





To: Millstone Unit 1 Northeast Utilities Quality Assurance Program Topical Report  
Controlled Copy Holders

From: Steve Strout  
x 0568

Subject: Distribution of Millstone Unit 1 Northeast Utilities Quality Assurance Program  
Topical Report Revision 0, Change 5.

Enclosed is Millstone Unit 1 Northeast Utilities Quality Assurance Program (M1 NUQAP) Topical Report Revision 0, Change 5. This change was approved as LBDCR M1-00-031 and revises Section 1.0 by deleting the position of Director - Nuclear Safety and Regulatory Affairs (NSRA) The Manager - Unit 1 Nuclear Oversight will report directly to the Unit 1 General Manager. The effective date of the change is June 22, 2000.

Changes are in ***bold and italics*** with a revision bar in the right margin.

Change Instructions:

Remove:	Insert:
Cover Sheet Rev 4	Cover Sheet Rev 5
Section 1.0	Section 1.0 dated 06/22/00
	Summary of Changes to MP1 QAP Rev. 0 Incorporated as Change 05

This change became effective on **June 22, 2000** for immediate implementation and must be inserted into the manual upon receipt.

Please complete and return the attached Nuclear Document Services coversheet/transmittal form to NDS acknowledging that you have received and inserted you copy of the subject change.

Enclosures

1. Cover Sheet dated 06/22/00
2. Section 1.0 dated 06/22/00
3. Summary of changes incorporated as part of Revision 0, Change 5.

cc: R. B. Lundin  
Nuclear Records  
File

2004

**MILLSTONE UNIT 1**

**NORTHEAST UTILITIES QUALITY  
ASSURANCE PROGRAM**

Rev. 0 Change 5  
6/22/2000

## 1.0 ORGANIZATION

### 1.1 INTRODUCTION

This section describes the organizations involved in the operation and technical support of Millstone Unit 1. In addition, this section describes the responsibilities governed by the Millstone Unit 1 Quality Assurance Program. Qualifications for key personnel are found in the Unit 1 Technical Specifications and in Appendix B of this Topical Report, "Qualification and Experience Requirements."

#### NOTE

In the remainder of this Topical Report, the text generally applies specifically to Millstone Unit 1. Where indicated, some references are also made to station - wide functions that apply to all three Millstone Station units. Station (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.

### 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 is the Chairman of Northeast Nuclear Energy Company (NNECO), the licensed operator of Millstone Units 1, 2 and 3. The Chairman of NNECO 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 STATION MANAGEMENT RESPONSIBILITIES AND AUTHORITY

### NOTE

The following text describes only the Millstone Station organizational elements whose responsibilities include Millstone Unit 1. For information on other aspects of the Millstone Station organization, please refer to the Northeast Utilities Quality Assurance Program Topical Report.

#### 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 Millstone Nuclear Power Station (MNPS), including the decommissioning of Millstone Unit 1. The SVP & CNO has overall responsibility for engineering, construction, operation, maintenance, modification and quality assurance, including this Millstone Unit 1 Quality Assurance Program, at MNPS. The following positions with Unit 1 responsibilities report directly to the SVP & CNO:

- VP-Nuclear Work Services
- VP-Human Services - Nuclear

#### 1.3.2 VP-Nuclear Work Services

VP-Nuclear Work Services is responsible for site services in support of the station, and implementation of this Millstone Unit 1 Quality Assurance Program. The following report directly to the VP-Nuclear Work Services:

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

#### 1.3.3 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 Millstone Unit 1 Quality Assurance Program. The following report directly to the VP-Human Services-Nuclear:

- Nuclear Training Services
- Emergency Planning

#### 1.3.4 Site Services

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

#### 1.3.5 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.

#### 1.3.6 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.

### 1.4 KEY UNIT 1 MANAGEMENT RESPONSIBILITIES AND AUTHORITY

#### 1.4.1 Unit 1 General Manager

The Unit 1 General Manager is responsible for the safe and efficient decommissioning of Unit 1, including operations, engineering, nuclear safety, radiation protection, maintenance and associated support services, and implementation of this Millstone Unit 1 Quality Assurance Program. The following report to the Unit 1 General Manager:

- Director-Unit 1 Operations
- Director-Decommissioning
- **Manager - Unit 1 Nuclear Oversight**

#### 1.4.2 Director-Unit 1 Operations

The Director-Unit 1 Operations is responsible for the safe and efficient operation of Unit 1 in its decommissioning mode. The Director-Unit 1 Operations is also responsible for work management, maintenance, health physics, and radiological waste. The Manager-Health Physics fulfills the "Health Physics Manager" position qualifications required by the Unit 1 Technical Specifications. The following report directly to the Director-Unit 1 Operations:

- Manager-Work Management
- Manager-Health Physics
- Manager-Chemistry
- Manager-Operations

#### 1.4.3 Director-Decommissioning

The Director-Decommissioning is responsible for planning and executing the decommissioning of Unit 1, including associated engineering.

The Unit 1 engineering organization is responsible for:

- Design engineering functions, supporting activities, and engineering programs. Unit 1 engineering will share responsibility with Design Engineering (Units 2 and 3) for certain systems shared between Unit 1 and Units 2 or 3.
- Configuration management, safety analysis, and nuclear fuel, including probabilistic risk assessment, radiological and radwaste engineering, design and configuration control and engineering assurance.
- Plant engineering, including engineering technical support and systems engineering, reactor and material engineering.

#### 1.4.4 Manager-Unit 1 Nuclear Oversight

The Manager-Unit 1 Nuclear Oversight has been delegated the necessary authority and responsibility for the following:

- ***Direction of the Unit 1 quality assurance program***
- ***Development and implementation of policies, plans, requirements, procedures, and audits***
- Preparation and issuance of the Millstone Unit 1 Quality Assurance Program
- Verification of the implementation of Millstone Unit 1 Quality Assurance Program 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

Verification is performed through a planned program of audits, surveillances and inspections by Unit 1 Nuclear Oversight. The Manager-Unit 1 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-Unit 1 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-Unit 1 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 Unit 1 Nuclear Oversight personnel and delineated in an approved procedure.

To ensure the necessary independence from cost and schedule considerations and to ensure adequate authority and organizational freedom, the Manager-Unit 1 Nuclear Oversight also has a direct line of communication to the SVP &CNO.

#### 1.4.5 Unit 1 Work Management

Unit 1 Work Management is responsible for installation, maintenance, alterations, adjustment and calibration, replacement and repair of plant electrical and mechanical equipment, and instruments and controls. Responsibilities include establishing standards and frequency of calibration for instrumentation and ensuring instrumentation and related testing equipment are properly used, inspected and maintained.

#### 1.4.6 Unit 1 Health Physics

The Unit 1 Health Physics group carries out health physics functions and reports to the Director-Unit 1 Operations to provide sufficient organizational freedom and independence from operating pressures as required by the unit Technical Specifications. The Manager-Health Physics 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

#### 1.4.7 Unit 1 Operations

The Unit 1 Operations group reports to the Director-Unit 1 Operations. The group includes the following key supervisory positions:

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

#### 1.4.7.1 Manager-Operations and Assistant Manager-Operations

The Manager-Operations provides general supervision for the operation of the 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 shall be a Certified Fuel Handler. The Manager-Operations assures the safe and efficient operation of the unit in accordance with applicable licenses, operating instructions and procedures, and safety rules and regulations. The Manager-Operations delegates the necessary authority and responsibility for various duties to the Assistant Manager-Operations.

#### 1.4.7.2 Shift Manager

The Shift Managers report to the Assistant Manager-Operations and are responsible for the Control Room command function. The Shift Manager is a Certified Fuel Handler. 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.

#### 1.4.7.3 Unit Supervisor

The Unit Supervisor is a Certified Fuel Handler and supervises the operators in the Control Room. The Unit Supervisor directs activities of the Control Room operators, and may operate the controls of equipment and piping systems from the Control Room or alternate station control location.

#### 1.4.7.4 Control Operators

Control Operators hold a Certified Fuel Handler or Equipment Operator qualification on the unit. The Control Operators are responsible to perform the following duties:

- Start up, operate, and shut down nuclear plant equipment as necessary to satisfy Unit conditions
- Test, as scheduled, control room instruments and controls
- Maintain required logs, observe these logs for indications of faulty operation, and notify the on-duty Shift Manager of abnormal plant conditions

#### 1.4.7.5 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

#### 1.5 QUALITY-RELATED RESPONSIBILITIES COMMON TO ALL DEPARTMENT HEADS

The head of each department performing quality activities in accordance with the Millstone Unit 1 Quality Assurance Program is responsible for:

- Administering those activities within their organization which are required by this Millstone Unit 1 Quality Assurance Program;
- Ensuring implementation of the Millstone Unit 1 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 Millstone Unit 1 Quality Assurance Program; and
- Performing and coordinating quality activities within their department and interfacing with the Unit 1 Nuclear Oversight department.

Each individual performing or verifying activities affecting quality is responsible to conduct those activities in accordance with the requirements of this Millstone Unit 1 Quality Assurance Program 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 Millstone Unit 1 Quality Assurance Program.

## 1.6 ANNUAL MANAGEMENT QUALITY ASSURANCE REVIEW

The SVP & CNO is responsible for the assessment of the scope, status, implementation, and effectiveness of the Millstone Unit 1 Quality Assurance Program. To meet this responsibility, a team of qualified individuals is appointed by the SVP & CNO 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 Millstone Unit 1 Quality Assurance Program. This review is:

- A systematic evaluation;
- pre-planned toward the objective of determining the adequacy of the Millstone Unit 1 Quality Assurance Program 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.

## 1.7 RESOLUTION OF DISPUTES

The SVP & CNO resolves all disputes related to the implementation of the Millstone Unit 1 Quality Assurance Program for which resolution is not achieved at lower levels within the organization.

## 1.8 ORGANIZATION CHARTS

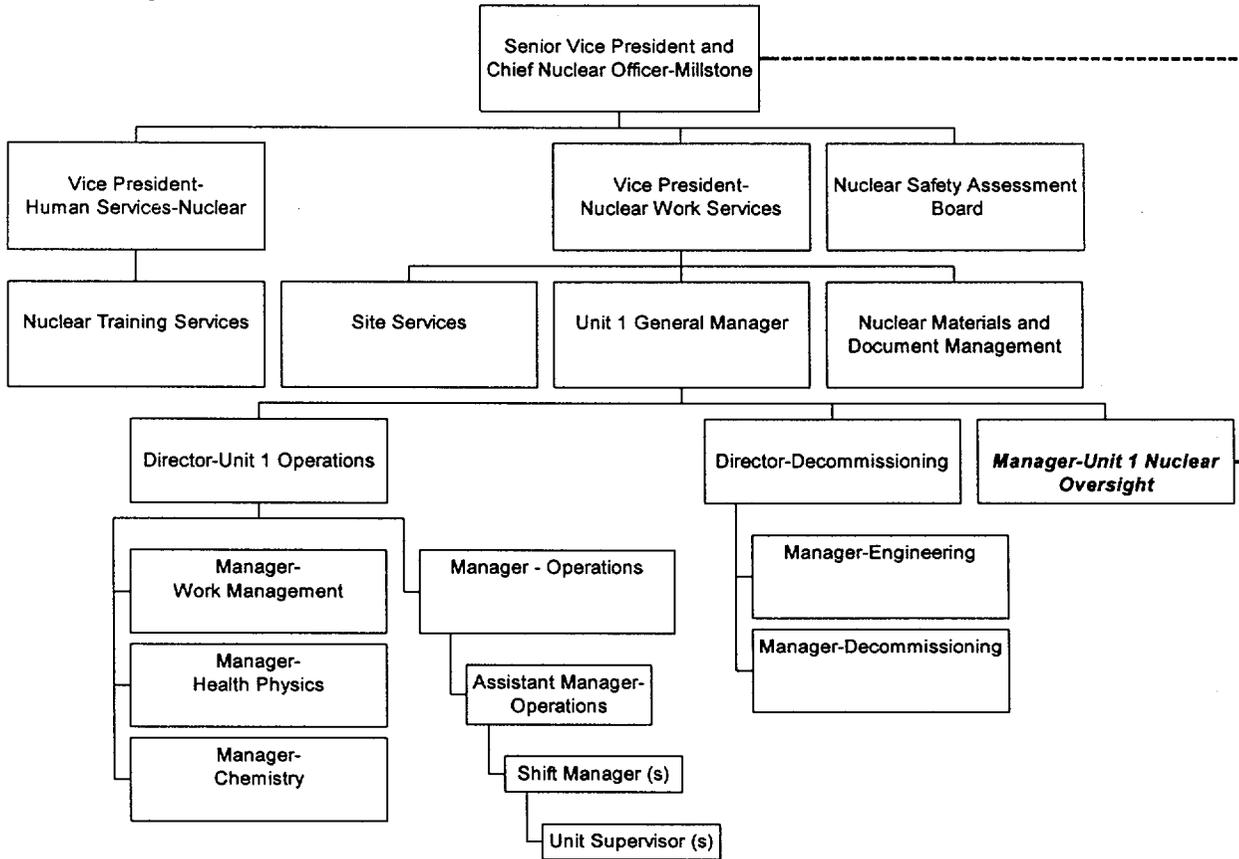
The organization chart shown on the following page is for the groups having quality functions for Millstone Unit 1.

### NOTE

The following organization chart is incorporated by reference in the Millstone Station emergency plan. Changes to this organization chart require an effectiveness review in accordance with 10 CFR 50.54 (q).

# Organizational Relationship of Functional Groups Having Quality Functions for Millstone Unit 1

Note: Officers and Organizations responsible only for Millstone Units 2 and 3 are not shown here. Please refer to the Northeast Utilities Quality Assurance Program.



**Summary of Changes to MP1 QAP Rev. 0 Incorporated as Change 05**

<b><u>Section</u></b>	<b><u>Summary Description of Changes</u></b>	<b><u>Reference</u></b>
Section 1.0	Deleted Position of Director-Nuclear Safety and Regulatory Affairs. The Manager-Unit 1 Nuclear Oversight will report directly to the Unit 1 General Manager.	<b>LBDCR M1-00-031</b>