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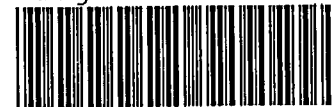
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Item	Facility	Type	Sub	Document Number / Title	Sheet	Revision	Doc Date	Copy #	Media	Copies
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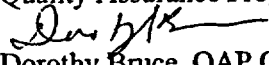
Dominion

Memorandum

NO-02-0137

November 12, 2002

TO: Quality Assurance Program Topical Report - Controlled Copy Owners

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

SUBJECT: Quality Assurance Program (QAP) Topical Report - Millstone Power Station
Revision 24, Change 2 (Document No. MP-02-OST-BAP01)

Enclosed please find Quality Assurance Program (QAP) Topical Report - Millstone Power Station, Revision 24, Change 2. Please insert the NRC correspondence in your controlled copy of the QAP.

Please note that the effective date of Revision 24, Change 2, is **November 12, 2002**. Please replace the entire contents of Quality Assurance Program, Appendices D and E with the enclosed sections. If you have any questions, please contact D. Bruce at X3185.

Attachments: Summary of Changes, Rev. 24, Change 2

Enclosure:

Quality Assurance Program Topical Report - Millstone Power Station, Revision 24, Change 2

DSB/dsb

Summary of Changes to QAP Rev. 24 Incorporated as Change 2

<u>Section</u>	<u>Summary Description of Changes</u>	<u>Reference</u>
Appendix D	Clarifies the definitions for "Audits" to be consistent with QAP commitments to ANSI N45.2.12-1977, Section 1.4 and modifies the definition of "Deficiency", which is not defined in ANSI standards, to be consistent with Dominion NBU practices.	Request 02-12
Appendix G	Addresses Technical Specification changes approved by the NRC and issued as License Amendments #111 (Unit 1), #270 (Unit 2) and #212 (Unit 3). The change modifies cross-references to be consistent with the revised Technical Specifications.	Request 02-11

APPENDIX D

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

GLOSSARY OF QUALITY ASSURANCE TERMS

Accept As Is - (also known as "Use-As-Is") A disposition which may be imposed for a nonconformance when it can be established that the discrepancy will result in no adverse conditions and that the item under consideration will continue to meet all engineering functional requirements including performance, maintainability, fit and safety.

Approved Vendors - Vendors approved to provide material, equipment, parts or services under their quality assurance program.

As-Built Documents - Documents which accurately describe the condition actually achieved in a system, structure, or component. These documents include: material certification and test data; reports of inspections, examinations, and test results; drawing, specifications, procedures, and instructions; and records of nonconformance and their resolution.

Audit - A documented activity performed in accordance with written procedures or checklists to verify by *examination and* evaluation of objective evidence that *applicable elements of the* quality assurance program *have* been developed, documented, and *effectively* implemented in accordance with *specified* requirements.

Augmented Quality - Nonsafety-related items for which a design basis or regulatory commitment has been made. The augmented quality items are included within the scope of Quality Assurance Program. These items fall under nuclear indicators such as FPQA (Fire Protection Quality Assurance), RWQA (Radwaste Quality Assurance), ATWS (Anticipated Transient Without Scram) and SBOQA (Station Blackout Quality Assurance).

Calibration - The process by which measuring and test equipment are checked against standards of known higher accuracy and adjusted as necessary to assure their compliance with designated specifications.

Category I - Designation given to safety-related structures, systems, and components (SSC) of a licensee nuclear power plant and material, equipment, parts, consumables, and services applicable to the safety-related functions of these SSCs.

Category 1 Structures, Systems and Components - For Units 2 and 3, defined in each unit FSAR and functionally described in Appendix A. For Unit 1, defined in the DSAR.

Cleaning - Those actions performed to maintain an item in accordance with cleanliness requirements.

Commercial Grade Item (CGI) - A commercial grade item per 10CFR21 is a structure, system, or component, or part thereof that affects its safety function that was not designed and manufactured as a basic component. Commercial grade items do not include items where the design and manufacturing process require in-process inspections and verifications to assure that defects or failures to comply are identified and corrected (i.e., one or more critical characteristics of the item cannot be verified).

Commercial Grade Survey - Activities conducted by the purchaser to ascertain and verify that a supplier or manufacturer of commercial grade items, controls the technical and quality characteristics determined to be critical for satisfactory performance of specifically designated commercial grade items, as a method to accept those items for safety-related use.

Condition Adverse to Quality - Failures, malfunctions, deficiencies, deviations, defective materials and equipment, abnormal occurrences and nonconformances.

Contractor - Any organization under contract for furnishing items or services.

Corrective Action - Action taken to correct an identified condition adverse to quality.

Deficiency - *Lacking some essential quality (e.g. defective, imperfect, not sufficient, inadequate in amount, quality and/or degree.)*

Department - The use of the word "Department" throughout this QAP can refer to any portion of the licensee organization (i.e., Group, Division, Department, Branch, Section, or Unit, as applicable).

Design - The technical and management process which leads to and includes the issuance of design output documents such as drawings, specifications, and other documents defining technical requirements of structures, systems, and components.

Design Changes - Changes in drawings and specifications that define the design of structures, systems, and components of nuclear power plants.

Design Documents - The drawing, calculation, specification, or other document(s) that define the technical requirements of structures, systems, or components.

Dominion Energy - The company which owns Dominion Nuclear Connecticut, Inc.

Dominion Nuclear Connecticut, Inc. - The subsidiary of Dominion Energy responsible for the operation of the Millstone Power Station nuclear units. (also referred to as "licensee")

Engineering Service Organization - Organizations that provide services such as analysis, computer software, testing, and inspection.

Group - The use of the word "group" in Section 1.0 of this QAP refers to a portion of the licensee organization as applicable (i.e., Department, Unit, Branch).

Handling - An act of physically moving an item by hand or by mechanical machinery, but not including transport modes.

Identification - A means by which material, equipment and parts can be traced to their associated documentation through the use of heat numbers, lot numbers, part numbers, serial numbers, or other appropriate means.

Item - Any level of unit assembly, including structures, systems, subsystems, subassembly, component, part, or material.

Inspection - A phase of quality control which, by means of examination, observation, or measurement, determines the conformance of material, supplies, components, parts, appurtenances, systems, processes, structures, or services to predetermined quality requirements.

Inspection Status - Identification of material, equipment, and parts that have completed inspection, either acceptable or unacceptable.

Licensing Basis - The set of requirements that includes the applicable NRC regulations, plant - specific NRC requirements, plant - specific design basis and regulatory commitments that are docketed and in effect.

Life Records - Those quality documents that are maintained for the lifetime of an in-service nuclear power plant (the duration of the operating license) or for the life of the particular component or part. Life records are those which would be of significant value in meeting one or more of the following criteria:

- (1) demonstrating capability for safe operation.
- (2) maintaining, reworking, repairing, replacing or modifying the item.
- (3) determining the cause of an accident or malfunction of an item.
- (4) providing required base line data for in-service inspection.

Licensee - Dominion Nuclear Connecticut, Inc., current License holder.

Material Request - A formal electronic request for the purchase of material, equipment, parts and/or services.

Measuring and Test Equipment - Those instruments, gages, tools, fixtures, reference and transfer standards, nondestructive test equipment, and measuring devices used during inspection and testing to determine that the measuring and test parameters comply with appropriate requirements in specifications and drawings.

Nonconformance - A deficiency in characteristic documentation or procedure which renders the quality of an item unacceptable or indeterminate.

Non-Life Records - Those quality documents that are maintained for a specific period of time other than the lifetime of the in-service nuclear power plant or the particular component or part.

Nuclear Grade - The procurement classification applied to all materials and services intended for items listed as Category I (CAT I) in the MEPL. These may require validating documentation such as Certificate of Material Test Report, Certificate of Conformance, Certificate of Compliance, personnel qualifications, etc., as specified by codes or standards, and have been designed/qualified for a nuclear application. Nuclear Grade items are manufactured/qualified under a 10CFR50, Appendix B program with the vendor responsible for 10CFR21. The vendor should be an "Approved Vendor".

Nuclear Procedures and Document Administration - The organization responsible for establishing the Nuclear Plant Records Program which is implemented at licensee records retention facilities.

Objective Evidence - Any statement of fact, information, or record, either quantitative or qualitative, pertaining to the quality of an item or service based on observation, measurements, or tests which can be verified.

Preservation - Those actions performed to maintain an item in its original and usable condition.

Procedures and Instructions - Documents that specify how an activity is to be performed. They may include methods to be employed; material, equipment, or parts to be used; and a sequence of operations.

Procurement Documents - Purchase requisitions/material requests, purchase orders, contracts, drawings, specifications or instructions used to define requirements for purchase.

Product Acceptance Test - Activities conducted as part of the receiving or source inspection process to verify acceptability of one or more critical characteristics of the item being inspected.

Purchased Material, Equipment, and Parts (MEP) - Items procured for installation in the Millstone Station nuclear power plants quality structures, systems, and components, and items procured as spare MEP for potential installation in those structures, systems, and components.

Purchased Services - Services provided by vendor when requested under a QA Material Request and performed under a quality assurance program other than this QAP. (Synonymous with "Services" and "Quality Services" in this QAP.)

Quality Activities - All activities affecting the safety functions of structures, systems, and components; these activities include designing, purchasing, fabricating, handling, shipping, storing, cleaning, erecting, installing, inspecting, testing, operating, maintaining, repairing, refueling, and modifying. Quality activities also include those activities associated with Augmented Quality (including Radwaste Packaging and Shipping) and other regulated programs to which this QAP is applicable.

Quality Assurance Records - Any record pertaining to the quality of material, equipment, parts, processes, or operations relating to structures, systems, and components which are founded on observations, measurements, or tests which can be fully checked or verified. Such statements may be recorded on a written or preprinted document or tag. The statements are authorized with a signature or stamp identifiable to the person making the statement of fact.

Quality Assurance Program (QAP) - Millstone Power Station - Consists of this QAP Topical Report, Nuclear Oversight procedures and other Licensee Group/Division/Department/Branch/Section/Unit quality procedures.

Quality Structures, Systems and Components - Structures, systems, and components (SSC) including Safety-Related SSCs, Augmented Quality items, and items under other regulated programs to which this QAP is applicable.

Quality Procedures - Those Nuclear Oversight Department and other department procedures which implement the requirements of this QAP.

Repair - A disposition applied to nonconforming material, equipment, and parts that are unsuitable for their intended purpose which are modified by the use of additional operations and/or processes so that they are suitable for their intended purpose but may not meet all specified requirements.

Reportable Item - An event or condition that could affect nuclear plant safety and must be reported to the NRC in accordance with regulatory requirements such as 10CFR50.72, 10CFR50.73, or 10CFR50.9(b).

Responsible Engineer - A licensee employee assigned the responsibility to coordinate the engineering activities addressed in QAP. The responsible engineer may be designated as the project engineer.

Retest - A test conducted prior to operation following installation inspections of work associated with maintenance and refueling to verify that structures, systems, and components will function satisfactorily when in operation. A retest may also be performed when original test results are invalidated.

Return to Vendor - A disposition applied to nonconforming material, equipment, and parts that are unsuitable for their intended purpose but which are feasible to repair or rework at a vendor's facility.

Rework - A disposition applied to nonconforming material, equipment, and parts that are unsuitable for their intended purpose due to incomplete operations or variations from original engineering requirements but which are modified through the use of additional operations or processes to meet all specified requirements.

Safety-Related Structures, Systems and Components - Those structures, systems and components that are relied on to remain functional during and following design basis (postulated) events to assure:

- 1) The integrity of the reactor coolant pressure boundary;
- 2) The capability to shut down the reactor and maintain it in a safe shutdown condition; and
- 3) The capability to prevent or mitigate the consequences of accidents which could result in potential offsite exposures comparable to the applicable guideline exposures set forth in 10CFR50.34(a)(1) or 10CFR100.11 as applicable.

Significant Condition Adverse to Quality - A condition adverse to quality involving actual or potential consequences that have a serious impact on public or personnel health and safety or plant operations, and requiring a root cause evaluation to determine corrective action to prevent recurrence.

Special Processes - Processes for which the desired level of quality can only be assured through the use of additional process controls, and where control through direct inspection alone is inadequate, impossible, or disadvantageous. These processes are performed under controlled conditions in accordance with special requirements utilizing qualified procedures, equipment, and personnel. Special processes may include, but are not limited to welding, brazing, soldering, cleaning, heat treating, and nondestructive testing.

Station Blackout - The complete loss of alternating current electric power to the essential and non-essential switchgear buses in a nuclear power plant as defined in 10CFR50.2. It involves the loss of offsite power concurrent with turbine trip and failure of the onsite emergency ac power system, but not the loss of available ac power to buses fed by Station batteries through inverters or the loss of power from alternate ac sources.

Storage - The act of holding an item at the site in an area other than its permanent location in a plant.

Surveillance - A documented record of the observation of work operations performed at the Millstone Power Station or vendor's site to assure compliance with applicable codes, standards, specifications, procedures, drawings, and procurement documents. Surveillance may be performed with a prepared checklist.

Test and Operating Status - Identification of material, equipment, and parts that are ready for test or operation, or an existing stage of a test operation.

Testing - The determination or verification of the capability of an item to meet specified requirements by subjecting the item to a set of physical, chemical, environmental, or operating conditions.

Vendors - Organizations that provide material, equipment, parts, computer software, or services. This includes contractors, engineering service organizations, and consultants. (Synonymous with "Supplier" in this QAP)

Work Procedures and Work Documents - Procedures, instructions, and documents used to control and document maintenance and modification work performed on Millstone Station nuclear plant structures, systems, and components.

TECHNICAL SPECIFICATION POSITION CROSS REFERENCE

MILLSTONE UNIT 1

T.S. SECTION	T.S. POSITION	STATION ORGANIZATION POSITION
Responsibility		
5.1.1	<i>designated officer</i> <i>designated manager</i>	Site Vice President Director - Nuclear Station Operations & Maintenance
5.1.2	Shift Manager	Unit 2 Shift Manager
Organization		
5.2.1b Offsite and onsite organizations	<i>designated manager</i>	Director - Nuclear Station Operations & Maintenance
5.2.1c Offsite and onsite organizations	<i>designated officer</i>	Site Vice President
5.2.2	Shift Manager	Unit 2 Shift Manager
Staff Qualifications		
5.3.1	<i>operations manager or assistant operations manager</i>	Manager - Nuclear Operations Unit 2 Supervisor Nuclear Shift Operations
5.3.1.2	<i>radiation protection manager</i>	Supervisor - Health Physics
Procedures		
5.5.2	<i>designated manager</i> <i>designated officer</i> <i>designated senior officer</i>	Director - Nuclear Station Operations & Maintenance Director - Nuclear Station Safety & Licensing Site Vice President Senior Vice President - Nuclear Operations
5.5.3	<i>designated manager</i> <i>designated officer</i>	Director - Nuclear Station Operations & Maintenance Director - Nuclear Station Safety & Licensing Site Vice President
5.5.4	<i>designated manager</i> <i>designated officer</i>	Director - Nuclear Station Operations & Maintenance Director - Nuclear Station Safety & Licensing Site Vice President
5.5.5c	<i>designated manager</i> <i>designated officer</i>	Director - Nuclear Station Operations & Maintenance Director - Nuclear Station Safety & Licensing Site Vice President
5.5.6; 5.5.7	<i>Individual from the organization responsible for REMP</i>	Individual from Nuclear Fuel Engineering or designee

T.S. SECTION	T.S. POSITION	STATION ORGANIZATION POSITION
Radiological Effluent Monitoring and Offsite Dose Calculation Manual (REMDCM)		
5.6.1	<i>designated officer</i>	Site Vice President

Notes:

Generic position titles are as approved by Amendment No. 105 to the Unit 1 Technical Specifications.

MLSTONE UNIT 2

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

Notes:

Generic position titles are as approved by Amendment No. 235 to the Unit 2 Technical Specifications

MILLSTONE UNIT 3

T.S. SECTION	T.S. POSITION	STATION ORGANIZATION POSITION
Responsibility		
6.1.1	<i>designated officer</i> <i>designated manager</i>	Site Vice President Director - Nuclear Station Operations & Maintenance
Organization		
6.2.1b Offsite and onsite organizations	<i>designated manager</i>	Director - Nuclear Station Operations & Maintenance
6.2.1c Offsite and onsite organizations	<i>designated officer</i>	Site Vice President
Facility Staff Qualifications		
6.3.1a	<i>operations manager</i> <i>assistant operations manager</i>	Manager - Nuclear Operations Unit 3 Supervisor Nuclear Shift Operations
6.3.1c	<i>radiation protection manager</i>	Supervisor - Health Physics
Procedures		
6.8.2a	<i>designated manager</i> <i>designated officer</i> <i>designated senior officer</i>	Director - Nuclear Station Operations & Maintenance Director - Nuclear Station Safety & Licensing Site Vice President Senior Vice President - Nuclear Operations
6.8.2b	<i>designated manager</i> <i>designated officer</i>	Director - Nuclear Station Operations & Maintenance Director - Nuclear Station Safety & Licensing Site Vice President
6.8.5	<i>Individual from the organization responsible for REMP</i>	Individual from Nuclear Fuel Engineering or designee
High Radiation Area		
6.12.1c	<i>radiation protection manager</i>	Supervisor - Health Physics

Notes:

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