

Docket No. 50-245

50-336

50-423

B16224

Attachment 1

Millstone Nuclear Power Station, Unit Nos. 1, 2, and 3

Proposed Revision to Technical Specifications  
Administrative Controls  
Marked-Up Pages

February 1997

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6.1 RESPONSIBILITY

6.1.1 The Senior Vice President <sup>and Chief Nuclear Officer (CNO) - Millstone</sup> ~~Millstone Station~~ shall be responsible for overall operation of the Millstone Station Site while the ~~Nuclear Unit~~ <sup>Director, Unit Operations</sup> ~~Director~~ shall be responsible for operation of the unit. The Senior Vice President ~~Millstone Station~~ and Nuclear Unit Director shall each delegate, in writing, the succession to these responsibilities during their absence.

6.2 ORGANIZATION6.2.1 OFFSITE AND ONSITE ORGANIZATIONS

Onsite and offsite organizations shall be established for unit operation and corporate management, respectively. The onsite and offsite organizations shall include the positions for activities affecting the safety of the nuclear power plant.

- a. Lines of authority, responsibility, and communication shall be established and defined for the higher management levels through intermediate levels to and including all operating organization positions. These relationships shall be documented and updated, as appropriate, in the form of organization charts, functional descriptions of departmental responsibilities and relationships, and job descriptions for key personnel positions, or in equivalent forms of documentation. These requirements shall be documented in the Quality Assurance Topical Report.
- b. The ~~Senior Vice President~~ <sup>Millstone Unit 1 Recovery Officer</sup> ~~Millstone Station~~ shall be responsible for overall unit safe operation and shall have control over those onsite activities necessary for safe operation and maintenance of the plant.
- c. The ~~Executive Vice President - Nuclear~~ <sup>Millstone Unit 2 Recovery Officer</sup> shall have corporate responsibility for overall plant nuclear safety and shall take any measures needed to ensure acceptable performance of the staff in operation, maintaining, and providing technical support to the plant to ensure nuclear safety.
- d. The individuals who train the operating staff and those who carry out health physics and quality assurance functions may report to the appropriate onsite manager; however, they shall have sufficient organizational freedom to ensure their independence from operating pressures.

6.2.2 FACILITY STAFF

- a. Each on duty shift shall be composed of at least the minimum shift crew composition shown in Table 6.2-1.
- b. At least one licensed Operator shall be in the control room when fuel is in the reactor.
- c. At least two licensed Operators shall be present in the control room during reactor start-up, scheduled reactor shutdown and during recovery from reactor trips.

July 16, 1996

## ADMINISTRATIVE CONTROLS

### 6.4 TRAINING

- 6.4.1 A retraining and replacement training program for the facility staff shall be maintained under the direction of the Senior Vice President Millstone Station and shall meet or exceed the requirements and recommendations of Section 5.5 of ANSI N18.1-1971 and 10 CFR Part 55.59. The Director-Nuclear Training has the overall responsibility for the implementation of the Training Program.
- and CNO-Millstone

### 6.5 REVIEW AND AUDIT

#### 6.5.1 Plant Operations Review Committee (PORC)

##### Function

- 6.5.1.1 The PORC shall function to advise the Nuclear Unit Director on all matters related to nuclear safety.
- Director, Unit Operations

##### Composition

- 6.5.1.2 The PORC shall be composed of nine to eleven members. Members shall collectively have experience and expertise in the following areas:

Plant Operations  
Engineering  
Reactor Engineering  
Maintenance  
Instrumentation and Controls  
Health Physics  
Chemistry  
Work Planning and Control  
Quality Services Assurance

The minimum qualifications of PORC members shall be that all members have an academic degree in an engineering or physical science field, or hold a management position, and have a minimum of five years technical experience in their respective field of expertise. The members of PORC shall be appointed in writing by the Nuclear Unit Director. The Chairperson and alternate Chairperson of the PORC shall be drawn from the PORC members and be appointed in writing by the Nuclear Unit Director.

Director, Unit Operations

##### Alternates

- 6.5.1.3 Alternate members shall be appointed in writing by the PORC Chairperson to serve on a temporary basis; however, no more than two alternates shall participate in PORC activities at any one time.

ADMINISTRATIVE CONTROLSMeeting Frequency

6.5.1.4 The PORC shall meet at least once per calendar month and as convened by the PORC Chairperson.

Quorum

6.5.1.5 A quorum of the PORC shall consist of the Chairperson, or Vice Chairperson, ~~or Senior Vice President - Millstone Station~~ and four members including alternates.

Responsibilities

6.5.1.6 The PORC shall be responsible for:

- a. Review of 1) all procedures, except common site procedures, required by Specification 6.8 and changes thereto, 2) all programs, except common site programs, required by Specification 6.8 and changes thereto, 3) any other proposed procedures, programs, or changes thereto, as determined by the Nuclear Unit Director to affect nuclear safety. Procedures and programs required by Specification 6.8 that are designated for review and approval by the Station Qualified Reviewer Program do not require PORC review.
- b. Review of all proposed tests and experiments that affect nuclear safety.
- c. Review of all proposed changes to Sections 1.0 - 5.0 of these Technical Specifications.
- d. Review of all proposed changes or modifications to plant systems or equipment that affect nuclear safety.
- e. Investigation of all violations of the Technical Specifications and preparation and forwarding of a report covering evaluation and recommendations to prevent recurrence to the Executive Vice President - Nuclear and to the Chairperson of the Nuclear Safety Assessment Board.
- f. Review of all REPORTABLE EVENTS.
- g. Review of facility operations to detect potential safety hazards.
- h. Performance of special reviews and investigations and reports thereon as requested by the Chairperson of the Nuclear Safety Assessment Board.
- i. Render determinations in writing if any item considered under 6.5.1.6(a) through (d) above, as appropriate and as provided by 10CFR50.59 or 10CFR50.92, constitutes an unreviewed safety question or requires a significant hazards consideration determination.

Director,  
Unit  
Operations

Senior  
Vice  
President  
CNO-Millstone



3. Review of the unit-specific Fire Protection Program and implementing procedures.

### Authority

#### 6.5.1.7 The PORC shall:

- a. Recommend to the Nuclear Unit Director written approval or disapproval of items considered under 6.5.1.6(a) through (d) above.

- b. Provide immediate written notification to the Senior Vice President Millstone Station, Executive Vice President, Nuclear and the Chairperson of the Nuclear Safety Assessment Board of disagreement between the PORC and the Nuclear Unit Director; however, the Nuclear Unit Director shall have responsibility for resolution of such disagreements pursuant to 6.1.1 above.

### Records

- 6.5.1.8 The PORC shall maintain written minutes of each meeting and copies shall be provided to the Senior Vice President Millstone Station and Chairperson of the Nuclear Safety Assessment Board.

#### 6.5.2 Site Operations Review Committee (SORC)

### Function

- 6.5.2.1 The SORC shall function to advise the Senior Vice President Millstone Station on all matters related to nuclear safety of the entire Millstone Station Site.

- 6.5.2.2 The SORC shall be composed of the:

|              |   |
|--------------|---|
| Chairperson: | Senior Vice President <u>Millstone Station</u>                        |
| Member:      | <u>Unit 1 Director</u> <u>Director, Unit Operations</u>               |
| Member:      | <u>Unit 2 Director</u> <u>Unit Director</u>                           |
| Member:      | <u>Unit 3 Director</u>  |
| Member:      | <u>Unit Services Director</u> <u>Director, Nuclear Services</u>       |
| Member:      | <u>Site Services Director</u> <u>Manager, General Services</u>        |
| Member:      | Designated Member of Unit 1 PORC                                      |
| Member:      | Designated Member of Unit 2 PORC                                      |
| Member:      | Designated Member of Unit 3 PORC                                      |
| Member:      | Designated Member of <u>Quality Services</u> <u>Nuclear Oversight</u> |

The Senior Nuclear Unit Director, in attendance shall be the Vice Chairperson.

### Alternates

- 6.5.2.3 Alternate members shall be appointed in writing by the SORC Chairperson to serve on a temporary basis; however, no more than two alternates shall participate in SORC activities at one time.

## ADMINISTRATIVE CONTROLS

### Meeting Frequency

- 6.5.2.4 The SORC shall meet at least once per six months and as convened by the SORC Chairperson.

### Quorum

- 6.5.2.5 A quorum of the SORC shall consist of the Chairperson or Vice Chairperson and five members including alternates.

### Responsibilities

- 6.5.2.6 The SORC shall be responsible for:

- a. Review of 1) all common site procedures required by Specification 6.8 and changes thereto, 2) all common site programs, required by Specification 6.8 and changes thereto, 3) any other proposed procedures, programs, or changes thereto as determined by the Senior Vice President Millstone Station to affect site nuclear safety. Common site programs and procedures required by Specification 6.8 that are designated for review and approval by the Station Qualified Review Program do not require SORC review. encl  
CND -  
millstone
- b. Review of all proposed changes to Section 6.0, "Administrative Controls", of these Technical Specifications.
- c. Performance of special reviews and investigations and reports as requested by the Chairperson of the Nuclear Safety Assessment Board.
- d. Not used. |
- e. Not used. |
- f. Review of all common site proposed tests and experiments that affect nuclear safety.
- g. Review of all common site proposed changes or modifications to systems or equipment that affect nuclear safety.
- h. Render determinations in writing, or meeting minutes if any item considered under 6.5.2.6(a) through (g) above, as appropriate and as provided by 10CFR50.59 or 10CFR50.92, constitutes an unreviewed safety question or requires a significant hazards consideration determination.
- i. Review of the common site Fire Protection Program and implementing procedures.

Authority

## 6.5.2.7 The SORC shall:

- a. Recommend to the Senior Vice President ~~Millstone Station~~ <sup>and CNO-Millstone</sup> written approval or disapproval, in meeting minutes, of items considered under 6.5.2.6(a) through (g) above.
- b. Provide immediate written notification, or meeting minutes, to the ~~Executive Vice President Nuclear~~ <sup>President and Chief Executive Officer (CEO)</sup> and the Chairperson of the Nuclear Safety Assessment Board of disagreement between the SORC and the Senior Vice President ~~Millstone Station~~ <sup>and CNO-Millstone</sup>; however, the Senior Vice President ~~Millstone Station~~ shall have responsibility for resolution of such disagreements pursuant to 6.1.1 above.

Records

- 6.5.2.8 The SORC shall maintain written minutes of each meeting and copies shall be provided to the Senior Vice President ~~Millstone Station~~ and Chairperson of the Nuclear Safety Assessment Board.

6.5.3 NUCLEAR SAFETY ASSESSMENT BOARD (NSAB)FUNCTION

## 6.5.3.1 The minimum qualifications of NSAB members are as follows:

- a. The Chairperson and NSAB members shall have:
1. An academic degree in an engineering or physical science field, or hold a senior management position, and
  2. A minimum of five years technical experience in their respective field of expertise.
- b. The NSAB shall have experience in and shall function to provide independent oversight review and audit of designated activities in the areas of:
1. Nuclear power plant operations;
  2. Nuclear engineering;
  3. Chemistry and radiochemistry;
  4. Metallurgy;
  5. Instrumentation and control;
  6. Radiological safety;

7. Mechanical and electrical engineering; and

8. Quality assurance practices.

President and CEO

The NSAB serves to advise the ~~Executive Vice President - Nuclear~~ on matters related to nuclear safety and notify the ~~Executive Vice President - Nuclear~~ within 24 hours of a safety significant disagreement between the NSAB and the organization or function being reviewed.

#### COMPOSITION

President and CEO

6.5.3.2 The ~~Executive Vice President - Nuclear~~ shall appoint, in writing, a minimum of seven members to the NSAB and shall designate from this membership, in writing, a Chairperson and a Vice Chairperson. The membership shall function to provide independent review and audit in the areas listed in Specification 6.5.3.1.

#### ALTERNATES

President and CEO

6.5.3.3 All alternate members shall be appointed, in writing, by the ~~Executive Vice President - Nuclear~~; however, no more than two alternates shall participate as members in NSAB activities at any one time.

#### MEETING FREQUENCY

6.5.3.4 The NSAB shall meet at least once per calendar quarter.

#### QUORUM

6.5.3.5 The quorum of the NSAB shall consist of a majority of NSAB members including the Chairperson or Vice Chairperson. No more than a minority of the quorum shall have line responsibility for operation of the same Northeast Utilities' nuclear unit. No more than two alternates shall be appointed as members at any meeting in fulfillment of the quorum requirements.

#### REVIEW RESPONSIBILITIES

6.5.3.6 The NSAB shall be responsible for the review of:

- a. The safety evaluations for changes to procedures, equipment, or systems, and tests or experiments completed under the provisions of 10 CFR 50.59, to verify that such actions did not constitute an unreviewed safety question as defined in 10 CFR 50.59;
- b. Proposed changes to procedures, equipment, or systems that involve an unreviewed safety question as defined in 10 CFR 50.59;
- c. Proposed tests or experiments that involve an unreviewed safety question as defined in 10 CFR 50.59;

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- d. Proposed changes to Technical Specifications and the Operating License;
- e. Violations of applicable codes, regulations, orders, license requirements, or internal procedures having nuclear safety significance;
- f. All Licensee Event Reports required by 10 CFR 50.73;
- g. Indications of significant unanticipated deficiencies in any aspect of design or operation of structures, systems, or components that could affect nuclear safety;
- h. Significant accidental, unplanned, or uncontrolled radioactive releases, including corrective actions to prevent recurrence;
- i. Significant operating abnormalities or deviations from normal and expected performance of equipment that could affect nuclear safety;
- j. The performance of the corrective action program; and *President and CEO*
- k. Audits and audit plans. *Senior Vice President and CNO*

Reports or records of these reviews shall be forwarded to the *Executive* ~~Executive~~ *and* ~~Vice President of Nuclear~~ *within 30 days following completion of the review.*

#### AUDIT PROGRAM RESPONSIBILITIES

6.5.3.7 The NSAB audit program shall be the responsibility of the *Audits and Evaluation* ~~Quality and Assessment Services~~ Department. NSAB audits shall be performed at least once per 24 months in accordance with Nuclear Group Procedures and shall encompass:

- a. The conformance of unit operation to provisions contained within the Technical Specifications and applicable license conditions;
- b. The training and qualifications of the unit staff;
- c. The implementation of all programs required by Specification 6.8;
- d. The Fire Protection Program and implementing procedures.
- e. The fire protection equipment and program implementation utilizing either a qualified offsite license fire protection engineer or an outside independent fire protection consultant.
- f. Actions taken to correct deficiencies occurring in equipment, structures, systems, components, or method of operation that affect nuclear safety; and



- g. Other activities and documents as requested by the Executive Vice President + Nuclear President and CEO

RECORDS

- 6.5.3.8 Written records of reviews and audits shall be maintained. As a minimum these records shall include:
- a. Results of the activities conducted under the provisions of Section 6.5.3;
  - b. Recommended approval or disapproval of items considered under Specifications 6.5.1.6.a through 6.5.1.6.d, and 6.8; and
  - c. Determination as to whether each item considered under Specification 6.5.1.6.a, 6.5.1.6.b, 6.5.1.6.d, and 6.8 constitute an unreviewed safety question as defined in 10 CFR 50.59.

6.5.4 Station Qualified Reviewer ProgramFunction

- 6.5.4.1 The Nuclear Unit Director or Senior Vice President und CNO - Millstone may establish a Station Qualified Reviewer Program whereby required reviews of designated procedures or classes of procedures required by Specifications 6.5.1.6.a and 6.5.2.6.a are performed by Station Qualified Reviewers and approved by designated managers. These reviews are in lieu of reviews by the PORC or SORC. However, procedures which require a 10CFR50.59 evaluation must be reviewed by the PORC or SORC.

Responsibilities

- 6.5.4.2 The Station Qualified Reviewer Program shall:
- a. Provide for the review of designated procedures, programs, and changes thereto by a Qualified Reviewer(s) other than the individual who prepared the procedure, program, or change.
  - b. Provide for cross-disciplinary review of procedures, programs, and changes thereto when organizations other than the preparing organization are affected by the procedure, program, or change.
  - c. Ensure cross-disciplinary reviews are performed by a Qualified Reviewer(s) in affected disciplines, or by other persons designated by cognizant managers or directors as having specific expertise required to assess a particular procedure, program, or change. Cross-disciplinary reviewers may function as a committee.
  - d. Provide for a screening of designated procedures, programs and changes thereto to determine if an evaluation should be performed in accordance with the provisions of 10CFR50.59 to verify that

an unreviewed safety question does not exist. This screening will be performed by personnel trained and qualified in performing 10CFR50.59 evaluations.

- e. Provide for written recommendation by the Qualified Reviewer(s) to the responsible Manager for approval or disapproval of procedures and programs considered under Specification 6.5.1.6.a and 6.5.2.6.a and that the procedure or program was screened by a qualified individual and found not to require a 10CFR50.59 evaluation.

- 6.5.4.3 If the responsible manager determines that a new program, procedure, or change thereto requires a 10CFR50.59 evaluation, that manager will ensure the required evaluation is performed to determine if the new procedure, program, or change involves an unreviewed safety question. The new procedure, program, or change will then be forwarded with the 10CFR50.59 evaluation to PORC/SDRC for review.  
*PORC or SDRC*
- 6.5.4.4 Personnel recommended to the Station Qualified Reviewers shall be designated in writing by the Nuclear Unit Director or Senior Vice President Millstone Station for each procedure, program, or class of procedure or program within the scope of the Station Qualified Reviewer Program.  
*and CND - Millstone* *Director, Unit Operations or Millstone Unit 1 Recovery Officer*
- 6.5.4.5 Temporary procedure changes shall be made in accordance with Specification 6.8.3 with the exception that changes to procedures for which reviews are assigned to Qualified Reviewers will be reviewed and approved as described in Specification 6.5.4.2.

#### Records

- 6.5.4.6 The review of procedures and programs performed under the Station Qualified Reviewer Program shall be documented in accordance with administrative procedures.

#### Training and Qualification

- 6.5.4.7 The training and qualification requirements of personnel designated as a Qualified Reviewer in accordance with the Station Qualified Reviewer Program shall be in accordance with administrative procedures. Qualified reviewers shall have:
  - a. A Bachelors degree in engineering, related science, or technical discipline, and two years of nuclear power plant experience;
  - OR
  - b. Six years of nuclear power plant experience;
  - OR
  - c. An equivalent combination of education and experience as approved by a department manager.

## 6.6 REPORTABLE EVENT ACTION

## 6.6.1 The following actions shall be taken for REPORTABLE EVENTS:

- a. The Commission shall be notified and a report submitted pursuant to the requirement of 10 CFR 50.73.
- b. Each REPORTABLE EVENT shall be reviewed by the PORC and the results of this review shall be submitted to the Chairperson of the NSAB and the ~~Executive Vice President - Nuclear~~

## 6.7 SAFETY LIMIT VIOLATION

Senior Vice President and CNO -  
Millstone

## 6.7.1 The following actions shall be taken in the event a Safety Limit is violated:

- a. The unit shall be placed in at least HOT STANDBY within two hours.
- b. The NRC Operations Center shall be notified by telephone as soon as possible and in all cases within one hour. The ~~Executive Vice President - Nuclear~~ and the Chairperson of the NSAB shall be notified within 24 hours.   
Senior Vice President and CNO - Millstone
- c. A Safety Limit Violation Report shall be prepared. The report shall be reviewed by the PORC. This report shall describe (1) applicable circumstances preceding the violation, (2) effects of the violation upon facility components, systems or structures, and (3) corrective action taken to prevent recurrence.
- d. The Safety Limit Violation Report shall be submitted to the Commission, the Chairperson of the NSAB and the ~~Executive Vice President - Nuclear~~ within 14 days of the violation.
- e. Operation shall not be resumed until authorized by the Commission.

## 6.8 PROCEDURES

## 6.8.1 Written procedures shall be established, implemented and maintained covering the activities referenced below.

- a. The applicable procedures recommended in Appendix "A" of Regulatory Guide 1.33, February, 1978.
- b. Refueling operations.
- c. Surveillance activities of safety related equipment.
- d. Not used.
- e. Not used.
- f. Fire Protection Program Implementation.

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- g. Quality Control for effluent monitoring using the guidance in Regulatory Guide 1.21 Rev. 1, June 1974.
- h. Radiological Effluent Monitoring and Offsite Dose Calculation Manual (REMOCM) implementation, except for Section I.E., Radiological Environmental Monitoring.

## 6.B.2

Director,  
Unit Operations  
or Millstone Unit 2  
Recovery officer

- a. ~~The Nuclear Unit Director~~ or Senior Vice President ~~- Millstone Station~~ may designate specific procedures and programs, or classes of procedures and programs to be reviewed in accordance with the Station Qualified Reviewer Program in lieu of review by the ~~PORC/SORC~~. The review per the Qualified Reviewer Program shall be in accordance with Specification 6.B.4.

and CNO - millstone

Director, Unit Operations

PORC or SORC

- b. Procedures and programs listed in Specification 6.B.1, and changes thereto, shall be approved by the ~~Nuclear Unit Director~~ or Senior Vice President ~~- Millstone Station~~ or by cognizant Manager or Directors who are designated as the Approval Authority by the ~~Nuclear Unit Director~~ or Senior Vice President ~~- Millstone Station~~, as specified in administrative procedures. The Approval Authority for each procedure and program or class of procedure and program shall be specified in administrative procedures.

and CNO - millstone

PORC or SORC

Director,  
Unit  
Operations

- c. Each procedure of Specification 6.B.1, and changes thereto, shall be reviewed by the ~~PORC/SORC~~ and shall be approved by the ~~Nuclear Unit Director~~ or Senior Vice President ~~- Millstone Station~~ or be reviewed and approved in accordance with the Station Qualified Reviewer Program, prior to implementation. Each procedure of Specification 6.B.1 shall be reviewed periodically as set forth in administrative procedures.

## 6.B.3

Temporary changes to procedures of 6.B.1 above may be made provided:

- a. The intent of original procedure is not altered.
- b. The change is approved by two members of the plant management staff, at least one of whom holds a Senior Reactor Operator's License on the unit affected.

PORC or SORC

Director,  
Unit  
Operations

- c. The change is documented, reviewed by the ~~PORC/SORC~~ or the Station Qualified Reviewer Program, as applicable, and approved by the ~~Station Qualified Reviewer Program Manager~~, or the ~~Nuclear Unit Director~~ or Senior Vice President ~~- Millstone Station~~ within 14 days of implementation.

Senior Vice President and CNO - Millstone

Station Qualified Reviewer Program Department Manager

## 6.B.4

Written procedures shall be established, implemented and maintained covering Section I.E, Radiological Environmental Monitoring, of the REMOCM.



**6.15 RADIOLOGICAL EFFLUENT MONITORING AND OFFSITE DOSE CALCULATION MANUAL (REMODCM)**

Section I, Radiological Effluents Monitoring Manual (REMM), shall outline the sampling and analysis programs to determine the concentration of radioactive materials released offsite as well as dose commitments to individuals in those exposure pathways and for those radionuclides released as a result of station operation. It shall also specify operating guidelines for radioactive waste treatment systems and report content.

Section II, the Offsite Dose Calculation Manual (ODCM), shall describe the methodology and parameters to be used in the calculation of offsite doses due to radioactive gaseous and liquid effluents and in the calculations of gaseous and liquid effluent monitoring instrumentation alarm/trip setpoints consistent with the applicable LCO's contained in these technical specifications.

**Changes to the REMODCM:**

- a. Shall be documented and records of reviews performed shall be retained as required by Specification 6.10.2.m. This documentation shall contain:
  - 1) Sufficient information to support the change together with the appropriate analyses or evaluations justifying the change(s), and
  - 2) A determination that the change will maintain the level of radioactive effluent control required by 10 CFR 20.106, 40 CFR Part 190, 10 CFR 50.36a, and Appendix I to 10 CFR Part 50 and not adversely impact the accuracy or reliability of effluent, dose, or setpoint calculations.
- b. Shall become effective after review and acceptance by SORC and the approval of the Senior Vice President Millstone Station  
and CWO - Millstone
- c. Shall be submitted to the Commission in the form of a complete, legible copy of the entire REMM or ODCM, as appropriate, as a part of or concurrent with the Annual Radioactive Effluent Report for the period of the report in which any change was made. Each change shall be identified by markings in the margin of the affected pages, clearly indicating the area of the page that was changed, and shall indicate the date (e.g., month/year) the change was implemented.



6.1 RESPONSIBILITY*and Chief Nuclear Officer (CNO) - Millstone*

6.1.1 The Senior Vice President ~~Millstone Station~~ shall be responsible for overall operation of the Millstone Station Site while the ~~Nuclear Unit Director~~ shall be responsible for operation of the unit. The Senior Vice President ~~Millstone Station and Nuclear Unit Director~~ shall each delegate in writing the succession to these responsibilities during their absence.

6.2 ORGANIZATION*and CNO - Millstone, Millstone Unit 2 Recovery Officer and Unit 2**Millstone Unit 2 Recovery Officer shall be responsible for overall unit safe operation and the Unit 2*6.2.1 OFFSITE AND ONSITE ORGANIZATIONS

Onsite and offsite organizations shall be established for unit operation and corporate management, respectively. The onsite and offsite organizations shall include the positions for activities affecting the safety of the nuclear power plant.

- a. Lines of authority, responsibility, and communication shall be established and defined for the higher management levels through intermediate levels to and including all operating organization positions. These relationships shall be documented and updated, as appropriate, in the form of organization charts, functional descriptions of departmental responsibilities and relationships, and job descriptions for key personnel positions, or in equivalent forms of documentation. These requirements shall be documented in the Quality Assurance Topical Report.
- b. The ~~Senior Vice President - Millstone Station~~ shall be responsible for overall unit safe operation and shall have control over those onsite activities necessary for safe operation and maintenance of the plant.
- c. The ~~Executive Vice President - Nuclear~~ shall have corporate responsibility for overall plant nuclear safety and shall take any measures needed to ensure acceptable performance of the staff in operation, maintaining, and providing technical support to the plant to ensure nuclear safety.
- d. The individuals who train the operating staff and those who carry out health physics and quality assurance functions may report to the appropriate onsite manager; however, they shall have sufficient organizational freedom to ensure their independence from operating pressures.

*Millstone Unit 2 Recovery Officer**Senior Vice President and CNO - Millstone*6.2.2 FACILITY STAFF

- a. Each on duty shift shall be composed of at least the minimum shift crew composition shown in Table 6.2-1.
- b. At least one licensed Operator shall be in the control room when fuel is in the reactor.
- c. At least two licensed Operators shall be present in the control room during reactor start-up, scheduled reactor shutdown and during recovery from reactor trips.

6.4 TRAININGand CNO-Millstone

A retraining and replacement training program for the facility staff shall be maintained under the direction of the Senior Vice President ~~Millstone Station~~ and shall meet or exceed the requirements and recommendations of Section 5.5 of ANSI N18.1-1971 and 10 CFR Part 55.59. The Director-Nuclear Training has the overall responsibility for the implementation of the Training Program.

6.5 REVIEW AND AUDIT6.5.1 Plant Operations Review Committee (PORC)FunctionUnit 2

6.5.1.1 The PORC shall function to advise the ~~Nuclear~~ Unit Director on all matters related to nuclear safety.

Composition

6.5.1.2 The PORC shall be composed of nine to eleven members. Members shall collectively have experience and expertise in the following areas:

Plant Operations  
Engineering  
Reactor Engineering  
Maintenance  
Instrumentation and Controls  
Health Physics  
Chemistry  
Work Planning ~~and Control~~  
Quality ~~Services~~ Assurance

The minimum qualifications of PORC members shall be that all members have an academic degree in an engineering or physical science field, or hold a management position, and have a minimum of five years technical experience in their respective field of expertise. The members of PORC shall be appointed in writing by the Nuclear Unit Director. The Chairperson and alternate Chairperson of the PORC shall be drawn from the PORC members and be appointed in writing by the Nuclear Unit Director.

Unit 2Alternates

6.5.1.3 Alternate members shall be appointed in writing by the PORC Chairperson to serve on a temporary basis; however, no more than two alternates shall participate in PORC activities at any one time.

January 17, 1996

Meeting Frequency

- 6.5.1.4 The PORC shall meet at least once per calendar month and as convened by the PORC Chairperson.

Quorum

- 6.5.1.5 A quorum of the PORC shall consist of the Chairperson, or Vice Chairperson, ~~or Senior Vice President — Millstone Station~~ and four members including alternates.

Responsibilities

- 6.5.1.6 The PORC shall be responsible for:

- Unit 2*
- a. Review of 1) all procedures, except common site procedures, required by Specification 6.8 and changes thereto, 2) all programs, except common site programs, required by Specification 6.8 and changes thereto, 3) any other proposed procedures, programs, or changes thereto as determined by the ~~Nuclear~~ Unit Director to affect nuclear safety. Procedures and programs required by Specification 6.8 that are designated for review and approval by the Station Qualified Reviewer Program do not require PORC review.
  - b. Review of all proposed tests and experiments that affect nuclear safety.
  - c. Review of all proposed changes to Sections 1.0 - 5.0 of these Technical Specifications.
  - d. Review of all proposed changes or modifications to plant systems or equipment that affect nuclear safety.
  - e. Investigation of all violations of the Technical Specifications and preparation and forwarding of a report covering evaluation and recommendations to prevent recurrence to the ~~Executive Vice President Nuclear~~, and to the Chairperson of the Nuclear Safety Assessment Board. *Senior Vice President and CNO-Millstone*
  - f. Review of all REPORTABLE EVENTS.
  - g. Review of facility operations to detect potential safety hazards.
  - h. Performance of special reviews and investigations and reports thereon as requested by the Chairperson of the Nuclear Safety Assessment Board.
  - i. Render determinations in writing if any item considered under 6.5.1.6(a) through (d) above, as appropriate and as provided by 10CFR50.59 or 10CFR50.92, constitutes an unreviewed safety question or requires a significant hazards consideration determination.
  - j. Review of the fire protection program and implementing procedure.

July 16, 1996

ADMINISTRATIVE CONTROLSAuthority

6.5.1.7 The PORC shall:

- Unit 2*
- Recommend to the ~~Nuclear~~ Unit Director written approval or disapproval of items considered under 6.5.1.6(a) through (d) above. *and CNO-Millstone, Millstone Unit 2 Recovery Officer*
  - Provide immediate written notification to the Senior Vice President, ~~Millstone Station, Executive Vice President Nuclear~~ and the Chairperson of the Nuclear Safety Assessment Board of disagreement between the PORC and the ~~Nuclear~~ Unit Director; however, the ~~Nuclear~~ Unit Director shall have responsibility for resolution of such disagreements pursuant to 6.1.1 above. *Unit 2*

Records

6.5.1.8 The PORC shall maintain written minutes of each meeting and copies shall be provided to the Senior Vice President, ~~Millstone Station,~~ and Chairperson of the Nuclear Safety Assessment Board.

6.5.2 Site Operations Review Committee (SORC)Function

6.5.2.1 The SORC shall function to advise the Senior Vice President, ~~Millstone Station~~ on all matters related to nuclear safety of the entire Millstone Station Site. *and CNO-Millstone*

Composition

6.5.2.2 The SORC shall be composed of the:

*and CNO-Millstone*

|              |  |
|--------------|--|
| Chairperson: | Senior Vice President <del>Millstone Station</del>                 |
| Member:      | <del>Unit 1 Director</del> Director, Unit Operations               |
| Member:      | Unit 2 Director <i>Unit</i>  |
| Member:      | Unit 3 Director  |
| Member:      | <del>Unit Services Director</del> Director, Nuclear Services       |
| Member:      | <del>Site Services Director</del> Manager, General Services        |
| Member:      | Designated Member of Unit 1 PORC                                   |
| Member:      | Designated Member of Unit 2 PORC                                   |
| Member:      | Designated Member of Unit 3 PORC                                   |
| Member:      | Designated Member of <del>Quality Services</del> Nuclear Oversight |

The senior ~~Nuclear~~ Unit Director, in attendance shall be the Vice-Chairperson. *Director, Unit Operations*

Alternates:

6.5.2.3 Alternate members shall be appointed in writing by the SORC Chairperson to serve on a temporary basis; however, no more than two alternates shall participate in SORC activities at one time.

April 24, 1996

ADMINISTRATIVE CONTROLSMeeting Frequency

- 6.5.2.4 The SORC shall meet at least once per six months and as convened by the SORC Chairperson.

Quorum

- 6.5.2.5 A quorum of the SORC shall consist of the Chairperson or Vice Chairperson and five members including alternates.

Responsibilities

- 6.5.2.6 The SORC shall be responsible for:

- a. Review of 1) all common site procedures required by Specification 6.8 and changes thereto, 2) all common site programs, required by Specification 6.8 and changes thereto, 3) any other proposed procedures, programs, or changes thereto as determined by the Senior Vice President ~~Millstone Station~~ to affect site nuclear safety. Common site programs and procedures required by Specification 6.8 that are designated for review and approval by the Station Qualified Reviewer Program do not require SORC review. *and CNO-Millstone*
- b. Review of all proposed changes to Section 6.0 "Administrative Controls" of these Technical Specifications.
- c. Performance of special reviews and investigations and reports as requested by the Chairperson of the Nuclear Safety Assessment Board.
- d. Not used.
- e. Not used.
- f. Review of all common site proposed tests and experiments that affect nuclear safety.
- g. Review of all common site proposed changes or modifications to systems or equipment that affect nuclear safety.
- h. Render determinations in writing or meeting minutes if any item considered under 6.5.2.6(a) through (g) above, as appropriate and as provided by 10CFR50.59 or 10CFR50.92, constitutes an unreviewed safety question or requires a significant hazards consideration determination.
- i. Review of the common site fire protection program and implementing procedures.



January 17, 1990Authority

## 6.5.2.7 The SORC shall:

- a. Recommend to the Senior Vice President ~~Millstone Station~~ written approval or disapproval in meeting minutes of items considered under 6.5.2.6(a) through (g) above. *and CNO-Millstone*
- b. Provide immediate written notification or meeting minutes to the ~~Executive Vice President-Nuclear~~ and the Chairperson of the Nuclear Safety Assessment Board of disagreement between the SORC and the Senior Vice President ~~Millstone Station~~; however, the Senior Vice President ~~Millstone Station~~ shall have responsibility for resolution of such disagreements pursuant to 6.1.1 above. *President and Chief Executive Officer (CEO)* *and CNO-Millstone*

Records

- 6.5.2.8 The SORC shall maintain written minutes of each meeting and copies shall be provided to the Senior Vice President ~~Millstone Station~~ and Chairperson of the Nuclear Safety Assessment Board. *and CNO-Millstone*

6.5.3 NUCLEAR SAFETY ASSESSMENT BOARD (NSAB)FUNCTION

## 6.5.3.1 The minimum qualifications of NSAB members are as follows:

- a. The Chairperson and NSAB members shall have:
1. An academic degree in an engineering or physical science field, or hold a senior management position, and
  2. A minimum of five years technical experience in their respective field of expertise.
- b. The NSAB shall have experience in and shall function to provide independent oversight review and audit of designated activities in the areas of:
1. Nuclear power plant operations;
  2. Nuclear engineering;
  3. Chemistry and radiochemistry;
  4. Metallurgy;
  5. Instrumentation and control;
  6. Radiological safety;
  7. Mechanical and electrical engineering; and
  8. Quality assurance practices.

The NSAB serves to advise the ~~Executive Vice President - Nuclear~~ on matters related to nuclear safety and notify the ~~Executive Vice President - Nuclear~~ within 24 hours of a safety significant disagreement between the NSAB and the organization or function being reviewed.

*President and CEO*

#### COMPOSITION

6.5.3.2 The ~~Executive Vice President - Nuclear~~ shall appoint, in writing, a minimum of seven members to the NSAB and shall designate from this membership, in writing, a Chairperson and a Vice Chairperson. The membership shall function to provide independent review and audit in the areas listed in Specification 6.5.3.1.

#### ALTERNATES

6.5.3.3 All alternate members shall be appointed, in writing, by the ~~Executive Vice President - Nuclear~~; however, no more than two alternates shall participate as members in NSAB activities at any one time.

*President and CEO*

#### MEETING FREQUENCY

6.5.3.4 The NSAB shall meet at least once per calendar quarter.

#### QUORUM

6.5.3.5 The quorum of the NSAB shall consist of a majority of NSAB members including the Chairperson or Vice Chairperson. No more than a minority of the quorum shall have line responsibility for operation of the same Northeast Utilities' nuclear unit. No more than two alternates shall be appointed as members at any meeting in fulfillment of the quorum requirements.

#### REVIEW RESPONSIBILITIES

6.5.3.6 The NSAB shall be responsible for the review of:

- a. The safety evaluations for changes to procedures, equipment, or systems, and tests or experiments completed under the provisions of 10 CFR 50.59, to verify that such actions did not constitute an unreviewed safety question as defined in 10 CFR 50.59;
- b. Proposed changes to procedures, equipment, or systems that involve an unreviewed safety question as defined in 10 CFR 50.59;
- c. Proposed tests or experiments that involve an unreviewed safety question as defined in 10 CFR 50.59;
- d. Proposed changes to Technical Specifications and the Operating License;

February 14, 1995

ADMINISTRATIVE CONTROLS

- e. Violations of applicable codes, regulations, orders, license requirements, or internal procedures having nuclear safety significance;
- f. All Licensee Event Reports required by 10 CFR 50.73;
- g. Indications of significant unanticipated deficiencies in any aspect of design or operation of structures, systems, or components that could affect nuclear safety;
- h. Significant accidental, unplanned, or uncontrolled radioactive releases, including corrective actions to prevent recurrence;
- i. Significant operating abnormalities or deviations from normal and expected performance of equipment that could affect nuclear safety;
- j. The performance of the corrective action program; and
- k. Audits and audit plans.

Reports or records of these reviews shall be forwarded to the ~~Executive Vice President - Nuclear~~ within 30 days following completion of the review.

AUDIT PROGRAM RESPONSIBILITIES

6.5.3.7 The NSAB audit program shall be the responsibility of the ~~Quality and Assessment Service~~ Department. NSAB audits shall be performed at least once per 24 months in accordance with Nuclear Group Procedures and shall encompass:

- a. The conformance of unit operation to provisions contained within the Technical Specifications and applicable license conditions;
- b. The training and qualifications of the unit staff;
- c. The implementation of all programs required by Specification 6.8;
- d. The Fire Protection Program and implementing procedures.
- e. The fire protection equipment and program implementation utilizing either a qualified offsite license fire protection engineer or an outside independent fire protection consultant.
- f. Actions taken to correct deficiencies occurring in equipment, structures, systems, components, or method of operation that affect nuclear safety; and
- g. Other activities and documents as requested by the ~~Executive Vice President - Nuclear~~.

RECORDS

- 6.5.3.8 Written records of reviews and audits shall be maintained. As a minimum these records shall include:
- Results of the activities conducted under the provisions of Section 6.5.3;
  - Recommended approval or disapproval of items considered under Specifications 6.5.1.6.a through 6.5.1.6.d, and 6.8; and
  - Determination as to whether each item considered under Specification 6.5.1.6.a, 6.5.1.6.b, 6.5.1.6.d, and 6.8 constitute an unreviewed safety question as defined in 10 CFR 50.59.

6.5.4 Station Qualified Reviewer Program

Function Unit 2 Or Millstone Unit 2 Recovery Officer and CNO-Millstone

- 6.5.4.1 The ~~Nuclear Unit Director~~ or Senior Vice President ~~Millstone Station~~ may establish a Station Qualified Reviewer Program whereby required reviews of designated procedures or classes of procedures required by Specifications 6.5.1.6.a and 6.5.2.6.a are performed by Station Qualified Reviewers and approved by designated managers. These reviews are in lieu of reviews by the PORC or SORC. However, procedures which require a 10CFR50.59 evaluation must be reviewed by the PORC or SORC.

Responsibilities

6.5.4.2 The Station Qualified Reviewer Program shall:

- Provide for the review of designated procedures, programs, and changes thereto by a Qualified Reviewer(s) other than the individual who prepared the procedure, program, or change.
- Provide for cross-disciplinary review of procedures, programs, and changes thereto when organizations other than the preparing organization are affected by the procedure, program, or change.
- Ensure cross-disciplinary reviews are performed by a Qualified Reviewer(s) in affected disciplines, or by other persons designated by cognizant Managers or Directors as having specific expertise required to assess a particular procedure, program, or change. Cross-disciplinary reviewers may function as a committee.
- Provide for a screening of designated procedures, programs and changes thereto to determine if an evaluation should be performed in accordance with the provisions of 10CFR50.59 to verify that an unreviewed safety question does not exist. This screening will be performed by personnel trained and qualified in performing 10CFR50.59 evaluations.

- e. Provide for written recommendation by the Qualified Reviewer(s) to the responsible Manager for approval or disapproval of procedures and programs considered under Specification 6.5.1.6.a and 6.5.2.6.a and that the procedure or program was screened by a qualified individual and found not to require a 10 CFR 50.59 evaluation.

6.5.4.3 If the responsible manager determines that a new program, procedure, or change thereto requires a 10 CFR 50.59 evaluation, that Manager will ensure the required evaluation is performed to determine if the new procedure, program, or change involves an unreviewed safety question. The new procedure, program, or change will then be forwarded with the 10 CFR 50.59 evaluation to PORC/SORC for review.

6.5.4.4 Personnel recommended to be Unit 2 Station Qualified Reviewers shall be designated in writing by the OR Nuclear Unit Director or Senior Vice President ~~Millstone Station~~ for each procedure, program, or class of procedure or program within the scope of the Station Qualified Reviewer Program. and CPO-Millstone or Millstone Unit 2 Recovery Officer

6.5.4.5 Temporary procedure changes shall be made in accordance with Specification 6.8.3 with the exception that changes to procedures for which reviews are assigned to Qualified Reviewers will be reviewed and approved as described in Specification 6.5.4.2.

#### Records

6.5.4.6 The review of procedures and programs performed under the Station Qualified Reviewer Program shall be documented in accordance with administrative procedures.

#### Training and Qualification

6.5.4.7 The training and qualification requirements of personnel designated as a Qualified Reviewer in accordance with the Station Qualified Reviewer Program shall be in accordance with administrative procedures. Qualified reviewers shall have:

- a. A Bachelors degree in engineering, related science, or technical discipline, and two years of nuclear power plant experience;

OR

- b. Six years of nuclear power plant experience;

OR

- c. An equivalent combination of education and experience as approved by a Department Manager.



ADMINISTRATIVE CONTROLS6.6 REPORTABLE EVENT ACTION

## 6.6.1 The following actions shall be taken for REPORTABLE EVENTS:

- a. The Commission shall be notified and a report submitted pursuant to the requirements of Section 50.73 to 10 CFR Part 50, and
- b. Each REPORTABLE EVENT shall be reviewed by the PORC and the results of this review shall be submitted to the Chairperson of the NSAB and the ~~Executive Vice President-Nuclear~~.

6.7 SAFETY LIMIT VIOLATION*Senior Vice President  
and CND-Millstone*

## 6.7.1 The following actions shall be taken in the event a Safety Limit is violated:

- a. The unit shall be placed in at least HOT STANDBY within one hour.
- b. The NRC Operations Center shall be notified by telephone as soon as possible and in all cases within 1 hour. The ~~Executive Vice President-Nuclear~~ and the Chairperson of the NSAB shall be notified within 24 hours; *Senior Vice President  
and CND-Millstone*
- c. A Safety Limit Violation Report shall be prepared. The report shall be reviewed by the PORC. This report shall describe:  
(1) applicable circumstances preceding the violation,  
(2) effects of the violation upon facility components, systems, or structures, and (3) corrective action taken to prevent recurrence;
- d. The Safety Limit Violation Report shall be submitted to the Commission, the Chairperson of the NSAB, and the ~~Executive Vice President-Nuclear~~ within 14 days of the violations.
- e. Operation shall not be resumed until authorized by the Commission.

*Senior Vice President  
and CND-Millstone*6.8 PROCEDURES

## 6.8.1 Written procedures shall be established, implemented and maintained covering the activities referenced below:

- a. The applicable procedures recommended in Appendix "A" of Regulatory Guide 1.33, February, 1978.
- b. Refueling operations.
- c. Surveillance activities of safety related equipment.
- d. Not used.
- e. Not used.

- f. Fire Protection Program implementation.
- g. Quality Control for effluent monitoring using the guidance in Regulatory Guide 1.21 Rev. 1, June 1974.
- h. Radiological Effluent Monitoring and Offsite Dose Calculation Manual (REMOCM) implementation, except for Section I.E., Radiological Environmental Monitoring.

6.8.2

- a. The ~~Nuclear~~ Unit Director or Senior Vice President ~~Millstone Station~~ may designate specific procedures and programs, or classes of procedures and programs to be reviewed in accordance with the Station Qualified Reviewer Program in lieu of review by the PORC ~~SORC~~. The review per the Qualified Reviewer Program shall be in accordance with Specification 6.5.4.

Unit 2

Or Millstone Unit 2  
Regulatory Officerand  
CWO-Millstone

Or

- b. Procedures and programs listed in Specification 6.8.1, and changes thereto, shall be approved by the ~~Nuclear~~ Unit Director or Senior Vice President ~~Millstone Station~~ or by cognizant Manager or Directors who are designated as the Approval Authority by the ~~Nuclear~~ Unit Director or Senior Vice President ~~Millstone Station~~, as specified in administrative procedures. The Approval Authority for each procedure and program or class of procedure and program shall be specified in administrative procedures.

and CWO-  
Millstoneand  
CWO-  
Millstone

Unit 2

- c. Each procedure of Specification 6.8.1, and changes thereto, shall be reviewed by the PORC ~~SORC~~ and shall be approved by the ~~Nuclear~~ Director or Senior Vice President ~~Millstone Station~~, or be reviewed and approved in accordance with the Station Qualified Reviewer Program, prior to implementation. Each procedure of Specification 6.8.1 shall be reviewed periodically as set forth in administrative procedures.

Or

Unit 2 Unit

and CWO-Millstone

6.8.3 Temporary changes to procedures of 6.8.1 above may be made provided:

- a. The intent of original procedure is not altered.
- b. The change is approved by two members of the plant management staff, at least one of whom holds a Senior Reactor Operator's License on the unit affected.
- c. The change is documented, reviewed by the PORC ~~SORC~~, or the Station Qualified Reviewer Program as applicable, and approved by the ~~Station Qualified Reviewer Program Manager or Nuclear Unit Director/Senior Vice President, Millstone Station~~ within 14 days of implementation.

Or

Unit 2

Or

and CWO-Millstone

6.8.4

Written procedures shall be established, implemented and maintained covering Section I.E, Radiological Environmental Monitoring, of the REMOCM.

Or Station Qualified  
Reviewer Program  
Department Manager

ADMINISTRATIVE CONTROLS6.15 RADIOLOGICAL EFFLUENT MONITORING AND OFFSITE DOSE CALCULATION MANUAL (REMODCM)

Section I, Radiological Effluents Monitoring Manual (REMM), shall outline the sampling and analysis programs to determine the concentration of radioactive materials released offsite as well as dose commitments to individuals in those exposure pathways and for those radionuclides released as a result of station operation. It shall also specify operating guidelines for radioactive waste treatment systems and report content.

Section II, the Offsite Dose Calculation Manual (ODCM), shall describe the methodology and parameters to be used in the calculation of offsite doses due to radioactive gaseous and liquid effluents and in the calculations of gaseous and liquid effluent monitoring instrumentation Alarm/Trip Setpoints consistent with the applicable LCO's contained in these Technical Specifications.

Changes to the REMODCM:

- a. Shall be documented and records of reviews performed shall be retained as required by Specification 6.10.2m. This documentation shall contain:
  - 1) Sufficient information to support the change together with the appropriate analyses or evaluations justifying the change(s), and
  - 2) A determination that the change will maintain the level of radioactive effluent control required by 10 CFR 20.106, 40 CFR Part 190, 10 CFR 50.36a, and Appendix I to 10 CFR Part 50 and not adversely impact the accuracy or reliability of effluent, dose, or setpoint calculations.
- b. Shall become effective after review and acceptance by SORC and the approval of the Senior Vice President, Millstone Station  
and CNU-Millstone
- c. Shall be submitted to the Commission in the form of a complete, legible copy of the entire REMM or ODCM, as appropriate, as a part of or concurrent with the Annual Radioactive Effluent Report for the period of the report in which any change was made. Each change shall be identified by markings in the margin of the affected pages, clearly indicating the area of the page that was changed, and shall indicate the date (e.g., month/year) the change was implemented.

## ADMINISTRATIVE CONTROLS

### 6.1 RESPONSIBILITY

6.1.1 The Senior Vice President - Millstone Station shall be responsible for overall operation of the Millstone Station site while the Nuclear Unit Director shall be responsible for operation of the unit. The Senior Vice President - Millstone Station and Nuclear Unit Director shall each delegate in writing the succession to these responsibilities during their absence.

### 6.2 ORGANIZATION

#### 6.2.1 OFFSITE AND ONSITE ORGANIZATIONS

Onsite and offsite organizations shall be established for unit operation and corporate management, respectively. The onsite and offsite organizations shall include the positions for activities affecting the safety of the nuclear power plant.

- a. Lines of authority, responsibility, and communication shall be established and defined for the highest management levels through intermediate levels to and including all operating organization positions. These relationships shall be documented and updated, as appropriate, in the form of organization charts, functional descriptions of departmental responsibilities and relationships, and job descriptions for key personnel positions, or in equivalent forms of documentation. These requirements shall be documented in the Quality Assurance Topical Report.
- b. The Senior Vice President - Millstone Station shall be responsible for overall unit safe operation and shall have control over those onsite activities necessary for safe operation and maintenance of the plant.
- c. The Executive Vice President Nuclear shall have corporate responsibility for overall plant nuclear safety and shall take any measures needed to ensure acceptable performance of the staff in operating, maintaining, and providing technical support to the plant to ensure nuclear safety.
- d. The individuals who train the operating staff and those who carry out health physics and quality assurance functions may report to the appropriate onsite manager; however, they shall have sufficient organizational freedom to ensure their independence from operating pressures.

#### 6.2.2 FACILITY STAFF

- a. Each on-duty shift shall be composed of at least the minimum shift crew composition shown in Table 6.2-1;



6.2.3 INDEPENDENT SAFETY ENGINEERING GROUP (ISEG)FUNCTION

6.2.3.1 The ISEG shall include, as part of its function, examination of unit operating characteristics, NRC issuances, industry advisories, Licensee Event Reports, and other sources of unit design and operating experience information, including units of similar design, which may indicate areas for improving unit safety. The ISEG shall make detailed recommendations for revised procedures, equipment modifications, maintenance activities, operations activities, or other means of improving unit safety to appropriate station/corporation management.

COMPOSITION

6.2.3.2 The ISEG shall be composed of at least four full-time personnel located on site to perform the functions described in 6.2.3.1 for Millstone Unit 3. Each person shall have either:

- (1) A bachelor's degree in engineering or related science and at least 2 years of professional level experience in his field, at least 1 year of which experience shall be in the nuclear field, or,
- (2) At least 10 years of professional level experience in his field, at least 5 years of which experience shall be in the nuclear field.

A minimum of 50% of these personnel shall have the qualifications specified in (1) above.

RESPONSIBILITIES

6.2.3.3 The ISEG shall be responsible for maintaining surveillance of unit activities to provide independent verification\* that these activities are performed correctly and that human errors are reduced as much as practical.

RECORDS

6.2.3.4 Records of activities performed by the ISEG shall be prepared and maintained, and quarterly reports of completed safety evaluations will be made to the Vice President-Nuclear Operations Services.

6.2.4 SHIFT TECHNICAL ADVISOROVERSIGHT

6.2.4.1 The Shift Technical Advisor shall provide advisory technical support to the Shift Supervisor in the areas of thermal hydraulics, reactor engineering, and plant analysis with regard to the safe operation of the unit. The Shift Technical Advisor shall have a bachelor's degree or equivalent in a scientific or engineering discipline and shall have received specific training in the response and analysis of the unit for transients and accidents, and in unit design and layout, including the capabilities of instrumentation and controls in the control room.

\*Not responsible for sign-off function.



## ADMINISTRATIVE CONTROLS

### 6.3 FACILITY STAFF QUALIFICATIONS

6.3.1 Each member of the facility staff shall meet or exceed the minimum qualifications of ANSI N18.1-1971 for comparable positions, except for:

- a. If the Operations Manager does not hold a senior reactor operator license for Millstone Unit No. 3, then the Operations Manager shall have held a senior reactor operator license at a pressurized water reactor, and the Assistant Operations Manager shall hold a senior reactor operator license for Millstone Unit No. 3.
- b. The Health Physics Manager shall meet or exceed the qualifications of Regulatory Guide 1.8, Revision 1, May 1977.

### 6.4 TRAINING

6.4.1 A retraining and replacement training program for the facility staff shall be maintained under the direction of the Senior Vice President <sup>AND CNO</sup> Millstone ~~Station~~ and shall meet or exceed the requirements and recommendations of Section 5.5 of ANSI N18.1-1971 and 10 CFR Part 55.59. The Director-Nuclear Training has the overall responsibility for the implementation of the Training Program.

6.4.2 Deleted.

### 6.5 REVIEW AND AUDIT

#### 6.5.1 PLANT OPERATIONS REVIEW COMMITTEE (PORC)

##### FUNCTION

6.5.1.1 The PORC shall function to advise the <sup>UNIT 3</sup> ~~Nuclear~~ Unit Director on all matters related to nuclear safety.

##### COMPOSITION

6.5.1.2 The PORC shall be composed of nine to eleven members. Members shall collectively have experience and expertise in the following areas:

Plant Operations  
Engineering  
Reactor Engineering  
Maintenance  
Instrumentation and Controls  
Health Physics  
Chemistry  
Work Planning and Control  
Quality ~~Service~~ <sup>ASSURANCE</sup>

The minimum qualifications of PORC members shall be that all members have an academic degree in an engineering or physical science field, or hold a management position, and have a minimum of five years technical experience in their respective field of expertise. The members of PORC shall be appointed in writing by the ~~Nuclear~~ Unit Director. The Chairperson and alternate Chairperson of the PORC shall be drawn from the PORC members and be appointed in writing by the ~~Nuclear~~ Unit Director.

ALTERNATES

6.5.1.3 All alternate members shall be appointed in writing by the PORC Chairperson to serve on a temporary basis; however, no more than two alternates shall participate as voting members in PORC activities at any one time.

MEETING FREQUENCY

6.5.1.4 The PORC shall meet at least once per calendar month and as convened by the PORC Chairperson.

QUORUM

6.5.1.5 The quorum of the PORC shall consist of the Chairperson or Vice Chairperson or Senior Vice President - Millstone Station and four members including alternates.

RESPONSIBILITIES

6.5.1.6 The PORC shall be responsible for:

- a. Review of: (1) all procedures, except common site procedures, required by Specification 6.8 and changes thereto, 2) all programs, except common site programs required by Specification 6.8 and changes thereto, and (3) any other proposed procedures, programs or changes thereto as determined by the Nuclear Unit Director to affect nuclear safety. Procedures and programs required by Specification 6.8 that are designated for review and approval by the Station Qualified Reviewer Program do not require PORC review.
- b. Review of all proposed tests and experiments that affect nuclear safety;
- c. Review of all proposed changes to Sections 1.0-5.0 of these Technical Specifications;
- d. Review of all proposed changes or modifications to plant systems or equipment that affect nuclear safety;
- e. Investigation of all violations of the Technical Specifications, including the preparation and forwarding of reports covering evaluation and recommendations to prevent recurrence, to the Executive Vice President - Nuclear and to the Chairperson of the Nuclear Safety Assessment Board;
- f. Review of all REPORTABLE EVENTS;
- g. Review of facility operations to detect potential safety hazards;
- h. Performance of special reviews, investigations, or analyses and reports thereon as requested by the Chairperson of the Nuclear Safety Assessment Board or the Senior Vice President - Millstone Station; and
- i. Render determinations in writing if any item considered under Specification 6.5.1.6a. through d. above, as appropriate and as provided by 10CFR50.59 or 10CFR50.92, constitutes an unreviewed safety question, or requires a significant hazards consideration determination.

UNIT 3

SENIOR VICE PRESIDENT AND CNO  
- MILLSTONE AND VICE PRESIDENT  
- MILLSTONE UNIT 3

AND  
CNO

OR VICE  
PRESIDENT -  
MILLSTONE  
UNIT 3

July 16, 1996

## ADMINISTRATIVE CONTROLS

- j. Review of Unit Turbine Overspeed Protection Maintenance and Testing Program and revision thereto.
- k. Review of the Fire Protection Program and implementing procedures.

### AUTHORITY

6.5.1.7 The PORC shall:

- a. Recommend to the ~~Nuclear~~ Unit Director written approval or disapproval of items considered under Specification 6.5.1.6a. through d. above; and
- b. Provide written notification to the Senior Vice President - Millstone ~~Station~~, ~~Executive Vice President Nuclear~~ and the Chairperson of the Nuclear Safety Assessment Board of disagreement between the PORC and the ~~Nuclear~~ Unit Director; however, the ~~Nuclear~~ Unit Director shall have responsibility for resolution of such disagreements pursuant to Specification 6.1.1.

### RECORDS

6.5.1.8 The PORC shall maintain written minutes of each meeting and copies shall be provided to the Senior Vice President - Millstone ~~Station~~ and the Chairperson of the Nuclear Safety Assessment Board.

### 6.5.2 SITE OPERATIONS REVIEW COMMITTEE (SORC)

#### FUNCTION

6.5.2.1 The SORC shall function to advise the Senior Vice President - Millstone ~~Station~~ on all matters related to nuclear safety of the entire Millstone Station Site.

#### COMPOSITION

6.5.2.2 The SORC shall be composed of the:

Chairperson:

Member:

Member:

Member:

Member:

Member:

Member:

Member:

Member:

Member:

Member:

The Senior ~~Nuclear~~ Unit Director, in attendance shall be the Vice Chairperson.

Senior Vice President - Millstone ~~Station~~

~~Unit 1~~ Director, ~~UNIT OPERATIONS~~

Unit 2 Director

Unit 3 Director

~~Unit Services Director~~

~~Site Services Director~~

Designated Member of Unit 1 PORC

Designated Member of Unit 2 PORC

Designated Member of Unit 3 PORC

Designated Member of ~~Quality Services~~

~~1~~ Director, ~~UNIT OPERATIONS~~

ALTERNATES

6.5.2.3 Alternate members shall be appointed in writing by the SORC Chairperson to serve on a temporary basis; however, no more than two alternates shall participate in SORC activities at one time.

MEETING FREQUENCY

6.5.2.4 The SORC shall meet at least once per 6 months and as convened by the SORC Chairperson.

QUORUM

6.5.2.5 A quorum of the SORC shall consist of the Chairperson or Vice Chairperson and five members including alternates.

RESPONSIBILITIES

6.5.2.6 The SORC shall be responsible for:

- AND CNO
- a. Review of (1) all common site procedures required by Specification 6.8 and changes thereto, (2) all common site programs, required by Specification 6.8 and changes thereto, (3) any other proposed procedures, programs, or changes thereto as determined by the Senior Vice President - Millstone Station to affect site nuclear safety. Common site programs and procedures required by Specification 6.8 that are designated for review and approval by the Station Qualified Reviewer Program do not require SORC review.
  - b. Review of all proposed changes to Section 6.0 "Administrative Controls" of these Technical Specifications;
  - c. Performance of special reviews and investigations and reports as requested by the Chairperson of the Nuclear Safety Assessment Board;
  - d. Not used.
  - e. Not used.
  - f. Review of all common site proposed tests and experiments that affect nuclear safety;
  - g. Review of all common site proposed changes or modifications to systems or equipment that affect nuclear safety; and
  - h. Render determinations in writing or meeting minutes if any item considered under Specification 6.5.2.6(a) through (g) above, as appropriate and as provided by 10CFR50.59 or 10CFR50.92 constitutes an unreviewed safety question or requires a significant hazards consideration determination.
  - i. Review of the common site Fire Protection Program and implementing procedures.

AUTHORITY

## 6.5.2.7 The SORC shall:

- a. Recommend to the Senior Vice President - Millstone ~~Station~~ written approval or disapproval in meeting minutes of items considered under Specification 6.5.2.6(a) through (g) above, and PRESIDENT AND CHIEF EXECUTIVE OFFICER (CEO) *AND CNO*
- b. Provide immediate written notification or meeting minutes to the ~~Executive Vice President - Nuclear~~ and the Chairperson of the Nuclear Safety Assessment Board of disagreement between the SORC and the Senior Vice President - Millstone ~~Station~~; however, the Senior Vice President - Millstone ~~Station~~ shall have responsibility for resolution of such disagreements pursuant to 6.1.1 above. *AND CNO*

RECORDS

6.5.2.8 The SORC shall maintain written minutes of each meeting and copies shall be provided to the Senior Vice President - Millstone ~~Station~~ and Chairperson of the Nuclear Safety Assessment Board.

6.5.3 NUCLEAR SAFETY ASSESSMENT BOARD (NSAB)FUNCTION

## 6.5.3.1 The minimum qualifications of NSAB members are as follows:

- a. The Chairperson and NSAB members shall have:
- 1) An academic degree in an engineering or physical science field, or hold a senior management position, and
  - 2) A minimum of five years technical experience in their respective field of expertise.
- b. The NSAB shall have experience in and shall function to provide independent oversight review and audit of designated activities in the areas of:
- 1) Nuclear power plant operations;
  - 2) Nuclear engineering;
  - 3) Chemistry and radiochemistry;
  - 4) Metallurgy;
  - 5) Instrumentation and control;
  - 6) Radiological safety;



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7) Mechanical and electrical engineering; and

8) Quality assurance practices. PRESIDENT AND CEO

The NSAB serves to advise the Executive Vice President — Nuclear on matters related to nuclear safety and notify the Executive Vice President — Nuclear within 24 hours of a safety significant disagreement between the NSAB and the organization or function being reviewed.

COMPOSITIONPRESIDENT AND CEO

6.5.3.2 The Executive Vice President — Nuclear shall appoint, in writing, a minimum of seven members to the NSAB and shall designate from this membership, in writing, a Chairperson and a Vice Chairperson. The membership shall function to provide independent review and audit in the areas listed in Specification 6.5.3.1.

ALTERNATESPRESIDENT AND CEO

6.5.3.3 All alternate members shall be appointed, in writing, by the Executive Vice President — Nuclear, however, no more than two alternates shall participate as members in NSAB activities at any one time.

MEETING FREQUENCY

6.5.3.4 The NSAB shall meet at least once per calendar quarter.

QUORUM

6.5.3.5 The quorum of the NSAB shall consist of a majority of NSAB members including the Chairperson or Vice Chairperson. No more than a minority of the quorum shall have line responsibility for operation of the same Northeast Utilities' nuclear unit. No more than two alternates shall be appointed as members at any meeting in fulfillment of the quorum requirements.

REVIEW RESPONSIBILITIES

6.5.3.6 The NSAB shall be responsible for the review of:

- a. The safety evaluations for changes to procedures, equipment, or systems, and tests or experiments completed under the provisions of 10 CFR 50.59, to verify that such actions did not constitute an unreviewed safety question as defined in 10 CFR 50.59;
- b. Proposed changes to procedures, equipment, or systems that involve an unreviewed safety question as defined in 10 CFR 50.59;
- c. Proposed tests or experiments that involve an unreviewed safety question as defined in 10 CFR 50.59;

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- d. Proposed changes to Technical Specifications and the Operating License;
- e. Violations of applicable codes, regulations, orders, license requirements, or internal procedures having nuclear safety significance;
- f. All Licensee Event Reports required by 10 CFR 50.73;
- g. Indications of significant unanticipated deficiencies in any aspect of design or operation of structures, systems, or components that could affect nuclear safety;
- h. Significant accidental, unplanned, or uncontrolled radioactive releases, including corrective actions to prevent recurrence;
- i. Significant operating abnormalities or deviations from normal and expected performance of equipment that could affect nuclear safety;
- j. The performance of the corrective action program; and
- k. Audits and audit plans.

PRESIDENT  
AND CEO

Reports or records of these reviews shall be forwarded to the ~~Executive Vice President - Nuclear~~ within 30 days following completion of the review.

#### AUDIT PROGRAM RESPONSIBILITIES

AUDITS AND EVALUATION  
DEPARTMENT

6.5.3.7 The NSAB audit program shall be the responsibility of the ~~Quality and Assessment Services Department~~. NSAB audits shall be performed at least once per 24 months in accordance with Nuclear Group Procedures and shall encompass:

- a. The conformance of unit operation to provisions contained within the Technical Specifications and applicable license conditions;
- b. The training and qualifications of the unit staff;
- c. The implementation of all programs required by Specification 6.8;
- d. The Fire Protection Program and implementing procedures.
- e. The fire protection equipment and program implementation utilizing either a qualified offsite license fire protection engineer or an outside independent fire protection consultant.
- f. Actions taken to correct deficiencies occurring in equipment, structures, systems, components, or method of operation that affect nuclear safety; and
- g. ~~Other activities and documents as requested by the Executive Vice President - Nuclear.~~

PRESIDENT AND  
CEO

RECORDS

6.5.3.8 Written records of reviews and audits shall be maintained. As a minimum these records shall include:

- a. Results of the activities conducted under the provisions of Section 6.5.3;
- b. Recommended approval or disapproval of items considered under Specifications 6.5.1.6.a through 6.5.1.6.d, and 6.8; and
- c. Determination as to whether each item considered under Specification 6.5.1.6.a, 6.5.1.6.b, 6.5.1.6.d, and 6.8 constitute an unreviewed safety question as defined in 10 CFR 50.59.

6.5.4 Station Qualified Reviewer Program

Function

6.5.4.1 The Nuclear Unit Director or Senior Vice President - Millstone Station may establish a Station Qualified Reviewer Program whereby required reviews of designated procedures or classes of procedures required by Specifications 6.5.1.6.a and 6.5.2.6.a are performed by Station Qualified Reviewers and approved by designated managers. These reviews are in lieu of reviews by the PORC or SORC. However, procedures which require a 10 CFR 50.59 evaluation must be reviewed by the PORC or SORC.

*Handwritten notes:*  
UNIT 3  
OR VICE PRESIDENT - MILLSTONE UNIT 3  
AND CNO

Responsibilities

6.5.4.2 The Station Qualified Reviewer Program shall:

- a. Provide for the review of designated procedures, programs, and changes thereto by a Qualified Reviewer(s) other than the individual who prepared the procedure, program, or change.
- b. Provide for cross-disciplinary review of procedures, programs, and changes thereto when organizations other than the preparing organization are affected by the procedure, program, or change.
- c. Ensure cross-disciplinary reviews are performed by a Qualified Reviewer(s) in affected disciplines, or by other persons designated by cognizant Managers or Directors as having specific expertise required to assess a particular procedure, program, or change. Cross-disciplinary reviewers may function as a committee.
- d. Provide for a screening of designated procedures, programs and changes thereto to determine if an evaluation should be performed in accordance with the provisions of 10 CFR 50.59 to verify that an unreviewed safety question does not exist. This screening will be performed by personnel trained and qualified in performing 10 CFR 50.59 evaluations.

- e. Provide for written recommendation by the Qualified Reviewer(s) to the responsible Manager for approval or disapproval of procedures and programs considered under Specification 6.5.1.6.a and 6.5.2.6.a and that the procedure or program was screened by a qualified individual and found not to require a 10 CFR 50.59 evaluation.

6.5.4.3 If the responsible manager determines that a new program, procedure, or change thereto requires a 10 CFR 50.59 evaluation, that Manager will ensure the required evaluation is performed to determine if the new procedure, program, or change involves an unreviewed safety question. The new procedure, program, or change will then be forwarded with the 10 CFR 50.59 evaluation to ~~PORC/SORC~~ for review.

PORC or SORC

UNIT 3

OR VICE PRESIDENT -  
MILLSTONE UNIT 3

AND  
CNO

6.5.4.4 Personnel recommended to the Station Qualified Reviewers shall be designated in writing by the ~~Nuclear~~ Unit Director or Senior Vice President - Millstone ~~Station~~ for each procedure, program, or class of procedure or program within the scope of the Station Qualified Reviewer Program.

6.5.4.5 Temporary procedure changes shall be made in accordance with Specification 6.8.3 with the exception that changes to procedures for which reviews are assigned to Qualified Reviewers will be reviewed and approved as described in Specification 6.5.4.2.

#### Records

6.5.4.6 The review of procedures and programs performed under the Station Qualified Reviewer Program shall be documented in accordance with administrative procedures.

#### Training and Qualification

6.5.4.7 The training and qualification requirements of personnel designated as a Qualified Reviewer in accordance with the Station Qualified Reviewer Program shall be in accordance with administrative procedures. Qualified reviewers shall have:

- a. A Bachelors degree in engineering, related science, or technical discipline, and two years of nuclear power plant experience;

OR

- b. Six years of nuclear power plant experience;

OR

- c. An equivalent combination of education and experience as approved by a Department Manager.

## ADMINISTRATIVE CONTROLS

### 6.6 REPORTABLE EVENT ACTION

6.6.1 The following actions shall be taken for REPORTABLE EVENTS:

- a. The Commission shall be notified and a report submitted pursuant to the requirements of Section 50.73 to 10 CFR Part 50, and
- b. Each REPORTABLE EVENT shall be reviewed by the PORC and the results of this review shall be submitted to the Chairperson of the NSAB and the ~~Executive Vice President - Nuclear~~

### 6.7 SAFETY LIMIT VIOLATION

6.7.1 The following actions shall be taken in the event a Safety Limit is violated:

- a. The Unit shall be placed in at least HOT STANDBY within one hour.
- b. The NRC Operations Center shall be notified by telephone as soon as possible and in all cases within 1 hour. The ~~Executive Vice President - Nuclear~~ and the Chairperson of the NSAB shall be notified within 24 hours;
- c. A Safety Limit Violation Report shall be prepared. The report shall be reviewed by the PORC. This report shall describe: (1) applicable circumstances preceding the violation, (2) effects of the violation upon facility components, systems, or structures, and (3) corrective action taken to prevent recurrence;
- d. The Safety Limit Violation Report shall be submitted to the Commission, the Chairperson of the NSAB, and the ~~Executive Vice President - Nuclear~~ within 14 days of the violation; and
- e. Operation shall not be resumed until authorized by the Commission.

SENIOR VICE  
PRESIDENT AND  
CNO. MILLSTONE

SENIOR VICE PRESIDENT AND CNO  
- MILLSTONE

### 6.8 PROCEDURES AND PROGRAMS

6.8.1 Written procedures shall be established, implemented, and maintained covering the activities referenced below:

- a. The applicable procedures recommended in Appendix A of Regulatory Guide 1.33, Revision 2, February 1978;
- b. The applicable procedures required to implement the requirements of NUREG-0737 and supplements thereto;
- c. Refueling operations;
- d. Surveillance activities of safety related equipment;
- e. Not used.



# ADMINISTRATIVE CONTROLS

- f. Not used.
- g. Fire Protection Program implementation;
- h. Quality controls for effluent monitoring, using the guidance in Regulatory Guide 1.21, Rev. 1, June 1974; and
- i. Radiological Effluent Monitoring and Offsite Dose Calculation Manual (REMOCM) implementation except for Section I.E, Radiological Environmental Monitoring.

- 6.8.2 a. The Nuclear Unit Director or Senior Vice President - Millstone Station may designate specific procedures and programs, or classes of procedures and programs to be reviewed in accordance with the Station Qualified Reviewer Program in lieu of review by the PORC/SORC. The review per the Qualified Reviewer Program shall be in accordance with Specification 6.5.4. UNIT 3 OR VICE PRESIDENT - MILLSTONE UNIT 3 AND CNO OR
- b. Procedures and programs listed in Specification 6.8.1, and changes thereto, shall be approved by the Nuclear Unit Director or Senior Vice President - Millstone Station or by cognizant Manager or Directors who are designated as the Approval Authority by the Nuclear Unit Director or Senior Vice President - Millstone Station, as specified in administrative procedures. The Approval Authority for each procedure and program or class of procedure and program shall be specified in administrative procedures. AND CNO UNIT 3 AND CNO
- c. Each procedure of Specification 6.8.1, and changes thereto, shall be reviewed by the PORC/SORC and shall be approved by the Nuclear Unit Director or Senior Vice President - Millstone Station, or be reviewed and approved in accordance with the Station Qualified Reviewer Program, prior to implementation. Each procedure of Specification 6.8.1 shall be reviewed periodically as set forth in administrative procedures. UNIT 3 UNIT OR AND CNO

6.8.3 Temporary changes to procedures of Specification 6.8.1 may be made provided:

- a. The intent of the original procedure is not altered;
- b. The change is approved by two members of the plant management staff, at least one of whom holds a Senior Operator license on the unit affected; and
- c. The change is documented, reviewed by the PORC/SORC or Station Qualified Reviewer Program, as appropriate, and approved by the Station Qualified Reviewer Program Manager or Nuclear Unit Director or Senior Vice President - Millstone Station within 14 days of implementation. Department PORC or SORC UNIT 3 AND CNO

ADMINISTRATIVE CONTROLS6.13 RADIOLOGICAL EFFLUENT MONITORING AND OFFSITE DOSE CALCULATION MANUAL (REMODCM)

Section I, Radiological Effluent Monitoring Manual (REMM), shall outline the sampling and analysis programs to determine the concentration of radioactive materials released offsite as well as dose commitments to individuals in those exposure pathways and for those radionuclides released as a result of station operation. It shall also specify operating guidelines for radioactive waste treatment systems and report content.

Section II, the Offsite Dose Calculation Manual (ODCM), shall describe the methodology and parameters to be used in the calculation of offsite doses due to radioactive gaseous and liquid effluents and in the calculations of gaseous and liquid effluent monitoring instrumentation alarm/trip setpoints consistent with the applicable LCOs contained in these technical specifications.

Changes to the REMODCM:

- a. Shall be documented and records of reviews performed shall be retained as required by Specification 6.10.30. This documentation shall contain:
  - 1) Sufficient information to support the change together with the appropriate analyses or evaluations justifying the change(s), and
  - 2) A determination that the change will maintain the level of radioactive effluent control required by 10 CFR 20.106, 40 CFR Part 190, 10 CFR 50.36a, and Appendix I to 10 CFR Part 50 and not adversely impact the accuracy or reliability of effluent, dose, or setpoint calculations.
- b. Shall become effective after review and acceptance by SORC and the approval of the Senior Vice President - Millstone Station AND CNO
- c. Shall be submitted to the Commission in the form of a complete, legible copy of the entire REMM or ODCM, as appropriate, as a part of or concurrent with the Annual Radioactive Effluent Report for the period of the report in which any change was made. Each change shall be identified by markings in the margin of the affected pages, clearly indicating the area of the page that was changed, and shall indicate the date (e.g., month/year) the change was implemented.

6.14 RADIOACTIVE WASTE TREATMENT

Procedures for liquid and gaseous radioactive effluent discharges from the Unit shall be prepared, approved, maintained and adhered to for all operations involving offsite releases of radioactive effluents. These procedures shall specify the use of appropriate waste treatment systems utilizing the guidance provided in the REMODCM.

The Solid Radioactive Waste Treatment System shall be operated in accordance with the Process Control Program to process wet radioactive wastes to meet shipping and burial ground requirements.

Docket No. 50-245

50-336

50-423

B16224

Attachment 2

Millstone Nuclear Power Station, Unit Nos. 1, 2, and 3

Proposed Revision to Technical Specifications  
Administrative Controls  
Retyped Pages

February 1997

## ADMINISTRATIVE CONTROLS

### 6.1 RESPONSIBILITY

6.1.1 The Senior Vice President and Chief Nuclear Officer (CNO) — Millstone shall be responsible for overall operation of the Millstone Station Site while the Millstone Unit 1 Recovery Officer shall be responsible for overall unit safe operation and the Director, Unit Operations shall be responsible for operation of the unit. The Senior Vice President and CNO — Millstone, Millstone Unit 1 Recovery Officer, and Director, Unit Operations shall each delegate, in writing, the succession to these responsibilities during their absence.

### 6.2 ORGANIZATION

#### 6.2.1 OFFSITE AND ONSITE ORGANIZATIONS

Onsite and offsite organizations shall be established for unit operation and corporate management, respectively. The onsite and offsite organizations shall include the positions for activities affecting the safety of the nuclear power plant.

- a. Lines of authority, responsibility, and communication shall be established and defined for the higher management levels through intermediate levels to and including all operating organization positions. These relationships shall be documented and updated, as appropriate, in the form of organization charts, functional descriptions of departmental responsibilities and relationships, and job descriptions for key personnel positions, or in equivalent forms of documentation. These requirements shall be documented in the Quality Assurance Topical Report.
- b. The Millstone Unit 1 Recovery Officer shall be responsible for overall unit safe operation and shall have control over those onsite activities necessary for safe operation and maintenance of the plant.
- c. The Senior Vice President and CNO - Millstone shall have corporate responsibility for overall plant nuclear safety and shall take any measures needed to ensure acceptable performance of the staff in operation, maintaining, and providing technical support to the plant to ensure nuclear safety.
- d. The individuals who train the operating staff and those who carry out health physics and quality assurance functions may report to the appropriate onsite manager; however, they shall have sufficient organizational freedom to ensure their independence from operating pressures.

#### 6.2.2 FACILITY STAFF

- a. Each on duty shift shall be composed of at least the minimum shift crew composition shown in Table 6.2-1.
- b. At least one licensed Operator shall be in the control room when fuel is in the reactor.
- c. At least two licensed Operators shall be present in the control room during reactor start-up, scheduled reactor shutdown and during recovery from reactor trips.

## ADMINISTRATIVE CONTROLS

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### 6.4 TRAINING

- 6.4.1 A retraining and replacement training program for the facility staff shall be maintained under the direction of the Senior Vice President and CNO — Millstone and shall meet or exceed the requirements and recommendations of Section 5.5 of ANSI N18.1-1971 and 10 CFR Part 55.59. The Director-Nuclear Training has the overall responsibility for the implementation of the Training Program.

### 6.5 REVIEW AND AUDIT

- 6.5.1 Plant Operations Review Committee (PORC)

#### Function

- 6.5.1.1 The PORC shall function to advise the Director, Unit Operations on all matters related to nuclear safety.

#### Composition

- 6.5.1.2 The PORC shall be composed of nine to eleven members. Members shall collectively have experience and expertise in the following areas:

Plant Operations  
Engineering  
Reactor Engineering  
Maintenance  
Instrumentation and Controls  
Health Physics  
Chemistry  
Work Planning  
Quality Assurance

The minimum qualifications of PORC members shall be that all members have an academic degree in an engineering or physical science field, or hold a management position, and have a minimum of five years technical experience in their respective field of expertise. The members of PORC shall be appointed in writing by the Director, Unit Operations. The Chairperson and alternate Chairperson of the PORC shall be drawn from the PORC members and be appointed in writing by the Director, Unit Operations.

#### Alternates

- 6.5.1.3 Alternate members shall be appointed in writing by the PORC Chairperson to serve on a temporary basis; however, no more than two alternates shall participate in PORC activities at any one time.



## ADMINISTRATIVE CONTROLS

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### Meeting Frequency

- 6.5.1.4 The PORC shall meet at least once per calendar month and as convened by the PORC Chairperson.

### Quorum

- 6.5.1.5 A quorum of the PORC shall consist of the Chairperson, or Vice Chairperson, and four members including alternates.

### Responsibilities

- 6.5.1.6 The PORC shall be responsible for:

- a. Review of 1) all procedures, except common site procedures, required by Specification 6.8 and changes thereto, 2) all programs, except common site programs, required by Specification 6.8 and changes thereto, 3) any other proposed procedures, programs, or changes thereto, as determined by the Director, Unit Operations to affect nuclear safety. Procedures and programs required by Specification 6.8 that are designated for review and approval by the Station Qualified Reviewer Program do not require PORC review.
- b. Review of all proposed tests and experiments that affect nuclear safety.
- c. Review of all proposed changes to Sections 1.0 - 5.0 of these Technical Specifications.
- d. Review of all proposed changes or modifications to plant systems or equipment that affect nuclear safety.
- e. Investigation of all violations of the Technical Specifications and preparation and forwarding of a report covering evaluation and recommendations to prevent recurrence to the Senior Vice President and CNO - Millstone and to the Chairperson of the Nuclear Safety Assessment Board.
- f. Review of all REPORTABLE EVENTS.
- g. Review of facility operations to detect potential safety hazards.
- h. Performance of special reviews and investigations and reports thereon as requested by the Chairperson of the Nuclear Safety Assessment Board.
- i. Render determinations in writing if any item considered under 6.5.1.6(a) through (d) above, as appropriate and as provided by 10CFR50.59 or 10CFR50.92, constitutes an unreviewed safety question or requires a significant hazards consideration determination.

## ADMINISTRATIVE CONTROLS

- j. Review of the unit-specific Fire Protection Program and implementing procedures.

### Authority

#### 6.5.1.7 The PORC shall:

- a. Recommend to the Director, Unit Operations written approval or disapproval of items considered under 6.5.1.6(a) through (d) above.
- b. Provide immediate written notification to the Senior Vice President and CNO - Millstone, Millstone Unit 1 Recovery Officer, and the Chairperson of the Nuclear Safety Assessment Board of disagreement between the PORC and the Director, Unit Operations; however, the Director, Unit Operations shall have responsibility for resolution of such disagreements pursuant to 6.1.1 above.

### Records

- 6.5.1.8 The PORC shall maintain written minutes of each meeting and copies shall be provided to the Senior Vice President and CNO - Millstone and Chairperson of the Nuclear Safety Assessment Board.

#### 6.5.2 Site Operations Review Committee (SORC)

### Function

- 6.5.2.1 The SORC shall function to advise the Senior Vice President and CNO - Millstone on all matters related to nuclear safety of the entire Millstone Station Site.

- 6.5.2.2 The SORC shall be composed of the:

|              |   |
|--------------|---|
| Chairperson: | Senior Vice President and CNO — Millstone |
| Member:      | Director, Unit Operations                 |
| Member:      | Unit 2 Unit Director                      |
| Member:      | Unit 3 Unit Director                      |
| Member:      | Director, Nuclear Services                |
| Member:      | Manager, General Services                 |
| Member:      | Designated Member of Unit 1 PORC          |
| Member:      | Designated Member of Unit 2 PORC          |
| Member:      | Designated Member of Unit 3 PORC          |
| Member:      | Designated Member of Nuclear Oversight    |

The Senior Unit Director/Director, Unit Operations in attendance shall be the Vice Chairperson.

### Alternates

- 6.5.2.3 Alternate members shall be appointed in writing by the SORC Chairperson to serve on a temporary basis; however, no more than two alternates shall participate in SORC activities at one time.

## ADMINISTRATIVE CONTROLS

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### Meeting Frequency

6.5.2.4 The SORC shall meet at least once per six months and as convened by the SORC Chairperson.

### Quorum

6.5.2.5 A quorum of the SORC shall consist of the Chairperson or Vice Chairperson and five members including alternates.

### Responsibilities

6.5.2.6 The SORC shall be responsible for:

- a. Review of 1) all common site procedures required by Specification 6.8 and changes thereto, 2) all common site programs, required by Specification 6.8 and changes thereto, 3) any other proposed procedures, programs, or changes thereto as determined by the Senior Vice President and CNO — Millstone to affect site nuclear safety. Common site programs and procedures required by Specification 6.8 that are designated for review and approval by the Station Qualified Review Program do not require SORC review.
- b. Review of all proposed changes to Section 6.0, "Administrative Controls", of these Technical Specifications.
- c. Performance of special reviews and investigations and reports as requested by the Chairperson of the Nuclear Safety Assessment Board.
- d. Not used.
- e. Not used.
- f. Review of all common site proposed tests and experiments that affect nuclear safety.
- g. Review of all common site proposed changes or modifications to systems or equipment that affect nuclear safety.
- h. Render determinations in writing, or meeting minutes if any item considered under 6.5.2.6(a) through (g) above, as appropriate and as provided by 10CFR50.59 or 10CFR50.92, constitutes an unreviewed safety question or requires a significant hazards consideration determination.
- i. Review of the common site Fire Protection Program and implementing procedures.

## ADMINISTRATIVE CONTROLS

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### Authority

#### 6.5.2.7 The SORC shall:

- a. Recommend to the Senior Vice President and CNO — Millstone written approval or disapproval, in meeting minutes, of items considered under 6.5.2.6(a) through (g) above.
- b. Provide immediate written notification, or meeting minutes, to the President and Chief Executive Officer (CEO) and the Chairperson of the Nuclear Safety Assessment Board of disagreement between the SORC and the Senior Vice President and CNO — Millstone; however, the Senior Vice President and CNO — Millstone shall have responsibility for resolution of such disagreements pursuant to 6.1.1 above.

### Records

- 6.5.2.8 The SORC shall maintain written minutes of each meeting and copies shall be provided to the Senior Vice President and CNO — Millstone and Chairperson of the Nuclear Safety Assessment Board.

#### 6.5.3 NUCLEAR SAFETY ASSESSMENT BOARD (NSAB)

### FUNCTION

#### 6.5.3.1 The minimum qualifications of NSAB members are as follows:

- a. The Chairperson and NSAB members shall have:
  1. An academic degree in an engineering or physical science field, or hold a senior management position, and
  2. A minimum of five years technical experience in their respective field of expertise.
- b. The NSAB shall have experience in and shall function to provide independent oversight review and audit of designated activities in the areas of:
  1. Nuclear power plant operations;
  2. Nuclear engineering;
  3. Chemistry and radiochemistry;
  4. Metallurgy;
  5. Instrumentation and control;
  6. Radiological safety;

## ADMINISTRATIVE CONTROLS

7. Mechanical and electrical engineering; and
8. Quality assurance practices.

The NSAB serves to advise the President and CEO on matters related to nuclear safety and notify the President and CEO within 24 hours of a safety significant disagreement between the NSAB and the organization or function being reviewed.

### COMPOSITION

- 6.5.3.2 The President and CEO shall appoint, in writing, a minimum of seven members to the NSAB and shall designate from this membership, in writing, a Chairperson and a Vice Chairperson. The membership shall function to provide independent review and audit in the areas listed in Specification 6.5.3.1.

### ALTERNATES

- 6.5.3.3 All alternate members shall be appointed, in writing, by the President and CEO; however, no more than two alternates shall participate as members in NSAB activities at any one time.

### MEETING FREQUENCY

- 6.5.3.4 The NSAB shall meet at least once per calendar quarter.

### QUORUM

- 6.5.3.5 The quorum of the NSAB shall consist of a majority of NSAB members including the Chairperson or Vice Chairperson. No more than a minority of the quorum shall have line responsibility for operation of the same Northeast Utilities' nuclear unit. No more than two alternates shall be appointed as members at any meeting in fulfillment of the quorum requirements.

### REVIEW RESPONSIBILITIES

- 6.5.3.6 The NSAB shall be responsible for the review of:
- a. The safety evaluations for changes to procedures, equipment, or systems, and tests or experiments completed under the provisions of 10 CFR 50.59, to verify that such actions did not constitute an unreviewed safety question as defined in 10 CFR 50.59;
  - b. Proposed changes to procedures, equipment, or systems that involve an unreviewed safety question as defined in 10 CFR 50.59;
  - c. Proposed tests or experiments that involve an unreviewed safety question as defined in 10 CFR 50.59;



## ADMINISTRATIVE CONTROLS

- d. Proposed changes to Technical Specifications and the Operating License;
- e. Violations of applicable codes, regulations, orders, license requirements, or internal procedures having nuclear safety significance;
- f. All Licensee Event Reports required by 10 CFR 50.73;
- g. Indications of significant unanticipated deficiencies in any aspect of design or operation of structures, systems, or components that could affect nuclear safety;
- h. Significant accidental, unplanned, or uncontrolled radioactive releases, including corrective actions to prevent recurrence;
- i. Significant operating abnormalities or deviations from normal and expected performance of equipment that could affect nuclear safety;
- j. The performance of the corrective action program; and
- k. Audits and audit plans.

Reports or records of these reviews shall be forwarded to the President and CEO within 30 days following completion of the review.

### AUDIT PROGRAM RESPONSIBILITIES

- 6.5.3.7 The NSAB audit program shall be the responsibility of the Audit and Evaluation Department. NSAB audits shall be performed at least once per 24 months in accordance with Nuclear Group Procedures and shall encompass:
- a. The conformance of unit operation to provisions contained within the Technical Specifications and applicable license conditions;
  - b. The training and qualifications of the unit staff;
  - c. The implementation of all programs required by Specification 6.8;
  - d. The Fire Protection Program and implementing procedures.
  - e. The fire protection equipment and program implementation utilizing either a qualified offsite license fire protection engineer or an outside independent fire protection consultant.
  - f. Actions taken to correct deficiencies occurring in equipment, structures, systems, components, or method of operation that affect nuclear safety; and

## ADMINISTRATIVE CONTROLS

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- g. Other activities and documents as requested by the President and CEO.

### RECORDS

- 6.5.3.8 Written records of reviews and audits shall be maintained. As a minimum these records shall include:
  - a. Results of the activities conducted under the provisions of Section 6.5.3;
  - b. Recommended approval or disapproval of items considered under Specifications 6.5.1.6.a through 6.5.1.6.d, and 6.8; and
  - c. Determination as to whether each item considered under Specification 6.5.1.6.a, 6.5.1.6.b, 6.5.1.6.d, and 6.8 constitute an unreviewed safety question as defined in 10 CFR 50.59.

### 6.5.4 Station Qualified Reviewer Program

#### Function

- 6.5.4.1 The Director, Unit Operations or Millstone Unit 1 Recovery Officer, or Senior Vice President and CNO - Millstone may establish a Station Qualified Reviewer Program whereby required reviews of designated procedures or classes of procedures required by Specifications 6.5.1.6.a and 6.5.2.6.a are performed by Station Qualified Reviewers and approved by designated managers. These reviews are in lieu of reviews by the PORC or SORC. However, procedures which require a 10CFR50.59 evaluation must be reviewed by the PORC or SORC.

#### Responsibilities

- 6.5.4.2 The Station Qualified Reviewer Program shall:
  - a. Provide for the review of designated procedures, programs, and changes thereto by a Qualified Reviewer(s) other than the individual who prepared the procedure, program, or change.
  - b. Provide for cross-disciplinary review of procedures, programs, and changes thereto when organizations other than the preparing organization are affected by the procedure, program, or change.
  - c. Ensure cross-disciplinary reviews are performed by a Qualified Reviewer(s) in affected disciplines, or by other persons designated by cognizant managers or directors as having specific expertise required to assess a particular procedure, program, or change. Cross-disciplinary reviewers may function as a committee.
  - d. Provide for a screening of designated procedures, programs and changes thereto to determine if an evaluation should be performed in accordance with the provisions of 10CFR50.59 to verify that

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an unreviewed safety question does not exist. This screening will be performed by personnel trained and qualified in performing 10CFR50.59 evaluations.

- e. Provide for written recommendation by the Qualified Reviewer(s) to the responsible Manager for approval or disapproval of procedures and programs considered under Specification 6.5.1.6.a and 6.5.2.6.a and that the procedure or program was screened by a qualified individual and found not to require a 10CFR50.59 evaluation.

6.5.4.3 If the responsible manager determines that a new program, procedure, or change thereto requires a 10CFR50.59 evaluation, that manager will ensure the required evaluation is performed to determine if the new procedure, program, or change involves an unreviewed safety question. The new procedure, program, or change will then be forwarded with the 10CFR50.59 evaluation to PORC or SORC for review.

6.5.4.4 Personnel recommended to the Station Qualified Reviewers shall be designated in writing by the Director, Unit Operations, Millstone Unit 1 Recovery Officer, or Senior Vice President and CNO — Millstone for each procedure, program, or class of procedure or program within the scope of the Station Qualified Reviewer Program.

6.5.4.5 Temporary procedure changes shall be made in accordance with Specification 6.8.3 with the exception that changes to procedures for which reviews are assigned to Qualified Reviewers will be reviewed and approved as described in Specification 6.5.4.2.

### Records

6.5.4.6 The review of procedures and programs performed under the Station Qualified Reviewer Program shall be documented in accordance with administrative procedures.

### Training and Qualification

6.5.4.7 The training and qualification requirements of personnel designated as a Qualified Reviewer in accordance with the Station Qualified Reviewer Program shall be in accordance with administrative procedures. Qualified reviewers shall have:

- a. A Bachelors degree in engineering, related science, or technical discipline, and two years of nuclear power plant experience;

OR

- b. Six years of nuclear power plant experience;

OR

- c. An equivalent combination of education and experience as approved by a department manager.

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### 6.6 REPORTABLE EVENT ACTION

#### 6.6.1 The following actions shall be taken for REPORTABLE EVENTS:

- a. The Commission shall be notified and a report submitted pursuant to the requirement of 10 CFR 50.73.
- b. Each REPORTABLE EVENT shall be reviewed by the PORC and the results of this review shall be submitted to the Chairperson of the NSAB and the Senior Vice President and CNO - Millstone.

### 6.7 SAFETY LIMIT VIOLATION

#### 6.7.1 The following actions shall be taken in the event a Safety Limit is violated:

- a. The unit shall be placed in at least HOT STANDBY within two hours.
- b. The NRC Operations Center shall be notified by telephone as soon as possible and in all cases within one hour. The Senior Vice President and CNO - Millstone and the Chairperson of the NSAB shall be notified within 24 hours.
- c. A Safety Limit Violation Report shall be prepared. The report shall be reviewed by the PORC. This report shall describe (1) applicable circumstances preceding the violation, (2) effects of the violation upon facility components, systems or structures, and (3) corrective action taken to prevent recurrence.
- d. The Safety Limit Violation Report shall be submitted to the Commission, the Chairperson of the NSAB and the Senior Vice President and CNO - Millstone within 14 days of the violation.
- e. Operation shall not be resumed until authorized by the Commission.

### 6.8 PROCEDURES

#### 6.8.1 Written procedures shall be established, implemented and maintained covering the activities referenced below.

- a. The applicable procedures recommended in Appendix "A" of Regulatory Guide 1.33, February, 1978.
- b. Refueling operations.
- c. Surveillance activities of safety related equipment.
- d. Not used.
- e. Not used.
- f. Fire Protection Program Implementation.

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- g. Quality Control for effluent monitoring using the guidance in Regulatory Guide 1.21 Rev. 1, June 1974.
  - h. Radiological Effluent Monitoring and Offsite Dose Calculation Manual (REMOCM) implementation, except for Section I.E., Radiological Environmental Monitoring.
- 6.8.2
- a. The Director, Unit Operations or Millstone Unit 1 Recovery Officer, or Senior Vice President and CNO - Millstone may designate specific procedures and programs, or classes of procedures and programs to be reviewed in accordance with the Station Qualified Reviewer Program in lieu of review by the PORC or SORC. The review per the Qualified Reviewer Program shall be in accordance with Specification 6.5.4.
  - b. Procedures and programs listed in Specification 6.8.1, and changes thereto, shall be approved by the Director, Unit Operations or Senior Vice President and CNO - Millstone or by cognizant Manager or Directors who are designated as the Approval Authority by the PORC or SORC or Senior Vice President and CNO - Millstone as specified in administrative procedures. The Approval Authority for each procedure and program or class of procedure and program shall be specified in administrative procedures.
  - c. Each procedure of Specification 6.8.1, and changes thereto, shall be reviewed by the PORC or SORC and shall be approved by the Director, Unit Operations or Senior Vice President and CNO - Millstone, or be reviewed and approved in accordance with the Station Qualified Reviewer Program, prior to implementation. Each procedure of Specification 6.8.1 shall be reviewed periodically as set forth in administrative procedures.
- 6.8.3
- Temporary changes to procedures of 6.8.1 above may be made provided:
- a. The intent of original procedure is not altered.
  - b. The change is approved by two members of the plant management staff, at least one of whom holds a Senior Reactor Operator's License on the unit affected.
  - c. The change is documented, reviewed by the PORC or SORC, or the Station Qualified Reviewer Program, as applicable, and approved by the Director, Unit Operations, or the Senior Vice President and CNO - Millstone or Station Qualified Reviewer Program Department Manager within 14 days of implementation.
- 6.8.4
- Written procedures shall be established, implemented and maintained covering Section I.E., Radiological Environmental Monitoring, of the REMOCM.



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### 6.15 RADIOLOGICAL EFFLUENT MONITORING AND OFFSITE DOSE CALCULATION MANUAL (REMODCM)

Section I, Radiological Effluents Monitoring Manual (REMM), shall outline the sampling and analysis programs to determine the concentration of radioactive materials released offsite as well as dose commitments to individuals in those exposure pathways and for those radionuclides released as a result of station operation. It shall also specify operating guidelines for radioactive waste treatment systems and report content.

Section II, the Offsite Dose Calculation Manual (ODCM), shall describe the methodology and parameters to be used in the calculation of offsite doses due to radioactive gaseous and liquid effluents and in the calculations of gaseous and liquid effluent monitoring instrumentation alarm/trip setpoints consistent with the applicable LCO's contained in these technical specifications.

Changes to the REMODCM:

- a. Shall be documented and records of reviews performed shall be retained as required by Specification 6.10.2.m. This documentation shall contain:
  - 1) Sufficient information to support the change together with the appropriate analyses or evaluations justifying the change(s), and
  - 2) A determination that the change will maintain the level of radioactive effluent control required by 10 CFR 20.106, 40 CFR Part 190, 10 CFR 50.36a, and Appendix I to 10 CFR Part 50 and not adversely impact the accuracy or reliability of effluent, dose, or setpoint calculations.
- b. Shall become effective after review and acceptance by SORC and the approval of the Senior Vice President and CNO — Millstone. |
- c. Shall be submitted to the Commission in the form of a complete, legible copy of the entire REMM or ODCM, as appropriate, as a part of or concurrent with the Annual Radioactive Effluent Report for the period of the report in which any change was made. Each change shall be identified by markings in the margin of the affected pages, clearly indicating the area of the page that was changed, and shall indicate the date (e.g., month/year) the change was implemented.

### 6.1 RESPONSIBILITY

6.1.1 The Senior Vice President and Chief Nuclear Officer (CNO) — Millstone shall be responsible for overall operation of the Millstone Station Site while the Millstone Unit 2 Recovery Officer shall be responsible for overall unit safe operation and the Unit 2 Unit Director shall be responsible for operation of the unit. The Senior Vice President and CNO — Millstone, Millstone Unit 2 Recovery Officer and Unit 2 Unit Director shall each delegate in writing the succession to these responsibilities during their absence.

### 6.2 ORGANIZATION

#### 6.2.1 OFFSITE AND ONSITE ORGANIZATIONS

Onsite and offsite organizations shall be established for unit operation and corporate management, respectively. The onsite and offsite organizations shall include the positions for activities affecting the safety of the nuclear power plant.

- a. Lines of authority, responsibility, and communication shall be established and defined for the higher management levels through intermediate levels to and including all operating organization positions. These relationships shall be documented and updated, as appropriate, in the form of organization charts, functional descriptions of departmental responsibilities and relationships, and job descriptions for key personnel positions, or in equivalent forms of documentation. These requirements shall be documented in the Quality Assurance Topical Report.
- b. The Millstone Unit 2 Recovery Officer shall be responsible for overall unit safe operation and shall have control over those onsite activities necessary for safe operation and maintenance of the plant.
- c. The Senior Vice President and CNO - Millstone shall have corporate responsibility for overall plant nuclear safety and shall take any measures needed to ensure acceptable performance of the staff in operation, maintaining, and providing technical support to the plant to ensure nuclear safety.
- d. The individuals who train the operating staff and those who carry out health physics and quality assurance functions may report to the appropriate onsite manager; however, they shall have sufficient organizational freedom to ensure their independence from operating pressures.

#### 6.2.2 FACILITY STAFF

- a. Each on duty shift shall be composed of at least the minimum shift crew composition shown in Table 6.2-1.
- b. At least one licensed Operator shall be in the control room when fuel is in the reactor.
- c. At least two licensed Operators shall be present in the control room during reactor start-up, scheduled reactor shutdown and during recovery from reactor trips.

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### 6.4 TRAINING

A retraining and replacement training program for the facility staff shall be maintained under the direction of the Senior Vice President and CNO - Millstone and shall meet or exceed the requirements and recommendations of Section 5.5 of ANSI N18.1-1971 and 10 CFR Part 55.59. The Director-Nuclear Training has the overall responsibility for the implementation of the Training Program.

### 6.5 REVIEW AND AUDIT

#### 6.5.1 Plant Operations Review Committee (PORC)

##### Function

- 6.5.1.1 The PORC shall function to advise the Unit 2 Unit Director on all matters related to nuclear safety.

##### Composition

- 6.5.1.2 The PORC shall be composed of nine to eleven members. Members shall collectively have experience and expertise in the following areas:

Plant Operations  
Engineering  
Reactor Engineering  
Maintenance  
Instrumentation and Controls  
Health Physics  
Chemistry  
Work Planning  
Quality Assurance

The minimum qualifications of PORC members shall be that all members have an academic degree in an engineering or physical science field, or hold a management position, and have a minimum of five years technical experience in their respective field of expertise. The members of PORC shall be appointed in writing by the Unit 2 Unit Director. The Chairperson and alternate Chairperson of the PORC shall be drawn from the PORC members and be appointed in writing by the Unit 2 Unit Director.

##### Alternates

- 6.5.1.3 Alternate members shall be appointed in writing by the PORC Chairperson to serve on a temporary basis; however, no more than two alternates shall participate in PORC activities at any one time.

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### Meeting Frequency

- 6.5.1.4 The PORC shall meet at least once per calendar month and as convened by the PORC Chairperson.

### Quorum

- 6.5.1.5 A quorum of the PORC shall consist of the Chairperson, or Vice Chairperson, and four members including alternates.

### Responsibilities

- 6.5.1.6 The PORC shall be responsible for:

- a. Review of 1) all procedures, except common site procedures, required by Specification 6.8 and changes thereto, 2) all programs, except common site programs, required by Specification 6.8 and changes thereto, 3) any other proposed procedures, programs, or changes thereto as determined by the Unit 2 Unit Director to affect nuclear safety. Procedures and programs required by Specification 6.8 that are designated for review and approval by the Station Qualified Reviewer Program do not require PORC review.
- b. Review of all proposed tests and experiments that affect nuclear safety.
- c. Review of all proposed changes to Sections 1.0 - 5.0 of these Technical Specifications.
- d. Review of all proposed changes or modifications to plant systems or equipment that affect nuclear safety.
- e. Investigation of all violations of the Technical Specifications and preparation and forwarding of a report covering evaluation and recommendations to prevent recurrence to the Senior Vice President and CNO - Millstone and to the Chairperson of the Nuclear Safety Assessment Board.
- f. Review of all REPORTABLE EVENTS.
- g. Review of facility operations to detect potential safety hazards.
- h. Performance of special reviews and investigations and reports thereon as requested by the Chairperson of the Nuclear Safety Assessment Board.
- i. Render determinations in writing if any item considered under 6.5.1.6(a) through (d) above, as appropriate and as provided by 10CFR50.59 or 10CFR50.92, constitutes an unreviewed safety question or requires a significant hazards consideration determination.
- j. Review of the fire protection program and implementing procedure.

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### Authority

#### 6.5.1.7 The PORC shall:

- a. Recommend to the Unit 2 Unit Director written approval or disapproval of items considered under 6.5.1.6(a) through (d) above.
- b. Provide immediate written notification to the Senior Vice President and CNO — Millstone, Millstone Unit 2 Recovery Officer and the Chairperson of the Nuclear Safety Assessment Board of disagreement between the PORC and the Unit 2 Unit Director; however, the Unit 2 Unit Director shall have responsibility for resolution of such disagreements pursuant to 6.1.1 above.

### Records

#### 6.5.1.8 The PORC shall maintain written minutes of each meeting and copies shall be provided to the Senior Vice President and CNO — Millstone and Chairperson of the Nuclear Safety Assessment Board.

#### 6.5.2 Site Operations Review Committee (SORC)

### Function

#### 6.5.2.1 The SORC shall function to advise the Senior Vice President and CNO — Millstone on all matters related to nuclear safety of the entire Millstone Station Site.

### Composition

#### 6.5.2.2 The SORC shall be composed of the:

|              |   |
|--------------|---|
| Chairperson: | Senior Vice President and CNO — Millstone |
| Member:      | Director, Unit Operations                 |
| Member:      | Unit 2 Unit Director                      |
| Member:      | Unit 3 Unit Director                      |
| Member:      | Director, Nuclear Services                |
| Member:      | Manager, General Services                 |
| Member:      | Designated Member of Unit 1 PORC          |
| Member:      | Designated Member of Unit 2 PORC          |
| Member:      | Designated Member of Unit 3 PORC          |
| Member:      | Designated Member of Nuclear Oversight    |

The senior Unit Director/Director, Unit Operations in attendance shall be the Vice-Chairperson.

### Alternates:

#### 6.5.2.3 Alternate members shall be appointed in writing by the SORC Chairperson to serve on a temporary basis; however, no more than two alternates shall participate in SORC activities at one time.



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### Meeting Frequency

- 6.5.2.4 The SORC shall meet at least once per six months and as convened by the SORC Chairperson.

### Quorum

- 6.5.2.5 A quorum of the SORC shall consist of the Chairperson or Vice Chairperson and five members including alternates.

### Responsibilities

- 6.5.2.6 The SORC shall be responsible for:
- a. Review of 1) all common site procedures required by Specification 6.8 and changes thereto, 2) all common site programs, required by Specification 6.8 and changes thereto, 3) any other proposed procedures, programs, or changes thereto as determined by the Senior Vice President and CNO — Millstone to affect site nuclear safety. Common site programs and procedures required by Specification 6.8 that are designated for review and approval by the Station Qualified Reviewer Program do not require SORC review.
  - b. Review of all proposed changes to Section 6.0 "Administrative Controls" of these Technical Specifications.
  - c. Performance of special reviews and investigations and reports as requested by the Chairperson of the Nuclear Safety Assessment Board.
  - d. Not used.
  - e. Not used.
  - f. Review of all common site proposed tests and experiments that affect nuclear safety.
  - g. Review of all common site proposed changes or modifications to systems or equipment that affect nuclear safety.
  - h. Render determinations in writing or meeting minutes if any item considered under 6.5.2.6(a) through (g) above, as appropriate and as provided by 10CFR50.59 or 10CFR50.92, constitutes an unreviewed safety question or requires a significant hazards consideration determination.
  - i. Review of the common site fire protection program and implementing procedures.

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### Authority

#### 6.5.2.7 The SORC shall:

- a. Recommend to the Senior Vice President and CNO - Millstone written approval or disapproval in meeting minutes of items considered under 6.5.2.6(a) through (g) above.
- b. Provide immediate written notification or meeting minutes to the President and Chief Executive Officer (CEO) and the Chairperson of the Nuclear Safety Assessment Board of disagreement between the SORC and the Senior Vice President and CNO - Millstone; however, the Senior Vice President and CNO - Millstone shall have responsibility for resolution of such disagreements pursuant to 6.1.1 above.

### Records

- 6.5.2.8 The SORC shall maintain written minutes of each meeting and copies shall be provided to the Senior Vice President and CNO - Millstone and Chairperson of the Nuclear Safety Assessment Board.

#### 6.5.3 NUCLEAR SAFETY ASSESSMENT BOARD (NSAB)

### FUNCTION

#### 6.5.3.1 The minimum qualifications of NSAB members are as follows:

- a. The Chairperson and NSAB members shall have:
  1. An academic degree in an engineering or physical science field, or hold a senior management position, and
  2. A minimum of five years technical experience in their respective field of expertise.
- b. The NSAB shall have experience in and shall function to provide independent oversight review and audit of designated activities in the areas of:
  1. Nuclear power plant operations;
  2. Nuclear engineering;
  3. Chemistry and radiochemistry;
  4. Metallurgy;
  5. Instrumentation and control;
  6. Radiological safety;
  7. Mechanical and electrical engineering; and
  8. Quality assurance practices.

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The NSAB serves to advise the President and CEO on matters related to nuclear safety and notify the President and CEO within 24 hours of a safety significant disagreement between the NSAB and the organization or function being reviewed.

### COMPOSITION

- 6.5.3.2 The President and CEO shall appoint, in writing, a minimum of seven members to the NSAB and shall designate from this membership, in writing, a Chairperson and a Vice Chairperson. The membership shall function to provide independent review and audit in the areas listed in Specification 6.5.3.1.

### ALTERNATES

- 6.5.3.3 All alternate members shall be appointed, in writing, by the President and CEO; however, no more than two alternates shall participate as members in NSAB activities at any one time.

### MEETING FREQUENCY

- 6.5.3.4 The NSAB shall meet at least once per calendar quarter.

### QUORUM

- 6.5.3.5 The quorum of the NSAB shall consist of a majority of NSAB members including the Chairperson or Vice Chairperson. No more than a minority of the quorum shall have line responsibility for operation of the same Northeast Utilities' nuclear unit. No more than two alternates shall be appointed as members at any meeting in fulfillment of the quorum requirements.

### REVIEW RESPONSIBILITIES

- 6.5.3.6 The NSAB shall be responsible for the review of:
- a. The safety evaluations for changes to procedures, equipment, or systems, and tests or experiments completed under the provisions of 10 CFR 50.59, to verify that such actions did not constitute an unreviewed safety question as defined in 10 CFR 50.59;
  - b. Proposed changes to procedures, equipment, or systems that involve an unreviewed safety question as defined in 10 CFR 50.59;
  - c. Proposed tests or experiments that involve an unreviewed safety question as defined in 10 CFR 50.59;
  - d. Proposed changes to Technical Specifications and the Operating License;

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- e. Violations of applicable codes, regulations, orders, license requirements, or internal procedures having nuclear safety significance;
- f. All Licensee Event Reports required by 10 CFR 50.73;
- g. Indications of significant unanticipated deficiencies in any aspect of design or operation of structures, systems, or components that could affect nuclear safety;
- h. Significant accidental, unplanned, or uncontrolled radioactive releases, including corrective actions to prevent recurrence;
- i. Significant operating abnormalities or deviations from normal and expected performance of equipment that could affect nuclear safety;
- j. The performance of the corrective action program; and
- k. Audits and audit plans.

Reports or records of these reviews shall be forwarded to the President and CEO within 30 days following completion of the review. |

### AUDIT PROGRAM RESPONSIBILITIES

6.5.3.7 The NSAB audit program shall be the responsibility of the Audits and Evaluation Department. NSAB audits shall be performed at least once per 24 months in accordance with Nuclear Group Procedures and shall encompass:

- a. The conformance of unit operation to provisions contained within the Technical Specifications and applicable license conditions;
- b. The training and qualifications of the unit staff;
- c. The implementation of all programs required by Specification 6.8;
- d. The Fire Protection Program and implementing procedures.
- e. The fire protection equipment and program implementation utilizing either a qualified offsite license fire protection engineer or an outside independent fire protection consultant.
- f. Actions taken to correct deficiencies occurring in equipment, structures, systems, components, or method of operation that affect nuclear safety; and
- g. Other activities and documents as requested by the President and CEO. |

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### RECORDS

- 6.5.3.8 Written records of reviews and audits shall be maintained. As a minimum these records shall include:
- a. Results of the activities conducted under the provisions of Section 6.5.3;
  - b. Recommended approval or disapproval of items considered under Specifications 6.5.1.6.a through 6.5.1.6.d, and 6.8; and
  - c. Determination as to whether each item considered under Specification 6.5.1.6.a, 6.5.1.6.b, 6.5.1.6.d, and 6.8 constitute an unreviewed safety question as defined in 10 CFR 50.59.

### 6.5.4 Station Qualified Reviewer Program

#### Function

- 6.5.4.1 The Unit 2 Unit Director or Millstone Unit 2 Recovery Officer or Senior Vice President and CNO - Millstone may establish a Station Qualified Reviewer Program whereby required reviews of designated procedures or classes of procedures required by Specifications 6.5.1.6.a and 6.5.2.6.a are performed by Station Qualified Reviewers and approved by designated managers. These reviews are in lieu of reviews by the PORC or SORC. However, procedures which require a 10CFR50.59 evaluation must be reviewed by the PORC or SORC.

#### Responsibilities

- 6.5.4.2 The Station Qualified Reviewer Program shall:
- a. Provide for the review of designated procedures, programs, and changes thereto by a Qualified Reviewer(s) other than the individual who prepared the procedure, program, or change.
  - b. Provide for cross-disciplinary review of procedures, programs, and changes thereto when organizations other than the preparing organization are affected by the procedure, program, or change.
  - c. Ensure cross-disciplinary reviews are performed by a Qualified Reviewer(s) in affected disciplines, or by other persons designated by cognizant Managers or Directors as having specific expertise required to assess a particular procedure, program, or change. Cross-disciplinary reviewers may function as a committee.
  - d. Provide for a screening of designated procedures, programs and changes thereto to determine if an evaluation should be performed in accordance with the provisions of 10CFR50.59 to verify that an unreviewed safety question does not exist. This screening will be performed by personnel trained and qualified in performing 10CFR50.59 evaluations.



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- e. Provide for written recommendation by the Qualified Reviewer(s) to the responsible Manager for approval or disapproval of procedures and programs considered under Specification 6.5.1.6.a and 6.5.2.6.a and that the procedure or program was screened by a qualified individual and found not to require a 10 CFR 50.59 evaluation.

6.5.4.3 If the responsible manager determines that a new program, procedure, or change thereto requires a 10 CFR 50.59 evaluation, that Manager will ensure the required evaluation is performed to determine if the new procedure, program, or change involves an unreviewed safety question. The new procedure, program, or change will then be forwarded with the 10 CFR 50.59 evaluation to PORC or SORC for review.

6.5.4.4 Personnel recommended to be Station Qualified Reviewers shall be designated in writing by the Unit 2 Unit Director or Millstone Unit 2 Recovery Officer or Senior Vice President and CNO — Millstone for each procedure, program, or class of procedure or program within the scope of the Station Qualified Reviewer Program.

6.5.4.5 Temporary procedure changes shall be made in accordance with Specification 6.8.3 with the exception that changes to procedures for which reviews are assigned to Qualified Reviewers will be reviewed and approved as described in Specification 6.5.4.2.

### Records

6.5.4.6 The review of procedures and programs performed under the Station Qualified Reviewer Program shall be documented in accordance with administrative procedures.

### Training and Qualification

6.5.4.7 The training and qualification requirements of personnel designated as a Qualified Reviewer in accordance with the Station Qualified Reviewer Program shall be in accordance with administrative procedures. Qualified reviewers shall have:

- a. A Bachelors degree in engineering, related science, or technical discipline, and two years of nuclear power plant experience;

OR

- b. Six years of nuclear power plant experience;

OR

- c. An equivalent combination of education and experience as approved by a Department Manager.

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### 6.6 REPORTABLE EVENT ACTION

6.6.1 The following actions shall be taken for REPORTABLE EVENTS:

- a. The Commission shall be notified and a report submitted pursuant to the requirements of Section 50.73 to 10 CFR Part 50, and
- b. Each REPORTABLE EVENT shall be reviewed by the PORC and the results of this review shall be submitted to the Chairperson of the NSAB and the Senior Vice President and CNO - Millstone.

### 6.7 SAFETY LIMIT VIOLATION

6.7.1 The following actions shall be taken in the event a Safety Limit is violated:

- a. The unit shall be placed in at least HOT STANDBY within one hour.
- b. The NRC Operations Center shall be notified by telephone as soon as possible and in all cases within 1 hour. The Senior Vice President and CNO - Millstone and the Chairperson of the NSAB shall be notified within 24 hours;
- c. A Safety Limit Violation Report shall be prepared. The report shall be reviewed by the PORC. This report shall describe:  
(1) applicable circumstances preceding the violation,  
(2) effects of the violation upon facility components, systems, or structures, and (3) corrective action taken to prevent recurrence;
- d. The Safety Limit Violation Report shall be submitted to the Commission, the Chairperson of the NSAB, and the Senior Vice President and CNO - Millstone within 14 days of the violations.
- e. Operation shall not be resumed until authorized by the Commission.

### 6.8 PROCEDURES

6.8.1 Written procedures shall be established, implemented and maintained covering the activities referenced below:

- a. The applicable procedures recommended in Appendix "A" of Regulatory Guide 1.33, February, 1978.
- b. Refueling operations.
- c. Surveillance activities of safety related equipment.
- d. Not used.
- e. Not used.

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- f. Fire Protection Program implementation.
  - g. Quality Control for effluent monitoring using the guidance in Regulatory Guide 1.21 Rev. 1, June 1974.
  - h. Radiological Effluent Monitoring and Offsite Dose Calculation Manual (REMDCM) implementation, except for Section I.E., Radiological Environmental Monitoring.
- 6.8.2
- a. The Unit 2 Unit Director or Millstone Unit 2 Recovery Officer or Senior Vice President and CNO - Millstone may designate specific procedures and programs, or classes of procedures and programs to be reviewed in accordance with the Station Qualified Reviewer Program in lieu of review by the PORC or SORC. The review per the Qualified Reviewer Program shall be in accordance with Specification 6.5.4.
  - b. Procedures and programs listed in Specification 6.8.1, and changes thereto, shall be approved by the Unit 2 Unit Director or Senior Vice President and CNO - Millstone or by cognizant Manager or Directors who are designated as the Approval Authority by the Unit 2 Unit Director or Senior Vice President and CNO - Millstone, as specified in administrative procedures. The Approval Authority for each procedure and program or class of procedure and program shall be specified in administrative procedures.
  - c. Each procedure of Specification 6.8.1, and changes thereto, shall be reviewed by the PORC or SORC and shall be approved by the Unit 2 Unit Director or Senior Vice President and CNO - Millstone, or be reviewed and approved in accordance with the Station Qualified Reviewer Program, prior to implementation. Each procedure of Specification 6.8.1 shall be reviewed periodically as set forth in administrative procedures.
- 6.8.3
- Temporary changes to procedures of 6.8.1 above may be made provided:
- a. The intent of original procedure is not altered.
  - b. The change is approved by two members of the plant management staff, at least one of whom holds a Senior Reactor Operator's License on the unit affected.
  - c. The change is documented, reviewed by the PORC or SORC, or the Station Qualified Reviewer Program as applicable, and approved by the Unit 2 Unit Director or Senior Vice President and CNO - Millstone or Station Qualified Reviewer Program Department Manager within 14 days of implementation.
- 6.8.4
- Written procedures shall be established, implemented and maintained covering Section I.E, Radiological Environmental Monitoring, of the REMDCM.

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### 6.15 RADIOLOGICAL EFFLUENT MONITORING AND OFFSITE DOSE CALCULATION MANUAL (REMODCM)

Section I, Radiological Effluents Monitoring Manual (REMM), shall outline the sampling and analysis programs to determine the concentration of radioactive materials released offsite as well as dose commitments to individuals in those exposure pathways and for those radionuclides released as a result of station operation. It shall also specify operating guidelines for radioactive waste treatment systems and report content.

Section II, the Offsite Dose Calculation Manual (ODCM), shall describe the methodology and parameters to be used in the calculation of offsite doses due to radioactive gaseous and liquid effluents and in the calculations of gaseous and liquid effluent monitoring instrumentation Alarm/Trip Setpoints consistent with the applicable LCO's contained in these Technical Specifications.

Changes to the REMODCM:

- a. Shall be documented and records of reviews performed shall be retained as required by Specification 6.10.2m. This documentation shall contain:
  - 1) Sufficient information to support the change together with the appropriate analyses or evaluations justifying the change(s), and
  - 2) A determination that the change will maintain the level of radioactive effluent control required by 10 CFR 20.106, 40 CFR Part 190, 10 CFR 50.36a, and Appendix I to 10 CFR Part 50 and not adversely impact the accuracy or reliability of effluent, dose, or setpoint calculations.
- b. Shall become effective after review and acceptance by SORC and the approval of the Senior Vice President and CNO — Millstone.
- c. Shall be submitted to the Commission in the form of a complete, legible copy of the entire REMM or ODCM, as appropriate, as a part of or concurrent with the Annual Radioactive Effluent Report for the period of the report in which any change was made. Each change shall be identified by markings in the margin of the affected pages, clearly indicating the area of the page that was changed, and shall indicate the date (e.g., month/year) the change was implemented.

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### 6.1 RESPONSIBILITY

6.1.1 The Senior Vice President and Chief Nuclear Officer (CNO) - Millstone shall be responsible for overall operation of the Millstone Station site while the Vice President - Millstone Unit 3 shall be responsible for overall unit safe operation and the Unit 3 Unit Director shall be responsible for operation of the unit. The Senior Vice President and CNO - Millstone, Vice President - Millstone Unit 3 and Unit 3 Unit Director shall each delegate in writing the succession to these responsibilities during their absence.

### 6.2 ORGANIZATION

#### 6.2.1 OFFSITE AND ONSITE ORGANIZATIONS

Onsite and offsite organizations shall be established for unit operation and corporate management, respectively. The onsite and offsite organizations shall include the positions for activities affecting the safety of the nuclear power plant.

- a. Lines of authority, responsibility, and communication shall be established and defined for the highest management levels through intermediate levels to and including all operating organization positions. These relationships shall be documented and updated, as appropriate, in the form of organization charts, functional descriptions of departmental responsibilities and relationships, and job descriptions for key personnel positions, or in equivalent forms of documentation. These requirements shall be documented in the Quality Assurance Topical Report.
- b. The Vice President - Millstone Unit 3 shall be responsible for overall unit safe operation and shall have control over those onsite activities necessary for safe operation and maintenance of the plant.
- c. The Senior Vice President and CNO - Millstone shall have corporate responsibility for overall plant nuclear safety and shall take any measures needed to ensure acceptable performance of the staff in operating, maintaining, and providing technical support to the plant to ensure nuclear safety.
- d. The individuals who train the operating staff and those who carry out health physics and quality assurance functions may report to the appropriate onsite manager; however, they shall have sufficient organizational freedom to ensure their independence from operating pressures.

#### 6.2.2 FACILITY STAFF

- a. Each on-duty shift shall be composed of at least the minimum shift crew composition shown in Table 6.2-1;



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### 6.2.3 INDEPENDENT SAFETY ENGINEERING GROUP (ISEG)

#### FUNCTION

6.2.3.1 The ISEG shall include, as part of its function, examination of unit operating characteristics, NRC issuances, industry advisories, Licensee Event Reports, and other sources of unit design and operating experience information, including units of similar design, which may indicate areas for improving unit safety. The ISEG shall make detailed recommendations for revised procedures, equipment modifications, maintenance activities, operations activities, or other means of improving unit safety to appropriate station/corporation management.

#### COMPOSITION

6.2.3.2 The ISEG shall be composed of at least four full-time personnel located on site to perform the functions described in 6.2.3.1 for Millstone Unit 3. Each person shall have either:

- (1) A bachelor's degree in engineering or related science and at least 2 years of professional level experience in his field, at least 1 year of which experience shall be in the nuclear field, or,
- (2) At least 10 years of professional level experience in his field, at least 5 years of which experience shall be in the nuclear field.

A minimum of 50% of these personnel shall have the qualifications specified in (1) above.

#### RESPONSIBILITIES

6.2.3.3 The ISEG shall be responsible for maintaining surveillance of unit activities to provide independent verification\* that these activities are performed correctly and that human errors are reduced as much as practical.

#### RECORDS

6.2.3.4 Records of activities performed by the ISEG shall be prepared and maintained, and quarterly reports of completed safety evaluations will be made to the Vice President-Nuclear Oversight.

### 6.2.4 SHIFT TECHNICAL ADVISOR

6.2.4.1 The Shift Technical Advisor shall provide advisory technical support to the Shift Supervisor in the areas of thermal hydraulics, reactor engineering, and plant analysis with regard to the safe operation of the unit. The Shift Technical Advisor shall have a bachelor's degree or equivalent in a scientific or engineering discipline and shall have received specific training in the response and analysis of the unit for transients and accidents, and in unit design and layout, including the capabilities of instrumentation and controls in the control room.

\*Not responsible for sign-off function.

### 6.3 FACILITY STAFF QUALIFICATIONS

6.3.1 Each member of the facility staff shall meet or exceed the minimum qualifications of ANSI N18.1-1971 for comparable positions, except for:

- a. If the Operations Manager does not hold a senior reactor operator license for Millstone Unit No. 3, then the Operations Manager shall have held a senior reactor operator license at a pressurized water reactor, and the Assistant Operations Manager shall hold a senior reactor operator license for Millstone Unit No. 3.
- b. The Health Physics Manager shall meet or exceed the qualifications of Regulatory Guide 1.8, Revision 1, May 1977.

### 6.4 TRAINING

6.4.1 A retraining and replacement training program for the facility staff shall be maintained under the direction of the Senior Vice President and CNO - Millstone and shall meet or exceed the requirements and recommendations of Section 5.5 of ANSI N18.1-1971 and 10 CFR Part 55.59. The Director-Nuclear Training has the overall responsibility for the implementation of the Training Program.

6.4.2 Deleted.

### 6.5 REVIEW AND AUDIT

#### 6.5.1 PLANT OPERATIONS REVIEW COMMITTEE (PORC)

##### FUNCTION

6.5.1.1 The PORC shall function to advise the Unit 3 Unit Director on all matters related to nuclear safety.

##### COMPOSITION

6.5.1.2 The PORC shall be composed of nine to eleven members. Members shall collectively have experience and expertise in the following areas:

- Plant Operations
- Engineering
- Reactor Engineering
- Maintenance
- Instrumentation and Controls
- Health Physics
- Chemistry
- Work Planning
- Quality Assurance

The minimum qualifications of PORC members shall be that all members have an academic degree in an engineering or physical science field, or hold a management position, and have a minimum of five years technical experience in their respective field of expertise. The members of PORC shall be appointed in writing by the Unit 3 Unit Director. The Chairperson and alternate Chairperson of the PORC shall be drawn from the PORC members and be appointed in writing by the Unit 3 Unit Director.

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### ALTERNATES

6.5.1.3 All alternate members shall be appointed in writing by the PORC Chairperson to serve on a temporary basis; however, no more than two alternates shall participate as voting members in PORC activities at any one time.

### MEETING FREQUENCY

6.5.1.4 The PORC shall meet at least once per calendar month and as convened by the PORC Chairperson.

### QUORUM

6.5.1.5 The quorum of the PORC shall consist of the Chairperson or Vice Chairperson and four members including alternates.

### RESPONSIBILITIES

6.5.1.6 The PORC shall be responsible for:

- a. Review of: (1) all procedures, except common site procedures, required by Specification 6.8 and changes thereto, 2) all programs, except common site programs required by Specification 6.8 and changes thereto, and (3) any other proposed procedures, programs or changes thereto as determined by the Unit 3 Unit Director to affect nuclear safety. Procedures and programs required by Specification 6.8 that are designated for review and approval by the Station Qualified Reviewer Program do not require PORC review.
- b. Review of all proposed tests and experiments that affect nuclear safety;
- c. Review of all proposed changes to Sections 1.0-5.0 of these Technical Specifications;
- d. Review of all proposed changes or modifications to plant systems or equipment that affect nuclear safety;
- e. Investigation of all violations of the Technical Specifications, including the preparation and forwarding of reports covering evaluation and recommendations to prevent recurrence, to the Senior Vice President and CNO - Millstone, Vice President - Millstone Unit 3 and to the Chairperson of the Nuclear Safety Assessment Board;
- f. Review of all REPORTABLE EVENTS;
- g. Review of facility operations to detect potential safety hazards;
- h. Performance of special reviews, investigations, or analyses and reports thereon as requested by the Chairperson of the Nuclear Safety Assessment Board or the Senior Vice President and CNO - Millstone or Vice President - Millstone Unit 3; and
- i. Render determinations in writing if any item considered under Specification 6.5.1.6a. through d. above, as appropriate and as provided by 10CFR50.59 or 10CFR50.92, constitutes an unreviewed safety question, or requires a significant hazards consideration determination.

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- j. Review of Unit Turbine Overspeed Protection Maintenance and Testing Program and revision thereto.
- k. Review of the Fire Protection Program and implementing procedures.

### AUTHORITY

6.5.1.7 The PORC shall:

- a. Recommend to the Unit 3 Unit Director written approval or disapproval of items considered under Specification 6.5.1.6a. through d. above; and
- b. Provide written notification to the Senior Vice President and CNO - Millstone, Vice President - Millstone Unit 3 and the Chairperson of the Nuclear Safety Assessment Board of disagreement between the PORC and the Unit 3 Unit Director; however, the Unit 3 Unit Director shall have responsibility for resolution of such disagreements pursuant to Specification 6.1.1.

### RECORDS

6.5.1.8 The PORC shall maintain written minutes of each meeting and copies shall be provided to the Senior Vice President and CNO - Millstone and the Chairperson of the Nuclear Safety Assessment Board.

### 6.5.2 SITE OPERATIONS REVIEW COMMITTEE (SORC)

#### FUNCTION

6.5.2.1 The SORC shall function to advise the Senior Vice President and CNO - Millstone on all matters related to nuclear safety of the entire Millstone Station Site.

#### COMPOSITION

6.5.2.2 The SORC shall be composed of the:

|              |   |
|--------------|---|
| Chairperson: | Senior Vice President and CNO - Millstone |
| Member:      | Director, Unit Operations                 |
| Member:      | Unit 2 Unit Director                      |
| Member:      | Unit 3 Unit Director                      |
| Member:      | Director, Nuclear Services                |
| Member:      | Manager, General Services                 |
| Member:      | Designated Member of Unit 1 PORC          |
| Member:      | Designated Member of Unit 2 PORC          |
| Member:      | Designated Member of Unit 3 PORC          |
| Member:      | Designated Member of Nuclear Oversight    |

The Senior Unit Director/Director, Unit Operations in attendance shall be the Vice Chairperson.

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### ALTERNATES

6.5.2.3 Alternate members shall be appointed in writing by the SORC Chairperson to serve on a temporary basis; however, no more than two alternates shall participate in SORC activities at one time.

### MEETING FREQUENCY

6.5.2.4 The SORC shall meet at least once per 6 months and as convened by the SORC Chairperson.

### QUORUM

6.5.2.5 A quorum of the SORC shall consist of the Chairperson or Vice Chairperson and five members including alternates.

### RESPONSIBILITIES

6.5.2.6 The SORC shall be responsible for:

- a. Review of (1) all common site procedures required by Specification 6.8 and changes thereto, (2) all common site programs, required by Specification 6.8 and changes thereto, (3) any other proposed procedures, programs, or changes thereto as determined by the Senior Vice President and CNO - Millstone to affect site nuclear safety. Common site programs and procedures required by Specification 6.8 that are designated for review and approval by the Station Qualified Reviewer Program do not require SORC review.
- b. Review of all proposed changes to Section 6.0 "Administrative Controls" of these Technical Specifications;
- c. Performance of special reviews and investigations and reports as requested by the Chairperson of the Nuclear Safety Assessment Board;
- d. Not used.
- e. Not used.
- f. Review of all common site proposed tests and experiments that affect nuclear safety;
- g. Review of all common site proposed changes or modifications to systems or equipment that affect nuclear safety; and
- h. Render determinations in writing or meeting minutes if any item considered under Specification 6.5.2.6(a) through (g) above, as appropriate and as provided by 10CFR50.59 or 10CFR50.92 constitutes an unreviewed safety question or requires a significant hazards consideration determination.
- i. Review of the common site Fire Protection Program and implementing procedures.



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### AUTHORITY

6.5.2.7 The SORC shall:

- a. Recommend to the Senior Vice President and CNO - Millstone written approval or disapproval in meeting minutes of items considered under Specification 6.5.2.6(a) through (g) above, and
- b. Provide immediate written notification or meeting minutes to the President and Chief Executive Officer (CEO) and the Chairperson of the Nuclear Safety Assessment Board of disagreement between the SORC and the Senior Vice President and CNO - Millstone; however, the Senior Vice President and CNO - Millstone shall have responsibility for resolution of such disagreements pursuant to 6.1.1 above.

### RECORDS

6.5.2.8 The SORC shall maintain written minutes of each meeting and copies shall be provided to the Senior Vice President and CNO - Millstone and Chairperson of the Nuclear Safety Assessment Board.

### 6.5.3 NUCLEAR SAFETY ASSESSMENT BOARD (NSAB)

#### FUNCTION

6.5.3.1 The minimum qualifications of NSAB members are as follows:

- a. The Chairperson and NSAB members shall have:
  - 1) An academic degree in an engineering or physical science field, or hold a senior management position, and
  - 2) A minimum of five years technical experience in their respective field of expertise.
- b. The NSAB shall have experience in and shall function to provide independent oversight review and audit of designated activities in the areas of:
  - 1) Nuclear power plant operations;
  - 2) Nuclear engineering;
  - 3) Chemistry and radiochemistry;
  - 4) Metallurgy;
  - 5) Instrumentation and control;
  - 6) Radiological safety;

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- 7) Mechanical and electrical engineering; and
- 8) Quality assurance practices.

The NSAB serves to advise the President and CEO on matters related to nuclear safety and notify the President and CEO within 24 hours of a safety significant disagreement between the NSAB and the organization or function being reviewed.

### COMPOSITION

6.5.3.2 The President and CEO shall appoint, in writing, a minimum of seven members to the NSAB and shall designate from this membership, in writing, a Chairperson and a Vice Chairperson. The membership shall function to provide independent review and audit in the areas listed in Specification 6.5.3.1.

### ALTERNATES

6.5.3.3 All alternate members shall be appointed, in writing, by the President and CEO; however, no more than two alternates shall participate as members in NSAB activities at any one time.

### MEETING FREQUENCY

6.5.3.4 The NSAB shall meet at least once per calendar quarter.

### QUORUM

6.5.3.5 The quorum of the NSAB shall consist of a majority of NSAB members including the Chairperson or Vice Chairperson. No more than a minority of the quorum shall have line responsibility for operation of the same Northeast Utilities' nuclear unit. No more than two alternates shall be appointed as members at any meeting in fulfillment of the quorum requirements.

### REVIEW RESPONSIBILITIES

- 6.5.3.6 The NSAB shall be responsible for the review of:
- a. The safety evaluations for changes to procedures, equipment, or systems, and tests or experiments completed under the provisions of 10 CFR 50.59, to verify that such actions did not constitute an unreviewed safety question as defined in 10 CFR 50.59;
  - b. Proposed changes to procedures, equipment, or systems that involve an unreviewed safety question as defined in 10 CFR 50.59;
  - c. Proposed tests or experiments that involve an unreviewed safety question as defined in 10 CFR 50.59;

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- d. Proposed changes to Technical Specifications and the Operating License;
- e. Violations of applicable codes, regulations, orders, license requirements, or internal procedures having nuclear safety significance;
- f. All Licensee Event Reports required by 10 CFR 50.73;
- g. Indications of significant unanticipated deficiencies in any aspect of design or operation of structures, systems, or components that could affect nuclear safety;
- h. Significant accidental, unplanned, or uncontrolled radioactive releases, including corrective actions to prevent recurrence;
- i. Significant operating abnormalities or deviations from normal and expected performance of equipment that could affect nuclear safety;
- j. The performance of the corrective action program; and
- k. Audits and audit plans.

Reports or records of these reviews shall be forwarded to the President and CEO within 30 days following completion of the review.

### AUDIT PROGRAM RESPONSIBILITIES

6.5.3.7 The NSAB audit program shall be the responsibility of the Audits and Evaluation Department. NSAB audits shall be performed at least once per 24 months in accordance with Nuclear Group Procedures and shall encompass:

- a. The conformance of unit operation to provisions contained within the Technical Specifications and applicable license conditions;
- b. The training and qualifications of the unit staff;
- c. The implementation of all programs required by Specification 6.8;
- d. The Fire Protection Program and implementing procedures.
- e. The fire protection equipment and program implementation utilizing either a qualified offsite license fire protection engineer or an outside independent fire protection consultant.
- f. Actions taken to correct deficiencies occurring in equipment, structures, systems, components, or method of operation that affect nuclear safety; and
- g. Other activities and documents as requested by the President and CEO.

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### RECORDS

6.5.3.8 Written records of reviews and audits shall be maintained. As a minimum these records shall include:

- a. Results of the activities conducted under the provisions of Section 6.5.3;
- b. Recommended approval or disapproval of items considered under Specifications 6.5.1.6.a through 6.5.1.6.d, and 6.8; and
- c. Determination as to whether each item considered under Specification 6.5.1.6.a, 6.5.1.6.b, 6.5.1.6.d, and 6.8 constitute an unreviewed safety question as defined in 10 CFR 50.59.

### 6.5.4 Station Qualified Reviewer Program

#### Function

6.5.4.1 The Unit 3 Unit Director or Vice President - Millstone Unit 3 or Senior Vice President and CNO - Millstone may establish a Station Qualified Reviewer Program whereby required reviews of designated procedures or classes of procedures required by Specifications 6.5.1.6.a and 6.5.2.6.a are performed by Station Qualified Reviewers and approved by designated managers. These reviews are in lieu of reviews by the PORC or SORC. However, procedures which require a 10 CFR 50.59 evaluation must be reviewed by the PORC or SORC.

#### Responsibilities

6.5.4.2 The Station Qualified Reviewer Program shall:

- a. Provide for the review of designated procedures, programs, and changes thereto by a qualified Reviewer(s) other than the individual who prepared the procedure, program, or change.
- b. Provide for cross-disciplinary review of procedures, programs, and changes thereto when organizations other than the preparing organization are affected by the procedure, program, or change.
- c. Ensure cross-disciplinary reviews are performed by a Qualified Reviewer(s) in affected disciplines, or by other persons designated by cognizant Managers or Directors as having specific expertise required to assess a particular procedure, program, or change. Cross-disciplinary reviewers may function as a committee.
- d. Provide for a screening of designated procedures, programs and changes thereto to determine if an evaluation should be performed in accordance with the provisions of 10 CFR 50.59 to verify that an unreviewed safety question does not exist. This screening will be performed by personnel trained and qualified in performing 10 CFR 50.59 evaluations.

- e. Provide for written recommendation by the Qualified Reviewer(s) to the responsible Manager for approval or disapproval of procedures and programs considered under Specification 6.5.1.6.a and 6.5.2.6.a and that the procedure or program was screened by a qualified individual and found not to require a 10 CFR 50.59 evaluation.

6.5.4.3 If the responsible manager determines that a new program, procedure, or change thereto requires a 10 CFR 50.59 evaluation, that Manager will ensure the required evaluation is performed to determine if the new procedure, program, or change involves an unreviewed safety question. The new procedure, program, or change will then be forwarded with the 10 CFR 50.59 evaluation to PORC or SORC for review.

6.5.4.4 Personnel recommended to the Station Qualified Reviewers shall be designated in writing by the Unit 3 Unit Director or Vice President - Millstone Unit 3 or Senior Vice President and CNO - Millstone for each procedure, program, or class of procedure or program within the scope of the Station Qualified Reviewer Program.

6.5.4.5 Temporary procedure changes shall be made in accordance with Specification 6.8.3 with the exception that changes to procedures for which reviews are assigned to Qualified Reviewers will be reviewed and approved as described in Specification 6.5.4.2.

#### Records

6.5.4.6 The review of procedures and programs performed under the Station Qualified Reviewer Program shall be documented in accordance with administrative procedures.

#### Training and Qualification

6.5.4.7 The training and qualification requirements of personnel designated as a Qualified Reviewer in accordance with the Station Qualified Reviewer Program shall be in accordance with administrative procedures. Qualified reviewers shall have:

- a. A Bachelors degree in engineering, related science, or technical discipline, and two years of nuclear power plant experience;

OR

- b. Six years of nuclear power plant experience;

OR

- c. An equivalent combination of education and experience as approved by a Department Manager.



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### 6.6 REPORTABLE EVENT ACTION

6.6.1 The following actions shall be taken for REPORTABLE EVENTS:

- a. The Commission shall be notified and a report submitted pursuant to the requirements of Section 50.73 to 10 CFR Part 50, and
- b. Each REPORTABLE EVENT shall be reviewed by the PORC and the results of this review shall be submitted to the Chairperson of the NSAB and the Senior Vice President and CNO - Millstone.

### 6.7 SAFETY LIMIT VIOLATION

6.7.1 The following actions shall be taken in the event a Safety Limit is violated:

- a. The Unit shall be placed in at least HOT STANDBY within one hour.
- b. The NRC Operations Center shall be notified by telephone as soon as possible and in all cases within 1 hour. The Senior Vice President and CNO - Millstone and the Chairperson of the NSAB shall be notified within 24 hours;
- c. A Safety Limit Violation Report shall be prepared. The report shall be reviewed by the PORC. This report shall describe:  
(1) applicable circumstances preceding the violation, (2) effects of the violation upon facility components, systems, or structures, and (3) corrective action taken to prevent recurrence;
- d. The Safety Limit Violation Report shall be submitted to the Commission, the Chairperson of the NSAB, and the Senior Vice President and CNO - Millstone within 14 days of the violation; and
- e. Operation shall not be resumed until authorized by the Commission.

### 6.8 PROCEDURES AND PROGRAMS

6.8.1 Written procedures shall be established, implemented, and maintained covering the activities referenced below:

- a. The applicable procedures recommended in Appendix A of Regulatory Guide 1.33, Revision 2, February 1978;
- b. The applicable procedures required to implement the requirements of NUREG-0737 and supplements thereto;
- c. Refueling operations;
- d. Surveillance activities of safety related equipment;
- e. Not used.

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- f. Not used.
- g. Fire Protection Program implementation;
- h. Quality controls for effluent monitoring, using the guidance in Regulatory Guide 1.21, Rev. 1, June 1974; and
- i. Radiological Effluent Monitoring and Offsite Dose Calculation Manual (REMODOCM) implementation except for Section I.E, Radiological Environmental Monitoring.

- 6.8.2
- a. The Unit 3 Unit Director or Vice President - Millstone Unit 3 or Senior Vice President and CNO - Millstone may designate specific procedures and programs, or classes of procedures and programs to be reviewed in accordance with the Station Qualified Reviewer Program in lieu of review by the PORC or SORC. The review per the Qualified Reviewer Program shall be in accordance with Specification 6.5.4.
  - b. Procedures and programs listed in Specification 6.8.1, and changes thereto, shall be approved by the Unit 3 Unit Director or Senior Vice President and CNO - Millstone or by cognizant Manager or Directors who are designated as the Approval Authority by the Unit 3 Unit Director or Senior Vice President and CNO - Millstone, as specified in administrative procedures. The Approval Authority for each procedure and program or class of procedure and program shall be specified in administrative procedures.
  - c. Each procedure of Specification 6.8.1, and changes thereto, shall be reviewed by the PORC or SORC and shall be approved by the Unit 3 Unit Director or Senior Vice President and CNO - Millstone, or be reviewed and approved in accordance with the Station Qualified Reviewer Program, prior to implementation. Each procedure of Specification 6.8.1 shall be reviewed periodically as set forth in administrative procedures.

6.8.3 Temporary changes to procedures of Specification 6.8.1 may be made provided:

- a. The intent of the original procedure is not altered;
- b. The change is approved by two members of the plant management staff, at least one of whom holds a Senior Operator license on the unit affected; and
- c. The change is documented, reviewed by the PORC or SORC or Station Qualified Reviewer Program, as appropriate, and approved by the Station Qualified Reviewer Program Department Manager or Unit 3 Unit Director or Senior Vice President and CNO - Millstone within 14 days of implementation.

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### 6.13 RADIOLOGICAL EFFLUENT MONITORING AND OFFSITE DOSE CALCULATION MANUAL (REMODCM)

Section I, Radiological Effluent Monitoring Manual (REMM), shall outline the sampling and analysis programs to determine the concentration of radioactive materials released offsite as well as dose commitments to individuals in those exposure pathways and for those radionuclides released as a result of station operation. It shall also specify operating guidelines for radioactive waste treatment systems and report content.

Section II, the Offsite Dose Calculation Manual (ODCM), shall describe the methodology and parameters to be used in the calculation of offsite doses due to radioactive gaseous and liquid effluents and in the calculations of gaseous and liquid effluent monitoring instrumentation alarm/trip setpoints consistent with the applicable LCOs contained in these technical specifications.

Changes to the REMODCM:

- a. Shall be documented and records of reviews performed shall be retained as required by Specification 6.10.30. This documentation shall contain:
  - 1) Sufficient information to support the change together with the appropriate analyses or evaluations justifying the change(s), and
  - 2) A determination that the change will maintain the level of radioactive effluent control required by 10 CFR 20.106, 40 CFR Part 190, 10 CFR 50.36a, and Appendix I to 10 CFR Part 50 and not adversely impact the accuracy or reliability of effluent, dose, or setpoint calculations.
- b. Shall become effective after review and acceptance by SORC and the approval of the Senior Vice President and CNO - Millstone.
- c. Shall be submitted to the Commission in the form of a complete, legible copy of the entire REMM or ODCM, as appropriate, as a part of or concurrent with the Annual Radioactive Effluent Report for the period of the report in which any change was made. Each change shall be identified by markings in the margin of the affected pages, clearly indicating the area of the page that was changed, and shall indicate the date (e.g., month/year) the change was implemented.

### 6.14 RADIOACTIVE WASTE TREATMENT

Procedures for liquid and gaseous radioactive effluent discharges from the Unit shall be prepared, approved, maintained and adhered to for all operations involving offsite releases of radioactive effluents. These procedures shall specify the use of appropriate waste treatment systems utilizing the guidance provided in the REMODCM.

The Solid Radioactive Waste Treatment System shall be operated in accordance with the Process Control Program to process wet radioactive wastes to meet shipping and burial ground requirements.