



Northeast Nuclear
Energy Company

Memo

Decomm-00-373

Date: September 25, 2000
To: Millstone Unit 1 Northeast Utilities Quality Assurance Program Topical Report
Controlled Copy Holders
From: S. Strout, NSRA
Subject: Distribution of MP1 NUQAP Revision 1 Change 1

Enclosed is Millstone Unit 1 Northeast Utilities Quality Assurance Program (MP1 NUQAP) Topical Report Revision 1. This revision was approved as LBDCR M1-00-032 and replaces Appendix F.

Change Instructions:

Remove

Appendix F Rev 1 Change 0

Insert

Summary of
Change 1 to Revision 1

Appendix F Rev 1 Change 1

This change becomes effective On October 2, 2000 and must be inserted in the manual by that date.

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

Enclosure

cc: R. B. Lundin
Nuclear Records
File

Summary of Change 1 to Revision 1

Section	Description of Changes
Appendix F	<ol style="list-style-type: none">1. The PORC Responsibilities item a, SORC Responsibilities item a, and NSAB Audit Program Responsibilities item c, are all revised to refer to Specification 5.6 when referring to "Programs."2. The superscript (1) in the title on page 1 and the endnote on page 12 which refers to Administrative Letter 95-06 are being removed.3. The numbering is being removed from the Note on page 1 which only has one element.4. A stray square bracket " [" has been removed from the last member of the SORC composition list on page 4.5. A reference to "CFR part 50.59" was corrected to "10 CFR 50.59" on page 12.

APPENDIX F

MILLSTONE UNIT 1 QUALITY ASSURANCE PROGRAM

ADMINISTRATIVE CONTROLS

NOTE

"Specification" numbers refer to the Unit 1 Technical Specification.

1.0 REVIEW AND AUDIT

1.1 PLANT OPERATION REVIEW COMMITTEE (PORC)

1.1.1 Function

The PORC shall function to advise the Director - Unit 1 Operations on all matters related to nuclear safety.

1.1.2 Composition

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 1 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 1 Operations.

1.1.3 Alternates

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.

1.1.4 Meeting Frequency

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

1.1.5 Quorum

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

1.1.6 Responsibilities

The PORC shall be responsible for:

- a. Review of 1) all procedures, except common site procedures, required by Specification 5.5 and changes thereto, 2) all programs, except common site programs, required by Specification 5.6 and changes thereto, 3) any other proposed procedures, programs, or changes thereto as determined by the Director - Unit 1 Operations to affect nuclear safety. Procedures and programs required by Specification 5.5 and 5.6 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 - 4.0 of the 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 (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 unit-specific Fire Protection Program and implementing procedure.

1.1.7 Authority

The PORC shall:

- a. Recommend to the Director - Unit 1 Operations written approval or disapproval of items considered under Responsibilities (a) through (d) above.
- b. Provide immediate written notification to the Senior Vice President and CNO - Millstone and the Chairperson of the Nuclear Safety Assessment Board of disagreement between the PORC and the Director - Unit 1 Operations; however, the Director - Unit 1 Operations shall have responsibility for resolution of such disagreements pursuant to Specification 5.1.1.

1.1.8 Records

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.

1.2 SITE OPERATIONS REVIEW COMMITTEE (SORC)

1.2.1 Function

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.

1.2.2 Composition

The SORC shall be composed of the:

Chairperson: Senior Vice President and CNO Millstone.
Member: Director - Unit 1 Operations.

Member: Unit 2 Designated Manager [See note below]
Member: Unit 3 Designated Manager [See note below]
Member: Manager - Radiation Protection and Waste Services.
Member: Director - Site Services
Member: Designated Member of Unit 1 PORC.
Member: Designated Member of Unit 2/3 PORC.
Member: Designated Member of Unit 2/3 PORC.
Member: Designated Member of Nuclear Oversight.

NOTE:

The positions of "Unit 2 Designated manager" and "Unit 3 Designated manager" shall be filled by any two of the following: Station Director, Assistant Station Director - Safety, Manager-Operations (Millstone 2), Manager - Operations (Unit 3).

The senior designated Unit manager [senior individual among the Unit 1 Designated manager, Unit 2 Designated manager, and Unit 3 Designated manager] in attendance shall be the Vice-Chairperson.

1.2.3 Alternates:

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.

1.2.4 Meeting Frequency

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

1.2.5 Quorum

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

1.2.6 Responsibilities

The SORC shall be responsible for:

- a. Review of 1) all common site procedures required by Specification 5.5 and changes thereto, 2) all common site programs, required by Specification 5.6 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 5.5 and 5.6 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 5.0 "Administrative Controls" of the 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 (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.

1.2.7 Authority

The SORC shall:

- a. Recommend to the Senior Vice President and CNO - Millstone written approval or disapproval in meeting minutes of items considered under Responsibilities (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 Specification 5.1.1.

1.2.8 Records

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.

1.3 NUCLEAR SAFETY ASSESSMENT BOARD (NSAB)

1.3.1 Function

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 Senior Vice President and CNO - Millstone on matters related to nuclear safety and notify the Senior Vice President and CNO - Millstone within 24 hours of a safety significant disagreement between the NSAB and the organization or function being reviewed.

1.3.2 Composition

The Senior Vice President and CNO - Millstone 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 Function (b) above.

1.3.3 Alternates

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

1.3.4 Meeting Frequency

The NSAB shall meet at least once per calendar quarter.

1.3.5 Quorum

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.

1.3.6 Review Responsibilities

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;
- 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 Senior Vice President and CNO - Millstone within 30 days following completion of the review.

1.3.7 Audit Program Responsibilities

The NSAB audit program shall be the responsibility of the Nuclear Oversight Department. NSAB audits shall be performed at least once per 24 months in accordance with administrative procedures [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 5.6;
- 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 Senior Vice President and CNO - Millstone.

1.3.8 Records

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 this NSAB Section;

- b. Deleted
- c. Deleted

2.0 STATION QUALIFIED REVIEWER PROGRAM

2.1 Function

The Director - Unit 1 Operations, Vice President - Nuclear Work Services, 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 PORC, Responsibilities item (a), and SORC, Responsibilities item (a) are performed by Station Qualified Reviewers and approved by designated managers [Responsible Individual(s) for the procedure(s)]. 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.

2.2 Responsibilities

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 PORC, Responsibilities item (a) and SORC, Responsibilities

item (a), and that the procedure or program was screened by a qualified individual and found not to require a 10 CFR 50.59 evaluation.

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.

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

Temporary procedure changes shall be made in accordance with Specification 5.5.5 with the exception that changes to procedures for which reviews are assigned to Qualified Reviewers will be reviewed and approved as described in Responsibilities (a) through (e) above.

2.3 Records

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

2.4 Training and Qualification

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.

3.0 RECORD RETENTION

- (1) The following records shall be retained for at least five years:
 - a. Records and logs of facility operation covering time interval at each power level.
 - b. Records and logs of principal maintenance activities, inspections, repair and replacement of principal items of equipment related to nuclear safety.
 - c. ALL REPORTABLE EVENTS.
 - d. Records of surveillance activities, inspections, and calibrations required by these technical specifications.
 - e. Records of reactor tests and experiments.
 - f. Records of changes made to operating procedures.
 - g. Records of radioactive shipments.
 - h. Records of sealed source leak tests and results.
 - i. Records of annual physical inventory of all sealed source material of record.

- (2) The following records shall be retained for the duration of the facility operating license:
 - a. Records and drawing changes reflecting facility design modifications made to systems and equipment described in the Final Safety Analysis Report.
 - b. Records of new and irradiated fuel inventory, fuel transfers, and assembly burnup histories.
 - c. Records of facility radiation and contamination surveys.
 - d. Records of radiation exposure for all individuals entering radiation control areas.
 - e. Records of gaseous and liquid radioactive material released to the environs.
 - f. Records of transients or operational cycles for those facility components designed for a limited number of transients or cycles.

- g. Records of training and qualification for current members of the plant staff.
- h. Records of inservice inspections performed pursuant to the Technical Specifications.
- i. Records of quality assurance activities required by the QA Manual.
- j. Records of reviews performed for changes made to procedures or equipment or reviews of tests and experiments pursuant to **10 CFR 50.59**
- k. Records of meetings of the PORC, the NSAB, and the SORC.
- l. Records of Environmental Qualification.
- m. Records of reviews performed for changes made to the Radiological Effluent Monitoring and Offsite Dose Calculation Manual (REMODOCM) and the Process Control Program.