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L-88-256
10 CFR 50.54(a)

JUNE 7 1988

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, D.C. 20555

Gentlemen:

Re: Turkey Point Units Nos. 3 and 4
Docket Nos. 50-250 and 50-251
St. Lucie Units 1 and 2
Docket Nos. 50-335 and 50-389
Topical Quality Assurance Report (FPLTOAR 1-76A)

Pursuant to 10 CFR 50.54(a)(3), please find attached two enclosures representing the annual update of the Florida Power & Light Company Topical Quality Assurance Report [Revision 11, dated May 11, 1988].


Enclosure I is a summary of the change and a pen and ink mark-up of changed pages to the current Topical Report Revision.

Enclosure II is the revised Topical Report Revision 11. Changes are indicated on the affected pages by bold vertical print lines drawn adjacent to the portion actually changed.

The revisions made are minor and primarily show organizational changes. None of the changes made in our program description reduce commitments which have been previously accepted by the NRC.

Should there be any questions, please contact us.

Very truly yours,


W. F. Conway
Senior Vice President - Nuclear

WFC/GRM/dd

Enclosures

cc: Dr. J. Nelson Grace, Regional Administrator, Region II, USNRC
Senior Resident Inspector, USNRC, St. Lucie Plant
Senior Resident Inspector, USNRC, Turkey Point Plant

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ENCLOSURE I

Summary of changes to Revision 10 of the Florida Power and Light Topical Quality Assurance Report (FPLTQAR 1-76A)

1. Title Page

The title page has been revised to reflect the current revision and date of changes of the Topical Report.

2. Table of Contents

The Table of Contents has been revised to reflect the current revisions and dates of the individual sections.

3. Quality Assurance Program Policy

This change is to reflect the new organization and title changes as described in the Topical Report (TQR 1.0).

4. TQR 1.0 - Organization

The following sections have been revised to reflect the new Nuclear Energy Department organization and new titles: Section 1.2, 1.2.3, 1.2.3.1, and 1.2.3.2.

5. TQR 1.0 - Organization

The following sections have been revised to reflect the title change of Vice President Engineering, Project Management and Construction to Senior Vice President: Sections 1.2.4, 1.2.7, and 1.2.12.

6. TQR 1.0 - Organization, TQR 10.0 - Inspection, and TQR 15.0 - Nonconforming, Materials, Parts Or Components

The following changes are grammar and punctuation changes: TQR 1.0 Sections 1.2.1, 1.2.3.1, 1.2.3.2, 1.2.4, 1.2.6, 1.2.8, 1.2.9, 1.2.10, 1.2.11, 1.2.12, and 1.2.13; TQR 10.0 Sections 10.1, 10.2.1, 10.2.2, 10.2.3, 10.2.4, and 10.2.5; TQR 15.0 Sections 15.1, 15.2.1 and 15.2.4.

7. Appendix A

The three figures reflect the current organization changes of reporting requirements and position titles.

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8. Appendix E - List of Corporate Quality Assurance Procedures

- o Added Quality Procedure (QP) 2.17, "Environmental Qualification (EQ) of Electrical Equipment" to the QA Manual
- o Added Quality Procedure (QP) 6.7, "Control of Vendor Manuals and Vendor Technical Information" to the QA Manual
- o Added Quality Procedure (QP) 7.9, "Control of On-Site Vendor Services" to the QA Manual
- o The following procedures were combined into other Quality Procedures; 9.2 was combined with 9.1; 11.1, 11.2, and 11.3 were combined with 11.4; and 15.1 was combined with 15.2

1

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3

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(FPL-NQA-100A)

Revision 11
May 10, 1988

REVISION 10
JUNE 10, 1987

Topical Quality Assurance Report





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May 7, 1982



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QUALITY ASSURANCE PROGRAM POLICY

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NEED FOR POLICY

To avoid undue risk to the health and safety of the public and company employees, it is necessary to design, construct, operate and modify nuclear power plants with a high degree of functional integrity, quality and reliability.

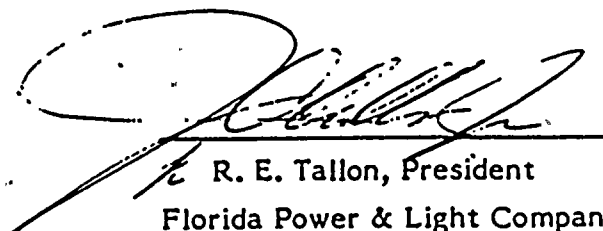
STATEMENT OF POLICY

It is the policy of Florida Power & Light to design, construct, operate and modify nuclear power plants of a quality level that will meet or exceed government regulations and will merit public confidence by providing electricity in a reliable, efficient, and safe manner.

RESPONSIBILITY

The President of Florida Power & Light Company is responsible for the execution of the Quality Assurance Program for Florida Power & Light Company nuclear power plants. The authority for developing and verifying execution of the Program is delegated to the the Director of Quality Assurance, through the ~~Group Vice President of Nuclear Energy and the Executive Vice President~~ *Vice President of Nuclear Energy, the Senior Vice President Nuclear and the Executive Vice President responsible for power generation and delivery,*

The head of each organization performing quality related activities is responsible for: identifying those activities within his organization which are quality related as defined by the QA Program; establishing and clearly defining the duties and responsibilities of personnel within his organization who execute those quality related activities; and planning, selecting, and training personnel to meet the requirements of the QA Program.


R. E. Tallon, President
Florida Power & Light Company



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1.1 GENERAL REQUIREMENTS

The FPL organizational structure shall be defined such that the responsibilities for establishment and implementation of the Quality Assurance Program are clearly identified. The authority and duties of individuals and organizations performing quality assurance and quality control functions shall be described, and shall illustrate the organizational independence and authority necessary to identify problems; to initiate, recommend, or provide solutions; and to verify implementation of solutions. In addition, the description shall illustrate that persons or groups responsible for verifying the correct performance of an activity are independent of the person or groups responsible for performing the activity.

1.2 IMPLEMENTATION

The President of Florida Power & Light is ultimately responsible for the execution of the Quality Assurance Program for Florida Power & Light Company (FPL) nuclear power plants. The authority for developing and verifying execution of the program is delegated to the Director of Quality Assurance, through the ~~Group~~ Vice President of Nuclear Energy, ^{the Senior Vice President Nuclear} and the Executive Vice President. The reporting relationship of each department involved with the Quality Assurance Program is shown in Appendix A, Figure 1-1.

To provide for a review and evaluation of QA Program policies and activities, the President has established the QA Committee, chaired by the Executive Vice President. This organization's responsibilities are defined in Section 1.2.1 below.



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1.2 IMPLEMENTATION: (Cont'd)

In addition, a Quality Assurance Program Review Committee (QAPRC) (formerly the QA/QC Coordinators) has been established to review changes to the QA Program and to provide an interface for quality matters in each department affecting quality. This organization's responsibilities are defined in Section 1.2.2 below.

The head of each department or organization performing quality related activities is responsible for: a) identifying those activities within the organization which are quality related as defined by the QA Program; b) establishing and clearly defining the duties and responsibilities of personnel within his organization who execute those quality related activities; and c) planning, selecting, and training personnel to meet the requirements of the QA Program. The responsibility, authority, and organizational relationship for performing quality related activities within each organization shall be established and delineated in organizational charts and written job or functional descriptions.

A QA Program Review Committee (QAPRC) Member shall be designated by the head of each department or organization except for the Quality Assurance Committee, since this committee is a policy forming body (of which the Director of Quality Assurance is a member). The QAPRC Member is the prime interface for coordination of quality related matters within the member's department, with the QA Department, and with other departments.

The organization chart, Appendix A, Figure 1-1, illustrates the lines of authority and areas of responsibility for each of the organizations that are involved in quality related activities. The



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1.2 IMPLEMENTATION (Cont'd)

Project Management organization shown in this figure is applicable during design, procurement, construction, repairs and preoperational start-up and testing of power plant and modifications of power plants (determined by management on a case-by-case basis) as described in Section 1.2.4. Below are listed the departments and organizations that have Quality Assurance responsibilities. Specific organizational responsibilities for implementation of the Quality Assurance Program are described in the corresponding section numbers.

- | | | | |
|-------|--|--------|------------------------------|
| 1.2.1 | Quality Assurance Committee | 1.2.9 | Construction |
| 1.2.2 | Quality Assurance Program Review Committee | 1.2.10 | Power Supply |
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| 1.2.6 | Environmental Affairs | | |
| 1.2.7 | Power Plant Engineering | | |
| 1.2.8 | Purchasing | | |

1.2.1 Quality Assurance Committee

The Quality Assurance Committee, chaired by the Executive Vice President, is comprised of executive level ^{members of} management with responsibilities for the execution of the Quality Assurance Program within their responsibilities. This Committee's



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1.2.1 Quality Assurance Committee (Cont'd)

composition is delineated in its current charter and its reporting relationship is shown in Appendix A, Figure 1-1.

The Quality Assurance Committee is responsible for reviewing and evaluating QA Program policies and activities. Policy changes shall be initiated when Committee findings indicate the necessity. Quality Assurance Program status reports shall be periodically prepared by the QA Department and routed to the members of the QA Committee for their review.

In addition, QA Committee meetings shall be held by the Executive Vice President to keep members apprised of conditions including significant problems that require management attention. The Quality Assurance Committee shall be the final authority for resolution of contested quality policies, differences of opinion, and stop-work or other corrective action requests when lower level agreement cannot be reached between QA or QC and other departments. Periodic audits of the Quality Assurance Department shall be performed by a team independent of the QA Department, which is selected and approved by the Chairman of the Quality Assurance committee. The results of this audit are presented to the QA Committee.

1.2.2 Quality Assurance Program Review Committee (QAPRC)

The QAPRC (formerly the QA/QC Coordinators) was formed as an organization with the responsibility to review and resolve recommended changes to the QA Program. This committee is administered by the QA Services group. QA Program changes reviewed by the QAPRC are reviewed and signed by the department heads or individuals listed on each Quality Procedure.



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1.2.3 Nuclear Energy Department

Nuclear Energy responsibility for the plant begins with the Department's acceptance of a system or portion thereof from FPL Project Management. Throughout the remainder of plant life, Nuclear Energy maintains control of and responsibility for any plant modifications coordinated by Nuclear Energy and for the preoperational and start-up testing, operation, maintenance, refueling, and modification of the plant in accordance with written and approved procedures.

The organizational structure of Nuclear Energy is shown in Appendix A, Figure 1-1. The ~~Group~~ ^{Senior} Vice President of Nuclear Energy has overall responsibility for Nuclear Energy's activities. The Senior Vice President Nuclear is designated as the senior Corporate Nuclear Officer of Section A. 6.0, Administrative Controls, of each Unit's Technical Specifications.

Reporting to the ^{Senior} Vice President of Nuclear Energy are: ~~The Site Vice President - St. Lucie, the Site Vice President - Director of Nuclear Licensing, Director of Quality Assurance, Turkey Point and the Vice President Nuclear Energy, Manager of Planning and Control, and the Vice President of Nuclear Operations.~~

(moved to page 8) 1.2.3.2 ~~Nuclear Operations~~ Nuclear Corporate Staff

The Vice President Nuclear Energy is responsible for the selection, staffing, training, and development of personnel required for supervisory and safe and reliable operation, maintenance and modification of operating continuity of staff groups supporting nuclear power generation, the FPL nuclear units. He is responsible for the selection, Reporting to the Vice President Nuclear Energy are the Maintenance Manager Nuclear, Manager Nuclear Energy Services, the Manager of Nuclear Training, the Director of Quality Assurance, the Director of Nuclear Licensing, President of Nuclear Operations, the Vice President - Turkey Point Nuclear, Vice President - St. Lucie, Maintenance Manager Nuclear, Manager Nuclear Energy Services and the Manager of Nuclear Training.



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ORGANIZATION

Nuclear Power Generation

1.2.3.1 ~~Nuclear Operations~~ (Cont'd)

site

site

The [^]Vice President-St. Lucie and [^]Vice President-Turkey Point Nuclear are accountable for the operation, maintenance, and modification of their respective nuclear plant, as well as the selection, development and direction of the assigned staff. They will act as liaison between the plants and corporate headquarters, and are accountable for assuring that company policies and procedures are properly implemented and continued at the nuclear site.

1.2.3.2 moved
to page 8

The Manager Nuclear Energy Services is accountable for technical staff support to the generating department and certain centralized special functions. This group consists of section supervisors and technical specialists, with functions including Health Physics, Chemistry, Radiological Waste, Emergency Planning, Plant Support, and Materials, Codes and Inspections.

The Maintenance Manager Nuclear is responsible for directing activities in support of major plant maintenance projects, modifications, and upgradings, as well as the development of work methods, specifications and systems to promote increased productivity.

The Manager of Nuclear Training ~~is accountable to~~ establish company policy regarding nuclear training and secure the necessary resources to ensure that Nuclear Energy personnel are adequately trained. They must have adequate technical and job related skills to provide safe, efficient operation while complying with NRC requirements.



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Nuclear Power Generation
1.2.3.1 ~~Nuclear Operations~~ (Cont'd)

The Plant Manager (Plant Manager Nuclear at PTN) through the Vice Presidents - Turkey Point Nuclear and St. Lucie Plants (as applicable) is responsible for the operation of the nuclear plant. The plant manager is additionally responsible for the establishment and implementation of plant QC policy which implements the quality control aspects of the Quality Assurance Program.

Reporting directly to the Plant Manager is the plant Quality Control Supervisor who has the authority and freedom to administer the plant Quality Control program and, when necessary, for stopping activities adverse to quality. The QC Supervisor, his staff, and personnel performing QC inspection functions are required to be independent of groups or persons performing activities that they may be required to verify or inspect. QC effort includes preparation and review of plant procedures, PCMs, quality related instructions and procurement documents; ^{QC personnel are also responsible for} the inspection, monitoring, surveillance, and review of plant activities to verify compliance with the provisions of the facility operating license and the Quality Assurance Manual. The QC Supervisor shall take corrective action for deficiencies identified, where applicable, and shall follow up on corrective action taken by other organizations until close out. He shall receive quality program direction from the Director of Quality Assurance.

The Plant Nuclear Safety Committee (PNSC) at Turkey Point Plant or the Facility Review Group (FRG) at the St. Lucie Plant is comprised of key plant management and staff personnel as



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*Nuclear Power Generation*1.2.3.1 ~~Nuclear Operations~~ (Cont'd)

described in the plant Technical Specifications. The PNSC/FRG serves the plant manager in a technical advisory capacity for the review of all safety related procedures and activities that impact on plant safety and the facility operating license.

1.2.3.2 ~~Quality Assurance~~ *Nuclear Corporate Staff*

The Quality Assurance Department shall be responsible for administering the FPL Quality Assurance Program. This includes developing and verifying implementation of corporate policies, plans, requirements, and procedures affecting quality. This is accomplished through the Quality Assurance Department. The Quality Assurance Department retains responsibility for delegated portions of the QA Program by performing initial evaluation and subsequent periodic audits of the contractors' QA Programs. The QA Program responsibility further extends to the performance of audits within the Company to assure management that the established requirements and procedures are being implemented, and that the Program complies with the baseline document requirements.

The organizational freedom of the QA function is accomplished through the corporate structure, illustrated in Appendix A, which provides independence from those departments responsible for design, procurement, engineering, construction, and operation. With Quality Assurance as the sole function of this organizationally independent department, the Director of Quality Assurance and his staff, both on-site and offsite, are completely free from the cost and scheduling pressures of



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Nuclear Corporate Staff
1.2.3.2 ~~Quality Assurance~~ (Cont'd)

design, procurement, construction, and operation. The Quality Assurance Department has the freedom and authority to: a) identify quality problems; b) initiate, recommend or provide corrective action; c) verify implementation of the corrective action; and d) recommend the stoppage of work or operations adverse to quality, when necessary.

The Director of Quality Assurance reports to the ~~Group Vice~~ *with direct communication access to the* President of Nuclear Energy. He is responsible for the *senior Vice President Nuclear* technical direction and the administrative control (e.g., performance appraisal, salary review, hire/fire, position assignment) of all members of the Quality Assurance Department.

The Manager of Quality Assurance Services, the Manager of Quality Assurance Procurement & Reliability, the Superintendent of Quality Assurance - St. Lucie and the Superintendent of Quality Assurance - Turkey Point report administratively and functionally to the Director of Quality Assurance. The Superintendents of QA receive technical direction from the Manager of QA Services.

senior
The Director of Quality Assurance, the ~~Group Vice President of Nuclear Energy~~, and the Vice President ~~of Nuclear Operations~~ *Energy* are each members of the Quality Assurance Committee. This reporting relationship and memberships on the QA Committee assure that the QA Department has direct access to the levels of management necessary to assure effective implementation of the QA Program. Further, the Operations QC Supervisors of both Turkey Point and St. Lucie receive quality program direction from the Director of QA.



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Nuclear Corporate staff
1.2.3.2 ~~Quality Assurance~~ (Cont'd)

The Manager of QA Services directs and administers the Corporate Quality Assurance Program, including developing and verifying implementation of policies, plans, requirements, procedures, and audits which assure compliance with the baseline documents listed in Appendix C of this Topical Quality Assurance Report.

The duties, responsibilities, and authorities of each Quality Assurance group are described in the sections which follow.

a. Quality Assurance Services Group

Quality Assurance Services is responsible for the development and maintenance of the overall QA Program, including the following:

- o Develop and maintain the QA Department Quality Instructions, QA Department Training & Organization Manual, and the corporate QA Manual; including the administration of the QA Program Review Committee (QAPRC)
- o Assist other departments in the development of Quality Instructions by review and comment and through interpretation of corporate Quality Assurance requirements;
- o Develop and implement a Quality Assurance indoctrination program for FPL supervisory personnel, and a training program for the Quality Assurance Department;



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1.2.3.2 *Nuclear Corporate staff*
~~Quality Assurance~~ (Cont'd)

- o Prepare reports on Quality Assurance Program activities for presentation to the Quality Assurance Committee by the Manager of Quality Assurance Services;
- o Maintain a file system for documentation of quality assurance activities performed by the QA Department;
- o Review Regulatory Guides, Codes, SAR Document Commitments and Standards for impact on the Quality Assurance Program and recommend appropriate program changes;
- o Review documents submitted to the Company Nuclear Review Board (CNRB) as requested by the QA Department CNRB member;
- o Plan, coordinate and implement a comprehensive system of periodic internal audits with support from the other Quality Assurance groups, when necessary;
- o Initiate, recommend or provide solutions and verify implementation of solutions for quality problems identified;
- o Review FPL originated design specifications for inclusion of appropriate quality requirements.

b. Quality Assurance Procurement and Reliability Group

The Manager of Procurement and Reliability is responsible for assuring the quality of safety related items and services, and their vendors, including the following:



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*Nuclear Corporate Staff*1.2.3.2 ~~Quality Assurance~~ (Cont'd)

- o Assist in the development and implementation of policies, plans, requirements and procedures for the requisition and purchase of materials, equipment and services related to nuclear power plants and to the acceptance and storage of equipment and material;
- o Perform appropriate surveillance of hardware during manufacture;
- o Develop and implement a program for auditing of supplier QA/QC programs including architect/engineer/NSSS Suppliers;
- o Review and approve FPL procurement documents and changes to these documents to assure that the necessary quality requirements are imposed;
- o Assist other FPL departments in the identification of quality problems associated with procurement and storage; initiate, recommend, or provide solution; and verify implementation of solutions;
- o Review, approve and periodically audit the execution of FPL contractor quality assurance programs;
- o Maintain a file system for documentation of quality assurance activities performed by the QA Procurement group;
- o Evaluate the Quality Assurance capability of suppliers requested by Purchasing and Corporate Contracts and maintain the Quality Assurance Department "Approved Suppliers List".

The responsibility of this group, in terms of phases of procurement, begins with the preparation of the procurement document, extends through bid evaluation,



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Nuclear Corporate Staff
1.2.3.2 ~~Quality Assurance~~ (Cont'd)

vendor selection, fabrication^Q and shipment; and ends upon receipt of shipment at the operating plant or warehouse. This group, through audits and surveillances, assures that the contractor's organizations performing QA functions have sufficient authority and organizational freedom to implement effective QA programs.

c. Quality Assurance Group - Turkey Point

The Superintendent of QA-Turkey Point has responsibility for on-site development and implementation of the Quality Assurance Program, including the following:

- o Coordinate in the development and implementation of policies, plans, requirements, and procedures for portions of the quality assurance program related to the operation and modification of nuclear power plants at Turkey Point Units 3 and 4 (PTN);
- o Perform audits, assessments^Q and other observations at PTN to verify compliance with QA Program commitments, identify quality problems^Q and ensure timely corrective actions are taken in the areas of plant operation, system turnover, modification^Q and maintenance; including such areas as refueling, inservice inspection and testing, procurement of spare/replacement parts, material storage, health physics, chemistry, plant security and fire protection;



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- Nuclear Corporate Staff
1.2.3.2 ~~Quality Assurance~~ (Cont'd)

- o Identify requirements, ensure inclusion of commitments in documents and verify implementation of the Quality Assurance Program during the backfit activities at PTN through audits of FPL and contractor organizations;
- o Recommend stoppage of work or operations adverse to quality at PTN in accordance with the appropriate Quality Procedures;
- o Review and comment on Quality Instructions or equivalent quality related administrative procedures prior to issue, with respect to the requirements of the FPL Quality Assurance Program², the PTN Final Safety Analysis Report², and the PTN Technical Specifications;
- o Assure that the status is tracked for all PTN open items identified by the FPL QA Turkey Point group, and inform appropriate management when there is an indication that a commitment will not be met on time;
- o Maintain a file system for documentation of quality assurance activities performed by the Turkey Point group²;
- o Assure design related activities performed by the Architect/Engineer meet the quality aspects of the contract;
- o Review backfit procedures with respect to the FPL QA Program (for procedure review requirements see TQR 5.Q);
- o Review site generated FPL procurement documents and changes to procurement documents in accordance with the appropriate Quality Procedures²;



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*Nuclear Corporate Staff*1.2.3.2 ~~Quality Assurance~~ (Cont'd)

- o Perform audits of PTN architect~~engineer~~^{and}NSSS suppliers both on-site and off-site, in conjunction with QAP&R.

The interface with the QA Procurement & Reliability group ends with the receipt of a shipment of nuclear safety related equipment at the plant site. The Quality Assurance program for the shipment is then within the purview of the QA Turkey Point group.

Off-site interfaces for the resolution of quality related problems and NRC items are with Project Management, Power Plant Engineering^{and} Nuclear Energy Staff, and the architect~~engineer~~NSSS Quality Assurance Department. This group is called upon to audit the Turkey Point operating plant. The Turkey Point group interfaces with the Site Vice President and his staff on-site by assisting in the resolution of quality related problems.

d. Quality Assurance Group - St. Lucie (PSL)

The Superintendent of QA St. Lucie has responsibility for on-site development and implementation of the Quality Assurance Program, including the following:

- o Coordinate in the development and implementation of policies, plans, requirements~~se~~ and procedures for portions of the quality assurance program related to the operation or modification of St. Lucie Unit 1 & Unit 2 (PSL);



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*Nuclear Corporate Staff*1.2.3.2 ~~Quality Assurance~~ (Cont'd)

- o Perform audits, assessments~~o~~ and other observations at PSL to verify compliance with QA Program commitments, identify quality problems and ensure timely corrective action are taken in the areas of plant operation, system turnover, modification~~o~~ and maintenance; including such areas as refueling, inservice inspection and testing, procurement of spare/replacement parts, material storage, health physics, chemistry, plant security~~o~~ and fire protection;
- o Identify requirements, ensure inclusion of commitments in documents and verify implementation of the Quality Assurance Program during the backfit activities at PSL through audits of FPL and contractor organizations;
- o Maintain a file system for documentation of quality assurance activities performed by the St. Lucie Projects-QA group;
- o Assure design related activities performed by the Architect~~o~~Engineer meet the quality aspects of the contract;
- o Review backfit procedures with respect to the FPL QA Program (for procedure review requirements see TQR 5.0);
- o Review site generated FPL procurement documents and changes thereto, in accordance with appropriate Quality Procedures;
- o Perform audits of PSL architect/engineer/NSSS suppliers both on-site and off-site, in conjunction with QAP&R~~o~~;



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1.2.3.2 *Nuclear Corporate Staff*
~~Quality Assurance~~ (Cont'd)

- o Recommend stoppage of work or operations adverse to quality at PSL in accordance with the appropriate Quality Procedures;
- o Review and comment on Quality Instructions or equivalent quality related administrative procedures prior to issue, with respect to the requirements of the FPL Quality Assurance Program~~Q~~, the PSL Final Safety Analysis Reports~~Q~~ and the plant Technical Specifications;
- o Assure that the status is tracked for all PSL open items identified by FPL St. Lucie Projects QA group, and inform appropriate management when there is an indication that a commitment will not be met on time;

The interface with the QA Procurement & Reliability group ends with the receipt of a shipment of nuclear safety related equipment at the plant site. The Quality Assurance program for the shipment is then within the purview of the St. Lucie Projects QA group.

Off-site interfaces for the resolution of quality related problems and NRC items are with Project Management, Power Plant Engineering, Nuclear ^{and} Energy Staff~~Q~~ and the architect~~Q~~ engineer~~Q~~ NSSS Quality Assurance Department. This group is called upon to audit the St. Lucie operating plant. The St. Lucie Projects QA group interfaces with the Site Vice President and his staff on-site by assisting in the resolution of quality related problems.



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1.2.3.2 Nuclear Corporate Staff (Cont'd)~~1.2.3.3~~ Nuclear Licensing

The Director of Nuclear Licensing is responsible for coordinating the NRC interface, distributing NRC documents requiring actions, evaluating potential impact^Q and responding to all NRC action items. He is also responsible for assuring that the status is tracked for all open items identified by the NRC or other federal, local and state agencies^Q and for informing appropriate management when there is an indication that a commitment will not be met on time. ~~The Director of Nuclear Licensing reports to the Group Vice President of Nuclear Energy as shown in Appendix A, Figure 1-1.~~

1.2.4 Project Management Department

The Project Management Department, through the Project General Manager, exercises management control of assigned projects. This management control begins when a Project is assigned to the Project Management Department and continues until the facility is accepted for operation or the project is complete. This management control includes the responsibility for procurement, repair, construction and may include preoperational start-up and testing of power plant modifications. The Project Management Department organization is shown in Appendix A, Figure 1-1.

The Director of Projects, reporting to the ^{Senior} Vice President ~~Engineering, Project Management and Construction~~ has overall responsibility for the activities of the Project Management Department. A Project General Manager, reporting to the Director of Projects, is responsible for completing the assigned project in compliance with technical and other project



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1.2.4 Project Management (Cont'd)

specifications, and for the application of the provisions of the Quality Assurance Manual during the project. The Project General Manager is responsible for obtaining corrective action from any contractor's management when corrective action cannot be obtained at the project site management level and, when necessary, can exercise his authority to stop work on project activities adverse to quality.

The overall responsibility for Plant Changes and Modifications to operating plants is defined in each plant's Technical Specifications. However, frequently the work of installation and administration of Plant Changes and Modifications is assigned to FPL Project Management ^{Department}. The Project Site Manager will report to the appropriate nuclear site Vice President but will also receive guidance and advice from the Project General Manager. The Project Site Manager is additionally responsible for the functional direction of construction QC for the purpose of coordinating inspection activities which implement the quality control aspects of the quality assurance program for modifications of projects assigned to project management. Activities affecting quality may be performed by FPL, or contracted. Should any of these functions be contracted, the contractor may perform the activities under his own Quality Assurance Program, which must have prior approval by FPL Quality Assurance, or the contractor may directly adopt the requirements of the FPL Quality Assurance Manual. If the contractor implements the Quality Control function directly to the FPL QA Manual requirements, the contractor's Quality Control Supervisor shall have the authority and freedom to administer the Quality Control program.



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1.2.4 Project Management (Cont'd)

Project Team Members are appointed by their home department heads as the departmental representative on the respective project, when requested by the Project General Manager. Team Members, other than Quality Assurance and Stores Department, report functionally to the Project General Manager, or the Project Site Manager, but continue to receive administrative support and technical direction from their home department. Team members are responsible to the Project General Manager for home department support to the Project.

1.2.5 Corporate Contracts Department

The Corporate Contracts Department is responsible for generation, negotiation and issuance of Contracts over specified time periods and dollar limits for turbine generators, steam generators, nuclear steam supply systems (NSSS), new items, repairs, constructors, construction managers, and Architect Engineer (A/E) and consulting services. Corporate Contracts is also responsible for assuring that technical and quality requirements developed by others are incorporated in such contracts, as appropriate, and that these contracts have the required approvals. Details of the activities of the department in fulfilling this responsibility shall be delineated in the appropriate Quality Procedures. The Manager of Corporate Contracts reports to the Director of Corporate Contracts. The Corporate Contracts Organization is shown in Appendix A, Figure 1-1.



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1.2.6 Environmental Affairs

Environmental Affairs is responsible for obtaining the federal and state environmental permits required for FPL facilities and operations. Environmental Affairs is responsible for overall coordination of non-radiological environmental monitoring (federal and state) programs at the nuclear power plant sites.

The Manager of Environmental Technical Services, the Manager of Environmental Resources and Planning^Q and the Manager of Environmental Permitting and Programs report to the Director of Environmental Affairs as illustrated in Appendix A, Figure 1-1. The Director of Environmental Affairs has overall responsibility for implementation of the Environmental Technical Specifications and Environmental Protection Plans at nuclear power plant sites.

The Environmental Affairs Department through its management of the Company Environmental Review Group (CERG) is responsible for overall coordination of environmental monitoring programs and requirements related to the Environmental Technical Specifications and Environmental Protection Plans. The CERG provides review of proposed changes to the Environmental Technical Specifications and Environmental Protection Plans, review of any violations of monitoring and/or limitation requirements and review of proposed plant changes and modifications for environmental impact effects as requested by the plant manager(s).



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1.2.6 Environmental Affairs (Cont'd)

The CERG provides information to the Director of Environmental Affairs and the Chairman of the CNRB on environmental matters for which requirements are included in the Environmental Technical Specifications and Environmental Protection Plans.

1.2.7 Power Plant Engineering

The Power Plant Engineering Department (JPE) is responsible for power plant design related aspects of the FPL QA Program throughout all phases of plant life except as specified for the Fuel Resources Department in Section 1.2.13. This responsibility extends from initial engineering evaluations of plant design related site characteristics, through preliminary and detailed design, construction, operation and decommissioning.

JPE performs design related activities and delegates design related activities to qualified contractors. For activities performed by JPE, the work is governed by FPL's QA Program, and JPE is responsible for approval of the design output. Delegated activities are performed in accordance with an FPL approved QA Program and the contractor is responsible for approval of design output. JPE is responsible for defining the scope of delegated activities and the responsibilities of the contractor. Prior to the release of design outputs by contractor organizations, JPE ensures that the contractor is technically qualified to perform the design related activity.



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1.2.7 Power Plant Engineering (Cont'd)

JPE is responsible for development and maintenance of the design control program governing design related activities performed by JPE and for providing technical support to the Quality Assurance Department for assessing the adequacy, implementation and effectiveness of contractor design control programs.

JPE is responsible for the preparation, revision, approval and distribution of plant design drawings that are identified to be maintained as "asconstructed" drawings during plant operation.

The Chief Engineer - Power Plants reports to the ^{Senior} Vice President Engineering, ~~Project Management and Construction~~ as shown in Appendix A, Figure 1-1.

1.2.8 Purchasing

The Purchasing Department is responsible for the purchase of materials and services by FPL for its nuclear power plants with the exception of those materials and services secured by Corporate Contracts and Nuclear Fuels. Materials and services for nuclear safety related application are secured only from approved suppliers, or as commercial grade, as applicable.

The Department is responsible for assuring that technical and quality requirements developed by others ^{are} ~~and~~ reviewed and approved by the designated quality departments as applicable, are incorporated in the procurement document which the departments authorizes. It is responsible for maintaining



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1.2.8 Purchasing (Cont'd)

traceability of purchase records from acceptance of requisitions through payment of the purchase order invoices.

The Manager of Purchasing reports to the Director of Procurement and Materials Management who reports to the Vice President of Corporate Services, Chief Financial Officer as shown in Appendix A, Figure 1-1.

1.2.9 Construction

The Construction Department is responsible for providing direction and coordination regarding construction, supervision and management, equipment utilization, quality control, welding, NDE and other construction support activities.

The Director of Construction reports directly to the Vice President of Engineering, Projects and Construction. He is responsible for directing and administering effective management of the Construction Department to ensure compliance to the corporate policies, practices and procedures. Reporting to the Director of Construction are the Manager of Plant Construction and the Manager of Construction QC, Welding and NDE.

The Manager of Plant Construction is responsible for providing qualified construction support personnel to the Project Site Manager. Reporting administratively to the Manager of Plant Construction are the Construction Superintendents.



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1.2.9 Construction (Cont'd)

The Construction Superintendent is responsible for conformance of project construction activities to the requirements of specifications, codes, regulations and site procedures. He supervises the construction personnel assigned to the project, coordinates construction activities including the scheduling of construction personnel requested by the Project Site Manager.

The Manager of Construction Quality Control, Welding and NDE is responsible for directing and administering the Construction QC and Welding Programs and for the technical direction and administrative control of all personnel within the Construction QC and Welding organizations. This includes the development and implementation of policies, plans, and procedures to meet the requirements of the QA program, codes and standards.

Reporting to the Manager of Construction QC, Welding and NDE are the site Project QC Supervisors, NDE Level III Supervisor, FPL Welding Superintendent and a staff of QC Coordinators.

The Construction QC Department is responsible for providing quality inspection as required, to assure that backfit activities meet the requirements of engineering plans, specifications, codes and standards. This responsibility extends from receipt inspections of material on-site to acceptance of the installed items prior to turnover to the Nuclear Energy Department. It also includes verification of conformance of an item or activity accomplished during this period to quality requirements (e.g., records review, NDE, inspections).



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1.2.9 Construction (Cont'd)

Each nuclear power plant is assigned a Project Quality Control Supervisor, who directs the on-site backfit QC organization. The Project QC Supervisor reports administratively and technically to the Manager of Construction Quality Control, Welding and NDE, however, he also reports functionally to the Project Site Manager for the purpose of coordinating and scheduling inspection activities. The functional/administrative reporting roles provide the necessary independence of the site Construction Quality Control organization and also maximizes the communication between the Construction staff, the QC staff and the Nuclear Energy staff.

The Project QC Supervisor is responsible for first line verification of the conformance of backfit activities to quality requirements, specifications, codes and local, State and Federal regulations. He directs on-site implementation of the Construction QC Program which includes supervision, and daily coordination, and scheduling of inspection activities, and review of inspection results. The freedom and independence of the on-site QC organization to assure the effectiveness of the QC Program from pressures of cost and scheduling is derived from the Project QC Supervisors administrative and technical reporting relationship to the Manager of Construction QC, Welding and NDE. Both the Manager of Construction Quality Control, Welding and NDE, and the Project Quality Control Supervisor have the authority to stop work or operations adverse to quality if the need arises.



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1.2.9 Construction (Cont'd)

The NDE Level III Supervisor is responsible for directing and monitoring the ~~non-destructive examination~~ (NDE) activities performed under the control of the Construction Department. He is responsible for preparation, revision and implementation of NDE procedures, and the training, testing and qualification of the NDE personnel performing these activities. He is also responsible for providing the programs and direction for performance of NDE activities meeting the ASME, AWS and other NDE code requirements.

The Quality Control Coordinators provide staff technical and administrative support to the Manager of Construction QC, Welding and NDE in the preparation, review, issue and monitoring of the Construction QC program to ensure effective implementation.

The FPL Welding Superintendent reports to the Manager of Construction QC, Welding and NDE. His responsibilities are to develop, maintain and control the FPL Welding Control Manual with assistance from Power Plant Engineering to originate and qualify welding procedure specifications and qualification of welders and welding operators to meet the applicable code requirements. He provides administrative and technical direction to the personnel within the FPL welding control program to meet engineering welding standards and code requirements. Reporting to the FPL Welding Superintendent are the Welding Supervisors at each Nuclear site.

The organization structure of the Construction Department is illustrated in Appendix A, Figure 1-1.



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1.2.10 Power Supply

Within the Power Supply Department only equipment and services provided by the System Protection Group and Power Supply Technical Services are subject to the requirements of the Quality Assurance Program. Appendix A Figure 1-1 illustrates the reporting relationship.

System Protection is responsible for test, calibration^Q and maintenance of certain high voltage electrical protective relays for safety related systems of the nuclear plant. Activities of System Protection include final wiring connection checks, preoperational check-out and test of system protection devices^Q and providing inspection of equipment under their cognizance.

Power Supply Technical Services is responsible for providing to System Protection certain setpoint and checkpoint values for protective devices.

1.2.11 Inventory Resources

The Inventory Resources Department is responsible for the receipt, handling, storage, shipping^Q and issue of items received at the plant site for control by Inventory Resources. This responsibility encompasses spare and replacement parts and components for plant equipment through all phases of plant life.



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1.2.11 Inventory Resources (Cont^d)

During operations, Inventory Resources also performs additional quality related activities such as handling and segregation for nonconforming items received for stores control. The Manager of Power Plant Stores reports to the Manager of Inventory Resources who reports to the Director of Procurement and Material Management as shown in Appendix A, Figure 1-1.

1.2.12 Company Nuclear Review Board

The Company Nuclear Review Board (CNRB) reviews or directs the performance of reviews of activities concerning the technical aspects of the operating nuclear power plant insofar as they impact on plant safety^Q, the health and safety of the public^Q, and laws, regulations^Q and licensing commitments. In addition, audits of these areas are performed under the cognizance of the CNRB. Where necessary, the Board may use consulting services to perform required reviews. The management level to which the CNRB reports is illustrated in Appendix A, Figure 1-1. Its composition is delineated in Section 6.0 of each facility's Technical Specifications. *The senior Vice President responsible for Power Delivery, Construction, Power Plant Engineering, and Projects will perform his CNRB membership duties as Acting Group Vice President.* Subjects within the purview of the Board are listed in the appropriate plant Technical Specifications. The CNRB has the authority to carry out its responsibilities by way of written action letters, verbal direction, minutes of meetings or appointed subcommittees.



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1.2.13 Nuclear Fuel

The Nuclear Fuel Section (FRN) of the Fuel Resources Department is responsible for the procurement, management, and accountability of FPL's nuclear fuel assets, and for providing technical support to fuel users within FPL. The Nuclear Fuel Section is under the direction of the Manager of Nuclear Fuel who has the responsibilities described below:

- o Forecasting FPL's nuclear fuel requirements and the availability and price of nuclear fuel;
- o Preparing the procurement specifications for components of the nuclear fuel cycle;
- o Determining sources of supply and evaluating alternatives;
- o Making commercial arrangements, including contract negotiations with vendors for acquisition, processing and delivery of nuclear fuel and related services for the nuclear fuel cycle;
- o Assuring that technical and quality requirements including inputs from other FPL departments are incorporated in fuel contracts and letters of authorization and that these documents have the necessary approvals;
- o Administering and managing contracts for nuclear fuel and related services to assure that contractual obligations are met, and serving as FPL liaison in all matters of nuclear fuel and fuel related contracts;
- o Performing audits and coordinating accountability reporting on all nuclear fuel;
- o Providing support to the QA Department for their auditing of nuclear fuel design and fuel assembly manufacturing;



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1.2.13 Nuclear Fuel (Cont'd)

- o Performing fuel management and safety analyses of nuclear cores to support plant licensing;
- o Development and/or review of fuel and nuclear physics design;
- o Performing the project management function with respect to nuclear fuel;
- o Provide and maintain benchmarked computer codes and procedures available for Fuel Resources line functions and other departments for daily use in maintaining records, performing safety analysis and core design, reporting of off-site nuclear fuel management activities and providing economic data;
- o Maintain effective and controlled computer access to Nuclear applications systems;
- o Develop and provide, to appropriate FPL groups, information necessary to determine FPL's fuel related costs and to finance fuel related expenditures;
- o Reviewing core related changes to Safety Analysis Reports and Technical Specifications for compliance with design criteria and regulatory requirements;
- o Participating in start-up physics tests and providing other technical support for operating nuclear power plants;
- o Planning, maintenance and implementation of the Corporate Special Nuclear Materials program.

The Manager of Nuclear Fuel reports to the Director of Fuels as shown in Appendix A, Figure 1-1.



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1.2.14 Corporate Records Services

The Manager of Corporate Records Services is responsible for: ensuring the QA records program activities are managed in accordance with applicable laws and regulations; assisting with the development and implementation of effective and compatible records and micrographics programs; developing, approving and maintaining record retention schedules; establishing parameters for indexing in the corporate records computerized Record Management System (RMS); locating acceptable record storage areas when requested; storage, retrieval and control of records/documents as requested by other departments; leading the evaluation of specially designated "QA approved" storage facilities and maintaining the records of this evaluation. The Corporate Records Services organization is shown in Appendix A, Figure 1-1.

1.2.15 Documentary Files

The Supervisor of Documentary Files is responsible for receiving, maintaining, retrieving and storing the QA records in connection with licenses and contracts received from other departments. The Documentary Files organization is shown in Appendix A, Figure 1-1.



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10.2.1 Inspection Responsibilities (Cont'd)

For these plant modifications, the Construction ^{management} Department may delegate the establishment and execution of this program to a contractor or other designated FPL representative, but shall retain ultimate responsibility for the program. For preoperational start-up and testing of plant modifications, Nuclear Energy personnel may report functionally to the Project Site Manager and establish plans, schedules and procedurally required inspection, witness or hold points. In all cases, the personnel performing the inspection shall be independent of the group performing the work. The Construction ^{Management} Department shall also be responsible for performing receiving and process verification inspections for work under the jurisdiction of the Project General Manager, or as requested by the Plant Manager.

The System Protection ^{Group} ~~Department~~ may perform inspections of equipment within their purview during operations. Inspections shall be performed in accordance with approved, written procedures by qualified personnel.

Quality Procedures and Quality Instructions shall be written which delineate the requirements and responsibilities for the performance of inspections.

10.2.2 Inspection Plans and Schedules

Documented inspection plans may be either a separate document or an integral part of work instruction documents. The plans shall be based on design specifications, procurement documents, drawings, other specifications or previous experience, as appropriate. Inspections shall be scheduled to assure that sufficient time and resources are available; and to assure inspections are not inadvertently omitted or bypassed.



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10.1 GENERAL REQUIREMENTS

A program for inspection shall be established and executed by or for FPL to verify conformance with the documented instructions, procedures and drawings for accomplishing an activity. Such inspections shall be performed by individuals or groups other than those who performed the activity being inspected. Examinations, measurements and tests of materials or products processed shall be performed for each work operation, where necessary, to assure conformance to established requirements. If direct inspection of processed materials or products is impossible or disadvantageous, indirect control by surveillance or monitoring shall be provided. Mandatory inspection, witness, or hold points beyond which work shall not proceed without the consent of FPL or a designated representative shall be indicated in the appropriate documents.

10.2 IMPLEMENTATION**10.2.1 Inspection Responsibilities**

For plant operations activities, a program for on-site inspection of activities affecting quality shall be established by the Nuclear Energy Department. Nuclear Energy shall perform inspections, surveillance and monitoring of plant activities and plant operations as required by established plans, schedules and/or procedurally required inspection, witness or hold points. In all cases, the personnel performing the inspection shall be independent of the group performing the work.

For plant modifications assigned to Project Management Department or when requested by the Plant Manager, a program for on-site inspection of these activities affecting quality shall be established and executed by the Construction ^{management} Department to ensure conformance with documented instructions, procedures and drawings.



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10.2.3 Inspection Personnel

- a. Inspections shall be performed by individuals other than those who performed or directly supervised the activity being inspected. Inspection personnel shall be qualified and certified in accordance with appropriate codes, standards, and/or company training programs. Qualifications and certifications shall be kept current.
- b. Prior to performing inspections, inspection personnel shall have access to the drawings, procedures, specifications or other documented criteria necessary for performance of the inspection.

10.2.4 Inspection Procedures

- a. Required inspection, surveillance or monitoring activities shall be performed and documented according to written, approved instructions or procedures. Inspection procedures, instructions or checklists shall contain the following:
 - o Identification of characteristics to be inspected;
 - o Identification of the individual or groups responsible for performing the inspection;
 - o Acceptance criteria or reference to the acceptance criteria;
 - o A description of the method of inspection;
 - o Verification of completion and certification of inspection.
- b. Inspection records shall identify:
 - o Inspector or data recorder;



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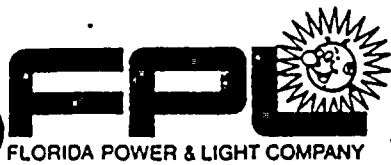
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10.2.4 Inspections Procedures (Cont'd)

- o Method or type of observations *e;*
 - o Test or inspection results *e;*
 - o Statement of acceptability *e;*
 - o Date of observation *e;*
 - o Deficiencies and nonconformances, and the action taken in connection with these deficient conditions, either by inclusion or by reference to other documents.
- c. Inspection procedures shall be reviewed by QC personnel to determine the need for an independent inspection and the degree and method if such an inspection is required, and to assure the identification of inspection personnel and the method of documentation of inspection results.
- d. Written approved instructions shall specify surveillance or monitoring of processing methods, or testing and operation of equipment when inspection is impossible, inaccessible or not applicable.
- e. Modification, repair, replacement or rework items shall be inspected in accordance with original inspection requirements or acceptable alternatives.



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10.2.5 Inspection, Witness, and Hold Point Identification

Appropriate inspection, witness, or hold points shall appear in process documents (e.g., construction, testing, operating and maintenance procedures). These process procedures are subject to the review of the appropriate Quality Control organization for adequacy of inspection, witness, and hold points.

Mandatory hold points shall be used when witnessing and inspecting must be performed and signed-off by the responsible personnel before work can proceed.

FPL shall indicate FPL witness or hold points applicable during the manufacture of an item in procurement documents. A distinction shall be made between witness points and mandatory hold points.





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15.1 GENERAL REQUIREMENTS

Measures shall be established to control materials, parts, or components which do not conform to requirements in order to prevent their inadvertent use or installation. These measures shall include, as appropriate, procedures for identification, documentation, segregation, disposition and notification to affected organizations. Nonconforming items shall be reviewed and accepted, rejected, repaired or reworked in accordance with documented procedures.

15.2 IMPLEMENTATION

15.2.1 Program

Quality Procedures and Quality Instructions shall define the responsibilities and methods for identifying, documenting, segregating and dispositioning nonconforming items. For procedure review requirements, see TQR 2.0 and TQR 5.0. Each department shall be responsible for the identification, control and disposition of nonconformances within the scope of their departmental responsibilities.

Throughout plant life, FPL may delegate any portion of the identification and control of nonconforming items and services to an Architect/Engineer (A/E), constructor, NSSS vendor or other contractors. In any case, FPL retains the responsibility for assuring that requirements are met, and shall assure that the contractor's actions conform to requirements set by FPL.



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15.2.2 Documenting and Controlling Nonconformances

All nonconformances in safety related items shall be documented and reported for corrective action. Measures shall be delineated in Quality Procedures and Quality Instructions which control further processing, installation, or operation of nonconforming items. These measures shall include:

- a. Physical identification of the item as nonconforming.
- b. Segregation of nonconforming items until properly dispositioned.

Where physical segregation is not practical, suitable tags, marking or documentation shall be used to assure control.

15.2.3 Documentation

Documentation of the nonconforming item shall: identify the item; describe the nonconformance; show disposition of the nonconformance and inspection requirements; and include the signature of the person approving the disposition.

15.2.4 Evaluation and Disposition

Power Plant Engineering, Nuclear Fuel, Nuclear Energy, ~~System Protection~~ or the delegated contractor organization, as specified by procedure, shall evaluate nonconformances and disposition them based on the results of the evaluations. These evaluations and dispositions shall be reviewed, approved and documented in accordance with procedures.



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15.2.4 Evaluation and Disposition (Cont'd)

An evaluation to determine the disposition of nonconforming items shall be performed. The evaluation shall determine whether an item is to be accepted as-is, repaired, reworked or rejected. A technical evaluation shall be performed when an item is accepted as-is or is repaired to an acceptable condition. Records of the disposition of these items shall be made part of the nonconformance report. This evaluation shall assure that the final condition does not adversely effect safety, operability or maintainability of the item, or of the component or system in which it is installed.

The A/E, or other contractors on-site, shall be required to inform the FPL Construction ^{Management} or Nuclear Energy Department prior to use or installation of a nonconforming item. The nature and extent of a nonconformance and the reason for proposing its use or installation shall be justified. Nonconforming items dispositioned "accept as-is", or repaired to an acceptable condition, shall be so identified. Nonconformance reports for those items shall be made part of the item records and forwarded with the material to FPL.

The determination of the need and the advisability of releasing nonconforming materials or items, is made by the Power Plant Engineering, Construction ^{Management} or Nuclear Energy Departments. The following factors may be appropriate considerations in making this determination:

- a. Effect on the orderly progress of work if material or items are released;
- b. Safety of personnel;
- c. Suitability of material or items in "as-is" condition, i.e., probability of eventual satisfactory resolution of the nonconformance without repair, rework, or replacement;



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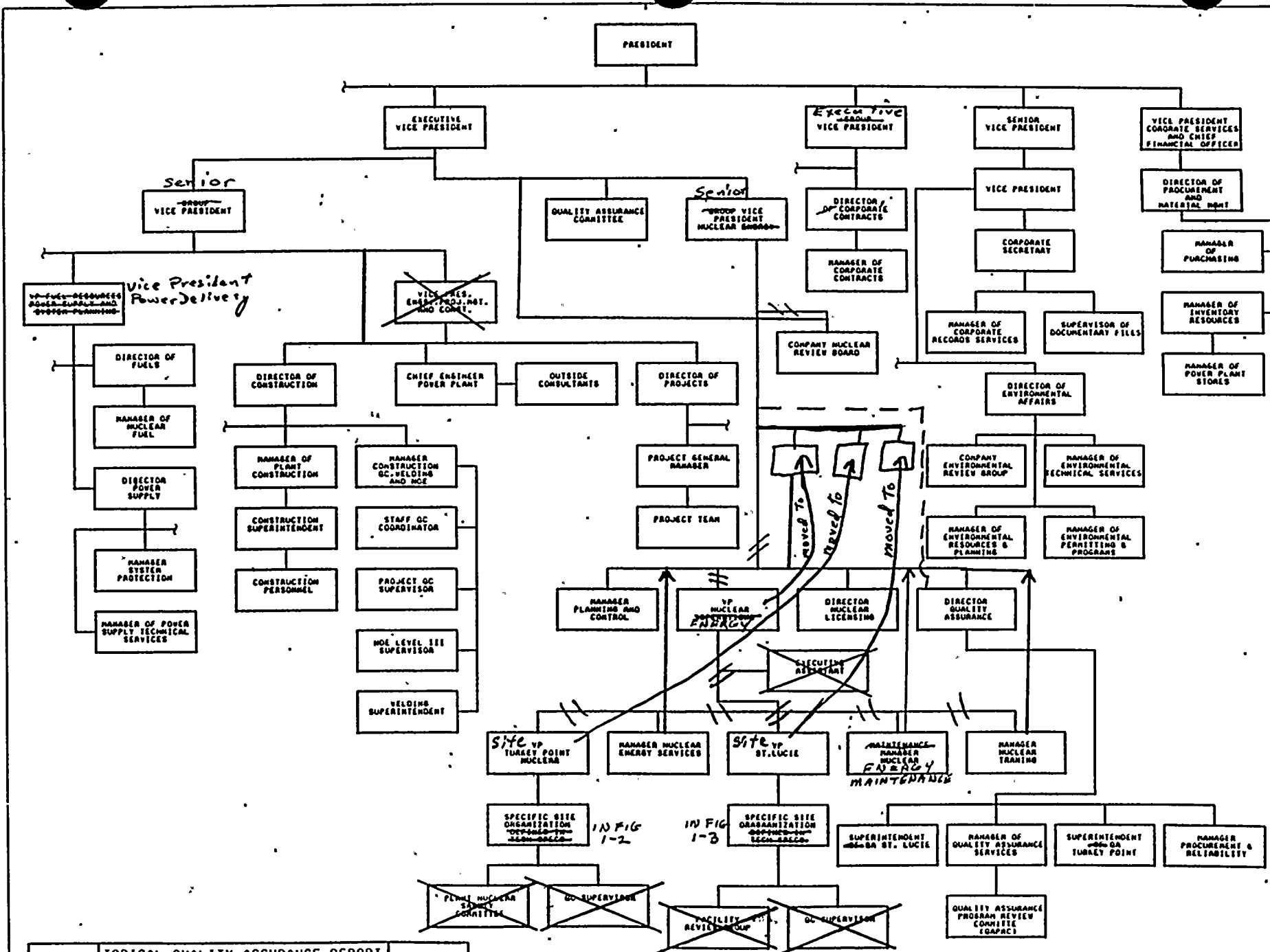
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15.2.4 Evaluation and Disposition (Cont'd)

- d. Accessibility of material or items after release;
- e. Cost of removal and repair of replacement should material or items eventually have to be removed, repaired, or replaced;
- f. Impact on plant safety.

Items shall be reworked or repaired in accordance with documented procedures and shall be verified by reinspecting the item as originally inspected or by a documented method which is at least equal to the original inspection method.

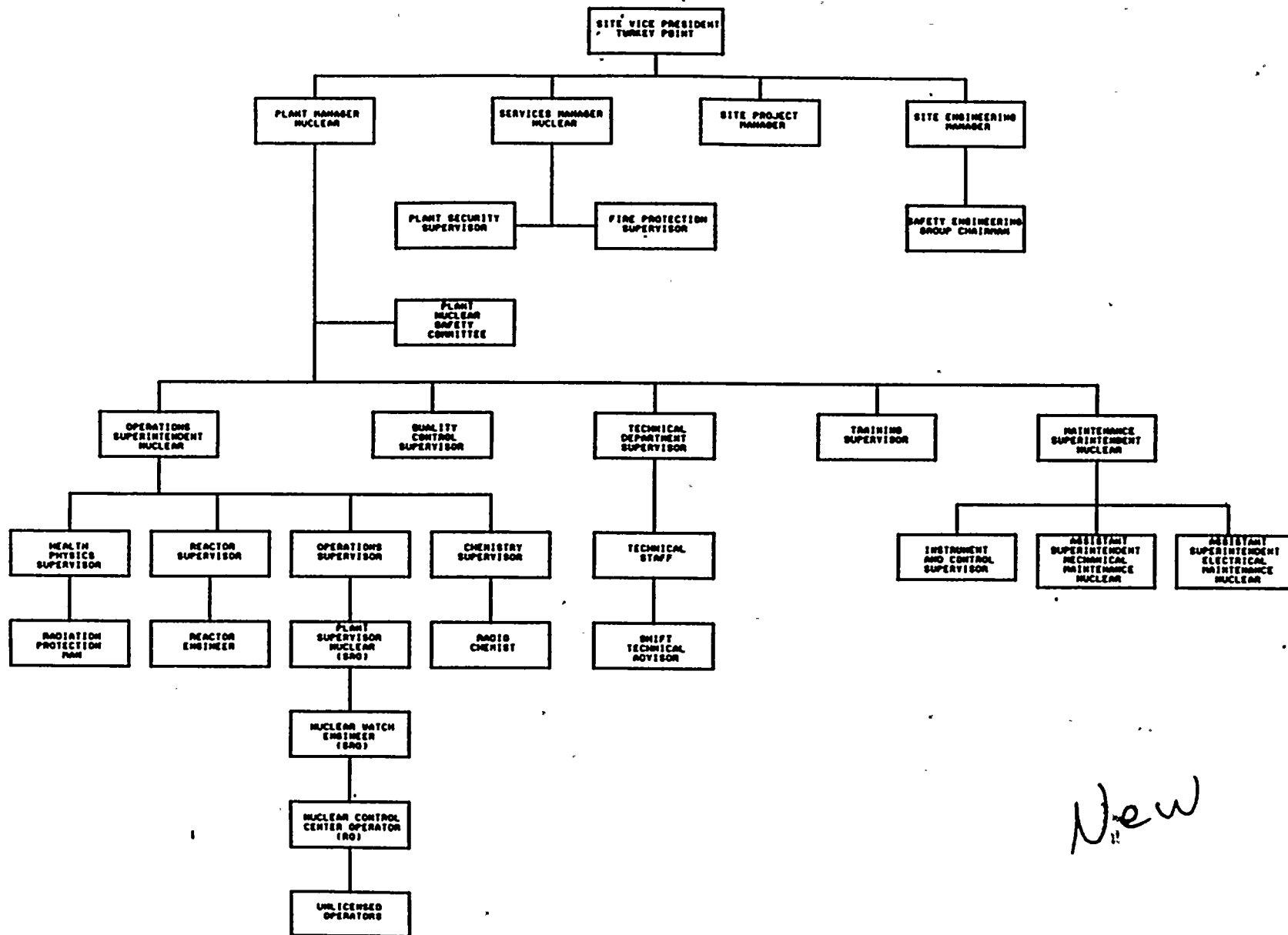
Quality Assurance or Quality Control personnel shall periodically review nonconformance reports to identify quality trends. The results of these analyses shall be reviewed with appropriate members of upper level management.



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FIGURE 1-1
APPENDIX A

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TURKEY POINT NUCLEAR SITE ORGANIZATION FIGURE 1-2 APPENDIX A	
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SITE VICE PRESIDENT
ST. LUCIE

PLANT MANAGER

SERVICES MANAGER

ADMINISTRATIVE
SUPERVISOR

FIRE PROTECTION
SUPERVISOR

PLANT SECURITY
SUPERVISOR

OPERATIONS
SUPERINTENDENT

TRAINING
SUPERVISOR

TECHNICAL
DEPARTMENT
SUPERVISOR

QUALITY
CONTROL
SUPERVISOR

MAINTENANCE
SUPERINTENDENT

HEALTH
PHYSICS
SUPERVISOR

REACTOR
SUPERVISOR

REACTOR
ENGINEER

OPERATIONS
SUPERVISOR
(SRO)

NUCLEAR
PLANT
SUPERVISOR
(SRO)

ASSISTANT
NUCLEAR PLANT
SUPERVISOR
(SRO)

CONTROL
CENTER
OPERATOR
(RO)

UNLICENSED
OPERATORS

CHEMISTRY
SUPERVISOR

TECHNICAL
STAFF

SHIFT
TECHNICAL
ADVISOR

INSTRUMENT
AND CONTROL
SUPERVISOR

ASSISTANT
SUPERINTENDENT
MECHANICAL
MAINTENANCE

ASSISTANT
SUPERINTENDENT
ELECTRICAL
MAINTENANCE

New

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ST. LUCIE PLANT-UNITS 1 & 2
SITE ORGANIZATION
FIGURE 1-3
APPENDIX A

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APPENDIX E

LIST OF CORPORATE QUALITY ASSURANCE PROCEDURES

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QP NUMBER/TITLE

SECTION DESCRIPTION

1.1
CANCELLED

2.1
CANCELLED
(Terms and Definitions contained
in the QA Manual Glossary)

2.2
REVISION OF THE TOPICAL QUALITY
ASSURANCE REPORT

Provides instructions for the revision of
the Florida Power & Light Company
Topical Quality Assurance Report
(FPL TQAR).

2.3
QUALITY ASSURANCE PROGRAM
REVIEW

Describes the instructions and methods
used for establishing, preparing, issuing,
revising and controlling Quality
Procedures employed in supporting quality
requirements.

2.4
PREPARATION AND REVISION OF
QUALITY INSTRUCTIONS

Provides the responsibilities, guidelines
and methods used for developing and
revising Quality Instructions, based upon
QP's, that involve quality activities
within a department or organization and
are unique to that activity.

2.5
QUALITY ASSURANCE INDOCTRINATION
AND DEPARTMENTAL TRAINING

Describes the requirements for the
indoctrination and training of personnel
who perform, or are responsible for
activities that affect quality.

2.6
CANCELLED

2.7
IDENTIFICATION OF NUCLEAR SAFETY
RELATED AND SAFETY RELATED DESIGN
FEATURE STRUCTURES, SYSTEMS
COMPONENTS AND SERVICES

Describes the development and approval
of documents identifying safety related
and safety related design feature
structures, systems and components.



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QP NUMBER/TITLE

SECTION DESCRIPTION

2.8
CLEANLINESS CONTROL METHODS

Provides criteria for securing good house-keeping. Assigns responsibilities for assuring that the cleanliness of material, systems and structures is maintained.

2.9
QUALIFICATION OF QA AUDIT, QC INSPECTION AND CONSTRUCTION TEST PERSONNEL

Describes the personnel qualifications that are required to assure that competent QC inspectors, QA auditors, and construction test personnel perform these respective functions.

2.10
HOUSEKEEPING FOR OPERATING PLANTS

Describes the responsibilities and controls for housekeeping at operating nuclear power plants.

2.11
CANCELLED

2.12
FPL QA PROGRAM APPLICABILITY FOR FIRE PROTECTION SYSTEMS

Identifies the applicability of the FPL Quality Assurance Program for Fire Protection Systems.

2.13
PROCESSING OF NRC CORRESPONDENCE

Describes the system for providing responses to NRC initiated action requests.

2.14
IMPLEMENTATION OF ASME XI

Describes the program and responsibilities for controlling activities defined by ASME Section XI.

Add } 2.17 Environmental Qualification (EQ) of Electrical Equipment

3.1
CANCELLED

→ Delineates the responsibilities and requirements for maintaining the environmental qualifications of nuclear plant components.

3.2
IDENTIFICATION AND CONTROL OF DESIGN INTERFACES

Describes measures employed for identifying and controlling design interfaces, changes in design interfaces, and modifications that affect documents.



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*add 6.7 Control of Vendor
Manuals and Vendor
Technical Information*QP NUMBER/TITLE*Establishes requirements for controlling
technical manuals for operating, maintenance
and test equipment.*SECTION DESCRIPTION

7.1
RECEIPT INSPECTION OF MATERIALS,
PARTS AND COMPONENTS AT THE PLANT
SITE

Provides instructions for receipt
inspection of materials, parts and
components which have been obtained for
use in nuclear safety applications at the
operating plant site.

7.2
CANCELLED

7.3
CANCELLED

7.4
EVALUATION OF SUPPLIERS OF SAFETY
RELATED ITEMS OR SERVICES

Provides standards, measures, and guide-
lines for the evaluation of QA Programs of
contractors or suppliers supplying items or
services.

7.5
CANCELLED

7.6
ACCEPTANCE OF ITEMS & SERVICES

Describes the responsibilities and
requirements for accepting nuclear
safety related items or services that are
being procured for nuclear power plants.

7.8
REVIEW AND DISPOSITION OF
SUPPLIER DEVIATION NOTICES

Describes the responsibilities and
requirements for the review and
disposition of nonconformances identified
within a supplier's facility which have
resulted or will result in an item which
does not fully comply with the FPL
procurement document quality and
technical requirements. This procedure
applies to purchased items which have not
yet been shipped.

add
8.1
IDENTIFICATION & CONTROL OF
MATERIALS, PARTS AND COMPONENTS
AT THE PLANT SITE

Delineates measures for assuring trace-
ability, identification and control of
items from the time they are received
through usage at operating plants.

add
7.9
control of on-site vendor services

*This procedure provides a system to assure that vendors
who provide on-site services by contractor purchase
order to FPL at nuclear power plants are controlled.*



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QP NUMBER/TITLESECTION DESCRIPTION8.2
CANCELLED9.1
CONTROL OF SPECIAL PROCESSES
~~FOR CONSTRUCTION~~

Delineates the responsibilities of organizations and personnel, and the control and documentation of special processes that are applied to safety related items.

9.2 *Cancelled (combined with 9.1)*
~~CONTROL OF SPECIAL PROCESSES DURING
OPERATING PHASE~~~~Describes measures to assure adequate control over special processes applied to safety related items during the operating phase of nuclear power plants.~~9.4
CONTROL OF WELDING FOR NUCLEAR POWER
PLANTS

Delineates responsibilities and requirements for control FPL welding processes for nuclear power plants.

10.1
CANCELLED10.2
CANCELLED10.3
INSPECTION AND SURVEILLANCE

Delineates responsibilities and requirements for the inspection and surveillance of safety related plant maintenance activities, operation of safety related systems, and fuel handling activities.

10.4
CANCELLED10.5
CANCELLED10.6
CANCELLED



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QP NUMBER/TITLESECTION DESCRIPTION

11.1 *Cancelled (combined with 11.4)*
~~TEST CONTROL - CONSTRUCTION~~

~~Establishes measures to assure that contractor testing of safety related material during the plant construction phase is controlled, accomplished, and documented.~~

11.2 *Cancelled (combined with 11.4)*
~~TEST CONTROL - OPERATION~~

~~A description of the procedures and practices employed by FPL to control testing of plant functions and material that are within the scope of the QA Program during the plant operational phase.~~

11.3 *Cancelled (combined with 11.4)*
~~TEST CONTROL - PREOPERATIONAL
AND START-UP TESTS~~

~~Defines the procedures and practices employed to demonstrate the capabilities of a nuclear plant to satisfy safety related performance specifications.~~

11.4
TEST CONTROL

Defines the measures for control of proof test prior to installation, construction tests, preoperational tests, startup tests, operational tests and retests following repairs, replacements or modifications for nuclear safety related systems, structures, and components.

12.1
CALIBRATION AND CONTROL OF
MEASURING AND TEST EQUIPMENT

Delineates the responsibilities for implementing the described program for maintenance, calibration and control of measuring and test equipment (M&TE).

12.2
CALIBRATION CONTROL OF INSTALLED
PLANT INSTRUMENTATION AND CONTROL
EQUIPMENT

Describes the calibration program, delineates responsibilities, and establishes procedures for control over the calibration of installed instrumentation and plant control equipment.



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QP NUMBER/TITLESECTION DESCRIPTION

13.1
HANDLING, STORAGE AND SHIPPING OF
MATERIALS, PARTS AND COMPONENTS

Establishes responsibilities and procedures to assure that measures are employed by FPL and contractors to: (1) control the handling, shipping and storage of material; (2) protect the quality of material by using proper handling, shipping, and storage techniques; (3) effectively control the disposition of discrepant items.

13.2
CANCELLED

13.3
CONTROL OF RESERVED CENTRALLY STORED
ELECTRICAL CABLE

Provides the requirements for the issuance and controls of centrally stored electrical cable for use in all operating nuclear power plants.

14.1
INSPECTION, TEST, AND OPERATING
STATUS DURING PLANT OPERATION

Specifies the respective responsibilities of FPL personnel and the measures employed for identifying the status (Inspection-Test-Operation) of plant structures, systems and components.

14.2
INSPECTION TEST AND OPERATING
STATUS DURING PLANT CONSTRUCTION

Provides requirements and responsibilities for the identification of the inspection, test and operating status of plant equipment up to turnover of the plant to the operating organization.

15.1 *Cancelled (combined with 15.2)*
~~CONTROL OF NONCONFORMING MATERIALS,
PARTS, OR COMPONENTS - PLANTS UNDER
CONSTRUCTION~~

~~Specifies the responsibilities of FPL departments and the process for exercising control over materials, structures, or activities that do not conform to specifications so that inadvertent use or installation does not occur.~~