3. Sam Horton
4. Richard Kettell
5. Ron Helms
6. Robert Stewart

Period of Evaluation:

05/25-27/92
06/01/92

Evaluation and Closeout Results:

The following elements were evaluated for completion of corrective action:

- A. Review of QMP-04-03, Rev 0 - A review of QMP-04-03, Rev 0 was performed to determine if it adequately addresses the process for controlling Letters of Technical Direction, now referred to as Technical Directives. The results of the review indicate that QMP-04-03 adequately addresses the issuance and control of Technical Directives. It should be noted that implementation of the QMP-04-03 was not evaluated at this time due to effective date being 05/15/92.
- B. Training of Personnel to QMP-04-03 - As of May 12, 1992, the following personnel were to have completed Reading for implementing QMP-04-03:

Thomas Bjerstedt
April Gil
Russell Riding

Richard Crawley
Garth Phillip
Ardyth Simmon

A review of training records for the above personnel revealed that they had completed their reading assignments. Also, documented evidence was provided to indicate that formal training classes for training on QMP-04-03 were scheduled for May 15, 16, and 26, 1992.

- C. Withdrawal of Interim Plan for Processing Letters of Technical Direction - On May 15, 1992, a letter (YM-92-3497) was issued from the YM Project Manager superseding the requirements of the Interim Plan by the issuance and implementation of QMP-04-03.

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- D. Maintenance of List of Suppliers/Contractors - Presently, Mr. Ron Helms is in the process of updating the Matrix of YMPO Contractors. This list is going to be maintained on a continuing bases and will provide the following information regarding each contractor/supplier: (1) Contractor Name, (2) Original Contract Number and WFR Authority, (3) List of Technical Directives, (4) Applicable QAPD Number, (5) WBS Number, (6) Scope of Work, (7) Responsible YMPO Organization, (8) QA Activity, (9) Grading Report Number, and (10) Grading Report Initiator - by organization.

As a result of the above actions, finding them to be satisfactory, and the interim evaluation that was performed on December 17, 1991, this CAR is considered closed and no further action is required.


----- 06.0 11
R.L. Maudlin Da

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CAR YM-92-007

	DATE	LETTER NUMBER
ISSUANCE LETTER	<u>11/12/91</u>	<u>YMQAD:R 1-784</u>

RESPONSE EXTENSION REQUEST	<u>N/A</u>	<u>N/A</u>
ACCEPTANCE	<u>↓</u>	<u>↓</u>

RESPONSE LETTER	<u>11/15/91</u>	<u>YMP:RUB 1-13</u>
ACCEPTANCE	<u>N/A</u>	<u>N/A</u>

REQUEST AMENDED RESPONSE	<u>11/21/91 ✓</u>	<u>Muddled</u>
RESPONSE	<u>11/22/91 ✓</u>	<u>YMP:RUB -</u>
ACCEPTANCE	<u>12/13/91 ✓</u>	<u>YMQAD:R 1-12</u>
REQUEST AMENDED RESPONSE	<u>N/A</u>	<u>N/A</u>
RESPONSE	<u>12/2/91</u>	<u>YMP:RUB -</u>
ACCEPTANCE	<u>12/17/91</u>	<u>YMQAD:R 1-100</u>

C/A EXTENSION REQUEST	<u>2/28/92</u>	<u>YMP:RUB 1-22</u>
ACCEPTANCE	<u>3/5/92</u>	<u>YMQAD:R 1-82</u>
C/A EXTENSION REQUEST	<u>3/11/92</u>	<u>YMP:RUB -</u>
ACCEPTANCE	<u>3/17/92</u>	<u>YMQAD:R 1-147</u>
	<u>3/7/92</u>	<u>YMP:RUB -</u>
	<u>5/15/92</u>	<u>YMP:RUB -</u>
UNSATISFACTORY VERIFICATION	<u>N/A</u>	<u>N/A</u>
RESPONSE	<u>↓</u>	<u>↓</u>
ACCEPTANCE	<u>↓</u>	<u>↓</u>

CLOSURE LETTER	<u>6/5/92</u>	<u>YMQAD:R 1-173</u>

Info
Info

< TRANSACTION REPORT >

06-29-1992 01:11:35

[RECEIVE]

NO.	DATE	TIME	DESTINATION STATION	PG.	DURATION	MOD	RESULT
1129	6-29	16:24	MACTEC	14	0'11'17"	FINE	OK
				14	0'11'17"		