



Department of Energy
Washington, DC 20585

APR 14 1989

Mr. John J. Linehan, Director
Repository Licensing and Quality
Assurance Directorate
Division of High-Level Waste Management
Nuclear Materials Safety and
Safeguards Division
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Mr. Linehan:

As discussed in our meeting on January 25, 1989, The Department of Energy (DOE) has committed to forward to the Nuclear Regulatory Commission (NRC) the Quality Assurance Program Plans (QAPPs) for the Yucca Mountain Project's (YMP) participants. Enclosed for your information are the QAPPs for Sandia National Laboratory (SNL) and the U. S. Geological Survey (USGS). In addition to the QA plans, we are sending matrices for the QAPP showing the consistency with review requirements as governed by NNWSI/88-9, Revision 2, and the NRC Standard Review Plan, Revision 0.

In addition to the QAPPs, each participant organization is developing specific procedures for implementing the QA requirements of their program. Enclosed for your information are the most recent list of procedures for SNL and USGS. As you know, the identification and preparation of the procedures is a dynamic process which is continually being updated by the project participants. At your request, DOE will provide future updated lists of procedures and/or the procedures themselves.

The QAPPs have been approved by the Yucca Mountain Project Office, and SNL and the USGS have been instructed to implement the requirements of the plans, effective immediately. Should you have any questions, please call me at 586-1462.

Sincerely,

Gordon Appel, Chief
Licensing Branch
Office of Systems Integration and
Regulations
Office of Civilian Radioactive
Waste Management

Enclosures

FULL TEXT ASCII SCAN

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PDR WASTE
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cc:

J. Blaylock, YMP
S. Zimmerman, State of Nevada
S. Bradhurst, Nye County Nevada
M. Baughman, Lincoln County Nevada
D. Bechtel, Clark County Nevada



Department of Energy

Nevada Operations Office
P. O. Box 98518
Las Vegas, NV 89193-8518
APR 04 1989

WBS # 1.2.9.3
"QA"

Lake H. Barrett, Director, Quality Assurance, HQ (RW-3) FORS

OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT (OCRWM) REVIEW OF YUCCA MOUNTAIN PROJECT QUALITY ASSURANCE PROGRAMMATIC INFORMATION - SANDIA NATIONAL LABORATORIES (SNL)

Enclosed for your review is the Quality Assurance Program Plan (QAPP) for SNL. Also enclosed are corresponding implementing procedure lists, an 88-9 compliance matrix, a Standard Review Plan Checklist, and the QAPP approval letter.

It is our understanding that the OCRWM will forward participant quality assurance programmatic information to the U.S. Nuclear Regulatory Commission (NRC) for review in keeping with the schedule for NRC acceptance and qualification. Other participant's QAPPs will be provided to you upon approval by the Yucca Mountain Project Office.

Should you have any questions or comments, please contact Albert C. Williams of my staff at (702) 794-7591 or FTS 544-7591, or Kent B. Johnson of Science Applications International Corporation at (702) 794-7751 or FTS 544-7751.

James Blaylock

James Blaylock
Project Quality Manager
Yucca Mountain Project Office

YMP:JB-2991

Enclosures:

1. QAPP
2. Compliance Matrix
3. List of Implementing Procedures
4. Project Office Approval Letter
5. SRP Checklist

cc w/o encls:

Stephen Metta, SAIC, Las Vegas, NV
J. W. Estella, SAIC, Las Vegas, NV
K. B. Johnson, SAIC, Las Vegas, NV
B. W. Hurley, SAIC, Las Vegas, NV
J. A. Huston, SAIC, Las Vegas, NV

4/18/89
Received w/Ltr Dated

102.7



Department of Energy

Nevada Operations Office

P. O. Box 98518

Las Vegas, NV 89193-8518

WBS # 1.2.9.3

"QA"

APR 3 1989

QA RECEIVED

APR 04 1989

Thomas O. Hunter
Technical Project Officer for Yucca Mountain Project
ATTN: Robert Richards
Sandia National Laboratories
P.O. Box 5800
Organization 6310
Albuquerque, NM 87185

YUCCA MOUNTAIN PROJECT OFFICE (PROJECT OFFICE) APPROVAL OF THE SANDIA NATIONAL LABORATORIES (SNL) QUALITY ASSURANCE PROGRAM PLAN (QAPP), REVISION C (NNL-1989-1770)

Reference: Letter, Richards to Johnson, dtd. 3/27/89

The Project Office has completed its review of Revision C to the SNL QAPP and has found the revision to be consistent with the requirements of the Yucca Mountain Project Quality Assurance (QA) Plan (88-9), Revision 2. The plan is hereby approved for use on the Yucca Mountain Project.

Upon receipt of this letter, please submit a controlled copy of the QAPP and all controlled documents that implement it (e.g., instructions, procedures, and drawings) and revisions thereto to the QA Support Contractor and Yucca Mountain Project QA Office for reference and use.

Your cooperation regarding this matter is appreciated. If you have any questions, please contact Albert C. Williams of my staff at (702) 794-7591 or FTS 544-7591, or Kent B. Johnson of Science Applications International Corporation at (702) 794-7751 or FTS 544-7751.

James Blaylock
James Blaylock

Project Quality Manager
Yucca Mountain Project Office

YMP:JB-2990

cc:
Ralph Stein, HQ (RW-30) FORS
L. H. Barrett, HQ (RW-3) FORS
S. H. Klein, SAIC, Las Vegas, NV
J. W. Estella, SAIC, Las Vegas, NV
K. B. Johnson, SAIC, Las Vegas, NV
S. P. Nolan, SAIC, Las Vegas, NV
J. A. Huston, SAIC, Las Vegas, NV

PARTICIPANT PROCEDURES REQUIRED FOR FQOQAP PER 88-9 REV 2

MILESTONE LEGEND:
1-TITLE II DESIGN, 2-LONG LEAD PROC, 3-SITE PREP, 4-FQOQAP

PROCEDURE	REV	TITLE	APQ REF	MILE STONE	ISSUE DATE	NEED DATE
** SNL						
DOP 02-01	A	REQUIREMENTS FOR TASK DEFINITION STATEMENTS		4	/ /	03/27/89
DOP 02-02	B	STUDY PLAN REQUIREMENTS	1.10Q	4	11/11/88	03/27/89
DOP 02-04	A	ANALYSIS CONTROL AND VERIFICATION		1	11/13/86	03/01/89
DOP 02-06	A	CERTIFICATION OF PROJECT PERSONNEL		1	02/01/89	03/01/89
DOP 02-08	O	CONDUCT AND REPORTING OF MANAGEMENT ASSESSMENTS		4	04/06/88	03/27/89
DOP 02-09	O	READINESS REVIEW	5.13Q	4	/ /	03/27/89
DOP 03-01	C	PREPARING, REVIEWING, APPROVING, AND ISSUING NNWSI ENGINEERING DRAWINGS		1	01/27/89	03/01/89
DOP 03-02	B	SOFTWARE QUALITY ASSURANCE REQUIREMENTS		4	01/27/89	03/27/89
DOP 03-03	B	ANALYSIS DEFINITION REQUIREMENTS		1	01/27/89	03/01/89
DOP 03-04	C	DESIGN INVESTIGATION CONTROL		1	02/01/89	03/01/89
DOP 03-05	A	DESIGN CONTROL AND VERIFICATION		1	01/26/89	03/01/89
DOP 03-06	B	DESIGN CHANGE CONTROL	5.6Q	1	01/26/89	03/01/89
DOP 03-07	A	TECHNICAL DATA BASE REQUIREMENTS		1	04/02/87	03/01/89
DOP 03-08	A	REFERENCE INFORMATION BASE CHANGE CONTROL	5.3Q	1	03/04/88	03/01/89
DOP 03-09	B	SNL INTERFACE CONTROL OF ENGINEERING DESIGN	5.6Q	1	01/26/89	03/01/89
DOP 03-10	A	NNWSI ROUTINE DESIGN CALCULATIONS		1	01/26/89	03/01/89
DOP 03-11	O	ROKTS FOR SUBMITTING DATA TO THE NNWSI PROJECT SITE AND ENGR. PROPERTIES DATA BASE (SEPDB)	5.2Q	1	04/25/88	03/01/89
DOP 03-12	O	PEER REVIEWS		1	02/01/89	03/01/89
DOP 03-13	O	TECHNICAL REVIEWS OF DOCUMENTS		4	01/27/89	03/27/89
DOP 03-14	O	QUALIFICATION OF DATA OR DATA ANALYSIS NOT FROM YMP QA PROGRAM	5.9Q	4	/ /	03/27/89
DOP 03-15	O	PROVIDING INSTRUCTIONS FOR NTS CONTRACTS WORK		4	/ /	03/27/89
DOP 04-01	C	PROCUREMENT DOCUMENT REQUIREMENTS		4	08/24/88	03/27/89
DOP 05-01	B	QUALITY ASSURANCE PROCEDURE REQUIREMENTS		1	05/11/88	03/01/89
DOP 05-02	E	TECHNICAL PROCEDURE REQUIREMENTS		4	01/11/89	03/27/89
DOP 05-03	O	QA REVIEW OF DEPARTMENT OPERATING PROCEDURES (DOPS)		1	09/29/86	03/01/89
DOP 06-01	A	DOCUMENT CONTROL SYSTEM PROCEDURES	1.5Q	1	03/10/89	03/01/89
DOP 06-02	A	PROCEDURE FOR REVIEWING, APPROVING, AND ISSUING NNWSI TECHNICAL INFORMATION	1.3Q	1	01/09/89	03/01/89
DOP 07-01	C	PROCUREMENT PLANNING		4	08/24/88	03/27/89
DOP 07-02	B	EVALUATION FOR ACCEPTANCE OF PURCHASED ITEMS AND SERVICES		4	08/24/88	03/27/89
DOP 08-01	D	SAMPLE IDENTIFICATION AND HANDLING REQUIREMENTS		4	02/01/89	03/27/89
DOP 08-02	A	QUALITY ASSURANCE PROCEDURE FOR OPERATION OF THE NNWSI CORE LIBRARY		4	07/15/88	03/27/89

PARTICIPANT PROCEDURES REQUIRED FOR FQQAP PER 88-9 REV 2

MILESTONE LEGEND:
1-TITLE II DESIGN, 2-LONG LEAD PROC, 3-SITE PREP, 4-FQQAP

PROCEDURE	REV	TITLE	APQ REF	MILE STONE	ISSUE DATE	NEED DATE
DOP 11-01	C	EXPERIMENT AND EQUIPMENT-TEST PROCEDURE REQUIREMENTS		4	07/28/88	03/27/89
DOP 11-02	B	REQUIREMENTS FOR EXPERIMENT/TEST LOGBOOKS		4	08/26/87	03/27/89
DOP 11-03	B	DATA RECORDS MANAGEMENT SYSTEM INTERACTION		4	07/13/88	03/27/89
DOP 12-01	B	CALIBRATION PROGRAM		4	07/21/88	03/27/89
DOP 13-01	A	IDENT, HANDLING, SHIPPING, AND STORAGE PROCEDURES FOR ITEMS AND MATERIALS		4	08/02/88	03/27/89
DOP 14-01	O	STATUS INDICATION OF ITEMS		4	03/09/87	03/27/89
DOP 17-01	C	RECORDS MANAGEMENT	1.7Q	1	11/09/88	03/01/89
DOP 17-02	B	OPERATION OF THE SNL NNWSI PROJECT DATA RECORDS MANAGEMENT SYSTEM (DRMS)		4	07/18/88	03/27/89
QAP 01-01	-	QAPP CONTROL		4	/ /	03/27/89
QAP 01-03	O	PROCEDURE FOR QUALITY-RELATED WORK STOPPAGES		1	01/23/89	03/01/89
QAP 01-04	-	RESOLUTION OF QA-RELATED DISPUTES	5.8Q	1	/ /	03/01/89
QAP 02-03	B	WORK PLANS		1	/ /	03/01/89
QAP 02-05	B	TRAINING AND FAMILIARIZATION PROGRAM		1	03/10/89	03/01/89
QAP 02-07	B	CERTIFICATION OF QUALITY ASSURANCE AUDITORS		1	01/23/89	03/01/89
QAP 02-10	O	ASSIGNMENT OF QA LEVELS		4	/ /	03/27/89
QAP 02-11	O	DETERMINATION OF APPROPRIATE QA CONTROLS	5.4Q	4	/ /	03/27/89
QAP 07-03	O	EVALUATION OF CONTRACTOR QA PROGRAMS		4	/ /	03/27/89
QAP 10-01	A	SURVEILLANCE REQUIREMENTS		1	01/25/89	03/01/89
QAP 15-01	A	NONCONFORMANCE REPORTING AND CONTROLS		4	/ /	03/27/89
QAP 16-01	A	CORRECTIVE ACTION REQUIREMENTS		1	01/26/89	03/01/89
QAP 16-02	O	DEVIATION REPORTING		1	01/27/89	03/01/89
QAP 16-03	O	QA PROGRAM STATUS REPORT (TREND ANALYSIS)		4	/ /	03/27/89
QAP 18-01	A	QUALITY ASSURANCE AUDITING PROCEDURES		1	01/05/89	03/01/89