

Serial No. 04-481
Docket No. 52-008
Transmittal of Documents in Response to NRC RAIs

Enclosure 8

**Bechtel Nuclear Quality Assurance Manual,
Revision 4
[Non-Proprietary Version]**

NUCLEAR QUALITY ASSURANCE MANUAL

Bechtel

NUCLEAR QUALITY ASSURANCE MANUAL

<u>4</u>	<u>11-01-2002</u>	<u>Revised Procedure Format. Revised Policy Q-2.1. Editorial changes reflected throughout the manual.</u>
Rev.	Date	Description



Nuclear Manager of Quality Assurance



President, Nuclear Global Business Unit

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NUCLEAR QUALITY ASSURANCE MANUAL

FORWARD

This manual is for use by Bechtel personnel for nuclear power plant projects. The term Bechtel, as used in this manual, applies to Bechtel Power Corporation (BPC); Bechtel Construction Operations, Inc. (BCOI); Bechtel Software, Inc. (BSI); and their affiliated companies, as may be required to accomplish Bechtel's scope of work on a nuclear project.

[Proprietary Information Deleted]

NUCLEAR QUALITY ASSURANCE MANUAL

TABLE OF CONTENTS

<u>No.</u>	<u>Title</u>	<u>Rev.</u>	<u>Date</u>
[Proprietary Information Deleted]			

<p>NUCLEAR QUALITY ASSURANCE MANUAL Policy No. Q-1.1 - Quality Program Requirements</p>

1.0 PURPOSE

[Proprietary Information Deleted]

2.0 APPLICABILITY

[Proprietary Information Deleted]

3.0 GENERAL

[Proprietary Information Deleted]

4.0 POLICY

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NUCLEAR QUALITY ASSURANCE MANUAL

Policy No. Q-1.2 - Codes, Standards, and Regulatory Requirements

1.0 PURPOSE

[Proprietary Information Deleted]

2.0 APPLICABILITY

[Proprietary Information Deleted]

3.0 GENERAL

[Proprietary Information Deleted]

4.0 POLICY

[Proprietary Information Deleted]

5.0 ATTACHMENT

[Proprietary Information Deleted]

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NUCLEAR QUALITY ASSURANCE MANUAL
Policy No. Q-1.2 - Codes, Standards, and Regulatory Requirements

Appendix A
Bechtel Position on QA Regulatory Guides and ANSI Standards

[Proprietary Information Deleted]

<p>NUCLEAR QUALITY ASSURANCE MANUAL Policy No. Q-1.3 - Indoctrination and Training</p>
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1.0 PURPOSE

[Proprietary Information Deleted]

2.0 APPLICABILITY

[Proprietary Information Deleted]

3.0 POLICY

[Proprietary Information Deleted]

4.0 REQUIREMENTS

[Proprietary Information Deleted]

4.1 QUALIFICATION

[Proprietary Information Deleted]

<p style="text-align: center;">NUCLEAR QUALITY ASSURANCE MANUAL Policy No. Q-1.4 - Management Reports and Review</p>
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1.0 PURPOSE

[Proprietary Information Deleted]

2.0 APPLICABILITY

[Proprietary Information Deleted]

3.0 POLICY

[Proprietary Information Deleted]

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NUCLEAR QUALITY ASSURANCE MANUAL

Policy No. Q-2.1 - Bechtel Organization

1.0 PURPOSE 1

[Proprietary Information Deleted]

2.0 GENERAL INTRODUCTION

[Proprietary Information Deleted]

3.0 FUNCTIONAL DEPARTMENT RESPONSIBILITIES

[Proprietary Information Deleted]

3.1 BECHTEL CONSTRUCTION OPERATIONS, INC.

[Proprietary Information Deleted]

3.2 CONSTRUCTION/SITE SERVICES

[Proprietary Information Deleted]

3.3 PROCUREMENT

[Proprietary Information Deleted]

3.4 QUALITY SERVICES

[Proprietary Information Deleted]

3.5 COMPUTER SERVICE ORGANIZATIONS

[Proprietary Information Deleted]

4.0 ATTACHMENTS (Organization Charts)

[Proprietary Information Deleted]

NUCLEAR QUALITY ASSURANCE MANUAL

Policy No. Q-2.1 - Bechtel Organization

1.0 PURPOSE

[Proprietary Information Deleted]

2.0 GENERAL INTRODUCTION

[Proprietary Information Deleted]

3.0 FUNCTIONAL DEPARTMENT RESPONSIBILITIES

[Proprietary Information Deleted]

3.1 BECHTEL CONSTRUCTION OPERATIONS, INC.

[Proprietary Information Deleted]

3.2 CONSTRUCTION/SITE SERVICES

[Proprietary Information Deleted]

3.3 PROCUREMENT

[Proprietary Information Deleted]

3.4 QUALITY SERVICES

[Proprietary Information Deleted]

3.5 COMPUTER SERVICE ORGANIZATIONS

[Proprietary Information Deleted]

4.0 ATTACHMENTS (Organization Charts)

[Proprietary Information Deleted]

<p style="text-align: center;">NUCLEAR QUALITY ASSURANCE MANUAL Policy No. Q-2.2 - Nuclear Project Organization (Typical)</p>

1.0 PURPOSE

[Proprietary Information Deleted]

2.0 APPLICABILITY

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3.0 PROJECT TEAM

[Proprietary Information Deleted]

4.0 POLICY

[Proprietary Information Deleted]

5.0 PROJECT MANAGER

[Proprietary Information Deleted]

6.0 PROJECT ENGINEERING TEAM

[Proprietary Information Deleted]

7.0 PROJECT SITE SERVICES TEAM

[Proprietary Information Deleted]

8.0 PROJECT QUALITY ASSURANCE

[Proprietary Information Deleted]

9.0 PROJECT PROCUREMENT

[Proprietary Information Deleted]

10.0 PROJECT ADMINISTRATION

[Proprietary Information Deleted]

11.0 ATTACHMENT

[Proprietary Information Deleted]

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NUCLEAR QUALITY ASSURANCE MANUAL

Policy No. Q-3.1 - Design Criteria

1.0 PURPOSE

[Proprietary Information Deleted]

2.0 APPLICABILITY

[Proprietary Information Deleted]

3.0 POLICY

[Proprietary Information Deleted]

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<p>NUCLEAR QUALITY ASSURANCE MANUAL Policy No. Q-3.2 - Control of Design Interfaces</p>

1.0 PURPOSE

[Proprietary Information Deleted]

2.0 APPLICABILITY

[Proprietary Information Deleted]

3.0 POLICY

[Proprietary Information Deleted]

3.1 Field Engineering procedures shall provide for the following:

[Proprietary Information Deleted]

<p style="text-align: center;">NUCLEAR QUALITY ASSURANCE MANUAL Policy No. Q-3.3 - Design Verification</p>
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1.0 PURPOSE

[Proprietary Information Deleted]

2.0 APPLICABILITY

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3.0 POLICY

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<p>NUCLEAR QUALITY ASSURANCE MANUAL Policy No. Q-3.4 - Design Change Control</p>
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1.0 PURPOSE

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2.0 APPLICABILITY

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3.0 POLICY

[Proprietary Information Deleted]

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<p style="text-align: center;">NUCLEAR QUALITY ASSURANCE MANUAL Policy No. Q-3.5 - Computer Programs</p>
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1.0 PURPOSE

[Proprietary Information Deleted]

2.0 APPLICABILITY

[Proprietary Information Deleted]

3.0 DEFINITIONS

[Proprietary Information Deleted]

4.0 POLICY

[Proprietary Information Deleted]

5.0 BECHTEL PROGRAMS USED BY OTHERS

[Proprietary Information Deleted]

6.0 RESPONSIBILITIES

[Proprietary Information Deleted]

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<p style="text-align: center;">NUCLEAR QUALITY ASSURANCE MANUAL Policy No. Q-4.1 - Preparation of Procurement Documents</p>

1.0 PURPOSE

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2.0 APPLICABILITY

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3.0 POLICY

[Proprietary Information Deleted]

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<p style="text-align: center;">NUCLEAR QUALITY ASSURANCE MANUAL Policy No. Q-5.1 - Instructions, Procedures, and Drawings</p>

1.0 PURPOSE

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2.0 APPLICABILITY

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3.0 POLICY

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<p style="text-align: center;">NUCLEAR QUALITY ASSURANCE MANUAL Policy No. Q-6.1 - Policy, Manual, and Procedure Control</p>
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1.0 PURPOSE

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2.0 APPLICABILITY

[Proprietary Information Deleted]

3.0 POLICY

[Proprietary Information Deleted]

3.1

4.0 CONTROLS

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5.0 ATTACHMENT

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NUCLEAR QUALITY ASSURANCE MANUAL
Policy No. Q-6.1 - Policy, Manual, and Procedure Control

Table Q-6.1-1
QUALITY PROGRAM RELATED DOCUMENTS

DOCUMENT	ORIGINATING AUTHORITY	REVIEW FOR QA POLICY AND PROGRAM REQUIREMENTS	AUTHORIZING APPROVAL	CONTENTS
[Proprietary Information Deleted]	[Proprietary Information Deleted]	[Proprietary Information Deleted]	[Proprietary Information Deleted]	[Proprietary Information Deleted]
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Notes:

1. [Proprietary Information Deleted]

NUCLEAR QUALITY ASSURANCE MANUAL

Policy No. Q-6.2 - Document Control

1.0 PURPOSE

[Proprietary Information Deleted]

2.0 APPLICABILITY

[Proprietary Information Deleted]

3.0 POLICY

[Proprietary Information Deleted]

4.0 RESPONSIBILITIES

[Proprietary Information Deleted]

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<p>NUCLEAR QUALITY ASSURANCE MANUAL Policy No. Q-7.1 - Supplier Source Evaluation</p>

1.0 PURPOSE

[Proprietary Information Deleted]

2.0 APPLICABILITY

[Proprietary Information Deleted]

3.0 POLICY

[Proprietary Information Deleted]

4.0 RESPONSIBILITIES

[Proprietary Information Deleted]

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<p align="center">NUCLEAR QUALITY ASSURANCE MANUAL Policy No. Q-7.2 - Supplier Surveillance and Audit</p>

1.0 PURPOSE

[Proprietary Information Deleted]

2.0 APPLICABILITY

[Proprietary Information Deleted]

3.0 POLICY

3.1 SUPPLIER QUALITY SURVEILLANCE

[Proprietary Information Deleted]

3.2 SUPPLIER AUDITS

[Proprietary Information Deleted]

4.0 RESPONSIBILITIES

[Proprietary Information Deleted]

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<p style="text-align: center;">NUCLEAR QUALITY ASSURANCE MANUAL Policy No. Q-7.3 - Review of Supplier's Documents</p>

1.0 PURPOSE

[Proprietary Information Deleted]

2.0 APPLICABILITY

[Proprietary Information Deleted]

3.0 POLICY

[Proprietary Information Deleted]

4.0 RESPONSIBILITIES

[Proprietary Information Deleted]

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<p style="text-align: center;">NUCLEAR QUALITY ASSURANCE MANUAL Policy No. Q-7.4 - Control of Supplier and Subcontractor Nonconformances</p>
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1.0 PURPOSE

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2.0 APPLICABILITY

[Proprietary Information Deleted]

3.0 POLICY

[Proprietary Information Deleted]

4.0 RESPONSIBILITIES

[Proprietary Information Deleted]

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NUCLEAR QUALITY ASSURANCE MANUAL

Policy No. Q-7.5 - Receiving Inspection

1.0 PURPOSE

[Proprietary Information Deleted]

2.0 APPLICABILITY

[Proprietary Information Deleted]

3.0 POLICY

[Proprietary Information Deleted]

4.0 RESPONSIBILITIES

[Proprietary Information Deleted]

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<p>NUCLEAR QUALITY ASSURANCE MANUAL Policy No. Q-7.6 - Subcontractor Control</p>
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1.0 PURPOSE

[Proprietary Information Deleted]

2.0 APPLICABILITY

[Proprietary Information Deleted]

3.0 POLICY

[Proprietary Information Deleted]

4.0 RESPONSIBILITIES

[Proprietary Information Deleted]

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NUCLEAR QUALITY ASSURANCE MANUAL

Policy No. Q-8.1 - Identification and Control of Materials, Parts, and Components

1.0 PURPOSE

[Proprietary Information Deleted]

2.0 APPLICABILITY

[Proprietary Information Deleted]

3.0 POLICY

[Proprietary Information Deleted]

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<p>NUCLEAR QUALITY ASSURANCE MANUAL Policy No. Q-9.1 - Control of Special Processes</p>

1.0 PURPOSE

[Proprietary Information Deleted]

2.0 APPLICABILITY

[Proprietary Information Deleted]

3.0 POLICY

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NUCLEAR QUALITY ASSURANCE MANUAL

Policy No. Q-10.1 - Plant Site Inspection

1.0 PURPOSE

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2.0 APPLICABILITY

[Proprietary Information Deleted]

3.0 POLICY

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NUCLEAR QUALITY ASSURANCE MANUAL

Policy No. Q-11.1 - Testing Requirements

1.0 PURPOSE

[Proprietary Information Deleted]

2.0 APPLICABILITY

[Proprietary Information Deleted]

3.0 POLICY

[Proprietary Information Deleted]

4.0 RESPONSIBILITIES

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<p style="text-align: center;">NUCLEAR QUALITY ASSURANCE MANUAL Policy No. Q-11.2 - Turnover of Systems, Components, and Systems</p>
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1.0 PURPOSE

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2.0 APPLICABILITY

[Proprietary Information Deleted]

3.0 POLICY

[Proprietary Information Deleted]

4.0 RESPONSIBILITIES

[Proprietary Information Deleted]

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<p style="text-align: center;">NUCLEAR QUALITY ASSURANCE MANUAL Policy No. Q-12.1 - Control of Measuring and Test Equipment</p>

1.0 PURPOSE

[Proprietary Information Deleted]

2.0 APPLICABILITY

[Proprietary Information Deleted]

3.0 POLICY

[Proprietary Information Deleted]

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NUCLEAR QUALITY ASSURANCE MANUAL

Policy No. Q-13.1 - Handling, Storage, Shipping, and Housekeeping Requirements

1.0 PURPOSE

[Proprietary Information Deleted]

2.0 APPLICABILITY

[Proprietary Information Deleted]

3.0 POLICY

[Proprietary Information Deleted]

4.0 RESPONSIBILITIES

[Proprietary Information Deleted]

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NUCLEAR QUALITY ASSURANCE MANUAL
Policy No. Q-14.1 - Control of Status of Items

1.0 PURPOSE

[Proprietary Information Deleted]

2.0 APPLICABILITY

[Proprietary Information Deleted]

3.0 POLICY

[Proprietary Information Deleted]

4.0 RESPONSIBILITIES

[Proprietary Information Deleted]

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<p style="text-align: center;">NUCLEAR QUALITY ASSURANCE MANUAL Policy No. Q-15.1 - Control of Nonconformances</p>
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1.0 PURPOSE1

[Proprietary Information Deleted]

2.0 APPLICABILITY

[Proprietary Information Deleted]

3.0 POLICY

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4.0 RESPONSIBILITIES

[Proprietary Information Deleted]

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<p>NUCLEAR QUALITY ASSURANCE MANUAL Policy No. Q-16.1 - Corrective Action Program</p>

1.0 PURPOSE

[Proprietary Information Deleted]

2.0 APPLICABILITY

[Proprietary Information Deleted]

3.0 POLICY

[Proprietary Information Deleted]

4.0 RESPONSIBILITIES

[Proprietary Information Deleted]

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<p style="text-align: center;">NUCLEAR QUALITY ASSURANCE MANUAL Policy No. Q-16.2 - Significant Reportable Deficiencies</p>

1.0 PURPOSE

[Proprietary Information Deleted]

2.0 APPLICABILITY

[Proprietary Information Deleted]

3.0 POLICY

[Proprietary Information Deleted]

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<p style="text-align: center;">NUCLEAR QUALITY ASSURANCE MANUAL Policy No. Q-17.1 - Office Records Retention/Turnover</p>

1.0 PURPOSE1

[Proprietary Information Deleted]

2.0 APPLICABILITY

[Proprietary Information Deleted]

3.0 POLICY

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<p style="text-align: center;">NUCLEAR QUALITY ASSURANCE MANUAL Policy No. Q-17.2 - Supplier and Subcontractor Records</p>
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1.0 PURPOSE

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2.0 APPLICABILITY

[Proprietary Information Deleted]

3.0 POLICY

[Proprietary Information Deleted]

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NUCLEAR QUALITY ASSURANCE MANUAL

Policy No. Q-17.3 - Construction/Site Services Quality Assurance Records

1.0 PURPOSE

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2.0 APPLICABILITY

[Proprietary Information Deleted]

3.0 POLICY

[Proprietary Information Deleted]

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NUCLEAR QUALITY ASSURANCE MANUAL
Policy No. Q-18.1 - Quality Assurance Audits

1.0 PURPOSE

[Proprietary Information Deleted]

2.0 APPLICABILITY

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3.0 POLICY

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<p style="text-align: center;">NUCLEAR QUALITY ASSURANCE MANUAL Policy No. NSR-1.6-1 - Quality Assurance Program for Fire Protection Systems</p>
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1.0 PURPOSE

[Proprietary Information Deleted]

2.0 SCOPE

[Proprietary Information Deleted]

3.0 GENERAL

[Proprietary Information Deleted]

4.0 REQUIREMENTS

[Proprietary Information Deleted]

5.0 PROGRAM APPLICABILITY

[Proprietary Information Deleted]

6.0 ATTACHMENT

[Proprietary Information Deleted]

<p style="text-align: center;">NUCLEAR QUALITY ASSURANCE MANUAL Policy No. NSR-1.6-1 - Quality Assurance Program for Fire Protection Systems</p>
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Attachment A

NRC REQUIREMENTS AS STATED IN NRC
BRANCH TECHNICAL POSITION APCS 9.5-1

NQAM POLICY

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<p style="text-align: center;">NUCLEAR QUALITY ASSURANCE MANUAL</p> <p>Policy No. NSR-1.6-2 - Quality Assurance Program for Radwaste Management Systems</p>

1.0 PURPOSE

[Proprietary Information Deleted]

2.0 SCOPE

[Proprietary Information Deleted]

3.0 GENERAL

[Proprietary Information Deleted]

4.0 REQUIREMENTS

[Proprietary Information Deleted]

5.0 PROGRAM APPLICABILITY

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6.0 ATTACHMENT

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<p style="text-align: center;">NUCLEAR QUALITY ASSURANCE MANUAL Policy No. NSR-1.6-2 - Quality Assurance Program for Radwaste Management Systems</p>
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Attachment A

NRC REQUIREMENTS AS STATED IN NRC
REGULATORY GUIDE 1.143

NQAM POLICY

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<p style="text-align: center;">NUCLEAR QUALITY ASSURANCE MANUAL Policy No. NSR-1.6-3 - Quality Assurance Program for Seismic I/I Items</p>
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1.0 PURPOSE1

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2.0 2.0 SCOPE

[Proprietary Information Deleted]

3.0 GENERAL

[Proprietary Information Deleted]

4.0 REQUIREMENTS

[Proprietary Information Deleted]

4.1 .

5.0 PROGRAM APPLICABILITY

[Proprietary Information Deleted]

6.0 ATTACHMENT

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<p align="center">NUCLEAR QUALITY ASSURANCE MANUAL Policy No. NSR-1.6-3 - Quality Assurance Program for Seismic II/I Items</p>
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Attachment A

<u>REQUIREMENTS</u>	<u>NOAM POLICY</u>
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<p>NUCLEAR QUALITY ASSURANCE MANUAL</p> <p>Appendix 3.1 - Glossary of Terms and Definitions</p>

The terms used in this manual follow the definitions provided in ANSI N45.2.10, ANSI/ASME NQA-1, and are supplemented by the following additional terms and definitions:

[Proprietary Information deleted]