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

NO-04-0008
May 24, 2004

TO: Quality Assurance Program Topical Report - Controlled Copy Owners

FROM: 
Dorothy Bruce, QAP Coordinator
Nuclear Oversight, Ext. 3185

SUBJECT: Quality Assurance Program (QAP) Topical Report - Millstone Power Station
Revision 25, Change 3 (Document No. MP-02-OST-BAP01)

Enclosed please find Quality Assurance Program (QAP) Topical Report - Millstone Power Station, Revision 25, Change 3. The changes to the program address several editorial/clarification QAP changes. The change allows either the RP/Chemistry Manager or the Health Physics Supervisor to fill the requirement of the Radiation Protection Manager (RPM) as described in the Technical Specifications. The change also clarifies the reporting relationship of Supply Chain Management (Site Manager), and clarifies the quality assurance program's applicability to station blackout program and related implementing procedure. (This allows for the cancellation of the Station Blackout (SBO) Program Manual.) The Quality Assurance Program will still apply to the SBO program, which is addressed in implementing procedures and specifications. The change modifies the QAP Abstract and Policy Statement, QAP Sections 1.0 and 2.0, and QAP Appendix G to reflect these changes.

Please note that the effective date of Revision 25, Change 3, is May 24, 2004. Please replace the current sections of the Quality Assurance Program with the enclosed sections (Abstract, Policy Statement, Introduction, QAP 1.0, QAP 2.0, and QAP Appendix G. If you have any questions, please contact D. Bruce at X3185.

Attachments: Summary of Changes for Revision 25, Change 3

Enclosure:

Quality Assurance Program Topical Report - Millstone Power Station, Revision 25, Change 3

DSB/dsb

ABSTRACT
QUALITY ASSURANCE PROGRAM (QAP)
TOPICAL REPORT - MILLSTONE POWER STATION

Dominion Nuclear Connecticut Inc., the licensee, has assumed, and is implementing, a comprehensive Quality Assurance Program for the Millstone Power Station to assure conformance with established regulatory requirements set forth by the Nuclear Regulatory Commission (NRC) and accepted industry standards. The participants in this Quality Assurance Program assure that the design, fabrication, procurement, construction, testing, operation, refueling, maintenance, repair and modification of Millstone Power Station nuclear units including the decommissioning of Unit 1 and the Independent Spent Fuel Storage Installation (ISFSI) are performed in a safe and effective manner.

This Quality Assurance Program (QAP) Topical Report complies with the requirements set forth in Appendix B of 10 CFR 50, and 10 CFR 72, along with applicable sections of the Safety Analysis Report (SAR) for each license application, the Defueled Safety Analysis Report (DSAR) for Unit 1, and the FSAR for the Standardized NUHOMS Horizontal Modular Storage System for Irradiated Nuclear Fuel. The QAP is responsive to the United States NRC Regulatory Guide 1.70, which describes the information required to be presented in the Quality Assurance section of the SAR's for Millstone operating Units 2 and 3.

This QAP applies to Millstone Power Station, and to associated support services. This QAP is also established, maintained, and executed with regard to radioactive material transport packages as allowed by 10 CFR 71.101(f). Quality Assurance provisions for Fire Protection activities are detailed in the Fire Protection Program.

This QAP applies in its entirety to all activities affecting the safety-related functions of structures, systems, and components in the Millstone Power Station nuclear units and the ISFSI. Safety-Related structures, systems, and components for Millstone Units 2 and 3 are functionally identified in Appendix A of this QAP and are designated Category I by the licensee. Applicability of Appendix A to each FSAR is addressed by existing nuclear unit specific design bases and licensing commitments, and also as specifically identified in each Final Safety Analysis Report (FSAR) addressing Section 3.2.1 of Regulatory Guide 1.70. Safety Related structures, systems, and components for Millstone Unit 1 are defined in the DSAR. Safety Related and Important-to-Safety structures, systems, and components for Millstone's ISFSI are defined in the FSAR for the Standardized NUHOMS Horizontal Modular Storage System for Irradiated Nuclear Fuel. This QAP is also applicable in its entirety to materials, equipment, parts, consumables, and services designated as Category I. This QAP is applicable to other quality programs including Anticipated Transient Without Scram (ATWS) Quality Assurance, which is applicable to MP-2 only (MP-3 commits to Generic Letter 85-06) and to Electrical Equipment Qualification (EEQ), as defined by licensee commitments. Portions of this QAP are also applicable to Fire Protection Quality Assurance (FPQA), and Radwaste Quality Assurance (RWQA), which are delineated in applicable program manuals and procedures. ***This QAP is also applicable to Station Blackout Quality Assurance (SBOQA) as identified in licensing commitments and delineated in applicable implementing procedures.*** Quality Assurance provisions for primary chemistry laboratory activities are detailed in the licensee's Nuclear Chemistry Laboratory Quality Assurance Manual.

This QAP is committed to utilize the guidance obtained from the regulatory documents and their endorsed standards identified in Appendix C of this QAP Topical Report.

POLICY STATEMENT
QUALITY ASSURANCE PROGRAM (QAP)
TOPICAL REPORT - MILLSTONE POWER STATION

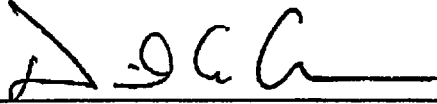
This Quality Assurance Program (QAP) Topical Report has been developed to achieve quality assurance in all activities affecting the safe operation of Millstone Power Station. The policies, requirements and tasks contained in this program description have been developed to achieve quality assurance during activities that apply to the design, fabrication, procurement, construction, testing, operation, refueling, maintenance, repair and modification of Millstone Power Station nuclear units, the ISFSI and the decommissioning of Unit 1

Dominion Nuclear Connecticut, Inc. (the licensee) procedures which implement this program are described in various manuals.

This QAP applies in its entirety to all activities affecting the safety-related functions of structures, systems, and components of Millstone Power Station. Safety-Related structures, systems and components are functionally identified in Appendix A for Millstone Units 2 and 3 of this QAP and are designated Category I by the licensee. Applicability of Appendix A to each FSAR is addressed by existing nuclear unit specific design bases and licensing commitments, and also as specifically identified in each FSAR addressing Section 3.2.1 of Regulatory Guide 1.70. Safety Related structures, systems, and components for Millstone Unit 1 are defined in the DSAR. This QAP is also applicable in its entirety to materials, equipment, parts, consumables, and services designated as Category I. This QAP is also applicable in its entirety to the design, fabrication, construction, testing, operation, maintenance, modification, and decommissioning of Safety Related and Important-To-Safety ISFSI structures, systems, and components as identified in Section 3.4 of the FSAR for the Standardized NUHOMS Horizontal Modular Storage System for Irradiated Nuclear Fuel. This QAP is also applicable to other quality programs including Anticipated Transient Without Scram (ATWS) Quality Assurance, which is applicable to MP-2 only (MP-3 commits to Generic Letter 85-06), and to Electrical Equipment Qualification (EEQ), as defined by licensee commitments. Portions of this QAP are also applicable to Fire Protection Quality Assurance (FPQA), and Radwaste Quality Assurance (RWQA) which are delineated in applicable program manuals and procedures. ***This QAP is also applicable to Station Blackout Quality Assurance (SBOQA) as identified in licensing commitments and delineated in applicable implementing procedures.*** Quality Assurance provisions for primary chemistry laboratory activities are detailed in the licensee's Nuclear Chemistry Laboratory Quality Assurance Manual.

The development and overall responsibility for this program lies with the President and Chief Operating Officer of Dominion Nuclear Connecticut, Inc., as delegated by the Chief Executive Officer - Dominion Nuclear Connecticut, Inc. The President and Chief Operating Officer - Dominion Nuclear Connecticut, Inc. has delegated the necessary responsibility and authority to the Senior Vice President - Nuclear Operations and Chief Nuclear Officer (SVP/CNO) - Dominion Nuclear Connecticut, Inc. Corporate authority is delegated to the Manager - Nuclear Oversight for the preparation and administration of this QAP Topical Report. Individual Vice Presidents are responsible for the implementation of their portion of this program. Audits of this program are the responsibility of the Manager - Nuclear Oversight.

Any revisions or additions shall be approved by affected departments prior to the incorporation of such changes into the program. Final approval of revisions or additions to this Policy Statement rests with the Senior Vice President – Nuclear Operations and Chief Nuclear Officer (SVP/CNO) - Dominion Nuclear Connecticut, Inc.



Senior Vice President – Nuclear Operations and Chief Nuclear Officer
Dominion Nuclear Connecticut, Inc.

INTRODUCTION
QUALITY ASSURANCE PROGRAM (QAP)
TOPICAL REPORT - MILLSTONE POWER STATION

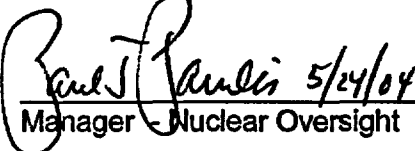
This Quality Assurance Program (QAP) Topical Report contains the quality assurance requirements which are relevant to the safety of Millstone Power Station. This QAP Topical Report consists of three parts:

1. Introduction, which defines the purpose of the Topical Program and summarizes its scope and applicability;
2. The QAP, which is applicable in its entirety to all activities affecting the safety-related functions of structures, systems, and components in the Millstone Power Station nuclear units and ISFSI. Safety-Related structures, systems, and components for Millstone Units 2 and 3 are functionally identified in Appendix A of this QAP and are designated Category I by the licensee, Dominion Nuclear Connecticut, Inc. Applicability of Appendix A to each FSAR is addressed by existing nuclear unit specific design bases and licensing commitments, and also as specifically identified in each FSAR addressing Section 3.2.1 of Regulatory Guide 1.70. Safety Related structures, systems, and components for Millstone Unit 1 are defined in the DSAR. Safety Related and Important To Safety structures, systems, and components for Millstone's ISFSI are defined in the FSAR for the standardized NUHOMS Horizontal Modular Storage System for Irradiated Nuclear Fuel. This QAP is also applicable in its entirety to materials, equipment, parts, consumables, and services designated as Category I. This QAP is applicable to other quality programs including Anticipated Transient Without Scram (ATWS) Quality Assurance, which is applicable to MP-2 only (MP-3 commits to Generic Letter 85-06), and to Electrical Equipment Qualification (EEQ), as defined by licensee commitments. ***This QAP is also applicable to Station Blackout Quality Assurance (SBOQA) as identified in licensing commitments and delineated in applicable implementing procedures.*** Portions of this QAP are also applicable to Fire Protection Quality Assurance (FPQA) and Radwaste Quality Assurance (RWQA), which are delineated in applicable program manuals and procedures.
3. Appendices, which provide supporting statements and tabulations.

This QAP Topical Report has been prepared to document that a quality assurance program has been established and implemented to assure that adequate quality requirements are being complied with to safeguard licensee employees, contracted personnel and the public during the life of the Millstone Power Station nuclear units and ISFSI. In addition, there are other programs to safeguard licensee employees, contracted personnel, and the public.

The controls which implement the actions identified in this QAP are procedures and instructions which delineate actions and steps necessary to accomplish quality requirements. Procedures and instructions are written by groups, divisions, departments, branches, or sections which have the responsibility for implementing actions as assigned by this QAP. Quality procedures and revisions thereto are reviewed by and concurred with by Nuclear Oversight in accordance with QAP 2.0, "Quality Assurance Program" and QAP 5.0, "Procedures, Instructions, and Drawings".

This QAP is responsive to applicable codes, Nuclear Regulatory Commission regulatory requirements, accepted industrial standards and revisions thereto. Provisions are established to update this QAP Topical Report in accordance with revisions to codes, standards and regulatory requirements, and to inform cognizant personnel to implement appropriate action to assure the highest standard of quality is achieved for structures, systems, components, and services for the Millstone Power Station nuclear units and ISFSI.


Paul J. Paulis 5/24/04
Manager - Nuclear Oversight

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 The Senior Vice President - Nuclear Operations is the Corporate individual responsible to the Senior Vice President - Nuclear Operations and Chief Nuclear Officer (SVP/CNO) - Dominion Nuclear Connecticut, Inc. for the operations of the Nuclear Stations and ISFSIs. He has overall responsibility for implementing the quality assurance program for the operational phase of the Nuclear Stations.

1.3.2 Site Vice President - Millstone

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

- Director - Nuclear Station Operations & Maintenance
- Director - Nuclear Station Safety & Licensing

1.3.3 Director - Nuclear Station Operations & Maintenance

Director - Nuclear Station Operations & Maintenance is responsible for establishing common policies and standards pertaining to the operating units and ISFSI, 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 Director - Nuclear Station Operations & Maintenance 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 departments report directly to the Director - Nuclear Station Operations & Maintenance:

- Nuclear Operations
- Nuclear Maintenance
- Nuclear Site Services
- Nuclear Outage and Planning

Nuclear Training and Supply Chain Management (*Site*) are matrixed to the Director - Nuclear Station Operations & Maintenance.

1.3.4 Director - Nuclear Station Safety & Licensing

Director - Nuclear Station Safety & Licensing is responsible for implementation of this QAP. The following departments report directly to the Director - Nuclear Station Safety & Licensing:

- Nuclear Procedures & Document Administration
- Radiological Protection & Chemistry
- Nuclear Organizational Effectiveness

Emergency Preparedness, Protection Services and Information Technology are matrixed to the Director - Nuclear Station Safety & Licensing.

Nuclear Training, Emergency Preparedness, and Protection Services all report to the Vice President - Nuclear Support Services in the Nuclear Business Unit. Security is part of Protection Services. Nuclear Engineering reports to the Vice President - Nuclear Engineering and Services in the Nuclear Business Unit.

1.3.5 Director - Nuclear Oversight

The Director - Nuclear Oversight is the corporate individual responsible for the effective performance of Nuclear Oversight. Overall responsibility for the Millstone QAP has been delegated to the Manager - Nuclear Oversight by the SVP/CNO - Dominion Nuclear Connecticut, Inc. The Director - Nuclear Oversight is the corporate individual responsible with the necessary authority and responsibility for the following:

- Overall direction of the quality assurance program

- Development and implementation of policies, plans, requirements, procedures, and conduct of audits

The Director - Nuclear Oversight (NO) is responsible for determining the necessity for escalation activities for Audit Findings.

1.3.6 Manager - Nuclear Oversight

The Manager - Nuclear Oversight reports to the Director - Nuclear Oversight and is responsible to the Director - Nuclear Oversight for the effective performance of Millstone Nuclear Oversight. The Manager - Nuclear Oversight acts as advisor to the Site Vice President - Millstone and the SVP/CNO - Dominion Nuclear Connecticut, Inc. on items related to nuclear quality and safety at the Millstone Power Station and ISFSIs. Overall responsibility for the Millstone QAP has been delegated to the Manager - Nuclear Oversight by the SVP/CNO - Dominion Nuclear Connecticut, Inc. The Manager - Nuclear Oversight has the necessary authority and responsibility for the following:

- Direction of the Millstone quality assurance program
- Development and implementation of Millstone 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 Nuclear Oversight. The Manager - 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 Manager - 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 Manager - 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.

1.3.7 Nuclear Maintenance

Nuclear Maintenance is responsible for on-line maintenance, cost and scheduling, 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. Nuclear Maintenance is also responsible for directing and coordinating maintenance activities for the ISFSI.

1.3.8 Nuclear Operations

Nuclear Operations is responsible for operations, including fire protection. The Manager - Nuclear Operations is responsible for the safe and efficient operation of the units including Unit 1, which is in a decommissioned mode, and the ISFSI. 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 related responsibilities, the Manager - Nuclear Operations may relieve the Shift Manager of the responsibility of directing the licensed Control Room operators. The following groups report to the Manager - Nuclear Operations:

- Unit Nuclear Operations
- Nuclear Operations Support
- Nuclear Operations Work Control

1.3.9 Unit Nuclear Operations

The Unit Nuclear Operations groups report to the Manager - Nuclear Operations. Each group includes the following key supervisory positions:

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

Unit 2 Nuclear Operations is responsible for operations regarding the Unit 1 Spent Fuel Pool Island and auxiliary systems. The transfer of Unit 1 operations responsibility to Unit 2 Nuclear Operations does not impact the capability of Unit 2 Operators to perform their duties, including day-to-day functions and accident and transient mitigation.

1.3.9.1 Supervisor - Nuclear Shift Operations

The Supervisor - Nuclear Shift 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, either the Manager - Nuclear Operations or the Supervisor - Nuclear Shift Operations holds an appropriate license on the Unit (SRO 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 Supervisor - Nuclear Shift 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 Supervisor - Nuclear Shift Operations may relieve the Shift Manager of the responsibility of directing the licensed Control Room operators.

1.3.9.2 Shift Managers

The Shift Managers report to the Supervisor - Nuclear Shift Operations and are responsible for the Control Room command function. The Shift Manager holds an appropriate license on the unit (SRO for Unit 3; 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.

1.3.9.3 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.

1.3.9.4 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 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

1.3.9.5 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

1.3.10 Nuclear Outage & Planning

Nuclear Outage & Planning is responsible for planning online-maintenance and outage activities.

1.3.11 Nuclear Site Services

Nuclear Site Services is responsible for project support of the station, including project construction and project controls.

1.3.12 Nuclear Procedures & Document Administration

Nuclear Procedures & Document Administration is responsible for nuclear records management and procedures.

1.3.13 Radiological Protection & Chemistry

Radiological Protection & Chemistry carries out chemistry and health physics functions and reports to the Director - Nuclear Station Safety and Licensing. This reporting relationship provides radiation protection functions with sufficient organizational freedom and independence from operating pressures as required by the unit Technical Specifications. ***The Radiological Protection & Chemistry Manager or the Supervisor - Health Physics*** fulfills the ***"Radiation Protection Manager"*** position qualifications required by the unit Technical Specifications. Radiological Protection & Chemistry 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
- Chemistry

1.3.14 Nuclear Organizational Effectiveness

Nuclear Organizational Effectiveness is responsible for the Corrective Actions Program, the Independent Safety Engineering Group, the Operating Experience Program and Shift Technical Advisors. Nuclear Organizational Effectiveness reports directly to the Director - Nuclear Station Safety and Licensing, and is matrixed to the Director - Organizational Effectiveness.

1.3.15 Emergency Preparedness

Emergency Preparedness 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 plan for Millstone Power Station and ISFSI. Emergency Preparedness reports to the Director - Protective Services & Emergency Preparedness and is matrixed to the Director - Nuclear Station Safety & Licensing.

1.3.16 Nuclear Protection Services

Nuclear Protection Services is responsible for station protective services, including security, for Millstone Power Station and ISFSI. Nuclear Protection Services reports to the Director - Protective Services & Emergency Preparedness (corporate) and is matrixed to the Director - Nuclear Station Safety & Licensing.

1.3.17 Nuclear Training

Nuclear Training is responsible for operator and technical training including ISFSI related training. The operator training group reports to the Director - Nuclear Training (corporate) to provide sufficient organizational freedom and independence from operating pressures as required by the unit Technical Specifications. Nuclear Training is matrixed to the Director - Nuclear Station Operations and Maintenance.

1.3.18 Nuclear Engineering

Nuclear Engineering reports to the Director - Nuclear Engineering. Nuclear Engineering 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 Director - Nuclear Engineering reports to the Vice President - Nuclear Engineering (corporate) and is matrixed to the Site Vice President.

Nuclear Fuel Engineering reports to the Director - Dominion Nuclear Analysis and Fuel. The group is responsible for engineering activities in safety analysis and nuclear fuel, including probabilistic risk assessment and reactor and

radiological engineering. Nuclear Fuel Engineering is matrixed to the Director - Nuclear Engineering.

1.3.19 Supply Chain Management (SCM)

Supply Chain Management (SCM) is responsible for procurement. Responsibilities include approval and oversight of vendors that provide quality-related material and services including source and receipt inspection. Supply Chain Management (SCM) reports to the Director - Dominion Supply Chain Management (Generation). The *Supply Chain Site Manager* is matrixed to the Director - Nuclear Station Operations & Maintenance.

1.3.20 Information Technology

Information Technology is responsible for the Quality Assurance Software Program. Information Technology reports to the Director - Dominion Information Technology Business Account (Generation), and is matrixed to the Director - Nuclear Station Safety & Licensing.

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 Nuclear 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 company shall retain responsibility for this Quality Assurance Program.

1.5 MANAGEMENT QUALITY ASSURANCE REVIEW

The Senior Vice President - Nuclear Operations and Chief Nuclear Officer - Dominion Nuclear Connecticut, Inc. 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 a biennial 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, 10 CFR 72, and other regulatory requirements; and
- capable of identifying, communicating, and tracking any required corrective action.

The Senior Vice President - Nuclear Operations and Chief Nuclear Officer - Dominion Nuclear Connecticut, Inc. has delegated the responsibility for the Management Quality Assurance Review to the Manager - Nuclear Oversight.

1.6 SPECIFIC QAP RESPONSIBILITIES

The Senior Vice President - Nuclear Operations and Chief Nuclear Officer - Dominion Nuclear Connecticut, Inc. 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:

- Site Vice President - Millstone
- Director - Nuclear Station Operations & Maintenance
- Manager - Nuclear Operations
- Licensed Supervisor - Nuclear Shift Operations designated by Site Vice President - Millstone
- Shift Manager (SRO)
- Licensed Unit Supervisor (SRO)

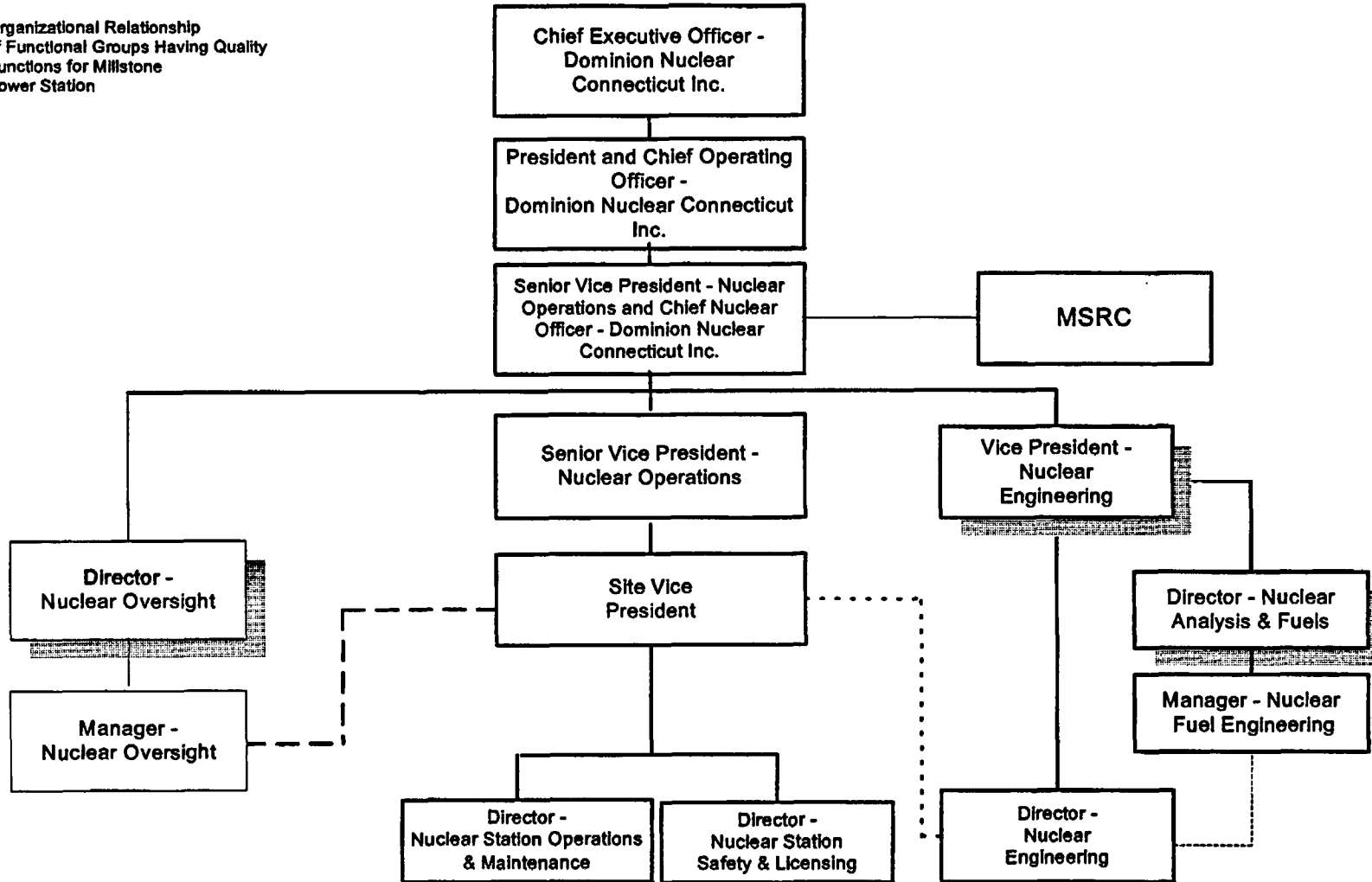
1.8 **ORGANIZATION CHARTS**

NOTE

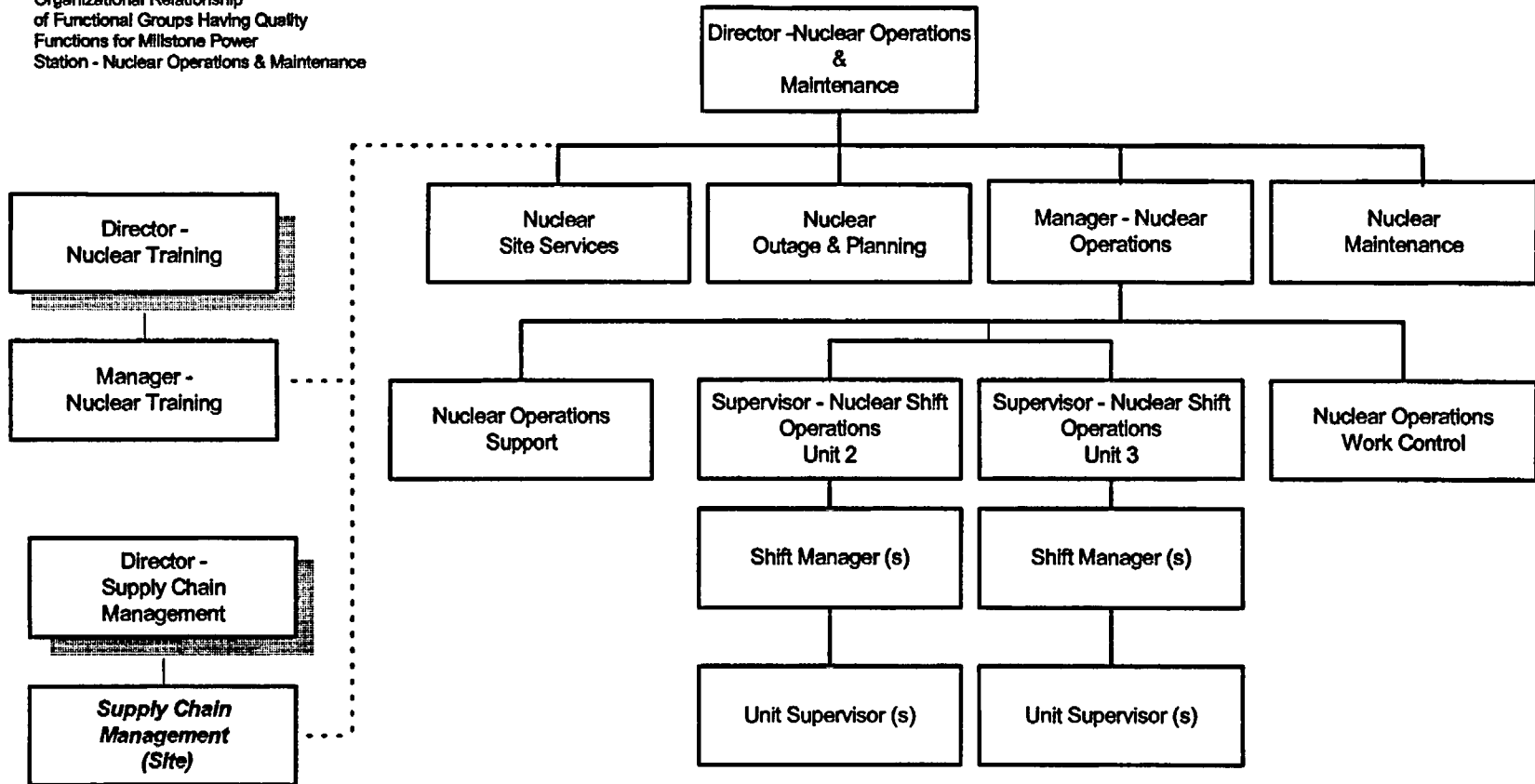
The following organization charts are incorporated by reference in the Emergency Plan - Millstone Power Station. Changes to these organization charts require an effectiveness review in accordance with 10 CFR 50.54 (q).

Offsite Vice President/ Directors are shadowed to denote corporate reporting positions. Dotted lines represent matrixed relationships for site related communication and administrative purposes.

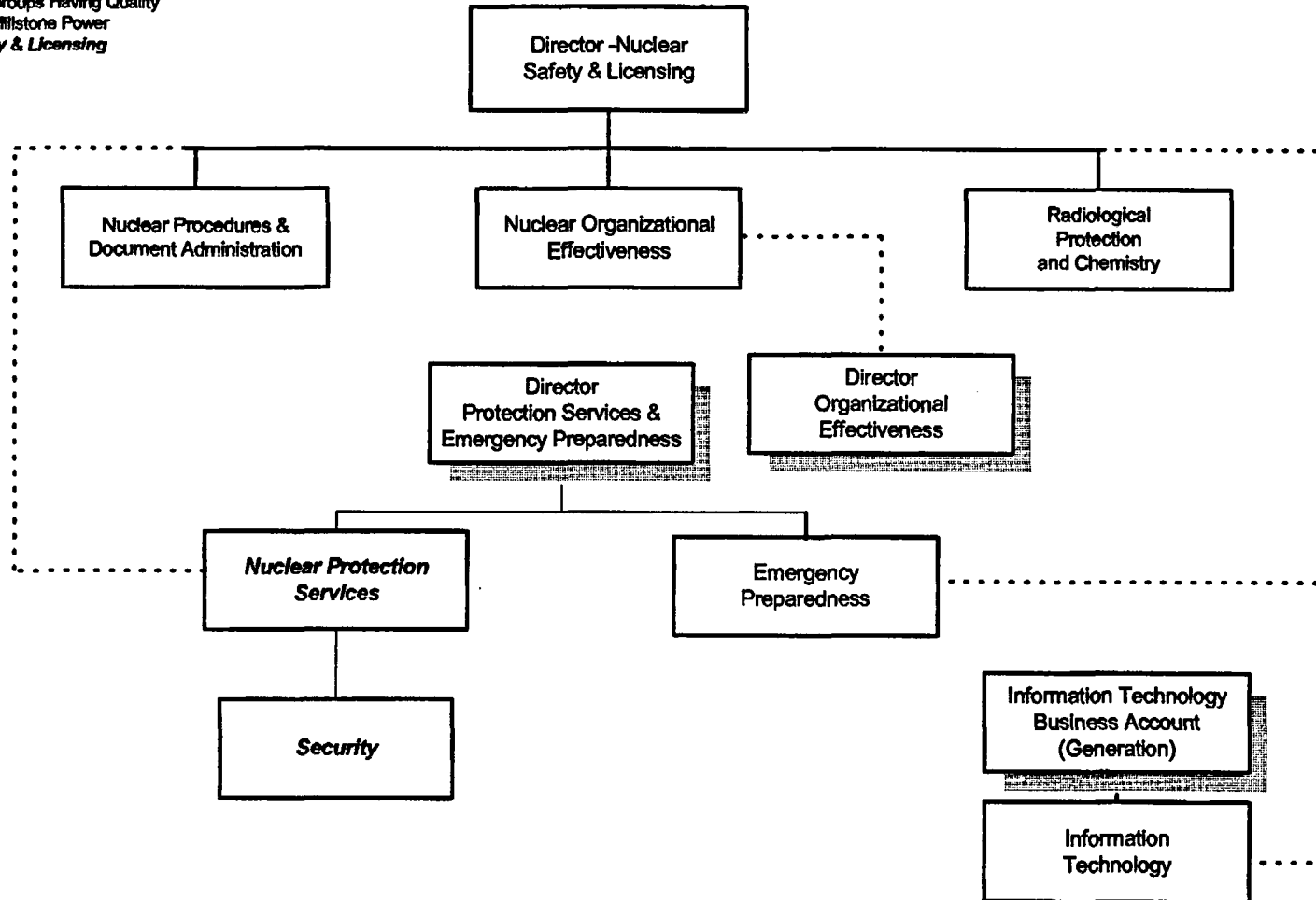
**Organizational Relationship
of Functional Groups Having Quality
Functions for Millstone
Power Station**



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



Organizational Relationship
of Functional Groups Having Quality
Functions for Millstone Power
Station - *Safety & Licensing*



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	Site Vice President Director - Nuclear Station Operations & Maintenance
5.1.2	Shift Manager	Unit 2 Shift Manager
Organization		
5.2.1b Offsite and onsite organizations	designated manager	Director - Nuclear Station Operations & Maintenance
5.2.1c Offsite and onsite organizations	designated officer	Site Vice President
5.2.2	Shift Manager	Unit 2 Shift Manager
Staff Qualifications		
5.3.1	operations manager or assistant operations manager	Manager - Nuclear Operations Unit 2 Supervisor Nuclear Shift Operations
5.3.1.2	radiation protection manager	Radiological Protection & Chemistry Manager or the Supervisor - Health Physics
Procedures		
5.5.2	designated manager designated officer designated senior officer	Director - Nuclear Station Operations & Maintenance Director - Nuclear Station Safety & Licensing Site Vice President Senior Vice President - Nuclear Operations
5.5.3	designated manager designated officer	Director - Nuclear Station Operations & Maintenance Director - Nuclear Station Safety & Licensing Site Vice President
5.5.4	designated manager designated officer	Director - Nuclear Station Operations & Maintenance Director - Nuclear Station Safety & Licensing Site Vice President
5.5.5c	designated manager designated officer	Director - Nuclear Station Operations & Maintenance Director - Nuclear Station Safety & Licensing Site Vice President
5.5.6; 5.5.7	Individual from the organization responsible for REMP	Individual from Nuclear Fuel Engineering or designee

T.S. SECTION	T.S. POSITION	STATION ORGANIZATION POSITION
Radiological Effluent Monitoring and Offsite Dose Calculation Manual (REMOCM)		
5.6.1	designated officer	Site Vice President

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	Site Vice President Director - Nuclear Station Operations & Maintenance
Organization		
6.2.1b Offsite and onsite organizations	designated manager	Director - Nuclear Station Operations & Maintenance
6.2.1c Offsite and onsite organizations	designated officer	Site Vice President
Facility Staff Qualifications		
6.3.1a	operations manager assistant operations manager	Manager - Nuclear Operations Unit 2 Supervisor Nuclear Shift Operations
6.3.1c	radiation protection manager	<i>Radiological Protection & Chemistry Manager or the Supervisor - Health Physics</i>
Procedures		
6.8.2a	designated manager designated officer designated senior officer	Director - Nuclear Station Operations & Maintenance Director - Nuclear Station Safety & Licensing Site Vice President Senior Vice President - Nuclear Operations
6.8.2b	designated manager designated officer	Director - Nuclear Station Operations & Maintenance Director - Nuclear Station Safety & Licensing Site Vice President
6.8.5	Individual from the organization responsible for REMP	Individual from Nuclear Fuel Engineering or designee
High Radiation Area		
6.12.1c	radiation protection manager	<i>Radiological Protection & Chemistry Manager or the Supervisor - Health Physics</i>
Radiological Effluent Monitoring and Offsite Dose Calculation Manual (REMOCM)		
6.15b	designated officer	Site Vice President

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	Site Vice President Director - Nuclear Station Operations & Maintenance
Organization		
6.2.1b Offsite and onsite organizations	designated manager	Director - Nuclear Station Operations & Maintenance
6.2.1c Offsite and onsite organizations	designated officer	Site Vice President
Facility Staff Qualifications		
6.3.1a	operations manager assistant operations manager	Manager - Nuclear Operations Unit 3 Supervisor Nuclear Shift Operations
6.3.1c	radiation protection manager	Radiological Protection & Chemistry Manager or the Supervisor - Health Physics
Procedures		
6.8.2a	designated manager designated officer designated senior officer	Director - Nuclear Station Operations & Maintenance Director - Nuclear Station Safety & Licensing Site Vice President Senior Vice President - Nuclear Operations
6.8.2b	designated manager designated officer	Director - Nuclear Station Operations & Maintenance Director - Nuclear Station Safety & Licensing Site Vice President
6.8.5	Individual from the organization responsible for REMP	Individual from Nuclear Fuel Engineering or designee
High Radiation Area		
6.12.1c	radiation protection manager	Radiological Protection & Chemistry Manager or the Supervisor - Health Physics

Notes:

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