



Department of Energy
Washington, DC 20585

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

Dear Mr. Linehan:

As discussed at our meeting on January 25, 1989, DOE has committed to forward to the NRC the Quality Assurance Program Plans (QAPPs) for the Yucca Mountain Project's (YMP) participants. Enclosed for your information are the QAPPs for Fenix and Scisson (F & S) and Reynolds Electric and Engineering Co., Inc. (REECo). In addition to the documents, we have included a matrix for each QAPP showing that the two QAPPs are consistent with review requirements as governed by NNWSI/88-9, Rev. 2.

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 lists of procedures for F & S and REECo. 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 two QAPPs have been approved by the Yucca Mountain Project Office, and F & S and REECo have been instructed to implement the requirements of their plans, effective immediately. Should you have any questions, please call me at 586-1462.

Sincerely,

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

cc:
S. Zimmerman, State of Nevada

Enclosures

8902210105 890221
PDR WASTE
WM-11 PDC

102-1
102-11
102-11

**REECO PROCEDURES REQUIRED FOR
FULLY QUALIFIED QA PROGRAM PER 88-9 REVISION 2**

PROCEDURE	REV	TITLE
554-DOC-17.10	0	QA RECORDS MANAGEMENT HANDBOOK
AP-01.0	0	PROCEDURE PREPARATION
AP-02.0	0	TRAINING
APXX.XX		MANAGEMENT ASSESSMENT
APXX.XX		READINESS REVIEW
EH-6131	1	NNWSI PROJECT PROCUREMENT PROCEDURE
QP-01.0	4	ORGANIZATION
QP-01.01	1	RESOLUTION OF DISPUTES
QP-01.02	0	STOP WORK ORDER
QP-02.0	3	QUALITY ASSURANCE PROGRAM
QP-02.01	3	CERTIFICATION OF INSPECTION AND TEST PERSONNEL
QP-02.02	3	PERSONNEL QUALIFICATION
QP-03.0	2	SCIENTIFIC INVESTIGATION CONTROL AND DESIGN CONTROL
QP-03.01	2	DESIGN REVIEW
QP-04.0	4	PROCUREMENT DOCUMENT CONTROL
QP-05.0	4	INSTRUCTIONS, PROCEDURES, AND DRAWINGS
QP-06.0	3	DOCUMENT CONTROL
QP-07.0	4	CONTROL OF PURCHASED MATERIALS, EQUIPMENT, AND SERVICES
QP-07.02	3	PROCUREMENT DOCUMENT REVIEW
QP-07.03	2	SUPPLIER EVALUATION
QP-07.04	2	ANNUAL SUPPLIER EVALUATION
QP-08	3	IDENTIFICATION AND CONTROL OF MATERIALS, PARTS, AND COMPONENTS

REECO PROCEDURES (CON'T)

QP-09.0	3	CONTROL OF PROCESSES
QP-09.01	2	WELDING PROCEDURE QUALIFICATION
QP-09.02	2	WELDER CERTIFICATION
QP-10.0	3	INSPECTION
QP-10.01	3	SURVEILLANCE
QP-11.0	3	TEST CONTROL
QP-12.0	4	CONTROL OF MEASURING AND TEST EQUIPMENT
QP-13.0	3	HANDLING, SHIPPING, AND STORAGE
QP-14.0	4	INSPECTION, TEST, AND OPERATING STATUS
QP-15.0	4	NONCONFORMANCES
QP-16.0	4	CORRECTIVE ACTION
QP-16.02	0	TREND ANALYSIS
QP-17.0	3	QUALITY ASSURANCE RECORDS
QP-18	4	AUDITS
TPO-01	0	DOCUMENT DISTRIBUTION CONTROL
TPO-02	0	DESIGN AND DOCUMENT REVIEW
TPO-03	0	LITIGATION DISCOVERY PROCESS OF NNWSI PROJECT RECORDS
TPO-04	1	YMP RECORDS MANAGEMENT

FENIX AND SCISSON PROCEDURES REQUIRED FOR
FULLY QUALIFIED QA PROGRAM PER 88-9 REVISION 2

PROCEDURE	REV	TITLE
DC-01	6	DESIGN INPUTS AND INFORMATIONAL DATA TO OUTSIDE ORGANIZATIONS
DC-02	6	DESIGN METHODOLOGY
DC-03	6	DESIGN ANALYSIS
DC-04	6	DESIGN VERIFICATION
DC-05	5	EXTERNAL INTERFACE CONTROL
DC-07	6	DEVELOPMENT OF TECHNICAL SPECIFICATIONS
DC-08	5	PREPARATION OF DESIGN CONTROL PROCEDURES
DC-09	6	INTERDISCIPLINE CHECKING
DC-11	5	EXTERNAL COMMENT CONTROL
DC-12	5	COMPUTER PROGRAM VERIFICATION
DC-13	5	DRAFTING PROCEDURES AND STANDARDS
DC-14	5	TECHNICAL STUDIES
DC-15	5	BASIS FOR DESIGN
DC-16	4	DOCUMENT CONTROL
DC-18	2	TRAINING ON DESIGN CONTROL PROCEDURES
DC-20	5	PROJECT DESIGN FILE SYSTEM
DC-25	0	CONFIGURATION MANAGEMENT
DC-26	0	CONFIGURATION IDENTIFICATION AND DOCUMENTATION
DC-27	0	CONFIGURATION STATUS REPORTING
DC-28	0	CONFIGURATION CHANGE CONTROL
DC-29	0	SAFETY/RELIABILITY ANALYSIS
PP-10-01	3	PREPARATION OF PROCEDURES
PP-10-02	1	TRAINING ON NNWSI PROCEDURES

FENIX AND SISSION PROCEDURES (Cont'd)

PP-10-03	1	HANDLING CORRESPONDENCE AND DOCUMENTS
PP-10-04	2	MANAGEMENT ASSESSMENT
PP-10-05	0	DESK INSTRUCTIONS
PP-10-06	0	DEVELOPMENT OF PROJECT MANAGEMENT PLAN
PP-20-01	2	DEVELOPMENT OF PROGRAMS FOR DRILLING AND ADDITIONAL WORK ACTIVITIES
PP-20-02	2	DRILLING SPECIALIST SURVEILLANCE
PP-30-01	1	NNWSI GEOLOGY/HYDROLOGY ORGANIZATIONAL INTERFACE
PP-40-01	2	PROCEDURES FOR THE RECEIPT AND DISTRIBUTION OF NNWSI CRITERIA W/I THE F&S MINING DEPARTMENT
PP-40-02	2	DEVELOPMENT OF MINING PROGRAMS FOR NNWSI ACTIVITIES AT NTS
PP-50-01	2	YMP RECORDS MANAGEMENT
PP-50-02	1	YMP RECORDS STORAGE REQUIREMENTS
PP-50-03	1	DUPLICATION OF YMP VIDEO TAPES
PP-50-04	1	YMP DOCUMENT PREPARATION FOR MICROFILMING
PP-50-07	0	OUTSIDE AGENCIES - ACCESS REVIEW AND REPRODUCTION OF YUCCA MOUNTAIN PROJECT RECORDS
PP-50-09	0	LITIGATION DISCOVERY PROCESS OF F AND S YMP RECORDS
PP-50-14	0	WRITING HISTORICAL REPORTS OF DRILLING AND MINING OPERATIONS
PP-60-01	1	PERSONNEL SELECTION AND INDOCTRINATION
PP-60-02	1	PURCHASING
QAP-01.01 (N)	4	ORGANIZATION
QAP-02.01 (N)	4	QUALITY ASSURANCE PROGRAM PLAN
QAP-02.02 (N)	3	TRAINING AND INDOCTRINATION OF QA PERSONNEL
QAP-02.03 (N)	3	QUALIFICATION OF AUDITORS
QAP-03.01 (N)	3	ENGINEERING DRAWINGS
QAP-03.02 (N)	3	TECHNICAL SPECIFICATIONS

FENIX AND SCISSION PROCEDURES (Cont'd)

QAP-03.03 (N)	0	DESIGN ANALYSIS (COMPLETE)
QAP-04.01 (N)	4	PROCUREMENT DOCUMENT CONTROL
QAP-04.02 (N)	1	PROCUREMENT AUTHORIZATION FORM
QAP-05.01 (N)	3	PREPARATION OF QA PROCEDURES
QAP-06.01 (N)	2	DOCUMENT CONTROL
QAP-07.01 (N)	1	SUPPLIER SURVEY
QAP-07.02 (N)	1	SURVEILLANCE INSPECTION REQUIREMENT
QAP-10.01 (N)	2	SOURCE SURVEILLANCE
QAP-12.01 (N)	1	CONTROL OF MEASURING AND TEST EQUIPMENT
QAP-15.02 (N)	3	CONTROL OF NONCONFORMING ITEMS
QAP-15.03 (N)	-	UNUSUAL OCCURRENCE REPORTING (TO BE DELETED)
QAP-16.01 (N)	4	CORRECTIVE ACTION REQUESTS
QAP-16.02 (N)	1	DEFICIENCY REPORTING
QAP-16.03 (N)	1	TREND ANALYSIS
QAP-18.01 (N)	4	AUDITS
QAP-18.03 (N)	1	SURVEILLANCE
TBD (PP)	0	COMPUTER PROGRAM VERIFICATION
TBD (QAP)	0	CONTROL OF PURCHASED ITEMS AND SERVICE



Department of Energy

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

WBS 1.2.9.3
"QA"

JAN 31 1989

Richard L. Bullock
Technical Project Officer for Yucca Mountain Project
Fenix & Scisson, Inc.
101 Convention Center Drive
Phase II, Suite P-250
M/S 403
Las Vegas, NV 89109

YUCCA MOUNTAIN PROJECT OFFICE (PROJECT OFFICE) REVIEW OF QUALITY ASSURANCE
PROGRAM PLAN (QAPP)-002, REVISION 6 (DRAFT) FOR COMPLIANCE TO NNSI/88-9,
REVISION 2 (NNI-1989-1107)

References: (1) Letter, Gertz to Distribution, dtd. 12/23/88
(2) Letter, Cross to Gertz, dtd. 12/30/88

Please be advised that the Project Office has completed its review of the Fenix & Scisson (F&S) QAPP-002, Revision 6 (draft) for compliance to NNSI/88-9, Revision 2, requirements. We have verified that the changes of NNSI/88-9, Revision 2, have been incorporated into the F&S QAPP and that Sections 8, 9, 11, and 14, which were previously taken exception to, have been incorporated satisfactorily. Based on the aforementioned, the Project Office considers the F&S QAPP-002, Revision 6, approved and in compliance with NNSI/88-9, Revision 2.

Upon receipt of this letter, please submit a controlled copy of the F&S QAPP and all controlled documents that implement this plan (e.g., instructions, procedures, and drawings), and revisions thereto, to the Quality Assurance (QA) support contractor's office and Project Office QA for reference and use.

Your cooperation regarding this matter is appreciated. Should you have any questions, please contact Albert C. Williams of my staff at 794-7591 or Kenneth M. Wolverton of Technical & Management Support Services at 794-7189.

James Blaylock
James Blaylock
Project Quality Manager -
Yucca Mountain Project Office

YMP:JB-1763

Enclosure:
Document Review Sheets

Richard L. Bullock

-2-

JAN 31 1989

cc w/encl:

L. H. Barrett, HQ (RM-3) FORS
S. H. Klein, SAIC, Las Vegas, NV
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
K. M. Wolverson, HARZA, Las Vegas, NV
A. C. Williams, YMP, NV
W. B. Mansel, YMP, NV
E. L. Wilmot, YMP, NV
A. L. Baca, YMP, NV
N. A. Voltura, YMP, NV

UNCONTROLLED

QAPP-002, REV. 6

**FENIX & SCISSON, INC.
LAS VEGAS BRANCH**

INTRODUCTION

QUALITY ASSURANCE PROGRAM PLAN

STATEMENT OF POLICY AND AUTHORITY

It is the policy of Fenix & Scisson, Inc., (F&S) Las Vegas Branch to establish and maintain a documented Quality Assurance Program. The purpose of the F&S Quality Assurance Program is to provide confidence that F&S will continually achieve satisfactory quality of performance in all areas of its operational activities through the application of effective management systems that assure conformance to programmatic objectives.

This Quality Assurance Program Plan (QAPP-002, Revision 6), describes the Fenix & Scisson, Inc., (F&S) Quality Assurance Program for the DOE Yucca Mountain Project (YMP). This plan is a revision to the F&S Quality Assurance Program Plan, QAPP-002, Rev. 5. The program is based upon and satisfies the applicable requirements of the Yucca Mountain Project Quality Assurance Plan, NNWSI/88-9, Rev. 2.

The Quality Assurance Program includes controls to verify conformance of all elements of the program including personnel, organization, work assignments, procedures, calibration requirements, documentation, nonconformances, and corrective action. Where project management plans are required, this Quality Assurance Program Plan shall be incorporated.

All F&S personnel involved in the performance of quality-related functions shall comply with the policies and requirements of this Quality Assurance Program Plan and procedures that implement the Quality Assurance Program. Each member of F&S Management is responsible to assure that all quality-related work performed under their cognizance is in compliance with the requirements of this Quality Assurance Program Plan.

Quality Assurance personnel have the responsibility to recognize and reveal problems pertaining to the quality of F&S programs, projects and activities; to initiate, recommend, or provide solutions to such problems; and to verify implementation of corrective action.

8902210179