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>>>>>>> NUQAP TOPICAL REPORT REVISION DISTRIBUTION <<<<<<<

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FROM: NORTHEAST NUCLEAR ENERGY COMPANY

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WATERFORD, CT 06385 FAX 440-2057

SUBJECT: NUQAP TOPICAL REPORT REVISION

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Northeast
Utilities System

Memo

NO-00-0111

March 24, 2000

TO: Northeast Utilities Quality Assurance Program Topical Report Controlled Copyholders

FROM: D. S. Bruce

SUBJECT: NUQAP Topical Report Revision 21, Change 12
(Document No. MP-02-OST-BAP01)

Enclosed is NUQAP Revision 21, Change 12, reflecting the proposed organization change which combines the Maintenance and Work Management functions into one organization to better align and combine groups to capitalize on respective strengths. Maintenance maintains its reporting relationship to the VP-Nuclear Operations (as described in NUQAP Section 1.3.2), and absorbs the responsibilities of Work Management as described in NUQAP Section 1.3.9. In addition, the change is reflected in QAP 1.0, Figure 1.1.

Please replace the entire contents of the existing Quality Assurance Program, QAP 1.0, with the enclosed section.

Change 12 changes are in ***bold and italics*** with a revision bar in the right margin. The footer of the affected section includes a reference to Change 12.

Please insert the summary of changes document in the front of your manual. Please note the effective date of the change is **March 24, 2000**.

If you have any questions, contact D. Bruce at X3185.

Attachments:

1. Summary of changes incorporated as part of Revision 21, Change 12.

Enclosure:

Change 12 to the Northeast Utilities Quality Assurance Program Topical Report Revision 21.

Summary of Changes to NUQAP Rev. 21 Incorporated as Change 12

Section	Summary Description of Changes	Reference
Section 1.0	Modified Section 1.3.2 to eliminate Work Management.	Request 00-07
Section 1.0	Eliminated Work Management (previous 1.3.9) and added responsibilities of Work Management to Maintenance. (Renumbered sections as appropriate)	Request 00-07
Section 1.0	QAP 1.0, Figure 1.1, Eliminated Work Management.	Request 00-07

1.0 ORGANIZATION

1.1 INTRODUCTION

This section describes the organizations involved in the operation and technical support of Units 2 and 3 at Millstone Nuclear Power Station (MNPS). In addition, this section describes the responsibilities governed by the Northeast Utilities (NU) Quality Assurance Program (NUQAP). Qualifications for key personnel are found in the unit Technical Specifications and Appendix B, "Qualification and Experience Requirements."

NOTE

In the remainder of QAP 1.0, the text describes station - wide functions that. support Millstone Units 2 and 3.Units 2 and 3 organizations may supply services to, or use services from, the Unit 1 organization, with appropriate controls. Unit 1 is defueled and in a decommissioning mode.

Additional information on organizations supporting Unit 1, and on the quality assurance program for Millstone Unit 1, is provided in the Millstone Unit 1 Northeast Quality Assurance (NUQAP) Topical Report.

1.2 ORGANIZATION

The Chairman, President and Chief Executive Officer (CEO) of NU has ultimate responsibility and overall authority for the NU nuclear program, and has delegated the necessary responsibility and authority for all nuclear operations to the President and CEO-NNECO. In addition, Northeast Utilities Service Company (NUSCO) provides certain support services to NNECO. The President and CEO-NNECO is also the President-Generation Group of NUSCO..

1.3 KEY MANAGEMENT RESPONSIBILITIES AND AUTHORITY

1.3.1 Senior Vice President and CNO-Millstone (SVP & CNO)

The SVP & CNO has been delegated by the President and CEO-NNECO the necessary responsibility and authority for the management and direction of all activities related to the operation of MNPS. The SVP & CNO has overall responsibility for engineering, construction, operation, maintenance, modification and quality assurance including this NUQAP, at MNPS. The following licensing basis positions report directly to the SVP & CNO:

- Vice President (VP)-Nuclear Operations
- VP-Nuclear Technical Services

- VP-Nuclear Work Services
- VP-Human Services - Nuclear
- Director -Nuclear Oversight and Regulatory Affairs (NORA)

1.3.2 VP-Nuclear Operations

VP-Nuclear Operations is responsible for establishing common policies and standards pertaining to the operating units, the safe operation and maintenance of the units, and implementation of this NUQAP. The VP-Nuclear Operations is responsible for maintaining compliance with requirements of the Operating License and Technical Specifications as well as applicable federal, state and local laws, regulations and codes. The following report directly to the VP-Nuclear Operations:

- Station Director
- Maintenance

1.3.3 VP-Nuclear Technical Services

VP-Nuclear Technical Services is responsible for providing engineering services and implementation of this NUQAP. The following report directly to the VP-Nuclear Technical Services:

- Design Engineering
- Nuclear Engineering
- Plant Engineering

1.3.4 VP-Nuclear Work Services

VP-Nuclear Work Services is responsible for site services in support of the station, and implementation of this NUQAP. The following report directly to the VP-Nuclear Work Services:

- Site Services
- Nuclear Materials and Document Management
- Unit 1 General Manager

1.3.5 VP-Human Services - Nuclear

The VP-Human Services - Nuclear is responsible for human services, emergency planning, nuclear training, and the Employee Concerns Program, and implementation of this NUQAP. The following licensing basis positions report directly to the VP-Human Services - Nuclear:

- Nuclear Training Services
- Emergency Planning

1.3.6 Director-Nuclear Oversight and Regulatory Affairs (NORA)

Director-NORA is responsible for the effective performance of Nuclear Oversight and Regulatory Affairs functions. The Director-NORA acts as advisor to the SVP & CNO and President and CEO-NNECO on items related to nuclear quality and safety at the station. Overall responsibility for the NUQAP has been delegated to the Director-NORA by the SVP & CNO. These responsibilities include:

- Direction of the quality assurance program
- Development and implementation of policies, plans, requirements, procedures, and audits
- Verification to assure compliance with 10CFR50 Appendix B and other regulatory requirements
- Verification of the implementation of the NUQAP Topical Report requirements

The following report directly to the Director-NORA:

- Director-Nuclear Oversight

1.3.7 Director-Nuclear Oversight

The Director-NORA has delegated to the Director-Nuclear Oversight the necessary authority and responsibility for the following:

- Preparation and issuance of the NUQAP Topical Report
- Verification of the implementation of NUQAP requirements and of compliance with 10CFR50 Appendix B and other regulatory requirements
- Identification of quality problems
- Recommendations or solutions to quality problems and verification of the implementation of the solutions
- Independent Safety Engineering and Operating Experience programs

Verification is performed through a planned program of audits, surveillances and inspections by Nuclear Oversight. The Director-Nuclear Oversight provides objective evidence to management of the performance of quality activities independent of the individual or group directly responsible for performing the specific activity.

The Director-Nuclear Oversight has the authority and organizational freedom to verify activities affecting quality. This is performed independent of undue influences and responsibilities for schedules and costs.

In order to implement these responsibilities, the Director-Nuclear Oversight is provided "Stop Work" authority whereby he/she can suspend unsatisfactory work and control further processing or installation of non-

conforming materials. The authority to stop work is assigned to Nuclear Oversight personnel and delineated in an approved procedure.

1.3.8 Station Director

The Station Director is responsible for operations, nuclear safety, chemistry, and radiation protection activities. The Station Director is responsible for the safe and efficient operation of the units. During accident situations, if currently holding an active SRO license on the unit, the Station Director may relieve the Shift Manager of the responsibility of directing the licensed Control Room operators. The following report to the Station Director:

- Assistant Station Director-Safety
- Unit Operations
- Radiation Protection and Waste Services

1.3.9 Maintenance

The Maintenance group is responsible for on-line maintenance, cost and scheduling, outage activities, installation, maintenance, alterations, adjustment and calibration, replacement and repair of plant electrical and mechanical equipment, and instruments and controls. Responsibilities include scheduling of surveillances required by Technical Specifications, establishing standards and frequency of calibration for instrumentation and ensuring instrumentation and related testing equipment are properly used, inspected and maintained.

1.3.10 Design Engineering

The Design Engineering group is responsible for design engineering functions, supporting activities, and engineering programs. The Unit 1 organization will share responsibility for certain systems shared between Unit 1 and Units 2 or 3.

1.3.11 Nuclear Engineering

The Nuclear Engineering group is responsible for engineering activities in configuration management, safety analysis, and nuclear fuel. These activities include probabilistic risk assessment, radiological and radwaste engineering, design and configuration control and engineering assurance.

1.3.12 Plant Engineering

The Plant Engineering group is responsible for engineering technical support and systems engineering, including reactor and material engineering.

1.3.13 Site Services

The Site Services group is responsible for services in support of the station, including security and fire protection.

1.3.14 Nuclear Materials and Document Management

The Nuclear Materials and Document Management group is responsible for nuclear records management and procurement. Responsibilities include approval and oversight of vendors that provide quality-related material and services including source and receipt inspection.

1.3.15 Nuclear Training Services

The Nuclear Training Services group is responsible for operator and technical training. The operator training group reports directly to the Director-Nuclear Training Services to provide sufficient organizational freedom and independence from operating pressures as required by the unit Technical Specifications.

1.3.16 Emergency Planning

The Emergency Planning group is responsible for development and maintenance of the on-site radiological emergency plan and the development and coordination of required off-site radiological emergency response plans.

1.3.17 Assistant Station Director-Safety

The Assistant Station Director-Safety is responsible for the corrective actions program, procedures, and the shift technical advisors.

1.3.18 Unit Operations

The Unit Operations groups report to the Station Director. Each group includes the following key supervisory positions:

- Manager-Operations
- Assistant Manager-Operations
- Shift Manager(s)
- Unit Supervisor(s)

1.3.18.1 <u>Manager-Operations and Assistant Manager-Operations</u>

The Manager-Operations provides general supervision for the operation of the respective unit, and coordinates unit operations with maintenance, work management, and other groups. As

stipulated in Technical Specifications or in Appendix B, the Manager-Operations or the Assistant Manager - Operations holds an appropriate license on the Unit (SRO on Units 2 and 3). The Manager-Operations assures the safe and efficient operation of the assigned unit in accordance with applicable licenses, operating instructions and procedures, emergency procedures and safety rules and regulations. During accident situations, if currently holding an active SRO license on the unit, the Manager-Operations may relieve the Shift Manager of the responsibility of directing the licensed Control Room operators. The Manager-Operations delegates the necessary authority and responsibility for various duties to the Assistant Manager-Operations.

1.3.18.2 Shift Manager

The Shift Managers report to the Assistant Manager-Operations and are responsible for the Control Room command function. The Shift Manager holds an appropriate license on the unit (SRO on Units 2 and 3). The Shift Manager directs and supervises the operation of the unit. Administrative functions that detract from or are subordinate to the management responsibility for assuring the safe operation of the plant are delegated to other operational personnel not on duty in the Control Room.

During accident situations, unless properly relieved, the Shift Manager remains in the Control Room and directs the activities of the licensed operators. The Shift Manager has direct authority to shut down the respective unit if, in the Shift Manager's opinion, serious abnormal conditions exist. A Unit 3 Shift Manager fulfills the facility staff requirements of the Shift Supervisor for the Unit 3 Technical Specifications.

1.3.18.3 Unit Supervisor

The Unit Supervisor holds an appropriate license on the unit (SRO on Units 2 and 3) and supervises the operators in the Control Room. The Unit Supervisor directs activities of the licensed Control Room operators, and may operate the controls of equipment and piping systems from the Control Room or alternate station control location.

1.3.18.4 Control Operators

Control Operators hold a Reactor Operator or Senior Reactor Operator license on the unit. The Control Operators are responsible to perform the following duties:

- Start up, operate, and shut down nuclear plant equipment including, but not limited to, reactor, reactor auxiliaries, turbine generator unit and its auxiliaries as necessary to satisfy system requirements or station conditions
- Test, as scheduled, control room instruments and controls
- Maintain required logs and calculations, observe these logs for indications of faulty operation, and notify the on-duty Unit Supervisor or the Shift Manager of abnormal plant conditions

1.3.18.5 Plant Equipment Operators

Plant Equipment Operators are responsible to perform the following duties:

- Start up, operate, inspect, adjust, and shut down all auxiliary and other various plant equipment
- Perform or assist with scheduled operational tests
- Make minor repairs

1.3.19 Radiation Protection and Waste Services

Radiation Protection and Waste Services group carries out health physics functions and reports to the Station Director to provide sufficient organizational freedom and independence from operating pressures as required by the unit Technical Specifications. The Manager-Radiation Protection and Waste Services fulfills the "Health Physics Manager" position qualifications required by the unit Technical Specifications. Radiation protection services include the following:

- scheduling and conducting radiation surveys including contamination sample collection
- determining contamination levels and assigning work restrictions through radiation work permits
- maintaining records and reports on radioactive contamination levels
- administering the personnel monitoring program and maintaining required records in accordance with federal and state codes

Radiation Protection and Waste Services is also responsible for radioactive waste services.

1.4 QUALITY-RELATED RESPONSIBILITIES COMMON TO ALL DEPARTMENT HEADS

The head of each department performing quality activities is responsible for:

- Administering those activities within their organization which are required by this NUQAP;
- Ensuring implementation of the Quality Assurance Program;
- Establishing and clearly defining the duties and responsibilities of personnel within their organization who perform quality activities;
- Planning, selecting, and training personnel to meet the requirements of the NUQAP Topical Report; and
- Performing and coordinating quality activities within their department and interfacing with the Nuclear Oversight department.

Each individual performing or verifying activities affecting quality is responsible to conduct those activities in accordance with the requirements of this NUQAP and implementing procedures. These individuals shall have direct access to such levels of management as may be necessary to perform this function.

The responsibility, authority, and organizational relationship for performing quality activities within each organization is established and delineated in the NUSCO/NNECO organizational charts, policy statements, and written job or functional descriptions.

Vendors may be delegated the execution of quality assurance functions; however, NU shall retain responsibility for this Quality Assurance Program.

1.5 ANNUAL MANAGEMENT QUALITY ASSURANCE REVIEW

The SVP & CNO is responsible for the assessment of the scope, status, implementation, and effectiveness of the NUQAP. To meet this responsibility, a team of qualified individuals is appointed to perform an annual Management Quality Assurance Review. The team is made up of individuals knowledgeable in quality assurance, quality activities, auditing, management responsibilities, and the NUQAP Topical Report. This review is:

- A systematic evaluation;
- pre-planned toward the objective of determining the adequacy of the NUQAP and its compliance with Appendix B to 10 CFR 50 and other regulatory requirements; and
- capable of identifying, communicating, and tracking any required corrective action.

The SVP & CNO has delegated the responsibility for the Management Quality Assurance Review to the Director-NORA.

1.6 SPECIFIC NUQAP RESPONSIBILITIES

The SVP & CNO resolves all disputes related to the implementation of the NUQAP for which resolution is not achieved at lower levels within the organization.

1.7 SUCCESSION OF RESPONSIBILITY FOR OVERALL PLANT OPERATION

The succession to responsibility for overall plant instructions or special orders, in the event of absences, incapacitation of personnel or other emergencies, is as follows:

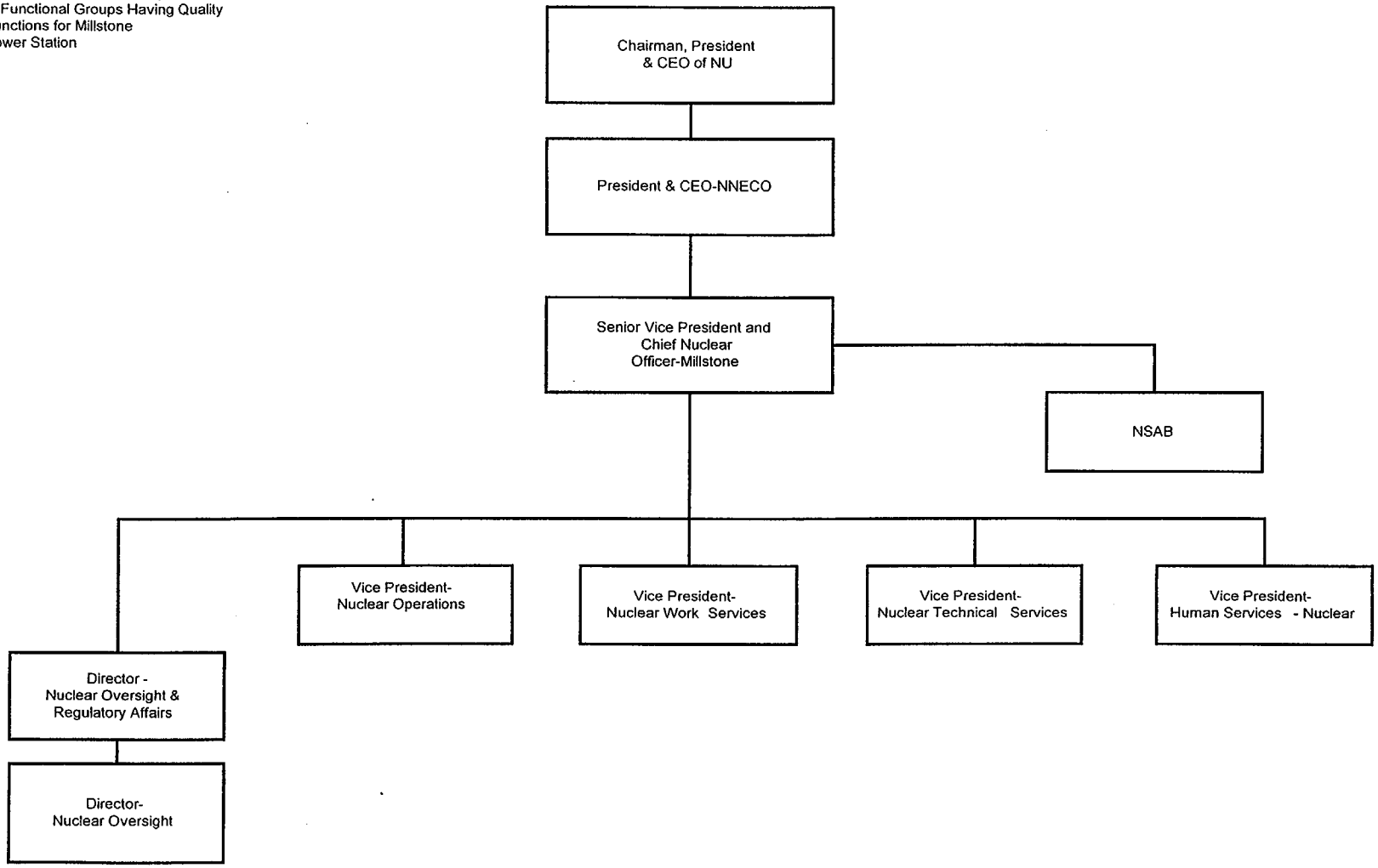
- Vice President-Nuclear Operations
- Station Director
- Licensed Manager-Nuclear Operations or Licensed Assistant Manager-Operations designated by Vice President-Nuclear Operations
- Shift Manager (SRO)
- Licensed Unit Supervisor (SRO)

1.8 ORGANIZATION CHARTS

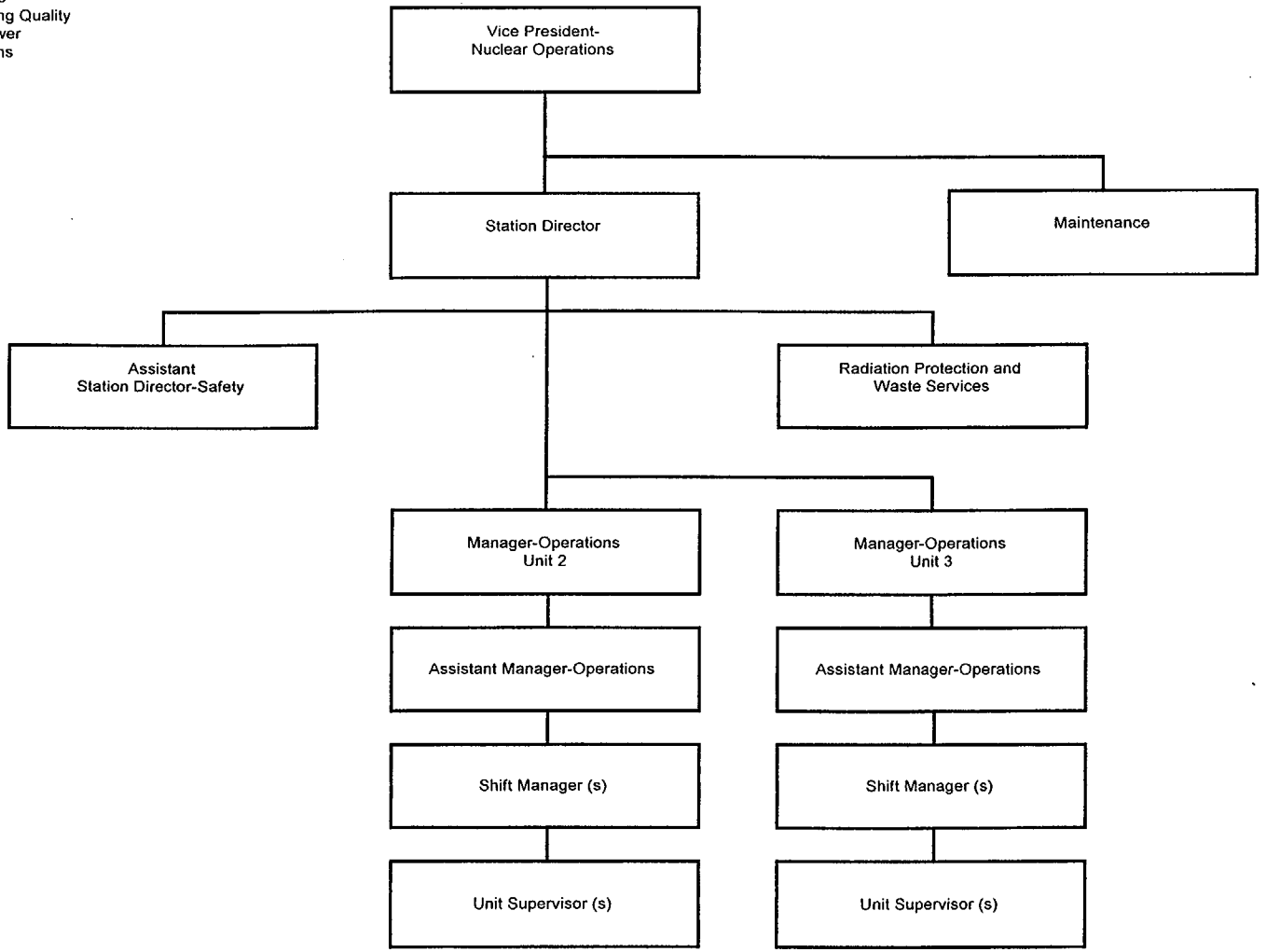
NOTE

The following organization charts are incorporated by reference in the Millstone Station Emergency Plan. Changes to these organization charts require an effectiveness review in accordance with 10 CFR 50.54 (q).

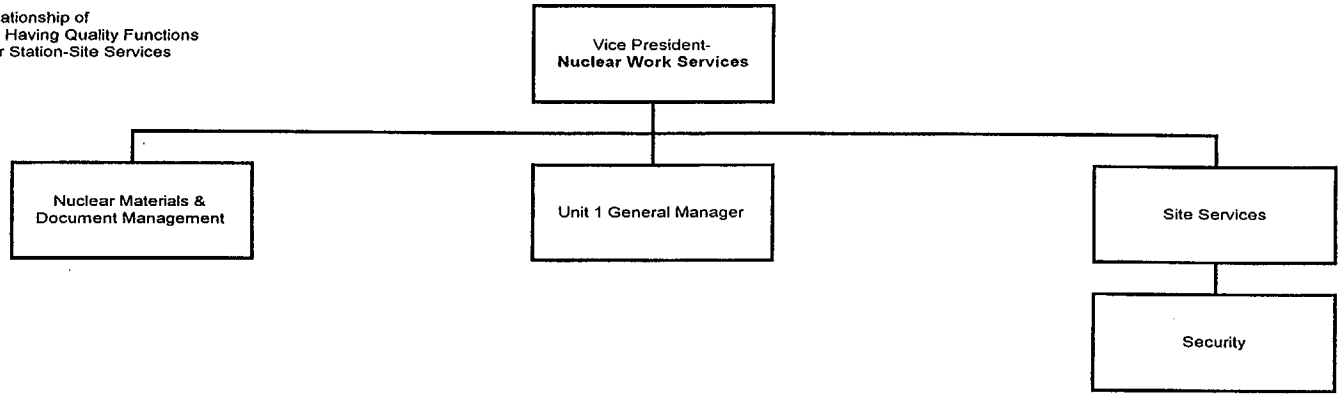
Organizational Relationship
of Functional Groups Having Quality
Functions for Millstone
Power Station



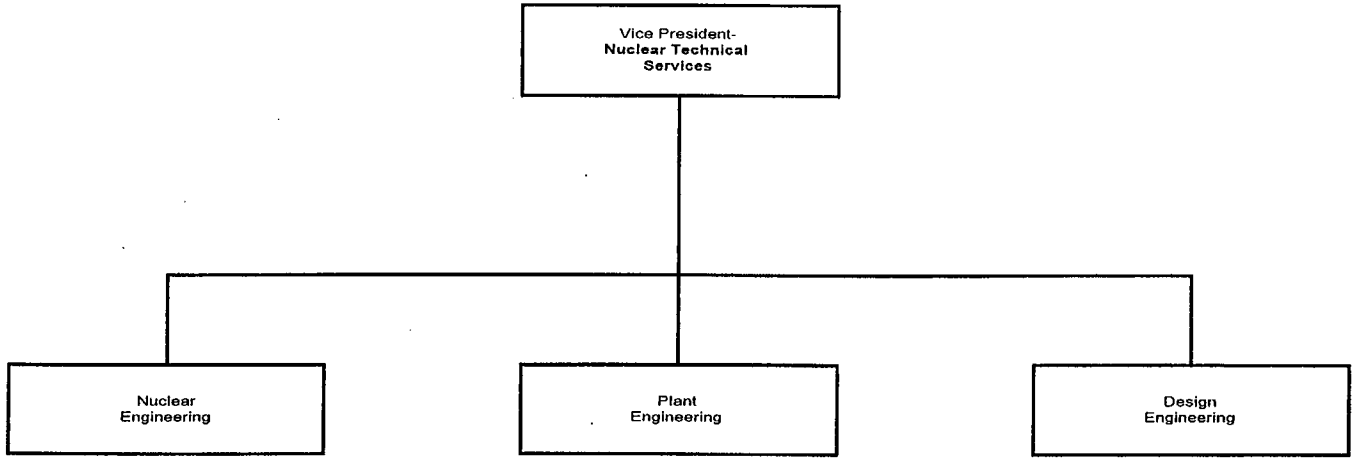
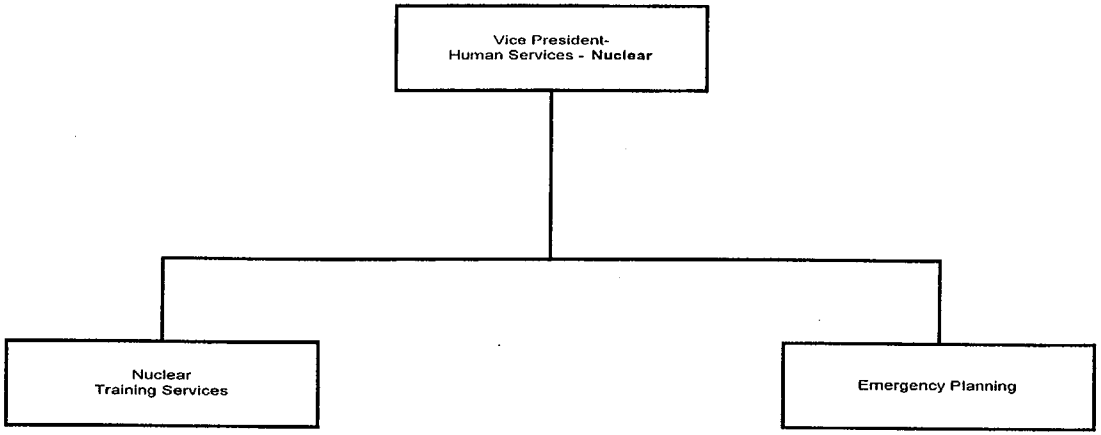
Organizational Relationship
of Functional Groups Having Quality
Functions for Millstone Power
Station - Nuclear Operations



Organizational Relationship of
Functional Groups Having Quality Functions
for Millstone Power Station-Site Services



Organizational Relationship of Functional Groups Having Quality Functions for Millstone Power Station - Engineering Services



Organizational Relationship of Functional Groups
Having Quality Functions for Millstone Power Station -
Human Services