



**Department of Energy**  
Washington, DC 20585

MAR 9 1992

Mr. Joseph J. Holonich, Director  
Repository Licensing and Quality  
Assurance Project Directorate  
Division of High-Level Waste Management  
Office of Nuclear Material Safety  
and Safeguards  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

Dear Mr. Holonich:

The Yucca Mountain Quality Assurance Division (YMQAD) completed its review and acceptance of the Reynolds Electrical & Engineering Company, Inc. (REECo) Change Notices 91-01, 92-01, and 92-02 to the REECo Quality Assurance Program Plan (QAPP), 568-DOC-115, Revision 8.

The QAPP Change Notices are accepted based on the YMQAD determination that the changes delineated in QAPP Change Notices 91-01, 92-01, and 92-02 are consistent with the requirements stated in the Office of Civilian Radioactive Waste Management Quality Assurance (QA) Requirements Document, Revision 4, and do not represent a degradation of QA requirements.

Therefore, this letter serves as a formal notice of approval and acceptance of the change notices by the U.S. Department of Energy. The enclosed change notices are forwarded to the U.S. Nuclear Regulatory Commission for information.

Should you have any questions, please contact Sharon Skuchko of my office at (202) 586-4590.

Sincerely,

John P. Roberts  
Acting Associate Director for  
Systems and Compliance  
Office of Civilian Radioactive  
Waste Management

Enclosure:

QAPP Change Notices 91-01, 92-01, and 92-02  
to the REECo QAPP, 568-DOC-115, Revision 8

WM-11  
102.7  
NHOB  
11

## cc w/Enclosure:

C. Gertz, YMPO  
R. Loux, State of Nevada  
K. Whipple, Lincoln County, NV  
M. Baughman, Lincoln County, NV  
J. Bingham, Clark County, NV  
D. Bechtel, Clark County, NV  
S. Bradhurst, Nye County, NV  
B. Raper, Nye County, NV  
P. Niedzielski-Eichner, Nye County, NV  
R. Campbell, Inyo County, CA  
R. Michener, Inyo County, CA  
G. Derby, Lander County, NV  
P. Goicoechea, Eureka, NV  
C. Schank, Churchill County, NV  
C. Jackson, Mineral County, NV  
F. Sperry, White Pine County, NV  
L. Vaughan, Esmeralda County, NV  
K. Hooks, NRC



# Reynolds Electrical & Engineering Co., Inc.

Post Office Box 98521 • Las Vegas, NV 89193-8521

IN REPLY REFER TO

580-01-667

WBS 1.2.9  
QA

**OCT 1 1991**

Donald G. Horton, Director  
Quality Assurance Division  
Yucca Mountain Site Characterization  
Project Office  
U.S. Department of Energy  
Post Office Box 98606  
Las Vegas, NV 89193-8608

## CHANGES/REVISIONS TO PARTICIPANT QUALITY ASSURANCE (QA) PROGRAM DESCRIPTIONS

In accordance with your request dated September 10, 1991, same subject, Reynolds Electrical & Engineering Co., Inc. (REECo) is submitting for your approval the enclosed proposed changes to our Quality Assurance Program Plan, 568-DOC-115, Revision 8. These changes represent a clarification of our program commitments and organizational structure. Further, REECo considers that the changes are minor in nature and do not downgrade or compromise any previously accepted commitments.

Upon receipt of your approval, REECo will establish an effective date, date the change notice, and issue for implementation. Should you have any questions or require further information, please contact W. J. Glasser of my staff at 794-7562.

R. F. Pritchett, Manager  
Yucca Mountain Project Division  
YMP Technical Project Officer

RFP:WJG:as

Enclosure  
Quality Assurance Program Plan  
Change Notice QAPPCN-91-01  
(4 pages)

cy w/o encl.  
Central Files THRU  
Executive Office, M/S 555  
W. J. White, DOE/NV, M/S 505

|          |                |
|----------|----------------|
| REVISION | <b>HORTON</b>  |
| CC       | <u>6002-70</u> |
| CC       | _____          |

REC'D IN W.P.  
10/1/91

**REECo**  
AN **EG&G COMPANY**

**ENCLOSURE**

| REECO<br>YUCCA MOUNTAIN PROJECT<br>QAPP CHANGE NOTICE |                          | QAPPCN No. 91-01   | Date:          |
|---|--------------------------|--|----------------|
|   |                          | Major Change   | Minor Change X |
| Page  | Paragraph                | Description of Change  |                |
|   |                          | EFFECTIVE DATE: WBS 1.2.9.3<br>QA  |                |
| I-1   | sec. 1.0<br>para. 3      | Add sentence to end of paragraph, to read:<br>"Figure 3 further shows the relationship of the matrix support organizations."   |                |
| I-1   | sec. 1.3<br>para. 1      | Change paragraph to read:<br>"The YMP QA Manager reports directly to the REECO General Manager and is responsible for . . ."   |                |
| I-1   | sec. 1.0<br>para. 3      | Add sentence to end of paragraph, to read:<br>"Figure 3 further shows the relationship of the matrix support organizations."   |                |
| I-2   | sec. 1.4<br>para. 3      | Change title from "Personnel" to "Human Resources."  |                |
| I-3   | sec. 1.0<br>para. 9 & 10 | Delete paragraphs 9 and 10, replace with:<br>"Quality Systems Division - Quality Systems is responsible for providing welding support through the Welding Operations Support Facility and through the Physical Standards Laboratory for calibrating Measuring and Test Equipment in support of investigation and testing activities at the YMP. Personnel performing such activities report to the Quality Services Section Chief who in turn reports to the TPO." |                |
| I-3   | sec. 1.4<br>para. 12     | Change "Surface Drilling" paragraph to read:<br>"YMP Drilling Department (DRL) - The DRL Department is responsible for supporting, as a minimum, YMP drilling program requirements as defined by the YMPO. Personnel performing drilling activities report to the department manager who in turn reports to the TPO."  |                |
| I-3   | sec. 1.4<br>para. 14     | Change title from "Environmental Sciences (ES)" to<br>"Health Protection Department."  |                |

Affected Documents: REECO 568-DOC-115, Rev.8, QP(s) as applicable.

Originator:

*Ray Wilson*

Date: 9/30/91

Technical Project Officer Approval: *T. J. Bitcher*

Date: 9/30/91

Project QA Manager Approval:

*William J. Glasse*

Date: 9/30/91

| REECO<br>YUCCA MOUNTAIN PROJECT<br>QAPP CHANGE NOTICE |                                  | QAPPCN No. 91-01   | Date:          |
|---|----------------------------------|--|----------------|
|   |                                  | Major Change   | Minor Change X |
| Page  | Paragraph                        | Description of Change  |                |
| I-9   | figure 2                         | Delete figure 2, page I-9 and replace with new figure 2 of this change notice, QAPPCN No. 91-01.   |                |
| I-10  | figure 3                         | Delete figure 3, page I-10 and replace with new figure 3 of this change notice, QAPPCN No. 91-01.  |                |
| II-4<br>to<br>II-8                                    | sec. 2.2.2<br>thru<br>sec. 2.2.4 | Delete the following paragraphs:<br>2.2.2 Selection of Specific QA Levels,<br>2.2.2.1 QA Level I<br>2.2.2.2 QA Level II<br>2.2.2.3 QA Level III<br>2.2.3 Application of Levels<br>2.2.3.1 QA Level I<br>2.2.3.2 QA Level II<br>2.2.3.3 QA Level III<br>2.2.4 General   |                |
| IV-1  | sec. 1.1<br>par. 1               | Add the following, to the end of the last sentence in the first paragraph: ". . . or to work under the REECO QA Program."  |                |
| IV-2  | sec. 1.2.1.3                     | Change the first sentence in the first paragraph to read:<br>"When deemed appropriate, the purchaser may permit some or all supplier activities to be performed under the jurisdiction of the purchaser's Quality Assurance Program, provided that the scope of the activity is adequately addressed therein." |                |
| any   | as<br>applicable                 | Change all references to Quality Assurance Levels I, II, or III to:<br>"Quality affecting item(s) or activity(ies)" in a manner that provides continuity of sentence thought.<br><br>NOTE: This change is generic to all affected quality procedures.  |                |
| any   | as<br>applicable                 | Change all references to the DOE requirements document, from "YMP/88-9" to "QARD, DOE/RW-0214."  |                |
| any   | as<br>applicable                 | Delete all references to QP, as it applies to Quality Procedures.<br><br>REECO has and will continue to maintain a series of Quality Assurance Procedures and a listing thereof. These procedures will be referred to as "quality procedures."   |                |

Affected Documents: REECO 568-DOC-115, Rev.8, QP(s) as applicable.

Originator:

*Lucy Johnson*

Date: 9/30/91

Technical Project Officer Approval: *127 Pritchard*

Date: 9/30/91

Project QA Manager Approval:

*William J. Gless*

Date: 9/30/91

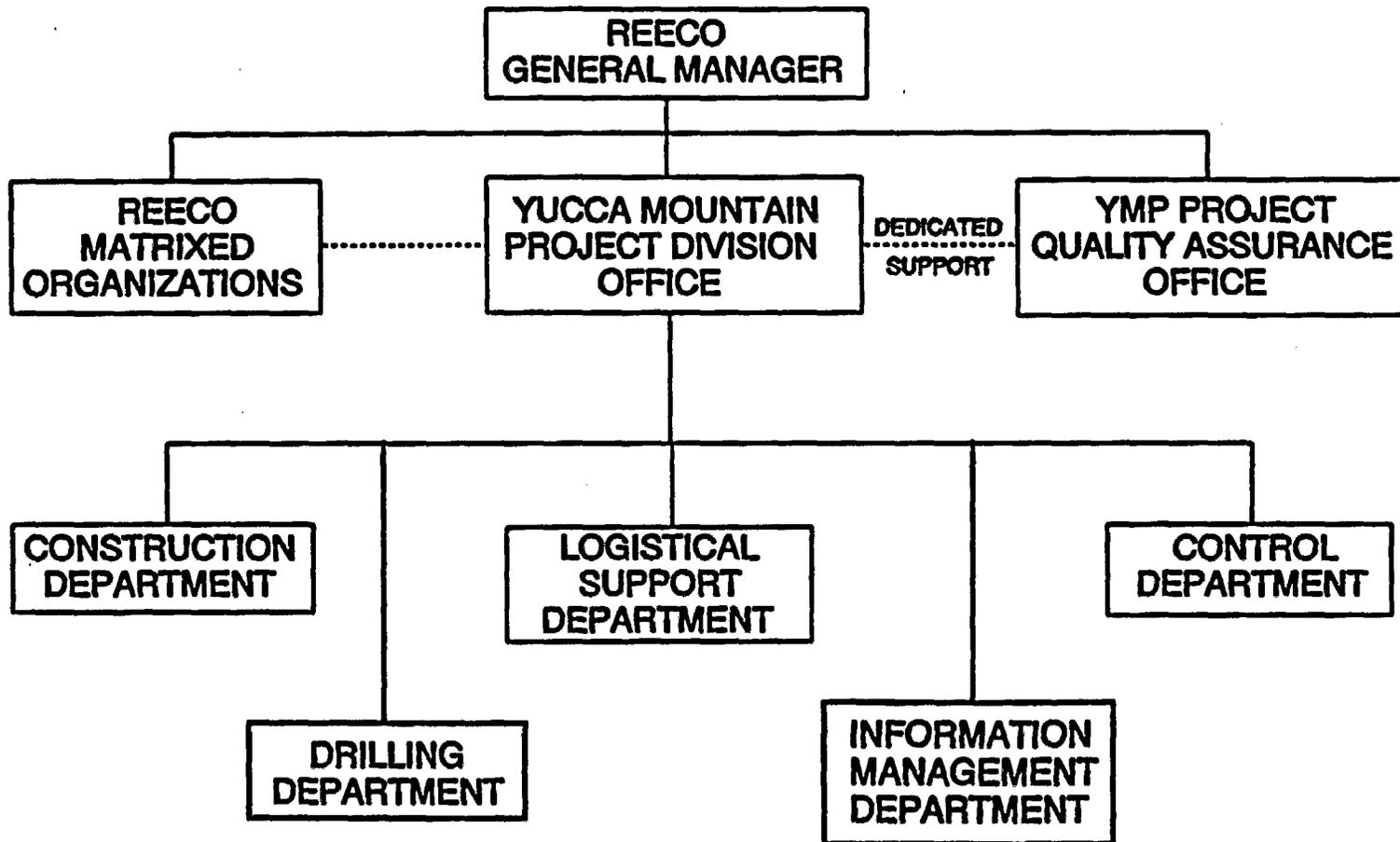


Figure 2

————— SOLID LINES INDICATE DIRECT REPORTING  
 ..... DASHED LINES INDICATE SUPPORT REPORTING

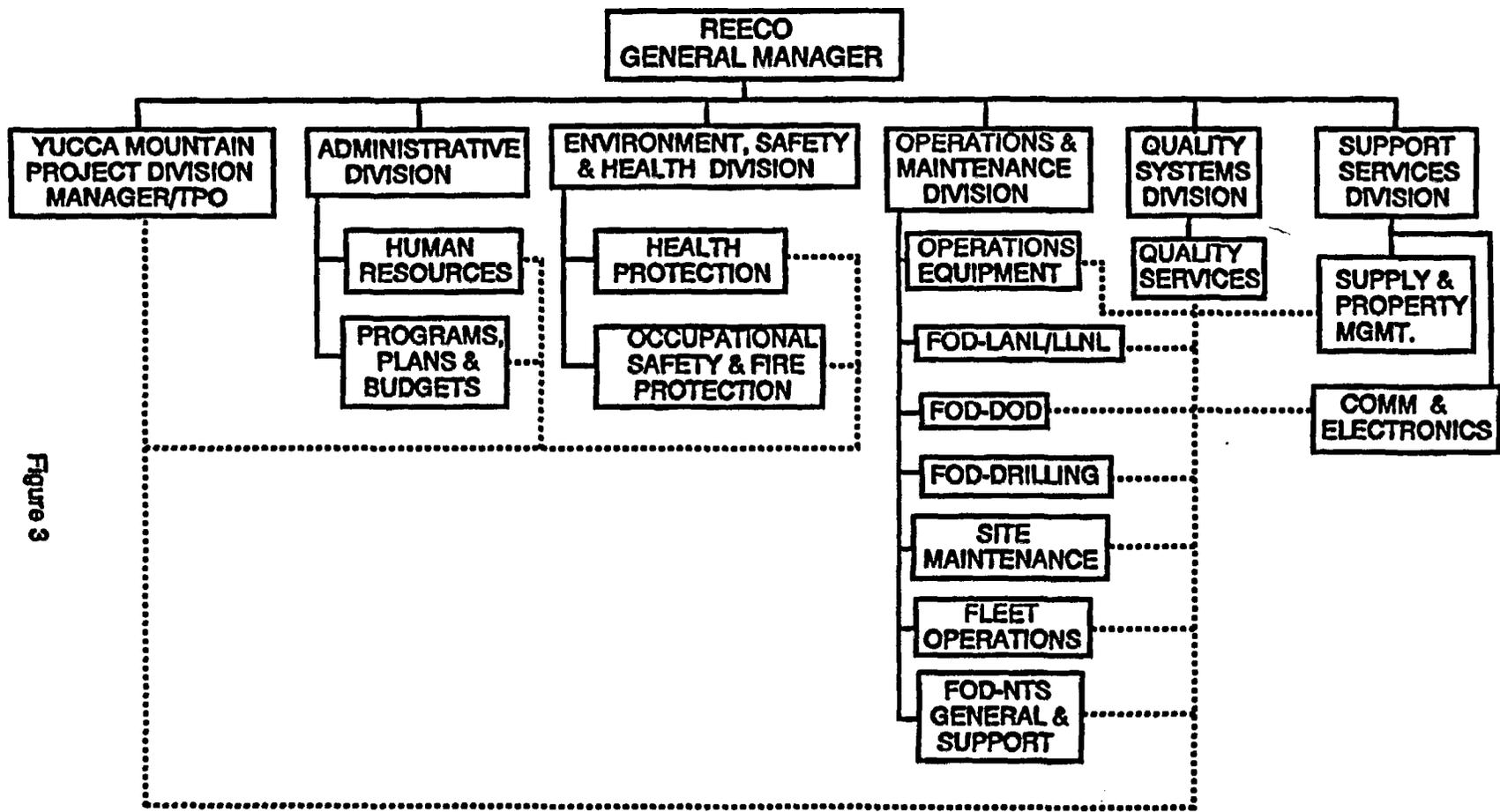


Figure 3

\_\_\_\_\_ DEDICATED DIRECT REPORTING  
 ..... MATRIX SUPPORT TO YMP



# Reynolds Electrical & Engineering Co., Inc.

Post Office Box 98521 • Las Vegas, NV 89193-8521

IN REPLY REFER TO:

580-01-166

WBS 1.2.9  
QA

JAN 13 1992

Richard E. Spence, Director  
Quality Assurance Division  
Yucca Mountain Site Characterization  
Project Office  
U.S. Department of Energy  
Post Office Box 98608  
Las Vegas, NV 89193-8608

## CHANGES/REVISIONS TO PARTICIPANT QUALITY ASSURANCE (QA) PROGRAM DESCRIPTIONS

In accordance with requirements, Reynolds Electrical & Engineering Co., Inc. (REECo) is submitting for your approval the enclosed proposed changes to our Quality Assurance Program Plan, 568-DOC-115, Revision 8. These changes represent a clarification of our program commitments based on the current Quality Assurance Requirements Document requirements. Further, REECo considers that the changes are minor in nature and do not downgrade or compromise any previously accepted commitments.

Upon receipt of your approval, REECo will establish an effective date, date the change notice, and issue for implementation. Should you have any questions or require further information, please contact W. J. Glasser of my staff at 794-7562.

R. F. Pritchett, Manager  
Yucca Mountain Project Division  
YMP Technical Project Officer

RFP:WJG:MDM

Enclosure  
Quality Assurance Program Plan  
Change Notice QAPPCN-92-01 (1 page)

cy w/o encl.

Central Files THRU  
Executive Office, M/S 555  
W. J. White, DOE/NV, M/S 505  
P. J. Wilson, REECo, M/S 408

**REECo**

AN **RECO** COMPANY

|   |                  |                |
|---|------------------|----------------|
| REECo<br>YUCCA MOUNTAIN PROJECT<br>QAPP CHANGE NOTICE | QAPPCN No. 92-01 | Date:          |
|   | Major Change     | Minor Change X |

| Page    | Paragraph | Description of Change  |
|---------|-----------|--|
|         |           | EFFECTIVE DATE:  |
| IV-4    | 1.2.4     | Delete paragraph 1.2.4 in its entirety.  |
| V-1     | 4.0       | Delete paragraph 4.0 in its entirety.  |
| VI-2    | 3.1       | Delete last sentence, "A master list or equivalent . . ."  |
| XV-4    | 1.4.5     | Delete paragraph 1.4.5 in its entirety and replace with the following:<br><br>Item deficiencies that are detected during site characterization, construction, operation, and testing of the project, shall be reported through the Yucca Mountain Site Characterization Project Office (YMPO) or the Yucca Mountain Site Office (YMSO) in accordance with applicable procedures. |
| XV-5    | 4.0       | Delete paragraph 4.0 in its entirety.  |
| XVI-2   | 2.0       | Delete paragraph 2.0 in its entirety.  |
| XVIII-1 | 1.1.1     | Delete third (3rd) sentence, "External and internal audit . . ."   |

Affected Documents: 568-DOC-115, QP 4.0, 15.0, 16.0, & 18.0, current Rev.

Originator: *[Signature]* Date: 1/10/92

Technical Project Officer Approval: *[Signature]* Date: 1/13/92

Project QA Manager Approval: *[Signature]* Date: 1/10/92



# Reynolds Electrical & Engineering Co., Inc.

Post Office Box 98521 • Las Vegas, NV 89193-8521

IN REPLY REFER TO:

580-01-202

**INFORMATION COPY**

WBS 1.2.9  
QA

JAN 8 1 1992

Richard E. Spence, Director  
Quality Assurance Division  
Yucca Mountain Site Characterization  
Project Office  
U.S. Department of Energy  
Post Office Box 98608  
Las Vegas, NV 89193-8608

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R. F. Pritchett, Manager  
Yucca Mountain Project Division  
YMP Technical Project Officer

RFP:WJG:MDM

Enclosure  
Quality Assurance Program Plan  
Change Notice QAPPCN-92-02 (1 page)

cy w/o encl.

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W. J. White, DOE/NV, M/S 505  
P. J. Wilson, REECo, M/S 408

**TOTAL QUALITY IS OUR BUSINESS**

**REECo**

AN EG&G COMPANY

|   |                  |                |
|---|------------------|----------------|
| REECO<br>YUCCA MOUNTAIN PROJECT<br>QAPP CHANGE NOTICE | QAPPCN No. 92-02 | Date:          |
|   | Major Change     | Minor Change X |

| Page | Paragraph | Description of Change   |
|------|-----------|---|
| V-1  | 2.0       | EFFECTIVE DATE:<br><br>Delete last sentence, "If applicable, this review shall consider whether or not . . ." |

Affected Documents: 568-DOC-115, current Rev.

|                                     |                          |               |
|-------------------------------------|--------------------------|---------------|
| Originator:                         | <i>Doug J. Wilson</i>    | Date: 1/29/92 |
| Technical Project Officer Approval: | <i>R. F. Pritchett</i>   | Date: 1/31/92 |
| Project QA Manager Approval:        | <i>William D. Glasse</i> | Date: 1-31-92 |