

# OPERATIONAL QUALITY ASSURANCE PROGRAM DESCRIPTION (WPPSS-QA-004)

APPROVED: L. H. Johnson 12-3-97  
Manager, Quality Date Effective

**REVISION NO. 27**

**ORIGINAL ISSUE: May 10, 1978**



# WASHINGTON PUBLIC POWER SUPPLY SYSTEM

9712220029 971204  
PDR ADOCK 05000397  
P PDR



WASHINGTON PUBLIC POWER

SUPPLY SYSTEM

OPERATIONAL  
QUALITY ASSURANCE PROGRAM DESCRIPTION

PAGE

iii

REV.

27

LIST OF EFFECTIVE PAGES

<u>PAGE</u>	<u>REVISION</u>
i	27
ii	11
iii	27
iv	27
1-1 - 1-12	27
2-1 - 2-4	19
3-1 - 3-2	7
4-1 & 4-2	6
5-1	5
6-1 - 6-3	7
7-1 - 7-2	9
8-1 & 8-2	5
9-1 & 9-2	11
10-1 & 10-2	9
11-1 & 11-2	5
12-1 & 12-2	5
13-1	10
14-1	5
15-1 & 15-2	9
16-1	5
17-1 & 17-2	6
18-1	13
I-1	14
II-1 - II-14	13
III	1



WASHINGTON PUBLIC POWER

SUPPLY SYSTEM

OPERATIONAL  
QUALITY ASSURANCE PROGRAM DESCRIPTION

PAGE

iv

REV.

27

TABLE OF CONTENTS

<u>SECTION</u>	<u>TITLE</u>
N/A	Approval Page
N/A	Management Statement
N/A	List of Effective Pages
N/A	Table of Contents
1	ORGANIZATION
2	QUALITY ASSURANCE (QA) PROGRAM
3	DESIGN CONTROL
4	PROCUREMENT DOCUMENT CONTROL
5	INSTRUCTIONS, PROCEDURES, AND DRAWINGS
6	DOCUMENT CONTROL
7	CONTROL OF PURCHASED MATERIAL, EQUIPMENT, AND SERVICES
8	IDENTIFICATION AND CONTROL OF MATERIALS, PARTS, AND COMPONENTS
9	CONTROL OF SPECIAL PROCESSES
10	INSPECTION
11	TEST CONTROL
12	CONTROL OF MEASURING AND TEST EQUIPMENT
13	HANDLING, STORAGE, AND SHIPPING
14	INSPECTION, TEST, AND OPERATING STATUS
15	NONCONFORMING MATERIALS, PARTS, OR COMPONENTS
16	CORRECTIVE ACTION
17	QUALITY ASSURANCE RECORDS
18	AUDITS
APPENDIX I	QUALIFICATION REQUIREMENTS
APPENDIX II	"POSITION STATEMENTS"
APPENDIX III	ADDITIONAL QUALITY PROGRAM REQUIREMENTS



OPERATIONAL  
QUALITY ASSURANCE PROGRAM DESCRIPTION

1 - ORGANIZATION

1.1 PURPOSE

This section provides a description of the authorities and responsibilities assigned to Supply System organizational units and individuals involved in establishing, implementing, verifying implementation, and measuring the overall effectiveness of the administrative controls and quality assurance program during the initial testing (pre-operational and startup testing) and subsequent operations phases of Supply System nuclear power plants.

1.2 SUPPLY SYSTEM ORGANIZATION

The Supply System organization responsible for establishing, implementing, verifying implementation, and measuring the overall effectiveness of the administrative controls and quality assurance program for its nuclear power plants is as depicted in Figures 1-1 and 1-2.

Portions of these activities may be delegated to external organizations qualified to the requirements of this Operational QA Program, hereafter referred to as QA Program; however, the responsibility shall remain with the Supply System.

1.3 MANAGEMENT RESPONSIBILITIES

- 1.3.1 The Chief Executive Officer is responsible for the establishment of policies and for overall management of Supply System operations. The Chief Executive Officer has issued a Management Statement which commits the Supply System to design, construct, and operate its nuclear power plants without jeopardy to the health and safety of the public. The Chief Executive Officer has the responsibilities as the Chief Nuclear Officer, is the ultimate Supply System authority on matters involving Plant Nuclear Safety and Quality, and appoints the members of the Corporate Nuclear Safety Review Board (CNSRB), including the Chairman and Alternate Chairman. The Chief Nuclear Officer operates through the Vice President, Nuclear Operations; Vice President, Operations Support/Public Information Officer; and Vice President, Administration/Chief Financial Officer, to provide for engineering, construction, procurement, quality assurance/quality control, and operations activities for Supply System nuclear power plants.



100

100

100

OPERATIONAL  
QUALITY ASSURANCE PROGRAM DESCRIPTION

1.3.2 The Vice President, Nuclear Operations reports to the chief Executive Officer and is responsible for:

- Safe and efficient operation of Supply System nuclear power plants.
- Safe and successful completion of initial testing activities for WNP-2 (through the WNP-2 Plant General Manager).
- Establishing and monitoring maintenance systems common to operational nuclear power plants.
- Training of nuclear plant staff and support personnel.
- Development of programs and procedures to ensure uniform application at operational nuclear power plants.
- Radiological protection, fire protection, and radioactive waste management.
- Engineering design and analysis support for WNP-2.

To accomplish this role, the Vice President, Nuclear Operations operates through the Plant General Manager; Engineering General Manager; Manager, Nuclear Training; and Corporate Chemist.

1.3.2.1 The Engineering General Manager reports to the Vice President, Nuclear Operations and is responsible for providing project engineering and design control, nuclear fuel supply, and maintenance/operation engineering support as required for WNP-2. The Engineering General Manager is specifically responsible for:

- Developing, maintaining, and implementing design control programs and processes by which plant design, and design changes, and modifications are defined, controlled, and verified.
- Developing and maintaining programs for in-service inspection, and materials and welding engineering.
- Providing engineering support for technical resolution of nuclear safety and licensing issues.
- Maintaining a current engineering data base for WNP-2.
- Implementing configuration control by establishing site-specific policy, procedures, and methods that allow control and accountability.

OPERATIONAL  
QUALITY ASSURANCE PROGRAM DESCRIPTION

- Management of major plant modifications, major maintenance tasks, and contractor support.
- The supply, engineering, and efficient in-core management of nuclear fuel.
- Transient analysis and licensing issue resolution to support technical specification changes and reload fuel licensing.
- Reliability and availability analysis to improve plant performance, safety, and maintainability.
- Developing and maintaining fire protection programs.
- Training and qualification of engineering and technical support staff.

The Engineering General Manager operates through the Manager, Design/Projects Engineering; Manager, Engineering Programs; Manager, Technical Services/ Systems Engineering; and Manager, Reactor/Fuels Engineering. The Engineering organization and functional responsibilities of key personnel are described in Chapter 13 of the Final Safety Analysis Report for WNP-2.

1.3.2.2 The Plant General Manager for WNP-2 reports to the Vice President, Nuclear Operations and is directly responsible for safe and efficient operation of the plant in accordance with the requirements of the Operating License, the Plant Technical Specifications, and the Plant Procedures Manual. Some of the specific responsibilities of the Plant General Manager are:

- Planning, coordinating, and directing all test, operation, modification, inspection, maintenance, and refueling activities subsequent to the issuance of an Operating License.
- Authorizing all plant modifications subsequent to the issuance of an Operating License.
- Qualifying and training plant staff.
- Ensuring calibrated measuring and test equipment (including installed instruments covered by the Plant Technical Specifications) is utilized at WNP-2.
- Dispositioning of nonconforming items.
- Implementing the in-service testing program.
- Implementing a fire protection program.

OPERATIONAL  
QUALITY ASSURANCE PROGRAM DESCRIPTION

- Off-Site Dose Calculation Manual (ODCM).
- The Radiological Environmental Monitoring Program and Bioassay Program.
- Environmental sciences function which performs nonradiological monitoring and fitness for duty chemical analysis.

The Plant General Manager operates through the Operations Manager, Maintenance Manager, Radiation Protection Manager, Chemistry Manager, and Planning/Scheduling/Outage Manager. The plant organization and functional responsibilities of key plant personnel are described in Chapter 13 of the Final Safety Analysis Report for WNP-2.

- 1.3.2.3 The Manager, Nuclear Training reports to the Vice President, Nuclear Operations and is responsible for nuclear training policy and implementation, fire prevention and protection training, technical maintenance of the simulator to support operator training and testing, and training records management for nuclear plant operations.
- 1.3.2.4 The Corporate Chemist reports to the Vice President, Nuclear Operations and is responsible for policy development, oversight, and integration of matters pertaining to chemistry at WNP-2.
- 1.3.3 The Vice President, Operations Support/Public Information Officer reports to the Chief Executive Officer and is responsible for the development and implementation of policies and programs which support operation of Supply System nuclear power plants in the areas of:
- Quality Assurance program definition, implementation and effectiveness.
  - Maintaining cognizance of changing regulatory requirements and providing controlled interface between the Supply System and regulatory agencies to assure that commitment documents receive the necessary degree and depth of reviews prior to transmittal.
  - Providing licensing support functions in such areas as acquisition and maintenance of nuclear power plant construction permits and operating licenses.
  - Safeguards, physical plant security and fitness for duty.
  - Emergency preparedness, safety and health.
  - Procurement, inventory, spare parts engineering, vendor quality, and warehousing.





OPERATIONAL  
QUALITY ASSURANCE PROGRAM DESCRIPTION

- Reviewing in-house and external events for determination of cause and necessary corrective action to minimize potential for recurrence at Supply System nuclear facilities.
- Establishing, managing, and administering the implementation and effectiveness of the Nuclear Safety Issues Program (NSIP).

To accomplish this role, the Vice President operates through the Manager, Quality; Manager, Regulatory Affairs; Manager, Security; and Manager, Procurement.

1.3.3.1 The Manager, Quality reports to the Vice President, Operations Support/PIO and is directly responsible for the definition, direction, and effectiveness of the overall Quality Assurance Program during design, construction, and operation phases of all Supply System nuclear power plants. Major functions of the Quality organization are:

- Establishing and maintaining assurance programs, Nuclear Operation Standards, and department procedures and instructions which incorporate nuclear safety considerations and comply with the Quality Assurance (QA) criteria delineated in Appendix B to 10CFR 50.
- Assuring through reviews, surveillances, assessments, inspections, nondestructive examinations, and audits that Supply System and its suppliers' activities are being performed in a safe and legal manner in accordance with written and approved documents which comply with applicable requirements defined by the assurance programs and Nuclear Operation Standards or Site Wide Procedures.
- Assessing the overall effectiveness of assurance programs' implementation, including evaluation of plant performance and reporting conclusions to the Chief Executive Officer.
- Stopping unsatisfactory work and controlling further processing, delivery, or installation of nonconforming material.
- Establishing and maintaining adequate and qualified assurance staffing levels.
- Providing trending of deficiencies to identify areas where corrective actions have not minimized recurrence.
- Establishing, maintaining, and controlling the Operational QA Program Description (WPPSS-QA-004) and the Supply System Functional Manual for Nuclear Operation.

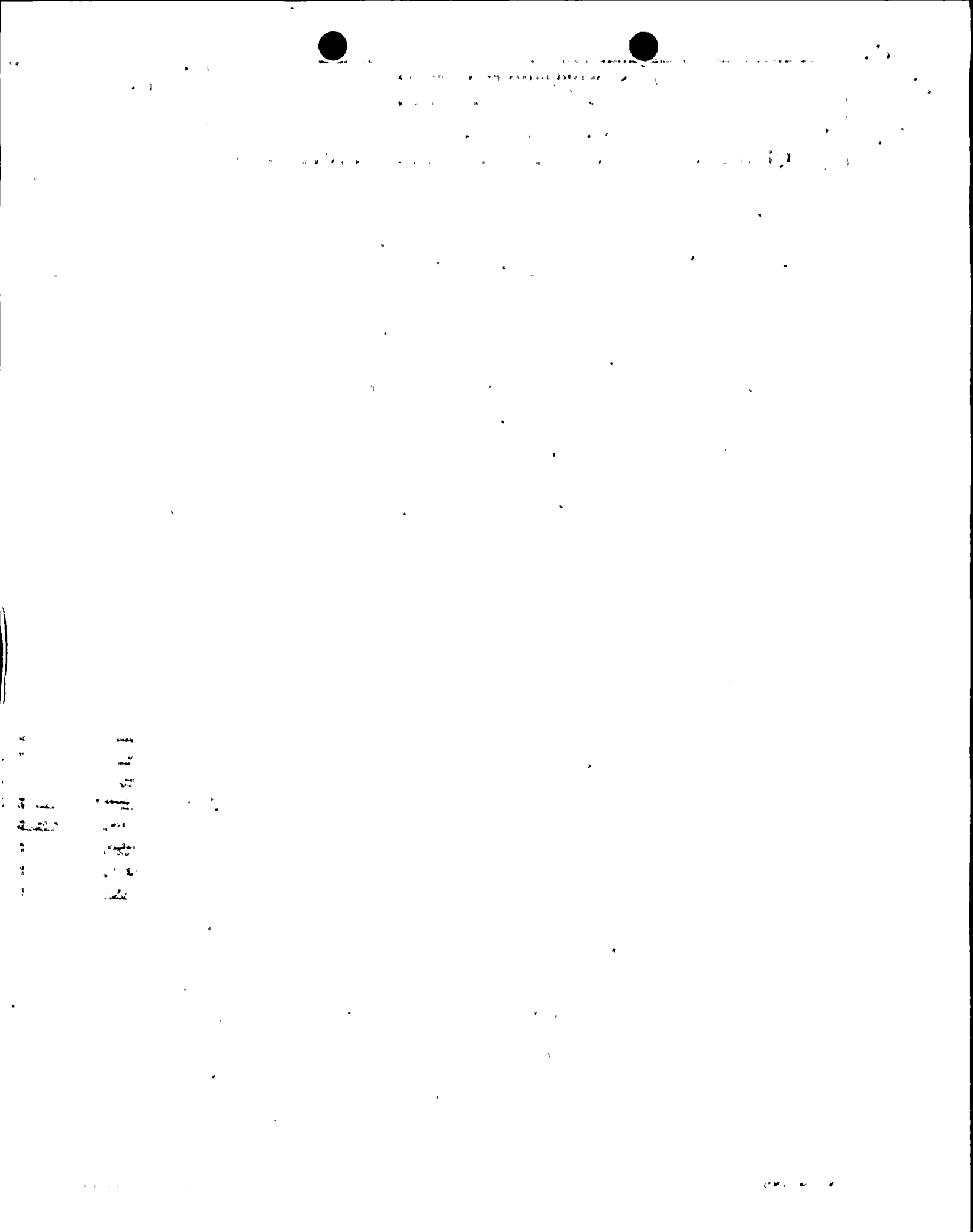
OPERATIONAL  
QUALITY ASSURANCE PROGRAM DESCRIPTION

- Certifying Supply System examination personnel for non-destructive examinations (NDE).
- Qualifying and certifying Supply System Audit Team Leaders, QC inspection and test personnel.
- Acquiring and maintaining ASME Certificates of Authorization and/or Owners Certificates.
- Ensuring that a written agreement with an Authorized Inspection Agency is obtained to provide for Authorized Nuclear In-Service Inspection Services.
- Administering the WNP-2 industry and in-plant operating experience programs.
- Providing the Independent Safety Engineering Group (ISEG) functions for assessing programs, processes and activities of various areas and operations that affect plant nuclear safety and reliability.
- Administering the nonconforming condition and corrective action processing including assisting the cognizant organization in evaluation and determination of the root cause for plant-related events.
- Providing the review and concurrence of selected programs, procedures, and/or instructions affecting safety, including changes thereto, to assure that applicable quality assurance requirements have been identified and specified therein.

The Manager, Quality has effective communication channels with all Supply System senior management positions and has no duties or responsibilities unrelated to quality assurance that would prevent his full attention to Quality Assurance Program matters. To accomplish the above defined role, the Manager, Quality operates through the Supervisor, Quality Services; Supervisor, Quality Programs; and Lead, Supplier Quality.

The qualification requirements for this position are as described in Appendix I, Qualification Requirements.

A management representative from the Quality Organization is a member of the Plant Operations Committee (see Appendix III) and has sufficient authority and organizational freedom to identify problems; to initiate, recommend, or provide solutions; and to verify implementation of solutions. The representative has no duties or responsibilities unrelated to quality assurance matters and has effective communication channels with all plant supervisory and management personnel.





- 1.3.3.1.1 The Supervisor, Quality Services reports to the Manager, Quality and is directly responsible for performing internal Supply System quality assurance functions that are necessary to verify that the QA Program is being effectively implemented. This includes maintaining a sufficient number of qualified auditors to perform QA audits, as required.

The Supervisor has the authority and responsibility to stop unsatisfactory work and control further processing, delivery, or installation of nonconforming material. When the unit is operating, the Supervisor may recommend that the unit be shut down; the Plant General Manager, however, has the final responsibility for the overall evaluation of all aspects and implications of shutting down the operating unit.

Qualification requirements for this position is described in Appendix I, Qualification Requirements. The Supervisor, Quality Services is specifically responsible for:

- a. Verifying internal Supply System activities to assure that they are being conducted in a safe and legal manner in accordance with approved programs, plans, procedures, or instructions. Such verifications will be in the form of audits, technical assessments, or quality assurance surveillances. Included in the scope of these verifications are: (i) control room operations; post modification/major maintenance testing and operational tests; maintenance, modification, repair, and calibration; personnel training; and refueling activities; (ii) activities associated with satisfying technical specifications and in-service inspection and testing; (iii) activities associated with the implementation of security, fire protection, and radiological protection programs; (iv) activities including engineering, maintenance, modifications, operational problem resolution, technical support activities, and operational analysis that affect plant nuclear safety and reliability; and (v) activities related to procurement, storage and issuance of parts, materials, and services to assure implementation of QA Program and management requirements.
- b. Providing the Independent Safety Engineering Group (ISEG) functions involving:
  - i. Assessing programs, processes and activities including engineering, maintenance, modifications, operational problems, technical support activities and operational analysis that affect plant nuclear safety and reliability.
  - ii. Assessing plant operations and performance regarding conformance to regulatory requirements.

OPERATIONAL  
QUALITY ASSURANCE PROGRAM DESCRIPTION

- iii. Evaluating industry operating experience, including recommendations for improvements in overall plant performance involving plant practices, procedures and equipment.
- iv. Providing certain key operating experience information to operators and other plant personnel.

1.3.3.1.2 The Supervisor, Quality Programs reports to the Manager, Quality and is directly responsible for:

- Administration of the nonconforming condition and corrective action program.
- In-plant QC functions and nondestructive examinations.
- Certifying Supply System nondestructive examination, QC, and test personnel.
- Maintaining Quality Program documents.

Qualification requirements for this position are described in Appendix I, Qualification Requirements.

1.3.3.1.3 The Lead, Supplier Quality reports to the Manager, Quality and is directly responsible for the source surveillance/audit program and for assuring that items received for WNP-2 meet the required quality standards, including:

- Establishing vendor witness points for inspection and release of material/equipment for shipment.
- QC receipt inspection of materials and equipment received by the Supply System.
- Establishing and maintaining evaluated vendors list.
- Planning, coordinating, and performing source surveillances, source inspections, and external audits to verify implementation of vendors' QA/QC programs.
- Reviewing and approving vendor furnished QA/QC procedures and programs.
- Reviewing for acceptance other utility audits furnished through the Nuclear Procurement Issues Committee (NUPIC).

Qualification requirements for this position are described in Appendix I, Qualification Requirements.



1.3.3.2 The Manager, Regulatory Affairs reports to the Vice President, Operations Support/PIO and is responsible for:

- Acquiring and maintaining operating licenses of Supply System nuclear power plants.
- Defining and implementing programs which assure that licensing submittals receive an adequate technical review from cognizant Supply System, NSSS, or AE personnel prior to transmittal.
- Tracking licensing commitments and taking action necessary to assure that they are being met in a timely manner.
- Providing coordinated development of responses and comments to new laws, regulations, regulatory guides, and other regulatory issuances.
- Developing and maintaining an emergency response program that includes plans, implementing procedures, training, and drills and exercises.

1.3.3.3 The Manager, Procurement reports to the Vice President, Operations Support/PIO and is responsible for contracting, procurement and storage control services that support operation and maintenance of Supply System nuclear power plants, the sale and demolition of Projects WNP-3, WNP-4 and WNP-5. These responsibilities include:

- Development of Supply System procurement policies and procedures.
- Procurement of items and services in response to approved purchase requisitions.
- Coding, cataloging, handling, storage, shipping, and disposal of procured items.
- Providing project management for disposition of assets from terminated power projects and disposition of major assets surplus to operating power projects.
- Maintaining the Restricted Use Equipment List (RUEL).
- Providing criteria for Class 1 and commercial grade dedicated spare parts procurement.



1. 10/10/10  
2. 10/10/10  
3. 10/10/10

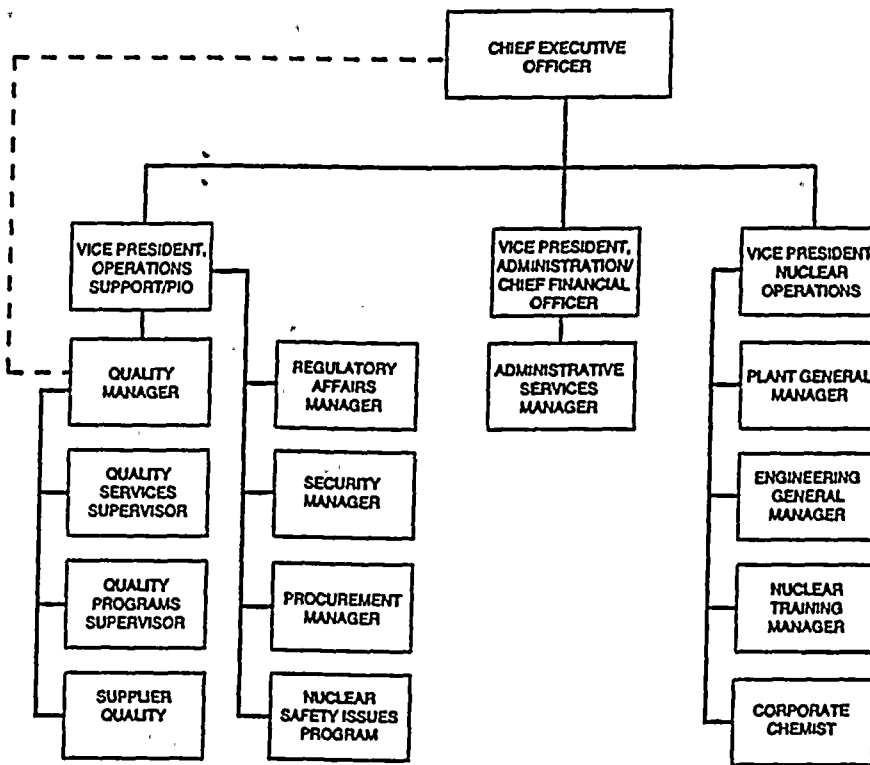
1. 10/10/10  
2. 10/10/10  
3. 10/10/10

OPERATIONAL  
QUALITY ASSURANCE PROGRAM DESCRIPTION

- 1.3.3.4 The Manager, Security Programs reports to the Vice President, Operations Support/ PIO and is responsible for overall Supply System security activities. The Manager, Security Programs is specifically responsible for:
- Administering a security program which includes preemployment screening, physical security surveys and investigations, loss prevention, and fitness for duty.
  - Managing the security force by assuring that physical security is consistent with needs and is maintained within individual plant safeguards security plans.
  - Providing training, administrative, and technical support to the Plant General Manager in the area of plant security.
- 1.3.3.5 The Vice President Administration/Chief Financial Officer reports to the Chief Executive Officer and is responsible for providing Administrative Services that are required to Support Operation and Maintenance of WNP-2. To accomplish this role, the Vice President operates through the Manager, Administrative Services.
- 1.3.3.6 The Manager, Administrative Services reports to the Vice President, Administrative/Chief Financial Officer and is responsible for:
- Developing and implementation of administrative controls for plant procedures, processes and systems to maintain nuclear plant design, construction, and operating records.
  - Providing program definition and policy development for Supply System records management activities, which includes processing, retrieval, storage and dispositioning of records.
  - Providing administrative support functions necessary for the maintenance of manuals and procedures.
  - Managing an administrative process by which engineering-related activities and commitments are assigned, scheduled, tracked, and dispositioned.



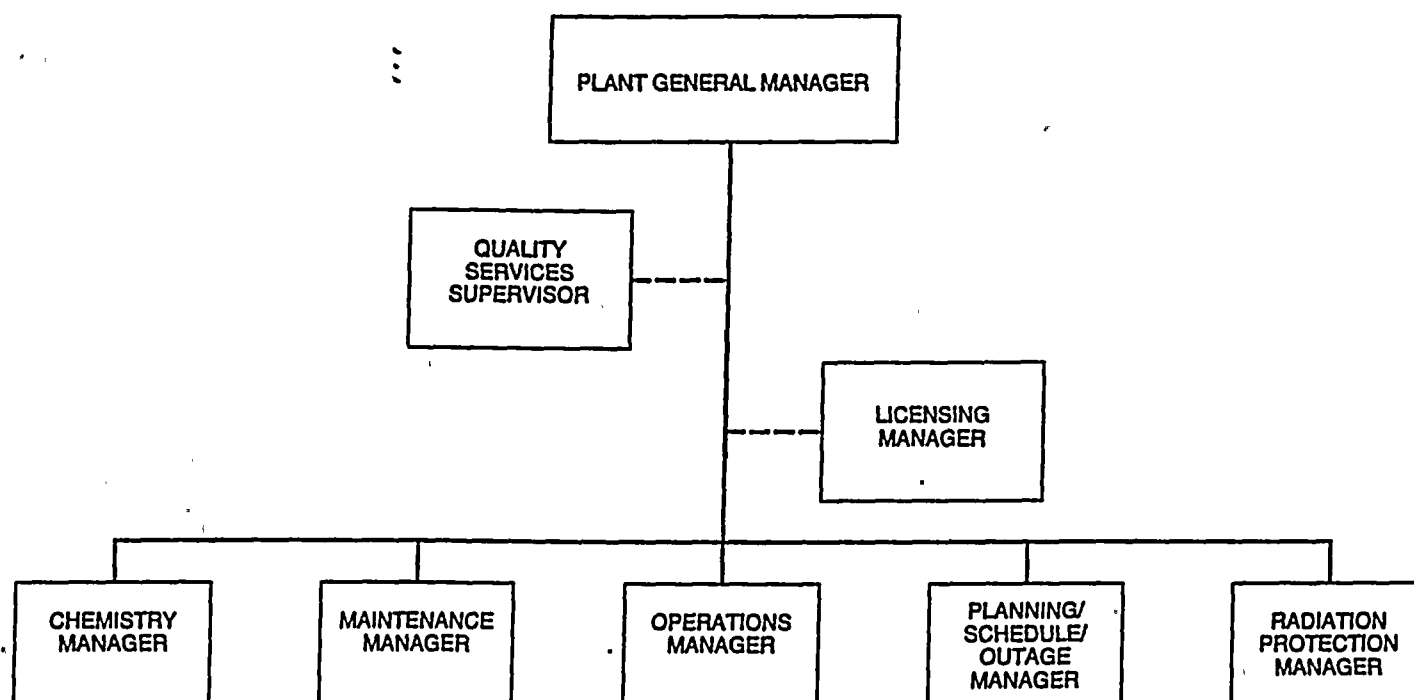
FIGURE 1-1



——— ADMINISTRATION AND FUNCTIONAL REPORTING  
 - - - COMMUNICATION LINES

890853.1

FIGURE 1-2



——— ADMINISTRATIVE AND FUNCTIONAL REPORTING  
 - - - - COMMUNICATION LINES

### Supply System Organization Relative To Operational QA

890853.2



WASHINGTON PUBLIC POWER

SUPPLY SYSTEM

OPERATIONAL  
QUALITY ASSURANCE PROGRAM DESCRIPTION

PAGE

7-1

REV.

9

7 - CONTROL OF PURCHASED MATERIAL, EQUIPMENT, AND SERVICES

7.1 PURPOSE

This section establishes controls to assure that safety-related items and services, whether purchased directly or through contractors and subcontractors, conform to procurement documents.

7.2 GENERAL

7.2.1 Procedures/instructions shall be established and implemented for the control of purchased materials, equipment, and services. These procedures/instructions shall clearly describe the actions to be accomplished and identify those positions or groups responsible for performing those actions.

7.2.2 Material, equipment, services and spare/replacement parts (other than commercial grade items as defined in 10CFR 21) for safety-related structures, systems and components:

- a. Shall have a technical evaluation to assure that requirements for acceptable item(s) are specified in the procurement documents.
- b. Shall be procured from vendors whose quality assurance qualifications have been affirmed, either prior to or after award of the contract, by Supplier Quality personnel, and
- c. Shall be subject to the quality assurance program controls and to technical requirements at least equal to the original technical requirements or to revised controls that have been properly reviewed and approved.

7.2.3 Material, equipment, services and spare/replacement parts for safety-related structures, systems and components that are commercial grade items as defined in 10CFR 21:

- a. Shall have a technical evaluation to assure that requirements for acceptable item(s) are specified in the procurement documents.
- b. Shall have acceptance methods to provide reasonable assurance the item(s) received is the item(s) which was specified. These may include one or more of the methods of Paragraphs 7.2.4., 7.2.5., or 7.2.6 as specified by the Technical Evaluation.

OPERATIONAL  
QUALITY ASSURANCE PROGRAM DESCRIPTION

- 7.2.4 Evaluation of vendors, including review and concurrence of vendors' QA programs, shall be performed by Supplier Quality with assistance if required from Procurement or Engineering personnel competent in determining the ability of vendors to provide acceptable quality products. Source selection will be based on one or more of the following:
- The ability of the vendor to comply with those elements of 10CFR 50 Appendix B applicable to the type of material, equipment, or services being procured.
  - A review of previous record and performance of vendors who have provided similar articles of the type being procured.
  - A survey of the vendor's facilities and QA program to determine his capability to supply a product which meets the design, manufacturing, and quality requirements.
- 7.2.5 Source verification (vendor surveillance, inspection and audit) shall be commensurate with the relative importance, complexity, and quantity of the items or service procured and the vendor's quality performance. In-process and final surveillance requirements of vendor products shall be determined in advance and performed to assure conformance with procurement document requirements. Source verification is not required to be performed where the quality of the item can be verified by review of test reports, inspection upon receipt, or other means. Source verification activities shall include evaluation of vendor furnished Certificates of Conformance and/or vendor's Certification System.
- 7.2.6 Receiving inspection of vendor furnished items shall be performed to assure that:
- The item is properly identified and corresponds to the identification on the procurement document and the receiving documentation.
  - The item and the acceptance records satisfy the inspection instruction prior to relying upon the item to perform its safety function.
  - Specified inspection, test, and other records are complete and available at the site prior to relying upon the item to perform its safety function.
  - Inspection status of accepted items is identified prior to their being released for storage, use or further work.
- 7.2.7 Documentary evidence that the vendor furnished items conform to the procurement requirements shall be retained at the site for the life of the items.



WASHINGTON PUBLIC POWER

SUPPLY SYSTEM

OPERATIONAL  
QUALITY ASSURANCE PROGRAM DESCRIPTION

PAGE

18-1

REV.

13

18 - AUDITS

18.1 PURPOSE

This section sets forth requirements for auditing to verify implementation and determine the effectiveness of the QA Program.

18.2 GENERAL

18.2.1 A comprehensive system of planned and documented audits by the Quality organization, shall be carried out to verify compliance with applicable aspects of the QA Program. These audits shall consist of both internal audits of Supply System's nuclear power plants and other Supply System organizations and external audits of Supply System vendors performing activities covered by the QA Program.

18.2.2 Audits shall include the objective evaluation of work areas, activities, processes, and items; review of documents and records; and quality-related practices, procedures and instructions to determine the effectiveness of implementation of the QA Program.

18.2.3 Audits shall be scheduled based upon the status and safety importance of the activities.

18.2.4 Audits shall be performed in accordance with written procedures or check lists and conducted by appropriately trained personnel not having direct responsibilities in the areas being audited.

18.2.5 Audit results shall be documented by auditing personnel and reviewed by management having responsibility in the area audited.

18.2.6 Follow-up action on deficiencies shall be accomplished.



OPERATIONAL  
QUALITY ASSURANCE PROGRAM DESCRIPTION

APPENDIX I

QUALIFICATION REQUIREMENTS

The minimum qualification requirements for key Quality Assurance personnel that will be met at the time of initial core loading or appointment to the active positions are specified below.

I.1. The Manager, Quality or the Supervisor, Quality Services fulfills the position described in ANSI/ANS-3.1-1978, Section 4.4.5, Quality Assurance. The qualifications for this position are:

- a. Education: Bachelors Degree or equivalent\* in Engineering or related science.
- b. Six (6) years experience in the field of quality assurance, or equivalent number of years of nuclear industry experience in a supervisory/management position or a combination of the two. At least two (2) years of these six years experience shall be nuclear power plant experience in the overall implementation of the quality assurance program. (This experience shall be obtained within the quality assurance organization.)

I.2. Quality Programs Supervisor or Lead, Supplier Quality

- a. Education: Bachelor Degree or equivalent\* in Engineering or a related science.
- b. Experience: Four (4) years experience in the field of quality assurance, or equivalent number of years of nuclear plant experience in a supervisory position, preferably at an operating nuclear plant, or a combination of the two. At least one (1) of these four (4) years of experience shall be nuclear power plant experience in the implementation of the quality assurance program.

---

\*Equivalency will be determined based upon an evaluation of the following factors:

- 1. High school diploma or GED.
- 2. Sixty (60) semester hours of related technical education taught at the college level (900 classroom or instructor conducted hours).
- 3. Qualified as an NRC senior operator at the assigned plant.
- 4. Four (4) years of additional experience in his area of responsibility.
- 5. Four (4) years of supervisory or management experience.
- 6. Demonstrated ability to communicate clearly (verbally and in writing).
- 7. Certification of academic ability and knowledge by corporate management.
- 8. Successful completion of the Engineer-In-Training examination.
- 9. Professional Engineer License.
- 10. Associated degree in Engineering or a related science.