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Item	Facility	Type	Sub	Document Number / Title	Sheet	Revision	Doc Date	Copy #	Media	Copies
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Memorandum

NO-01-272
November 2, 2001

TO: Quality Assurance Program Topical Report - Controlled Copy Owners

FROM: *Dorothy Bruce*
Dorothy Bruce, QAP Coordinator
Oversight - Operate the Asset, Ext. 3185

SUBJECT: Quality Assurance Program (QAP) Topical Report - Millstone Power Station
Revision 23, Change 2 (Document No. MP-02-OST-BAP01)

Enclosed please find Quality Assurance Program (QAP) Topical Report - Millstone Power Station, Revision 23, Change 2. This change transfers the responsibility for the Millstone Unit 1 activities regarding the Spent Fuel Pool Island and auxiliary systems from Millstone Unit 1 Operations to Millstone Unit 2 Operations. Unit 1 is in a decommissioned mode, with only the Spent Fuel Pool and related systems operational.

Please note that the effective date of Revision 23, Change 2, is **November 5, 2001**. Please replace the entire contents of QAP 1.0 and Appendix G with the enclosed sections. If you have any questions, contact D. Bruce at X3185.

Attachments: Summary of Changes for Rev. 23, Change 2

Enclosure:
Quality Assurance Program Topical Report - Millstone Power Station, Revision 23, Change 2

DSB/dsb

Summary of Changes to QAP Rev. 23 Incorporated as Change 02

<u>Section</u>	<u>Summary Description of Changes</u>	<u>Reference</u>
Section 1.0	Modified Sections 1.3.6, 1.3.7 and Figure 1.1 to transfer the responsibility for Unit 1 activities regarding the Spent Fuel Pool Island and auxiliary systems to Unit 2 Operations.	Request 01-11
Appendix G	Assigns Unit 1 Technical Specifications regarding Shift Manager to Unit 2 Shift Manager	Request 01-11

1.0 ORGANIZATION

1.1 INTRODUCTION

This section describes the organizations involved in the operation and technical support of Millstone Power Station (MPS). In addition, this section describes the responsibilities governed by the Quality Assurance Program (QAP) Topical Report. Qualifications for key personnel are found in the unit Technical Specifications and Appendix B of this QAP, "Qualification and Experience Requirements."

NOTE

In the remainder of QAP 1.0, the text describes functions that support Millstone Power Station, unless otherwise specified. Units 2 and 3 are operational. Unit 1 is defueled and in a decommissioning mode. Applicable regulations and standards are addressed throughout the QAP as appropriate.

1.2 ORGANIZATION

The Chief Executive Officer - Dominion Nuclear Connecticut, Inc. has ultimate responsibility and overall authority for the Dominion Nuclear Connecticut, Inc. nuclear program, and has delegated the necessary responsibility and authority for all nuclear operations to the President and Chief Operating Officer - Dominion Nuclear Connecticut, Inc. who has delegated the necessary responsibility and authority to the Senior Vice President - Nuclear Operations and Chief Nuclear Officer (SVP/CNO) - Dominion Nuclear Connecticut, Inc.

1.3 KEY MANAGEMENT RESPONSIBILITIES AND AUTHORITY

1.3.1 Vice President and Senior Nuclear Executive - Millstone

The Vice President and Senior Nuclear Executive - Millstone has been delegated by the SVP/CNO - Dominion Nuclear Connecticut, Inc. the necessary responsibility and authority for the management and direction of all activities related to the operation of Millstone Power Station. The Vice President and Senior Nuclear Executive - Millstone has overall responsibility for engineering, construction, operation, maintenance, modification and quality assurance including this QAP at Millstone Power Station. The following licensing basis positions report directly to the Vice President and Senior Nuclear Executive - Millstone:

- Vice President (VP) - Nuclear Operations/Millstone
- Vice President (VP) - Nuclear Technical Services/Millstone
- Process Owner - Oversight

1.3.2 Vice President (VP) - Nuclear Operations/Millstone

VP - Nuclear Operations/Millstone is responsible for establishing common policies and standards pertaining to the operating units, the safe operation and maintenance of the units, including the decommissioning and related activities for Unit 1, for services in support of the station, and implementation of this QAP. The VP - Nuclear Operations/Millstone 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 master processes report directly to the VP - Nuclear Operations/Millstone:

- Operate the Asset
- Maintain the Asset
- Support Services
- Training
- Unit 1 Decommissioning Activities

1.3.3 Vice President (VP) - Nuclear Technical Services/Millstone

VP - Nuclear Technical Services/Millstone is responsible for providing engineering services and implementation of this QAP. The following master processes report directly to the VP - Nuclear Technical Services/Millstone:

- Manage the Asset
- Assessment

Nuclear Fuels and Safety Analysis reports to the Director, Dominion Nuclear Analysis and Fuel. The Master Process Owner, Manage the Asset is responsible to the VP - Nuclear Technical Services/Millstone.

Procure the Asset reports to the Director, Dominion Supply Chain Management (Generation). The Master Process Owner, Procure the Asset is responsible to the VP - Nuclear Technical Services/Millstone.

Information Technology reports to the Director, Dominion Information Technology Business Account (Generation). The Master Process Owner, Manage the Asset is responsible to the VP - Nuclear Technical Services/Millstone.

1.3.4 Process Owner - Oversight

Process Owner - Oversight is responsible for the effective performance of Oversight. The Process Owner - Oversight acts as advisor to the Vice President and Senior Nuclear Executive - Millstone and the SVP/CNO - Dominion Nuclear Connecticut, Inc. on items related to nuclear quality and safety at the station. Overall responsibility for the QAP has been delegated to the Process Owner - Oversight by the SVP/CNO - Dominion Nuclear Connecticut, Inc. The Process Owner - Oversight has the necessary authority and responsibility for the following:

- 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 QAP Topical Report requirements
- Preparation and issuance of the QAP Topical Report
- Identification of quality problems
- Recommendations for solutions to quality problems and verification of the implementation of the solutions

Verification is performed through a planned program of audits, surveillances and inspections by Oversight. The Process Owner - 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 Process Owner - 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 Process Owner - 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 Oversight personnel and delineated in an approved procedure.

1.3.5 Maintain the Asset

Maintain the Asset 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.

1.3.6 Operate the Asset

Operate the Asset is responsible for operations, nuclear safety, radiation protection and radwaste services, industrial safety, chemistry activities and shift technical advisors. The Master Process Owner - Operate the Asset is responsible for the safe and efficient operation of the units including Unit 1, which is in a decommissioned mode. During accident situations, if currently holding an active license on the unit (**Senior Reactor Operator (SRO) for Unit 2 or 3, or Certified Fuel Handler (CFH) for Unit 1**), the Master Process Owner - Operate the Asset may relieve the Shift Manager

of the responsibility of directing the licensed Control Room operators. The following processes report to the Master Process Owner - Operate the Asset:

- Unit Operations
- Chemistry
- Operations Support
- Radiation Protection and Radwaste Services

1.3.6.1 Deputy Master Process Owner - Operate the Asset

Deputy Master Process Owner - Operate the Asset is responsible for Radiation Protection and Radwaste Services, Industrial Safety and Chemistry. The Deputy Master Process Owner is responsible for the safe and efficient implementation of the radiation protection program, the radioactive material handling and shipping program, the chemistry program, and the industrial safety program.

1.3.7 Unit Operations

The Unit Operations groups report to the Master Process Owner - Operate the Asset. Each group includes the following key supervisory positions:

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

Unit 2 Operations is responsible for operations regarding the Unit 1 Spent Fuel Pool Island and auxiliary systems. A Certified Fuel Handler augments the Unit 2 Operations staff to meet Unit operations responsibilities. The transfer of Unit 1 Operations' responsibility to Unit 2 Operations will not impact the capability of Unit 2 Operators to perform their duties, including day-to-day functions and accident and transient mitigation.

1.3.7.1 Process Owner - Operations and Assistant Manager-Operations

The Process Owner - 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 Process Owner - Operations or the Assistant Manager - Operations holds an appropriate license on the Unit (SRO on ***assigned Unit for Unit 3 and SRO and CFH for Unit 2***). ***Unit 2 Operations is responsible for operations regarding the Unit 1 Spent Fuel Pool Island and auxiliary systems.*** The Process Owner - 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 license on the unit **(SRO for Unit 3 and Unit 2, CFH for Unit 2 responsibilities for Unit 1 Spent Fuel Pool and related systems)**, the Process Owner - Operations may relieve the Shift Manager of the responsibility of directing the licensed Control Room operators. The Process Owner - Operations delegates the necessary authority and responsibility for various duties to the Assistant Manager-Operations.

1.3.7.2 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 for Unit 3 and SRO and CFH for Unit 2)**. 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. **Unit 2 Control Room provides control and supervision of Unit 1 activities.**

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.

1.3.7.3 Unit Supervisor

The Unit Supervisor holds an appropriate license on the unit (SRO) 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. **Unit 2 Control Room provides control and supervision of activities on Unit 1.**

1.3.7.4 Control Operators

Control Operators for Millstone Units 2 and 3 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, as applicable to the Unit's

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status, reactor, reactor auxiliaries, turbine generator unit and its auxiliaries as necessary to satisfy system requirements or station conditions. (*Unit 1 is decommissioned.*)

- Test, as scheduled, control room instruments and controls. *Unit 1 is decommissioned.*
- 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

1.3.7.5 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

1.3.8 Radiation Protection and Radwaste Services

Radiation Protection and Radwaste Services carries out health physics functions and reports to the Deputy MPO, Operate the Asset to provide sufficient organizational freedom and independence from operating pressures as required by the unit Technical Specifications. The Process Owner - Radiation Protection and Radwaste Services fulfills the "Health Physics Manager" position qualifications required by the unit Technical Specifications. Radiation Protection and Radwaste Services includes the following:

- scheduling and conducting radiological 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
- radiological waste services

1.3.9 Support Services

Support Services is responsible for services in support of the station, including security, project support, fire protection, nuclear records management and procedures.

1.3.10 Training

Training is responsible for operator and technical training. The operator training group reports directly to the Master Process Owner - Training to

provide sufficient organizational freedom and independence from operating pressures as required by the unit Technical Specifications.

1.3.11 Manage the Asset

Manage the Asset is responsible for design engineering functions, supporting activities, engineering programs, configuration management including design and configuration control and engineering assurance, engineering technical support and systems engineering, including material engineering. The group is responsible for engineering activities in safety analysis and nuclear fuel, including probabilistic risk assessment, reactor, and radiological engineering.

The Deputy Master Process Owner - Manage the Asset meets all qualification requirements of the Master Process Owner - Manage the Asset to ensure responsibilities can be met during the Master Process Owner's absence.

Nuclear Fuels and Safety Analysis reports to the Director, Dominion Nuclear Analysis and Fuel. The Master Process Owner, Manage the Asset is responsible to the VP - Nuclear Technical Services/Millstone.

1.3.12 Procure the Asset

Procure the Asset is responsible for procurement. Responsibilities include approval and oversight of vendors that provide quality-related material and services including source and receipt inspection. Procure the Asset reports to the Director, Dominion Supply Chain Management (Generation).

1.3.13 Assessment

Assessment includes Emergency Planning and Performance Improvement.

1.3.13.1 Emergency Planning 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.

1.3.13.2 Performance Improvement is responsible for the Corrective Actions Program and Independent Safety Engineering Group and Operating Experience Program.

1.3.14 Information Technology

Information Technology is responsible for the Quality Assurance Software Program. Information Technology reports to the Director, Dominion Information Technology Business Account (Generation). The Master Process Owner, Manage the Asset is responsible to the VP – Nuclear Technical Services/Millstone.

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 QAP;
- 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 QAP Topical Report; and
- Performing and coordinating quality activities within their department and interfacing with the Oversight department.

Each individual performing or verifying activities affecting quality is responsible to conduct those activities in accordance with the requirements of this QAP 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 Dominion Nuclear Connecticut, Inc. organizational charts, policy statements, and written job or functional descriptions.

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

Master Process Owners and Process Owners carry out responsibilities assigned to Managers and Directors referenced in the unit Technical Specifications.

1.5 ANNUAL MANAGEMENT QUALITY ASSURANCE REVIEW

The Vice President and Senior Nuclear Executive - Millstone is responsible for the assessment of the scope, status, implementation, and effectiveness of the QAP. 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 QAP Topical Report. This review is:

- A systematic evaluation;
- pre-planned toward the objective of determining the adequacy of the QAP 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 Vice President and Senior Nuclear Executive - Millstone has delegated the responsibility for the Management Quality Assurance Review to the Process Owner - Oversight.

1.6 SPECIFIC QAP RESPONSIBILITIES

The Vice President and Senior Nuclear Executive - Millstone resolves all disputes related to the implementation of the QAP for which resolution is not achieved at lower levels within the organization.

1.7 SUCCESSION OF RESPONSIBILITY FOR OVERALL PLANT OPERATION

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

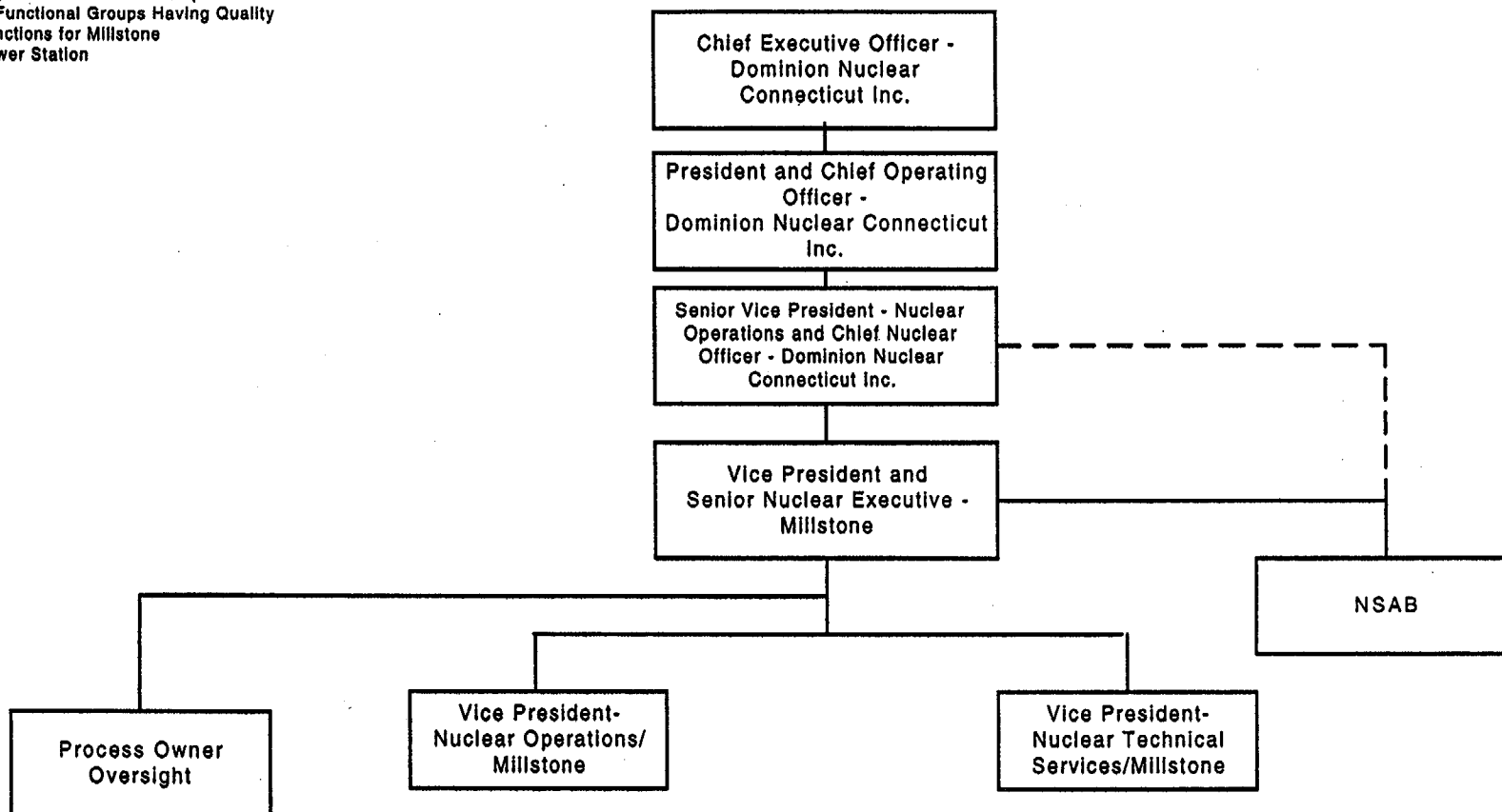
- Vice President - Nuclear Operations/Millstone
- Master Process Owner - Operate the Asset
- Licensed Process Owner - Operations or Licensed Assistant Manager - Operations designated by Vice President - Nuclear Operations/Millstone
- Shift Manager (SRO)
- Licensed Unit Supervisor (SRO)

1.8 ORGANIZATION CHARTS

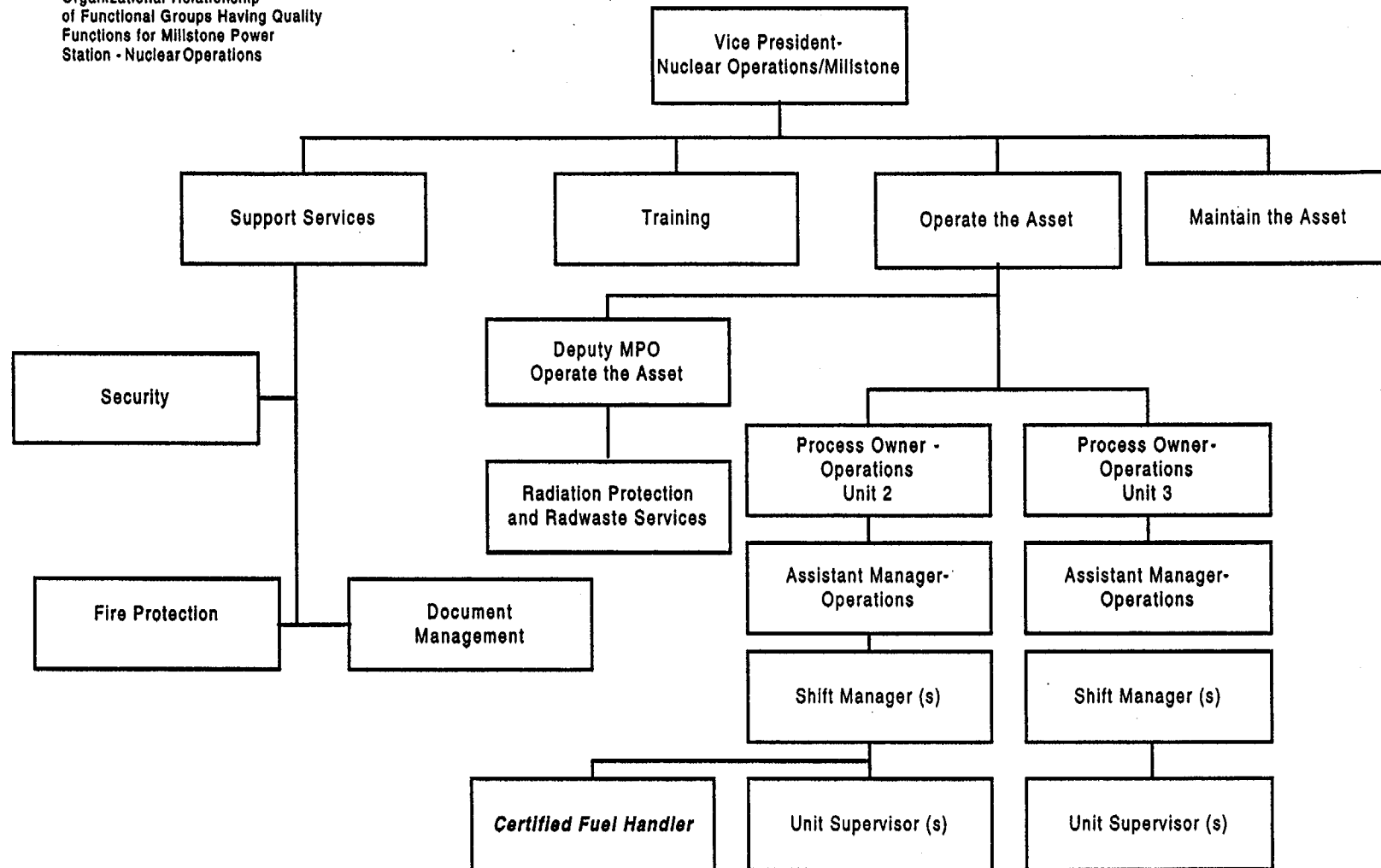
NOTE

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

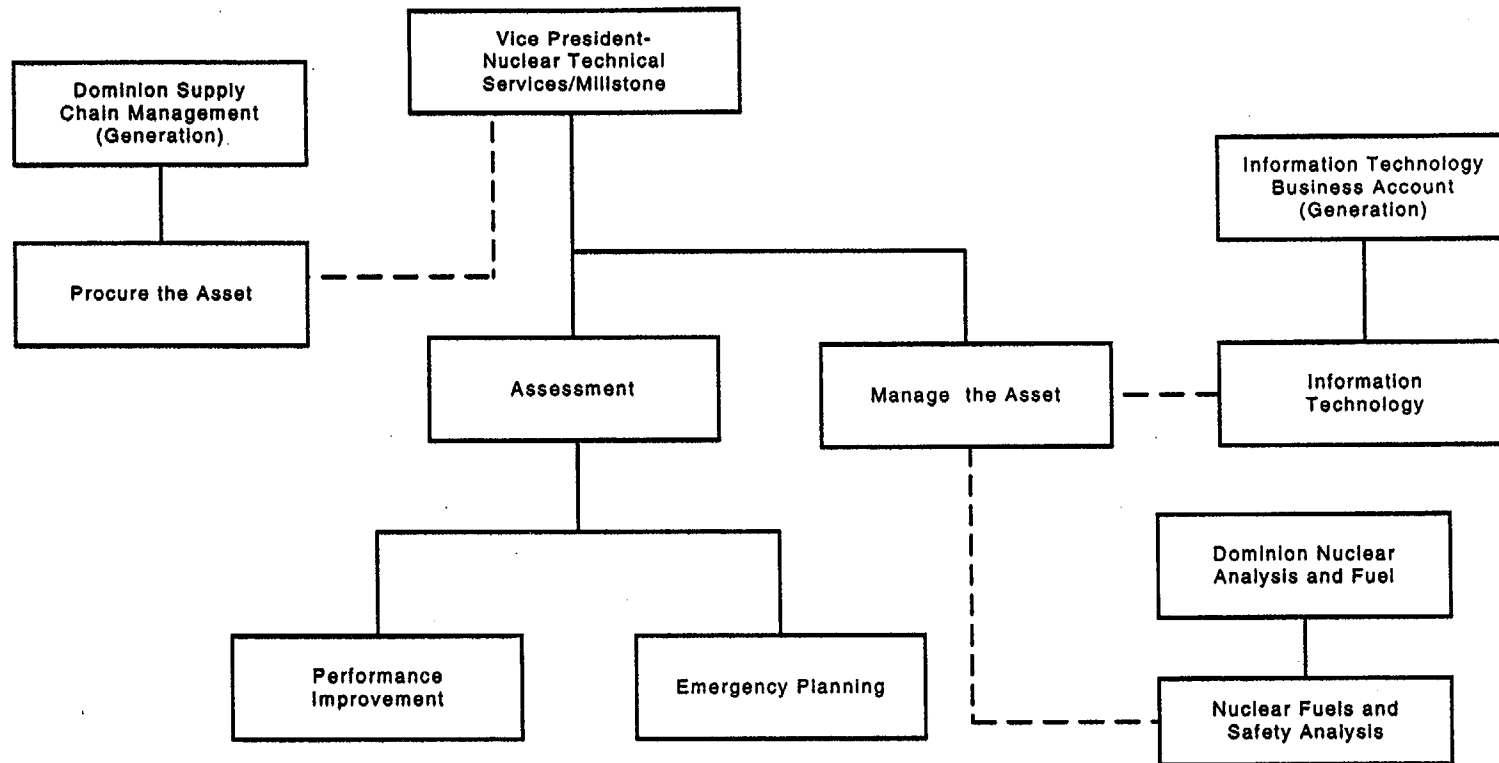
**Organizational Relationship
of Functional Groups Having Quality
Functions for Millstone
Power Station**



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 -
Nuclear Technical Services**



APPENDIX G
TECHNICAL SPECIFICATION POSITION CROSS REFERENCE

MILLSTONE UNIT 1

T.S. SECTION	T.S. POSITION	STATION ORGANIZATION POSITION
Responsibility		
5.1.1	Designated Officer Designated Manager	Vice President and Senior Nuclear Executive - Millstone Master Process Owner- Operate the Asset
5.1.2	Shift Manager	Unit 2 Shift Manager
5.1.3, 5.2.1.b	Quality Assurance Topical Report	Quality Assurance Program
Organization		
5.2.1b Offsite and onsite organizations	Designated Manager	Master Process Owner- Operate the Asset
5.2.1c Offsite and onsite organizations	Designated Officer	Vice President and Senior Nuclear Executive - Millstone
5.2.2	Shift Manager	Unit 2 Shift Manager
Shift Organizations		
5.3.1	Operations Manager or Assistant Operations Manager	Unit 2 Process Owner - Operate the Asset or Unit 2 Assistant Operations Manager
5.3.1.2	Health Physics Manager	Process Owner - Radiation Protection and Radwaste Services
Protections		
5.5.2	Designated Manager Designated Officer Designated Senior Officer	Master Process Owner- Operate the Asset Vice President - Nuclear Operations/ Millstone or Vice President and Senior Nuclear Executive - Millstone
5.5.3	Designated Manager Designated Officer	Master Process Owner- Operate the Asset Vice President - Nuclear Operations/ Millstone or Vice President and Senior Nuclear Executive - Millstone
5.5.4	Designated Manager Designated Officer	Master Process Owner- Operate the Asset Vice President - Nuclear Operations/ Millstone or Vice President and Senior Nuclear Executive - Millstone
5.5.5c	Designated Manager Designated Officer	Master Process Owner- Operate the Asset Vice President - Nuclear Operations/ Millstone or Vice President and Senior Nuclear Executive - Millstone
5.5.6; 5.5.7	Individual from the Radiological Branch or Production Laboratory (POSL)	Individual from Nuclear Fuels and Safety Analysis or designee

T.S. SECTION	T.S. POSITION	STATION ORGANIZATION POSITION
5.5.5c	Designated Manager Designated Officer	Master Process Owner- Operate the Asset Vice President - Nuclear Operations/ Millstone or Vice President and Senior Nuclear Executive - Millstone
Radiological Effluent Monitoring and Offsite Dose Calculation Manual (REMOCM)		
5.6.1	Designated Officer	Vice President and Senior Nuclear Executive - Millstone

Notes:

Generic position titles are as approved by Amendment No. 105 to the Unit 1 Technical Specifications.

MILLSTONE UNIT 2

T.S. SECTION	T.S. POSITION	STATION ORGANIZATION POSITION
Responsibility		
6.1.1	Designated Officer Designated Manager	Vice President and Senior Nuclear Executive - Millstone Master Process Owner- Operate the Asset
Organization		
6.2.1b Offsite and onsite organizations	Designated Manager	Master Process Owner- Operate the Asset
6.2.1c Offsite and onsite organizations	Designated Officer	Vice President and Senior Nuclear Executive - Millstone
Highly Significant Operations		
6.3.1a	Operations Manager	Process Owner - Operations
6.3.1c	Health Physics Manager	Process Owner - Radiological Protection
Procedures		
6.8.2a	Designated Manager Designated Officer Designated Senior Officer	Master Process Owner- Operate the Asset Vice President – Nuclear Operations/Millstone or Vice President and Senior Nuclear Executive - Millstone
6.8.2b	Designated Manager Designated Officer	Master Process Owner- Operate the Asset Vice President - Nuclear Operations/Millstone or Vice President and Senior Nuclear Executive - Millstone
6.8.5	Individual from the Radiological Branch or Production Laboratory (POSL)	Individual from Nuclear Fuels and Safety Analysis or designee
High Radiation Area		
6.12.1c	Health Physics Manager	Process Owner - Radiation Protection and Radwaste Services
Radiological Effluent Monitoring and Offsite Dose Calculation Manual (REMOCM)		
6.15b	Designated Officer	Vice President and Senior Nuclear Executive - Millstone

Notes:

Generic position titles are as approved by Amendment No. 235 to the Unit 2 Technical Specifications

MILLSTONE UNIT 3

T.S. SECTION	T.S. POSITION	STATION ORGANIZATION POSITION
Responsibility		
6.1.1	Designated Officer Designated Manager	Vice President and Senior Nuclear Executive - Millstone Master Process Owner- Operate the Asset
Organization		
6.2.1b Offsite and onsite organizations	Designated Manager	Master Process Owner- Operate the Asset
6.2.1c Offsite and onsite organizations	Designated Officer	Vice President and Senior Nuclear Executive - Millstone
Facility Staff		
6.2.2	SS - Shift Supervisor	Shift Manager
Procedures		
6.8.2a	Designated Manager Designated Officer Designated Senior Officer	Master Process Owner- Operate the Asset Vice President - Nuclear Operations/Millstone Vice President and Senior Nuclear Executive - Millstone
6.8.2b	Designated Manager Designated Officer	Master Process Owner- Operate the Asset Vice President - Nuclear Operations/Millstone or Vice President and Senior Nuclear Executive - Millstone
6.8.5	Individual from the Radiological Branch or Production Laboratory	Individual from Nuclear Fuels and Safety Analysis or designee
High Radiation Area		
6.12.1c	Health Physics Manager	Process Owner - Radiation Protection and Radwaste Services

Notes:

Generic position titles are as approved by Amendment No. 171 to the Unit 3 Technical