

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

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



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.

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NUCLEAR QUALITY ASSURANCE MANUAL

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1.0 PURPOSE

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2.0 APPLICABILITY

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3.0 GENERAL

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4.0 POLICY

[Proprietary Information Deleted]

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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

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4.0 POLICY

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[Proprietary Information Deleted]

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

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NUCLEAR QUALITY ASSURANCE MANUAL
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1.0 PURPOSE

[Proprietary Information Deleted]

2.0 APPLICABILITY

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3.0 POLICY

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4.0 REQUIREMENTS

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NUCLEAR QUALITY ASSURANCE MANUAL
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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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NUCLEAR QUALITY ASSURANCE MANUAL

Policy No. Q-2.1 - Bechtel Organization

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3.0 FUNCTIONAL DEPARTMENT RESPONSIBILITIES

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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

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3.4 QUALITY SERVICES

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NUCLEAR QUALITY ASSURANCE MANUAL

Policy No. Q-3.1 - Design Criteria

1.0 PURPOSE

[Proprietary Information Deleted]

2.0 APPLICABILITY

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3.0 POLICY

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NUCLEAR QUALITY ASSURANCE MANUAL
Policy No. Q-3.2 - Control of Design Interfaces

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]

NUCLEAR QUALITY ASSURANCE MANUAL
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1.0 PURPOSE

[Proprietary Information Deleted]

2.0 APPLICABILITY

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3.0 POLICY

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NUCLEAR QUALITY ASSURANCE MANUAL
Policy No. Q-3.4 - Design Change Control

1.0 PURPOSE

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2.0 APPLICABILITY

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NUCLEAR QUALITY ASSURANCE MANUAL
Policy No. Q-3.5 - Computer Programs

1.0 PURPOSE

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2.0 APPLICABILITY

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3.0 DEFINITIONS

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4.0 POLICY

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5.0 BECHTEL PROGRAMS USED BY OTHERS

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6.0 RESPONSIBILITIES

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NUCLEAR QUALITY ASSURANCE MANUAL
Policy No. Q-4.1 - Preparation of Procurement Documents

1.0 PURPOSE

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2.0 APPLICABILITY

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3.0 POLICY

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NUCLEAR QUALITY ASSURANCE MANUAL
Policy No. Q-5.1 - Instructions, Procedures, and Drawings

1.0 PURPOSE

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2.0 APPLICABILITY

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3.0 POLICY

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

1.0 PURPOSE

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4.0 CONTROLS

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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:

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Policy No. Q-6.2 - Document Control

1.0 PURPOSE

[Proprietary Information Deleted]

2.0 APPLICABILITY

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4.0 RESPONSIBILITIES

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NUCLEAR QUALITY ASSURANCE MANUAL
Policy No. Q-7.1 - Supplier Source Evaluation

1.0 PURPOSE

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2.0 APPLICABILITY

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NUCLEAR QUALITY ASSURANCE MANUAL
Policy No. Q-7.2 - Supplier Surveillance and Audit

1.0 PURPOSE

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NUCLEAR QUALITY ASSURANCE MANUAL
Policy No. Q-7.3 - Review of Supplier's Documents

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2.0 APPLICABILITY

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NUCLEAR QUALITY ASSURANCE MANUAL

Policy No. Q-7.4 - Control of Supplier and Subcontractor Nonconformances

1.0 PURPOSE

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NUCLEAR QUALITY ASSURANCE MANUAL
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1.0 PURPOSE

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NUCLEAR QUALITY ASSURANCE MANUAL
Policy No. Q-7.6 - Subcontractor Control

1.0 PURPOSE

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2.0 APPLICABILITY

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3.0 POLICY

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4.0 RESPONSIBILITIES

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NUCLEAR QUALITY ASSURANCE MANUAL

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

1.0 PURPOSE

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2.0 APPLICABILITY

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3.0 POLICY

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NUCLEAR QUALITY ASSURANCE MANUAL
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NUCLEAR QUALITY ASSURANCE MANUAL

Policy No. Q-10.1 - Plant Site Inspection

1.0 PURPOSE

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NUCLEAR QUALITY ASSURANCE MANUAL
Policy No. Q-11.1 - Testing Requirements

1.0 PURPOSE

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2.0 APPLICABILITY

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3.0 POLICY

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NUCLEAR QUALITY ASSURANCE MANUAL
Policy No. Q-11.2 - Turnover of Systems, Components, and Systems

1.0 PURPOSE

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2.0 APPLICABILITY

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NUCLEAR QUALITY ASSURANCE MANUAL

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4.0 RESPONSIBILITIES

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

1.0 PURPOSE

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2.0 APPLICABILITY

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3.0 POLICY

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4.0 RESPONSIBILITIES

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NUCLEAR QUALITY ASSURANCE MANUAL
Policy No. Q-15.1 - Control of Nonconformances

1.0 PURPOSE

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2.0 APPLICABILITY

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3.0 POLICY

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4.0 RESPONSIBILITIES

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NUCLEAR QUALITY ASSURANCE MANUAL
Policy No. Q-16.1 - Corrective Action Program

1.0 PURPOSE

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2.0 APPLICABILITY

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3.0 POLICY

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4.0 RESPONSIBILITIES

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NUCLEAR QUALITY ASSURANCE MANUAL
Policy No. Q-16.2 - Significant Reportable Deficiencies

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-17.1 - Office Records Retention/Turnover

1.0 PURPOSE

[Proprietary Information Deleted]

2.0 APPLICABILITY

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3.0 POLICY

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NUCLEAR QUALITY ASSURANCE MANUAL
Policy No. Q-17.2 - Supplier and Subcontractor Records

1.0 PURPOSE

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2.0 APPLICABILITY

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3.0 POLICY

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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

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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

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2.0 APPLICABILITY

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3.0 POLICY

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NUCLEAR QUALITY ASSURANCE MANUAL

Policy No. NSR-1.6-1 - Quality Assurance Program for Fire Protection Systems

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]

NUCLEAR QUALITY ASSURANCE MANUAL
Policy No. NSR-1.6-1 - Quality Assurance Program for Fire Protection Systems

Attachment A

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

NQAM POLICY

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NUCLEAR QUALITY ASSURANCE MANUAL
Policy No. NSR-1.6-2 - Quality Assurance Program for Radwaste Management Systems

- 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]

NUCLEAR QUALITY ASSURANCE MANUAL
Policy No. NSR-1.6-2 - Quality Assurance Program for Radwaste Management Systems

Attachment A

NRC REQUIREMENTS AS STATED IN NRC
REGULATORY GUIDE 1.143

NQAM POLICY

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NUCLEAR QUALITY ASSURANCE MANUAL
Policy No. NSR-1.6-3 - Quality Assurance Program for Seismic I/I Items

1.0 PURPOSE1

[Proprietary Information Deleted]

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

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6.0 ATTACHMENT

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NUCLEAR QUALITY ASSURANCE MANUAL
Policy No. NSR-1.6-3 - Quality Assurance Program for Seismic I/I Items

Attachment A

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

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:

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