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Item	Facility	Type	Sub	Document Number / Title	Sheet	Revision	Doc Date	Copy #	Media	Copies
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*0001*

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# Memo

NO-01-0100  
April 3, 2001

**TO:** Quality Assurance Program Topical Report - Controlled Copy Owners  
**FROM:**   
Dorothy Bruce, QAP Coordinator  
**SUBJECT:** Quality Assurance Program (QAP) Topical Report - Millstone Power Station  
Revision 22, Change 5 - Corrected - QAP 8.0 and 10.0 (Document No. MP-02-OST-BAP01)

Enclosed please find corrections to Quality Assurance Program (QAP) Topical Report - Millstone Power Station, Revision 22, Change 5. The change modified the entire Quality Assurance Program Topical Report (formerly known as the NUQAP) to address the change in ownership/license holder.

The effective date of Revision 22, Change 5, was **March 31, 2001**. **Change 5 was distributed to Controlled Copy Owners on April 2, 2001**. The footer in Sections 8.0 and 10.0 of the QAP change contained typos regarding the change number. Please replace QAP 8.0 and QAP 10.0 with the enclosed corrected versions. If you have any questions, contact D. Bruce at X3185.

Enclosure:

Quality Assurance Program Topical Report - Millstone Power Station, Revision 22, Chg.5, Correction to QAP 8.0 and QAP 10.0

DSB/dsb

## 8.0 IDENTIFICATION AND CONTROL OF MATERIALS, PARTS AND COMPONENTS

### 8.1 GENERAL REQUIREMENTS

This **QAP** provides measures for the identification and control of materials, parts and components, including partially fabricated assemblies utilized in quality activities for the Millstone Power Station. To assure that each item can be traced to associated documentation, the identification of the item is maintained by heat number, lot number, part number, serial number, or other appropriate methods, and is physically marked on the item and/or on records traceable to the item. Documentation associated with materials, parts, and components delineate that these items have been designed, fabricated, manufactured, tested and/or inspected in accordance with the specified requirements. The object of these controls is to prevent the use of incorrect or defective materials, parts and components.

These measures also require **the licensee** assure that the identification of inspections, tests, and operation status of structures, systems, and components is known to affected organizations.

### 8.2 IMPLEMENTATION

**Licensee** procedures establish the responsibilities and requirements for the identification and control of materials, parts and components. The procedures assure that identification and control are maintained throughout fabrication, receipt, handling, storage and installation of items. Provisions include:

- a. Requirements for traceability to appropriate documentation such as: purchase orders, contracts, manufacturing documents, drawings, specifications, certifications, inspection and test records, and nonconformance reports;
- b. Controls to assure that the correct identification of an item is verified and documented prior to release for fabrication, assembly, shipping or installation;
- c. Requirements which assure that the method or location of markings do not affect the function or quality of an item;
- d. Establishment of identification requirements in purchase orders, contracts, specifications, drawings, procedures or instructions.

During the performance of quality activities for the Station nuclear power plants, **the licensee** may delegate any portion of the implementation of the identification and control program to a vendor. If delegated, contracts require that the vendor establish an identification and control program which meets this **QAP** requirements. Audits, surveillances, and inspections are performed, as appropriate, to verify that these vendors are effectively complying with their quality assurance program requirements for identification and control of materials, parts and components.

Receipt inspections are performed to verify that materials, parts and components are properly identified in accordance with procurement requirements. Procure the Asset is

responsible for assigning and applying necessary identification to the items in accordance with applicable procedures to assure proper identification and traceability.

In the event that materials, parts or components are nonconforming or the identification becomes lost or illegible, the items are considered nonconforming and are identified and controlled in accordance with QAP 15.0, "Nonconforming Materials, Parts, Components, or Services".

## 10.0 INSPECTION

### 10.1 GENERAL REQUIREMENTS

This **QAP** provides measures to assure that inspections of Millstone **Power** Station nuclear **units** quality structures, systems, and components to verify conformance with documented procedures, instructions and drawings are executed in accordance with procedures by qualified personnel independent from the individual or group performing the activity being inspected. If inspection is impossible or disadvantageous, indirect controls by monitoring processing methods, equipment and personnel are provided. Inspection notification and hold points are identified, as required, in the applicable documents.

### 10.2 IMPLEMENTATION

#### 10.2.1 INSPECTION RESPONSIBILITIES

During the performance of quality activities for the Station nuclear power plants, procedures shall define the need for inspection (e.g., receipt inspection, installation, and product acceptance) to assure quality requirements are met.

Oversight shall perform, as appropriate, audits and surveillances as defined in Oversight procedures to verify that procedural requirements are met.

Oversight shall perform inspections of modification and maintenance activities for quality structures, systems, and components. The criteria used to determine when Oversight inspection shall be required for these activities and for the preparation of inspection plans shall be identified in Oversight procedures. The Oversight inspection function includes:

- a. Identification of inspection personnel;
- b. Review of work procedures and work documents for adequacy of inspection and mandatory hold points;
- c. Preparation and approval of inspection plans ensuring that the necessary inspection requirements, methods, and acceptance criteria have been identified;
- d. Documentation of inspection results.

Audits, surveillances, and inspections, are performed as appropriate, to verify that any vendor utilized to perform quality activities for the Station nuclear power plants are effectively complying with their quality assurance program requirements for inspection and for the performance or witnessing of inspections at hold or notification points identified in procurement documents. Oversight performs audits, surveillances, and inspections, as appropriate, of onsite vendor activities in this area. All audit, surveillance, and inspection activities are performed under requirements specified in quality procedures.

### 10.2.2 INSPECTION PLANS

Documented inspection plans may be either a separate document or an integral part of work instruction documents. The plans are based on design specifications, procurement documents, drawings, other specifications, or previous experience, as appropriate.

During the performance of quality activities, procedures provide criteria for the determination of accuracy requirements of inspection equipment and when inspections are required. These procedures describe requirements for the preparation of inspection plans by Oversight. Audits and surveillances are performed by Oversight, as appropriate, to verify the implementation of the inspection plans.

The inspection criteria, including the use of inspection equipment and their accuracy requirements, are specified in the work procedures, work documents, or inspection plans.

### 10.2.3 INSPECTION PERSONNEL AND INSPECTION DOCUMENT ACCESS

Inspections are performed by individuals other than those who performed or directly supervised the activity being inspected. Inspection personnel are qualified and/or certified in accordance with appropriate codes, standards, and/or *licensee* training programs;

Inspections are performed by Oversight personnel, qualified contracted personnel, and *licensee* personnel who are independent from undue pressure such as cost, or schedule considerations. Oversight shall assure the certification of its contracted inspection personnel is acceptable prior to the performance of inspection activities. When other departments are contracting for onsite quality assurance inspection services, these departments shall be responsible for the review and acceptability of personnel/equipment certification prior to the start of inspection activities. Oversight shall perform audits and surveillances, as appropriate, to verify other department compliance with these requirements.

When vendors are contracted to perform onsite inspection services, their quality control inspection plans/procedures are reviewed and concurred with by Oversight in accordance with QAP 5.0, "Procedures, Instructions, and Drawings".

Access to drawings, procedures, specifications or other documented criteria necessary for the performance of inspections is provided prior to performing the inspection activity.

### 10.2.4 INSPECTION PROCEDURES

Required inspection or surveillance activities are performed and documented according to procedures and/or checklists. Inspection procedures, plans or checklists contain the following:

- a. Identification of characteristics to be inspected;
- b. Identification of the individual or groups responsible for performing the inspections;
- c. Requirements for the necessary measuring and test equipment and the required accuracy of this equipment;
- d. Acceptance criteria;
- e. A description of the method of inspection when other than direct visual examination using the unaided eye;
- f. A record of the results of the inspection;
- g. Record of inspector or data recorder.

Procedures specify surveillance of processing methods or testing and operation of equipment when inspection is impossible, inaccessible or not applicable.

Modification, repair, replacement, or rework items are inspected in accordance with original inspection requirements or approved alternatives.

#### 10.2.5 MANDATORY HOLD AND NOTIFICATION POINTS

Mandatory hold points are utilized when an inspection or operation must be performed or witnessed and signed off by the responsible personnel before work can proceed. Mandatory hold points are identified to assure attributes critical to achieving quality requirements at work completion have been verified. Mandatory notification points are used to identify the operations or completed processes that **licensee** or its representatives may elect to witness and/or inspect during the fabrication, construction and installation process. Mandatory hold points and notification points, as required, are identified in procurement documents and onsite work procedures/work documents. Procurement documents and onsite work procedures/work documents are subject to the review and concurrence for adequacy of inspection, notification and/or mandatory hold controls by Procure the Asset and Oversight, respectively.

#### 10.2.6 INSPECTION RESULTS EVALUATION

Inspection results are evaluated for acceptability in accordance with applicable procedures which identify the responsible organization.

The evaluations are performed by the personnel who are qualified in accordance with the appropriate regulatory guide and endorsed ANSI standard listed in Appendix C.

Oversight performs audits and surveillances, as appropriate, to verify that inspections are performed in accordance with the requirements of applicable procedures.

# Memo

NO-01-0100  
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- b. Controls to assure that the correct identification of an item is verified and documented prior to release for fabrication, assembly, shipping or installation;
- c. Requirements which assure that the method or location of markings do not affect the function or quality of an item;
- d. Establishment of identification requirements in purchase orders, contracts, specifications, drawings, procedures or instructions.

During the performance of quality activities for the Station nuclear power plants, *the licensee* may delegate any portion of the implementation of the identification and control program to a vendor. If delegated, contracts require that the vendor establish an identification and control program which meets this **QAP** requirements. Audits, surveillances, and inspections are performed, as appropriate, to verify that these vendors are effectively complying with their quality assurance program requirements for identification and control of materials, parts and components.

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responsible for assigning and applying necessary identification to the items in accordance with applicable procedures to assure proper identification and traceability.

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### 10.2 IMPLEMENTATION

#### 10.2.1 INSPECTION RESPONSIBILITIES

During the performance of quality activities for the Station nuclear power plants, procedures shall define the need for inspection (e.g., receipt inspection, installation, and product acceptance) to assure quality requirements are met.

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Oversight shall perform inspections of modification and maintenance activities for quality structures, systems, and components. The criteria used to determine when Oversight inspection shall be required for these activities and for the preparation of inspection plans shall be identified in Oversight procedures. The Oversight inspection function includes:

- a. Identification of inspection personnel;
- b. Review of work procedures and work documents for adequacy of inspection and mandatory hold points;
- c. Preparation and approval of inspection plans ensuring that the necessary inspection requirements, methods, and acceptance criteria have been identified;
- d. Documentation of inspection results.

Audits, surveillances, and inspections, are performed as appropriate, to verify that any vendor utilized to perform quality activities for the Station nuclear power plants are effectively complying with their quality assurance program requirements for inspection and for the performance or witnessing of inspections at hold or notification points identified in procurement documents. Oversight performs audits, surveillances, and inspections, as appropriate, of onsite vendor activities in this area. All audit, surveillance, and inspection activities are performed under requirements specified in quality procedures.

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Documented inspection plans may be either a separate document or an integral part of work instruction documents. The plans are based on design specifications, procurement documents, drawings, other specifications, or previous experience, as appropriate.

During the performance of quality activities, procedures provide criteria for the determination of accuracy requirements of inspection equipment and when inspections are required. These procedures describe requirements for the preparation of inspection plans by Oversight. Audits and surveillances are performed by Oversight, as appropriate, to verify the implementation of the inspection plans.

The inspection criteria, including the use of inspection equipment and their accuracy requirements, are specified in the work procedures, work documents, or inspection plans.

## 10.2.3 INSPECTION PERSONNEL AND INSPECTION DOCUMENT ACCESS

Inspections are performed by individuals other than those who performed or directly supervised the activity being inspected. Inspection personnel are qualified and/or certified in accordance with appropriate codes, standards, and/or *licensee* training programs;

Inspections are performed by Oversight personnel, qualified contracted personnel, and *licensee* personnel who are independent from undue pressure such as cost, or schedule considerations. Oversight shall assure the certification of its contracted inspection personnel is acceptable prior to the performance of inspection activities. When other departments are contracting for onsite quality assurance inspection services, these departments shall be responsible for the review and acceptability of personnel/equipment certification prior to the start of inspection activities. Oversight shall perform audits and surveillances, as appropriate, to verify other department compliance with these requirements.

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Access to drawings, procedures, specifications or other documented criteria necessary for the performance of inspections is provided prior to performing the inspection activity.

## 10.2.4 INSPECTION PROCEDURES

Required inspection or surveillance activities are performed and documented according to procedures and/or checklists. Inspection procedures, plans or checklists contain the following:

- a. Identification of characteristics to be inspected;
- b. Identification of the individual or groups responsible for performing the inspections;
- c. Requirements for the necessary measuring and test equipment and the required accuracy of this equipment;
- d. Acceptance criteria;
- e. A description of the method of inspection when other than direct visual examination using the unaided eye;
- f. A record of the results of the inspection;
- g. Record of inspector or data recorder.

Procedures specify surveillance of processing methods or testing and operation of equipment when inspection is impossible, inaccessible or not applicable.

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#### 10.2.6 INSPECTION RESULTS EVALUATION

Inspection results are evaluated for acceptability in accordance with applicable procedures which identify the responsible organization.

The evaluations are performed by the personnel who are qualified in accordance with the appropriate regulatory guide and endorsed ANSI standard listed in Appendix C.

Oversight performs audits and surveillances, as appropriate, to verify that inspections are performed in accordance with the requirements of applicable procedures.