

NUCLEAR POWER
ORGANIZATION DESCRIPTION

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ABSTRACT

The TVA Nuclear Power Organization Description (TVA-NPOD89) includes organization descriptions for Nuclear Power (NP) including the organization descriptions for Browns Ferry, Sequoyah, Watts Bar, and Bellefonte Nuclear Plants. This report contains the senior management, technical support and operating organization descriptions and organization charts that meet the "content" guidance of NRC's Standard Format and Content of Safety Analysis Reports for Nuclear Power Plants-LWR Edition, Rev. 3 (November 1978), Sections 13.1.1, 13.1.2, and 17.1.1. The format of this report is similar to that provided in the format and content document; however, the section numbers do not begin with the chapter number (i.e., 13, 17). Following NRC acceptance of this report, TVA intends to remove the organization descriptions from applicable licensing documents including the Final Safety Analysis Reports, Technical Specifications, Nuclear Performance Plans, and Nuclear Quality Assurance Plan as they are revised and TVA-NPOD89 will be referenced.

Qualifications requirements and training descriptions specified in the standard format document will continue to be provided in each plant's Final Safety Analysis report. The TVA quality assurance program description is contained in the TVA Nuclear Quality Assurance Plan (TVA-NQA-PLN89).

INTRODUCTION

The purpose of the Nuclear Power Organization Description (TVA-NPOD89) is to establish a controlled single source document and a disciplined process for communicating organization structure and position descriptions to the Nuclear Regulatory Commission (NRC). TVA-NPOD89 will be referenced in future revisions of our license applications including the Safety Analysis Reports (SARs), Technical Specifications (TSs), the Nuclear Quality Assurance Plan, and other documents that may refer to the Tennessee Valley Authority's Nuclear Power organization. This topical report will be revised as necessary to reflect major organizational changes and at least annually in accordance with the requirements of 10 CFR 50.71.

1.0 Corporate Organization

TVA is an agency of the Federal Government whose major policies, programs, and organization are determined by a full-time, three-member Board of Directors. Members of the Board are appointed by the President and confirmed by the Senate for nine-year terms. The Board of Directors is assisted by TVA's Executive Vice President and Chief Operating Officer.

1.1 Nuclear Power

TVA's Nuclear Power organization is responsible for nuclear plant engineering and design, construction, operation, quality assurance, and compliance with regulatory requirements. Nuclear Power plans and manages the nuclear energy supply program to meet the requirements of TVA's power program consistent with safety, environmental, quality, and economic objectives. The general organization of Nuclear Power, TVA is shown in Figure 1-1.

1.2 Senior Vice President, Nuclear Power

The Senior Vice President, Nuclear Power is the senior nuclear manager with direct authority and responsibility for the management, control, and supervision of TVA's nuclear power program and for the execution of nuclear programs, policies, and decisions that the Board of Directors approves or adopts. The Senior Vice President reports directly to the TVA Board of Directors and the Executive Vice President and Chief Operating Officer.

The Senior Vice President, Nuclear Power is responsible for the overall safety, efficiency, and economy of nuclear operations. The Senior Vice President establishes management and operating policies and procedures related to TVA's nuclear power program and is responsible for personnel, planning, scheduling, licensing, engineering and design, construction, operation, quality assurance, training, maintenance, technical and administrative matters related to that program. The Senior Vice President coordinates the activities and functions of Nuclear Power with other TVA organizations in order to carry out TVA corporate policy and to meet corporate goals and objectives. This position is responsible for all aspects of TVA's interface and relations with the United States Nuclear Regulatory Commission and other entities with jurisdiction over or interest in TVA's nuclear power program.

The Senior Vice President, Nuclear Power is responsible for the development and implementation of an effective radiological emergency preparedness program; directing shutdown of nuclear facilities when deemed appropriate; and the development of long-range strategic plans for all TVA nuclear programs, activities and facilities.

The Senior Vice President, Nuclear Power is assisted in carrying out these responsibilities by the Nuclear Safety Review Board Chairman; the Manager of Nuclear Human Resources; the vice presidents of Nuclear Assurance and Services, Nuclear Technical Direction, Nuclear Business Operations, Nuclear Engineering, Nuclear Power Production, New Projects; and an executive staff.

Nuclear Safety Review Board (NSRB)

The NSRB Chairman is responsible for developing and implementing procedures consistent with NP policy and NRC requirements to conduct an independent nuclear safety assessment and review of TVA's nuclear power plants. Individual safety review boards are in place for the Browns Ferry, Sequoyah, and Watts Bar plants. Because Bellefonte has been indefinitely deferred, the NSRB for that plant has not been established. These boards are composed of senior TVA managers and advisors who are not employed by TVA. The Chairman directs the independent safety reviews of TVA's nuclear plants; manages the activities of the NSRBs to ensure that responsibilities and functions are in accordance with appropriate Technical Specification requirements; and provides an overall assessment based upon the review program and recommends plant safety improvements to the Senior Vice President. The Chairman or designee chairs each meeting of the NSRBs; approves and transmits minutes of NSRB meetings; and issues reports consistent with the NSRB charter.

Nuclear Human Resources (NHR)

The Manager of NHR is responsible for developing, coordinating, directing, and managing a viable human resources program for NP. The foundation of the NHR program is NP's philosophy and commitment to recognizing employees as the organization's most valuable resource. Elements of the program include staffing and employment, compensation administration, labor relations, affirmative action and equal opportunity employment, employee communication, organization development, human resource policy and procedures development, management development and training; and ensuring suitability for employee service by the implementation of the Fitness for Duty Program. The Manager of NHR provides guidance and assistance to senior line managers and human resource specialists to ensure that TVA and NP Human Resources policies and standards are carried out in an efficient and economical manner. The Employee Concern Program is part of the NHR organization and provides an avenue for employees to express concerns about conditions perceived to be adverse to nuclear safety or related quality matters.

NUCLEAR POWER

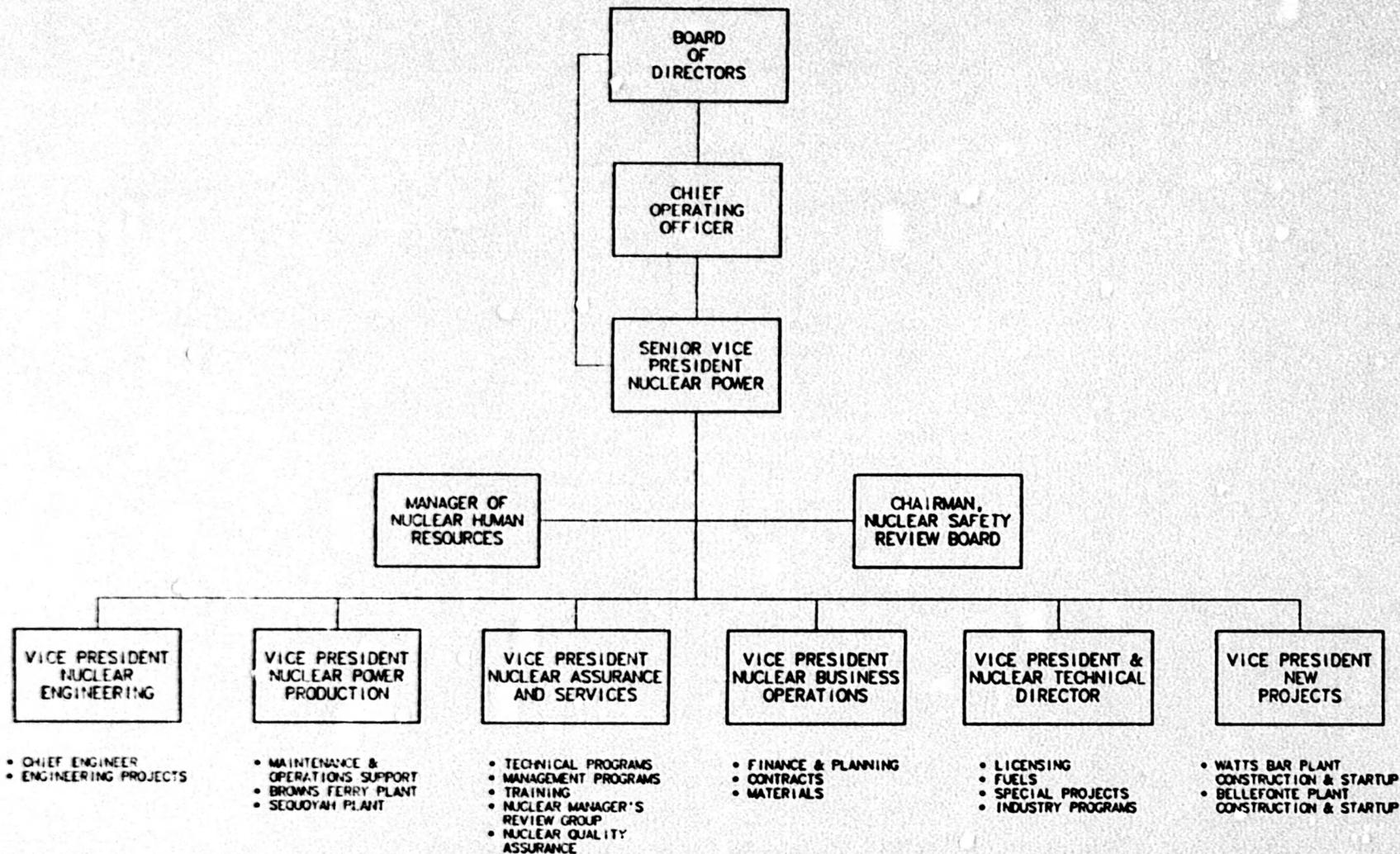


FIGURE 1-1

2.0 Vice President, Nuclear Assurance and Services (NA&S)

The Vice President, NA&S provides general management and oversight of the programmatic activities of quality assurance, management support, technical support, and training. Management support to other organizations within NP is provided in the areas of information systems, office services, configuration management, nuclear procedures system, telecommunications, and document control and records management. Technical support is provided in the areas of radiological control, radioactive waste management, environmental protection, chemistry, emergency preparedness, fire protection, industrial safety, and nuclear security. In addition, NA&S provides oversight coordination of reviews and evaluation of NP activities, including quality performance.

The Vice President, NA&S has five principal reports and administers responsibilities through the following managers:

- Manager, Management Programs
- Manager, Nuclear Training
- Manager, Technical Programs
- Manager, Nuclear Manager's Review Group
- Manager, Nuclear Quality Assurance

See Figure 2-1 for NA&S organization chart.

2.1 Management Programs (MP)

The Manager, MP reports to the Vice President, NA&S and assists the Senior Vice President, Nuclear Power and other senior management with establishing policy for and maintaining consistency in the plants within assigned functional areas. This organization provides direct support to NP in the areas of information systems, office services, telecommunications and document control and records management. It also establishes and provides overall management and coordination of the NP Configuration Management program and the NP system of directives, standards and procedures. The Manager, MP provides technical support and assistance to the line organizations and assists the plants with solving problems in his/her areas of responsibility.

2.2 Nuclear Training (NT)

The Manager, NT reports to the Vice President, Nuclear Assurance and Services (NA&S) and is responsible for establishing, maintaining, and implementing the Nuclear Power Training and Qualification Program, which includes technical training for plant operations, engineering, maintenance, and technical personnel and General Employee Training. The Site Training Managers receive technical and programmatic direction and support from the Manager, NT, and receive day-to-day management oversight and direction on site training needs from the assigned site manager. The Manager, NT is also responsible for managing and coordinating with the line organizations in order to attain and maintain accreditation by the National Nuclear Accrediting Board in the applicable functional plant staff areas.

2.3 Technical Programs (TP)

The Manager, TP reports to the Vice President, NA&S and assists the Senior Vice President, Nuclear Power and other senior management with establishing policy for and maintaining consistency in the plants within assigned functional areas. The Manager, TP provides technical support and assistance to the line organizations and assists the plants with solving problems in radiological control, radioactive waste management, environmental protection, chemistry, emergency preparedness, fire protection, industrial safety, and nuclear security. The TP organization establishes and implements the offsite emergency response plan and coordinates with the sites to provide internal consistency and interface control. TP also establishes and implements the security plan for nuclear power sites and provides the nuclear security personnel who perform the security functions at the sites under the direction of site management.

2.4 Nuclear Manager's Review Group (NMRG)

The Manager, NMRG reports to the Vice President, NA&S and is responsible for the following activities:

- A. Developing and implementing a review and evaluation program under the control and direction of the Senior Vice President, Nuclear Power to assess activities associated with engineering and design, construction, and operation of TVA's nuclear plants;
- B. Providing an independent check on the effectiveness of NP programs and their implementation;
- C. Periodically providing reports to senior management; and
- D. Implementing Nuclear Power policy and programs which establish the Independent Safety Engineering (ISE) function as set forth in NUREG 0737. (This function, which is now under the direct control of the Manager, Nuclear Licensing and Regulatory Affairs (NLRA), is to be transferred to NMRG. This transfer of functions will take place after proposed changes to the Sequoyah technical specifications to remove the NLRA oversight responsibility for the Independent Safety Engineering Group are approved.)

2.5 Nuclear Quality Assurance (NQA)

The Manager, NQA reports directly to the Vice President, NA&S and has an independent reporting relationship to the Senior Vice President and other Vice Presidents on quality matters. This is to ensure that the quality organization has direct access to appropriate levels of management and sufficient independence and organizational freedom to be able to effectively assure conformance to quality assurance program requirements. All nuclear quality assurance and quality control functions are consolidated under the Manager, NQA.

The Manager, NQA is responsible for:

- A. Developing and administering the Nuclear Quality Assurance Plan and the NQA organization procedures required to ensure that TVA activities provide the required degree of safety and reliability;
- B. Auditing, inspecting, and monitoring the conduct of TVA activities to ensure that they provide the required high degree of safety and reliability and are carried out consistent with applicable laws, regulations, regulatory commitments, licenses, and other requirements;
- C. Performing assessments on a planned and periodic basis to comprehensively determine the effectiveness of the program and its implementation and submitting results of assessments to appropriate management;
- D. Stopping work or further processing, delivery, or installation or taking other comparable actions when warranted to control and/or prevent the use of nonconforming materials or continuance of activities adverse to quality; and
- E. Establishing requirements for QA training and for monitoring the implementation and effectiveness of that training.

The Manager, NQA administers responsibilities through the following managers:

Quality Audit and Evaluation Manager
Quality Programs Manager
Site Quality Managers
Inspection Services Manager
Special Programs Manager

See Figure 2-2 for NQA organization chart.

2.5.1 Nuclear Quality Audit and Evaluation

The Nuclear Quality Audit and Evaluation (NQA&E) Manager is responsible for:

- a. Planning, conducting, and reporting the results of audits and following up identified adverse conditions to ensure appropriate corrective action has been taken;
- b. Conducting in-depth technical audits to determine the technical adequacy of engineering activities;
- c. Performing audits of engineering, construction and operations activities to determine compliance with QA program requirements;

- d. Reviewing and auditing QA programs of TVA organizations that support quality-related activities;
- e. Providing an annual assessment of the adequacy and effectiveness of QA program implementation by involved TVA organizations; and
- f. Performing audits of contractors who perform engineering services.

2.5.2 Quality Programs

The Quality Programs Manager is responsible for:

- a. Developing and implementing the materials and procurement QA program that includes auditing, source inspection and surveillance of supplier activities. Developing and maintaining the Acceptable Supplier List (ASL) of approved vendors;
- b. Developing and maintaining the QA program for receipt inspection, handling, and storage of materials at each plant site;
- c. Developing, reviewing, and maintaining upper-tier nuclear QA program requirements documents that include the Nuclear Quality Assurance Plan and the Quality Assurance Manual for ASME Section III Nuclear Power Plant Components;
- d. Providing quality engineering and monitoring support functions for NP organizations;
- e. Reviewing and approving QA programs of TVA contractor and supplier organizations supporting the nuclear program;
- f. Establishing requirements for selection, training, and certification of personnel performing NQA activities;
- g. Managing a program for tracking and trending conditions adverse to quality;
- h. Developing and maintaining quality control and nondestructive examination inspection methods and programs;
- i. Monitoring NDE, Quality Engineering, Quality Control, and QA activities; and
- j. Developing and maintaining the corporate quality assurance requirements for welding and other applicable special processes.

2.5.3 Site Quality

The Site Quality Managers establish and maintain a quality assurance organization to perform the quality engineering, quality control, quality improvement, and QA monitoring functions. The Site Quality Managers are involved in day-to-day plant quality-related activities through participation in plant meetings, review of relevant documentation, and execution of the following duties and responsibilities:

- a. Assisting site management in developing, planning, initiating, and directing nuclear plant quality assurance programs;
- b. Performing Quality Engineering reviews to assess the adequacy of implementing work control documents;
- c. Evaluating the effectiveness of the nuclear quality assurance program through the review of audit, monitoring, inspection and review results;
- d. Reviewing and verifying that quality assurance requirements are contained in applicable site QA program procedures;
- e. Developing and implementing the site quality control inspection program;
- f. Working with site management to support quality improvement by performing functions such as trend analysis, root cause analysis of quality deficiencies, evaluation of dispositions of major quality issues, interface with line management on quality improvement initiatives, and development of QA operational/start-up readiness assessment plans;
- g. Stopping work or further processing, delivery, or installation and issuing formal stop work orders, when warranted to control and/or prevent the use of nonconforming materials or continuance of activities adverse to quality;
- h. Monitoring and performing in-depth technical surveillance to determine the effectiveness of engineering work; and
- i. Reviewing of procurement documents, including engineering services, for QA requirements.

See Figure 2-3 for a typical Site Quality organization chart.

2.5.4 Inspection Services

The Inspection Services Manager is responsible for:

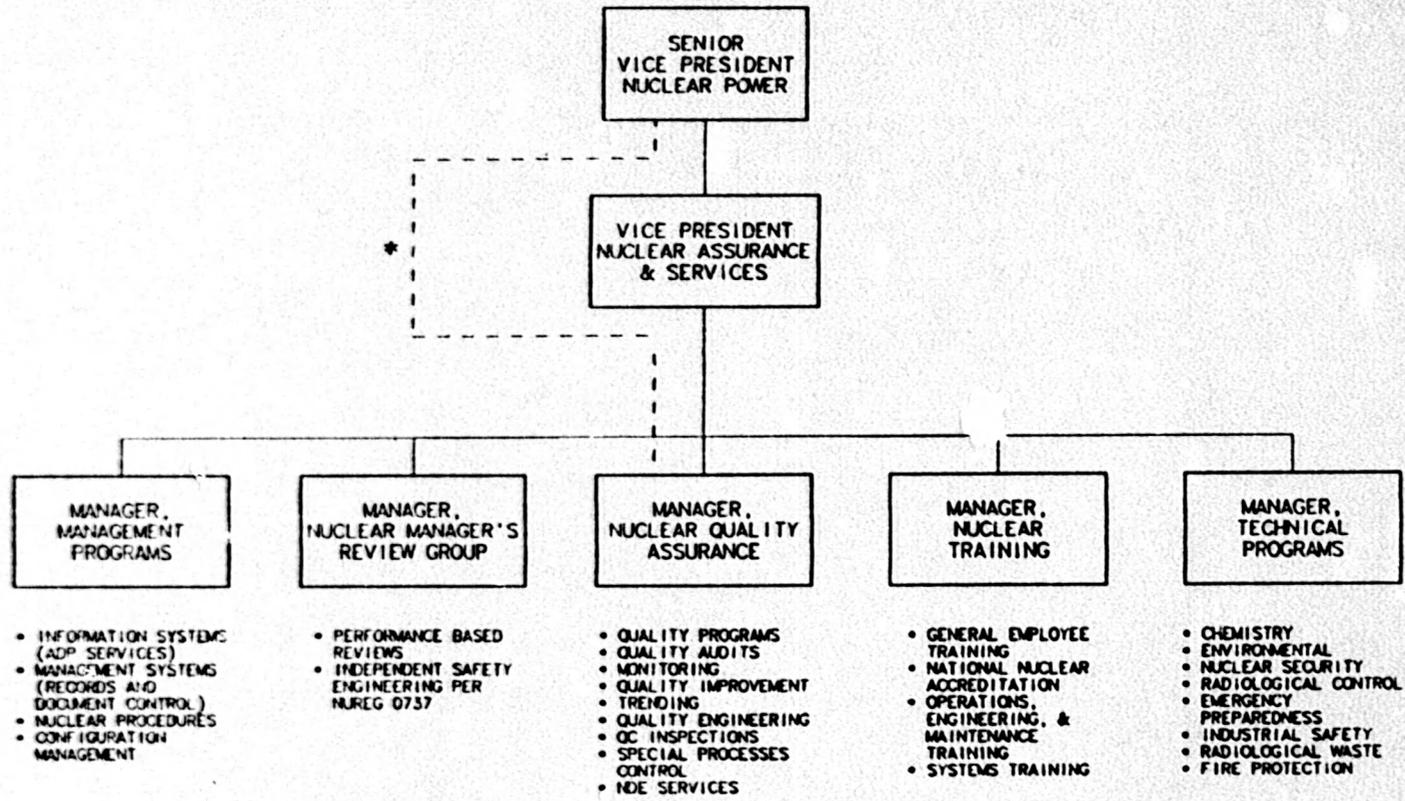
- a. Providing resources for outage and recovery support to the nuclear plants; and
- b. Planning and implementation of ASME Section XI NDE inspection program.

2.5.5 Special Programs Manager

The Special Programs Manager is responsible for:

- a. Managing the investigation of NQA sensitive personnel or management issues; and
- b. Advising the Manager, NQA on matters related to the development and implementation of the QA program.

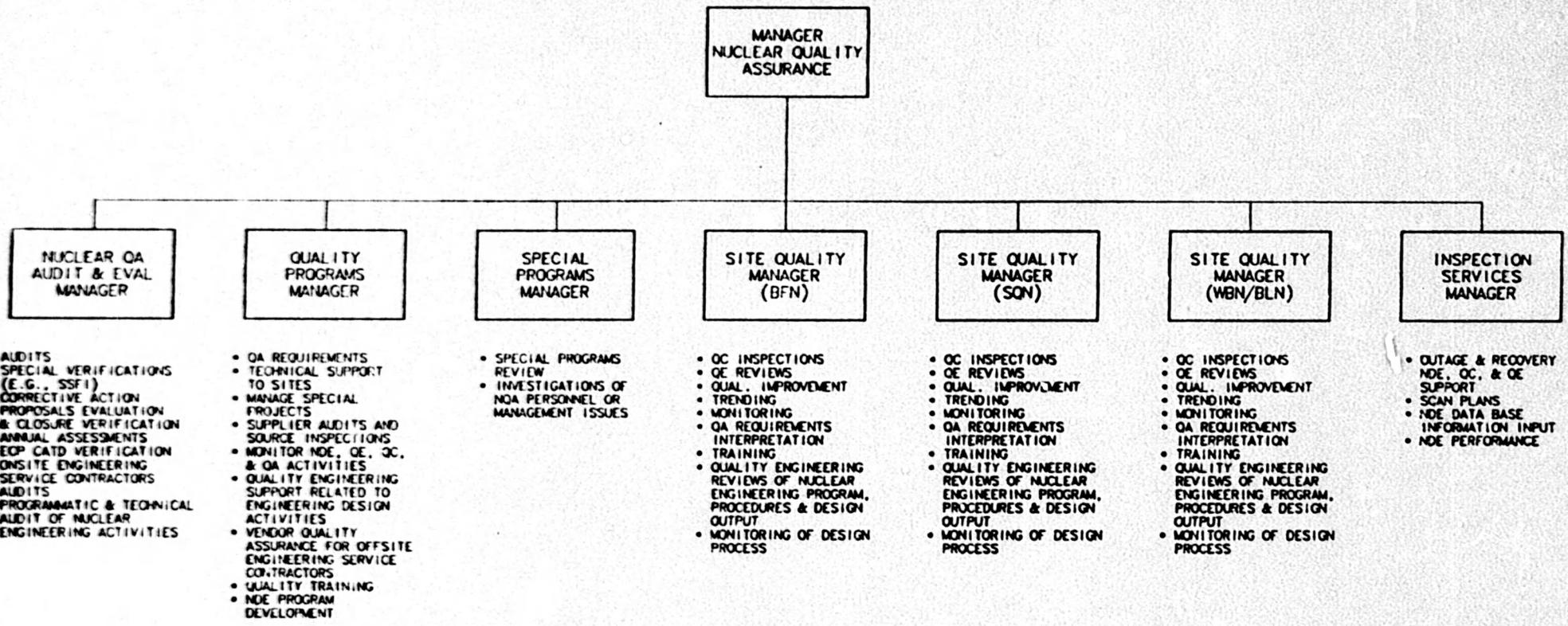
NUCLEAR POWER NUCLEAR ASSURANCE AND SERVICES



• INDEPENDENT REPORTING TO THE SENIOR VICE PRESIDENT ON QUALITY STATUS AND ISSUES

FIGURE 2-1

NUCLEAR POWER
NUCLEAR ASSURANCE AND SERVICES
NUCLEAR QUALITY ASSURANCE



- AUDITS
- SPECIAL VERIFICATIONS (E.G., SSFI)
- CORRECTIVE ACTION PROPOSALS EVALUATION & CLOSURE VERIFICATION
- ANNUAL ASSESSMENTS
- EOP CATD VERIFICATION
- ONSITE ENGINEERING SERVICE CONTRACTORS AUDITS
- PROGRAMMATIC & TECHNICAL AUDIT OF NUCLEAR ENGINEERING ACTIVITIES

- QA REQUIREMENTS
- TECHNICAL SUPPORT TO SITES
- MANAGE SPECIAL PROJECTS
- SUPPLIER AUDITS AND SOURCE INSPECTIONS
- MONITOR NDE, QE, QC, & QA ACTIVITIES
- QUALITY ENGINEERING SUPPORT RELATED TO ENGINEERING DESIGN ACTIVITIES
- VENDOR QUALITY ASSURANCE FOR OFFSITE ENGINEERING SERVICE CONTRACTORS
- QUALITY TRAINING
- NDE PROGRAM DEVELOPMENT

- SPECIAL PROGRAMS REVIEW
- INVESTIGATIONS OF NQA PERSONNEL OR MANAGEMENT ISSUES

- OC INSPECTIONS
- QE REVIEWS
- QUAL. IMPROVEMENT
- TRENDING
- MONITORING
- QA REQUIREMENTS INTERPRETATION
- TRAINING
- QUALITY ENGINEERING REVIEWS OF NUCLEAR ENGINEERING PROGRAM, PROCEDURES & DESIGN OUTPUT
- MONITORING OF DESIGN PROCESS

- OC INSPECTIONS
- QE REVIEWS
- QUAL. IMPROVEMENT
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- TRAINING
- QUALITY ENGINEERING REVIEWS OF NUCLEAR ENGINEERING PROGRAM, PROCEDURES & DESIGN OUTPUT
- MONITORING OF DESIGN PROCESS

- OUTAGE & RECOVERY NDE, QC, & QE SUPPORT
- SCAN PLANS
- NDE DATA BASE INFORMATION INPUT
- NDE PERFORMANCE

FIGURE 2-2

NUCLEAR POWER
NUCLEAR ASSURANCE AND SERVICES
NUCLEAR QUALITY ASSURANCE
SITE QUALITY (TYPICAL)

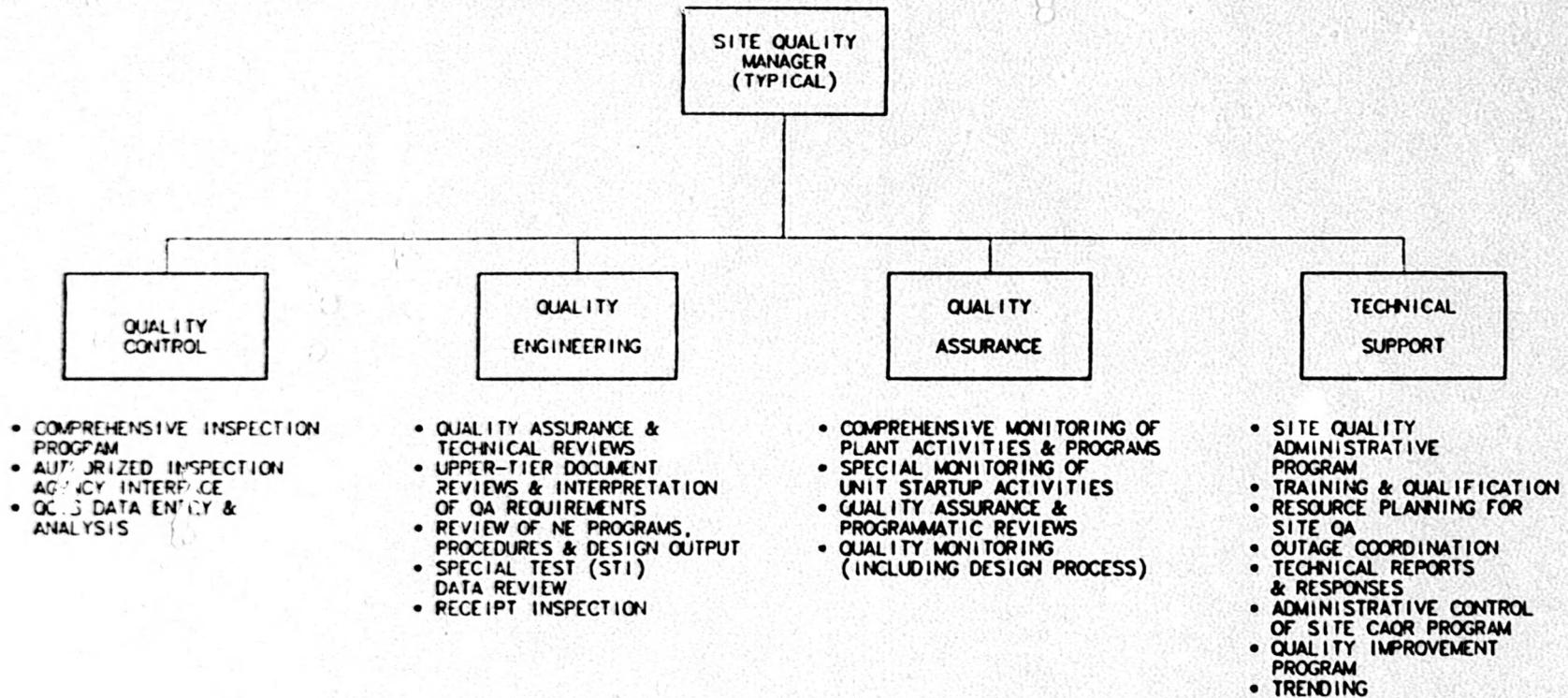


FIGURE 2-3

3.0 Vice President and Nuclear Technical Director

The Vice President and Nuclear Technical Director is responsible for the general management and oversight of the licensing, nuclear fuels, nuclear experience review, special projects, and industry program functions of NP.

The Vice President and Nuclear Technical Director has four principal reports and administers responsibilities through the following managers.

Manager, Nuclear Licensing and Regulatory Affairs
Manager, Industry and Applied Technology Programs
Manager, Special Projects
Manager, Nuclear Fuels

See Figure 3-1 for the Nuclear Technical Direction (NTD) organization chart.

3.1 Nuclear Licensing and Regulatory Affairs (NLRA)

The Manager, NLRA reports to the Vice President and Nuclear Technical Director and is responsible for the following activities:

- A. Serving as the principal interface with the NRC, provides information and interpretations concerning regulatory requirements; directs the preparation for and conduct of NRC audits, inspections and meetings; ensures the interpretation or resolution of NRC requests or imposed regulatory changes; and ensures compliance with NRC reporting requirements;
- B. Establishing and maintaining a licensing program for obtaining and maintaining required licenses and permits for new, recovering and operating nuclear plants;
- C. Providing management and oversight of the nuclear experience review, generic issues, and the corporate commitment tracking programs; and
- D. Ensuring resolution of NRC issues by developing action plans and managing implementation of those plans.

3.2 Industry and Applied Technology Programs

The Manager, Industry and Applied Technology Programs reports to the Vice President and Nuclear Technical Director and is responsible for the following activities:

- A. Managing the coordination of the NP interface with nuclear industry groups including INPO, EPRI, NUMARC, nuclear owner's groups, and other nuclear industry-wide programs;
- B. Managing applied research and development projects related to nuclear power generation systems; and
- C. Managing and coordinating nuclear insurance and programs and procedures.

3.3 Special Projects

The Manager, Special Projects reports to the Vice President and Nuclear Technical Director and is responsible for the following activities:

- A. Providing direction, oversight, and support for overall project management activities assigned by the Vice President and Nuclear Technical Director and the Senior Vice President, NP;
- B. Establishing appropriate site interfaces to ensure detailed project plans, defined work scopes, identified deliverables, and developed schedules and cost estimates are complete prior to site implementation;
- C. Developing an overall integrated living schedule for NP and establishing the methodology for site development of site-wide integrated schedules;
- D. Managing selected assigned major projects from initiation to post implementation acceptance;
- E. Developing project management policy and procedures to ensure consistent methodology throughout NP. All project managers receive guidance from the Manager, Special Projects in project management methodology; and
- F. Coordinating and providing support to the Project Approval Board and the Site Change Control Boards.

3.4 Nuclear Fuels

The Manager, Nuclear Fuels reports to the Vice President and Nuclear Technical Director and is responsible for the following:

- A. Managing TVA nuclear fuel cycle activities (from uranium acquisition through spent fuel disposal) to supply fuel, fuel-related components, and services; and
- B. Providing support and technical direction to the nuclear sites for fuel utilization and the management of nuclear fuel performance and reactor transient and accident analysis activities.

NUCLEAR POWER NUCLEAR TECHNICAL DIRECTION

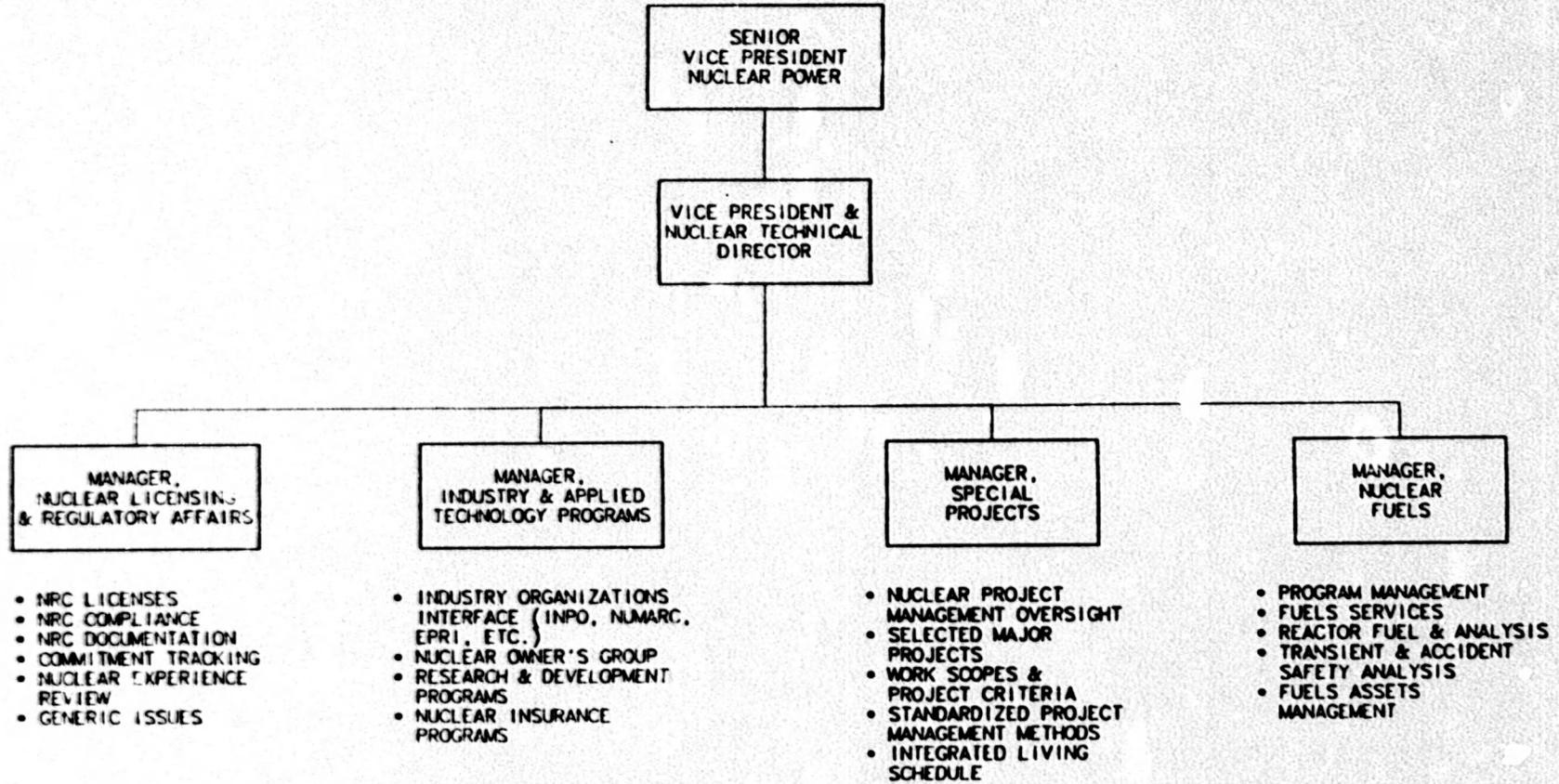


FIGURE 3-1

4.0 Vice President, Nuclear Business Operations (NBO)

The Vice President, NBO is responsible for providing general management and oversight of all business planning, budgeting, accounting, contracting, materials management, procurement, and financial and performance reporting activities of Nuclear Power (NP).

The Vice President, NBO has three principal reports and administers responsibilities through the following managers:

Manager, Nuclear Materials
Manager, Nuclear Finance and Planning
Manager, Contract Administration

See Figure 4-1 for NBO organization chart.

4.1 Nuclear Materials

The Manager, Nuclear Materials is responsible for the development of the overall materials policy for NP including procurement programs and materials support for all NP organizations. This manager also provides support to and oversight of site implementation of the material management and procurement programs

4.2 Nuclear Finance and Planning

The Manager, Nuclear Finance and Planning is responsible for the development and implementation including coordination with all NP organizations for budgeting, business planning, financial and performance reporting, and all accounting processes and systems. This manager also provides support and oversight to all NP organizations to assist in implementation of these programs.

4.3 Contract Administration

The Manager, Contract Administration is responsible for the development of contract policy including oversight and support to line organizations in the solicitation, negotiation, award and administration of personal services contracts and agreements for NP. This manager provides oversight for line management adherence to contract policy.

NUCLEAR POWER NUCLEAR BUSINESS OPERATIONS

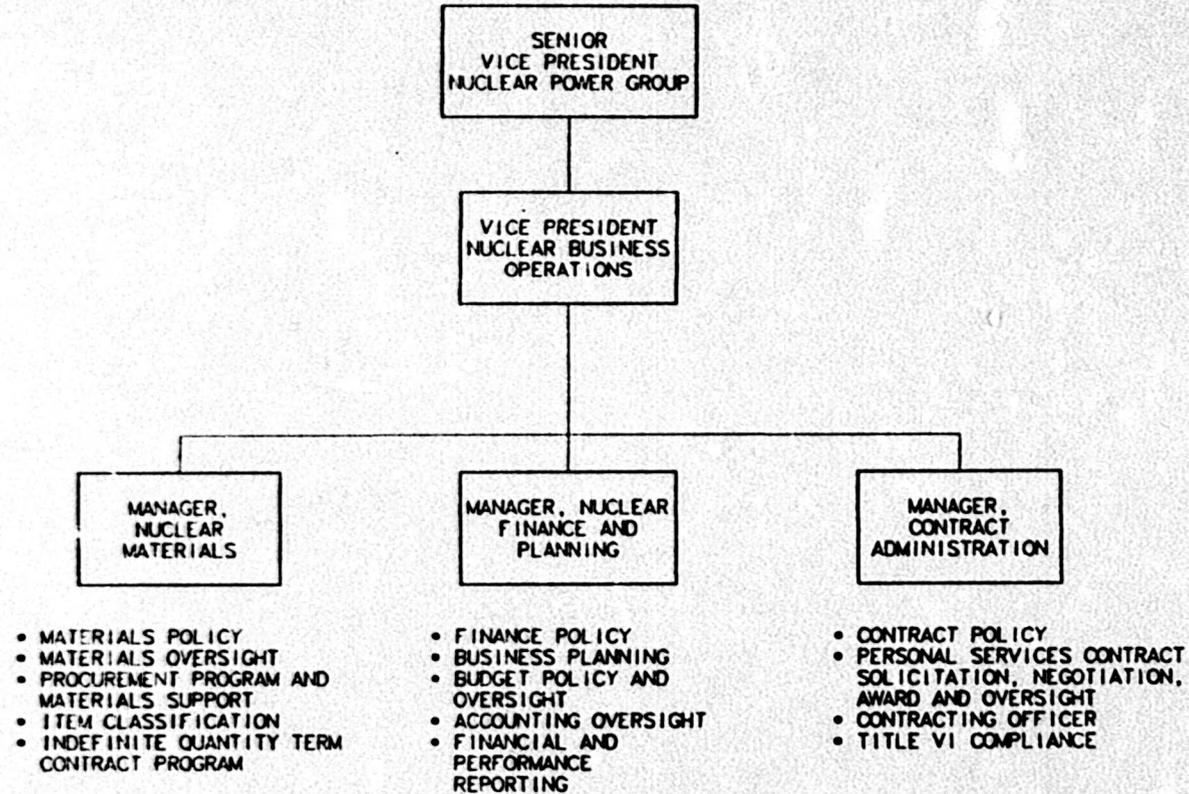


FIGURE 4-1

5.0 Vice President, Nuclear Engineering (NE)

The Vice President, NE is responsible for the engineering and design of TVA nuclear plants. The Vice President, NE is responsible for the following primary functions:

- A. Providing or obtaining engineering, design, engineering procurement, and operational engineering support services; and
- B. Maintaining the integrity and technical adequacy of engineering and design of Nuclear Power facilities throughout their operating life.

The Vice President, NE has six principal reports and administers responsibilities through the following managers:

Chief Engineer
Watts Bar Project Engineer
Sequoyah Project Engineer
Crowns Ferry Project Engineer
Task Project Engineer
Manager of Services

See Figure 5-1 for the NE organization chart.

5.1 Chief Engineer

The Chief Engineer is responsible for the overall management of the Civil, Electrical, and Mechanical/Nuclear discipline functions in support of NE activities. Each discipline function is managed by a discipline department manager. Through the department managers, the Chief Engineer achieves the two major objectives, technical adequacy and personnel administration.

Technical adequacy of engineering products provided by NE is assured through:

- A. Technical oversight review of engineering products provided by the site engineering projects. This is primarily accomplished through the staffing of lead discipline engineers in the site engineering projects. These lead engineers receive technical direction from the discipline department managers and functional day-to-day direction from the site project engineers.
- B. Development of engineering procedures/standards.
- C. Establishment of design controls.
- D. Technical "experts" in specialty areas.

The chief Engineer is responsible for:

- A. Assignment of technical personnel, including concurrence in key staffing decisions.
- B. Addressing technical support needs identified by the site project engineers.
- C. Maintaining records on the long term performance of NE personnel.

5.2 Watts Bar Project Engineer

The Watts Bar Project Engineer manages the site engineering project team to meet scope, scheduling and budgeting requirements as set by the site director. The Site Director provides overall management and direction on scope, schedule, and budget. Nuclear Engineering is responsible for engineering technical direction, establishment and maintenance of the plant design basis, and supplying manpower to perform assigned tasks.

5.3 Sequoyah Project Engineer

The Sequoyah Project Engineer manages the site engineering project team to meet scope, scheduling and budgeting requirements as set by the site director. The Site Director provides overall management and direction on scope, schedule, and budget. Nuclear Engineering is responsible for engineering technical direction, establishment and maintenance of the plant design basis, and supplying manpower to perform assigned tasks.

5.4 Browns Ferry Project Engineer

The Browns Ferry Project Engineer manages the site engineering project team to meet scope and scheduling requirements as set by the Site Director and the Engineering and Modifications Restart Manager as described in section 6.3. The Engineering and Modifications Restart Manager provides overall management and direction on scope, schedule and budget. NE is responsible for engineering technical direction, establish and maintenance of the plant design basis, and supplying manpower to perform assigned tasks.

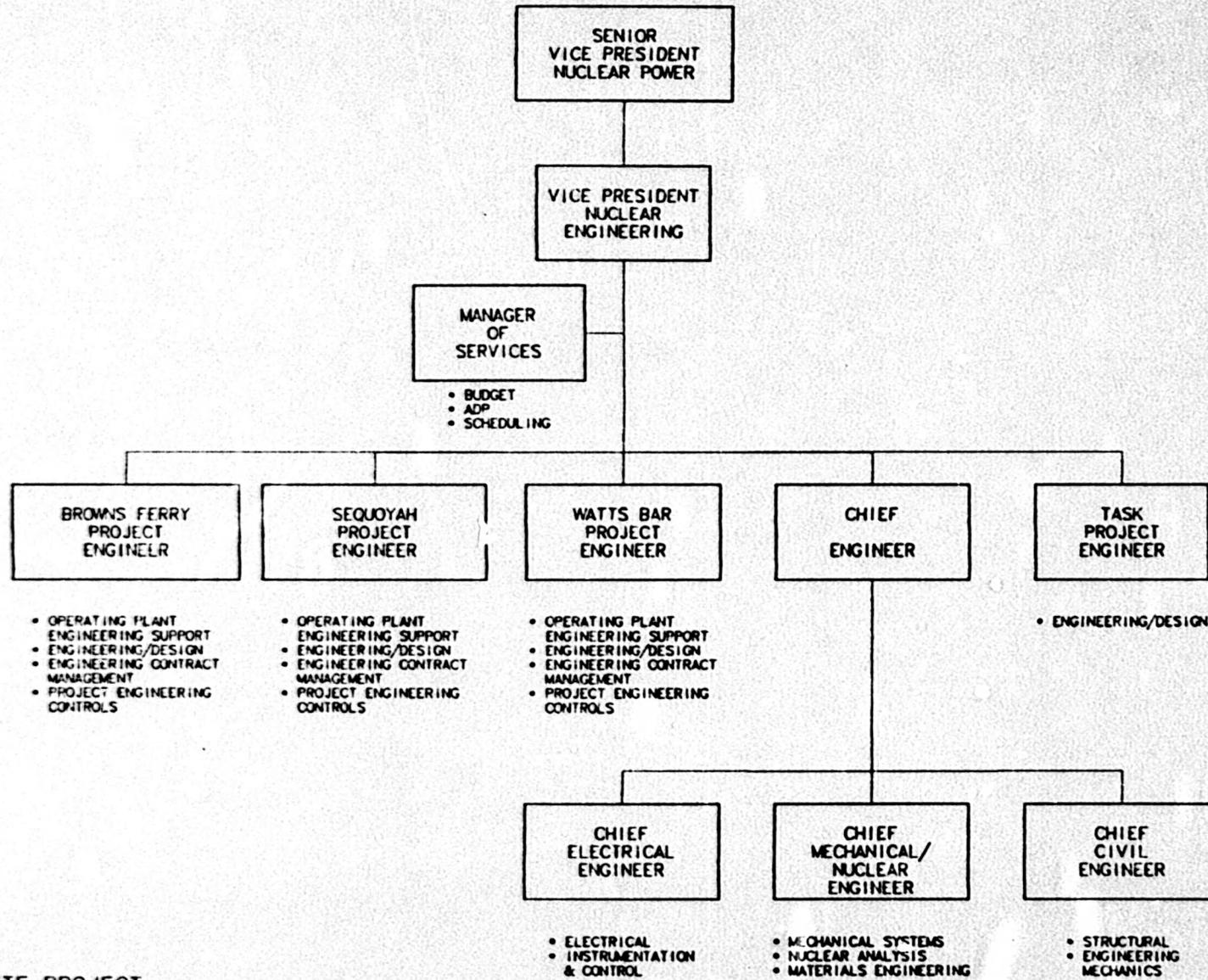
5.5 Task Project Engineer

The Task Project Engineer is responsible for managing assigned multi-discipline engineering activities to support NP site engineering projects within technical, cost, and scheduling requirements as set forth in the individual tasks assignments.

5.6 Manager of Services

The Manager of Services provides overall management of the financial, planning and scheduling, and computer applications functions in support of NE activities.

NUCLEAR POWER NUCLEAR ENGINEERING



NOTE: EACH NE SITE PROJECT ENGINEER REPORTS TO A DESIGNATED SITE MANAGER FOR SCOPE, SCHEDULE AND BUDGET

FIGURE 5-1

6.0 Vice President, Nuclear Power Production (NPP)

The Vice President, NPP is responsible for the safe, efficient and reliable operations at NP operating sites and reviews and concurs in plant staffing and organizational matters for new projects. This position ensures that managed activities are conducted in accordance with appropriate Federal regulations and TVA policies and procedures.

The Vice President, NPP has three principal reports and administers responsibilities through the following managers:

Manager, Maintenance and Operations Support
Site Director, Sequoyah Nuclear Plant
Site Director, Brown's Ferry Nuclear Plant

See Figure 6-1 for the NPP organization chart.

6.1 Maintenance and Operations Support

The Manager, Maintenance and Operations Support is responsible for providing staff support and consistent operating guidelines and standards for the NPP organization, including:

- A. Development of consistently applied nuclear standards, procedures and guidelines for operations, outages, maintenance and modifications;
- B. Specialized assistance to the plants in equipment and system maintenance, maintenance systems, techniques, and improvement programs, welding, and field engineering support;
- C. Long range operational planning including major work and outage planning and coordination;
- D. Oversight and coordination of operations, maintenance and modification, manpower, and training needs and schedules;
- E. NPP organizational trending, performance reporting and goal-setting;
- F. Industrial safety staff support;
- G. Industrial engineering assessments and reviews; and
- H. NPP financial and budgeting coordination.

NUCLEAR POWER NUCLEAR POWER PRODUCTION

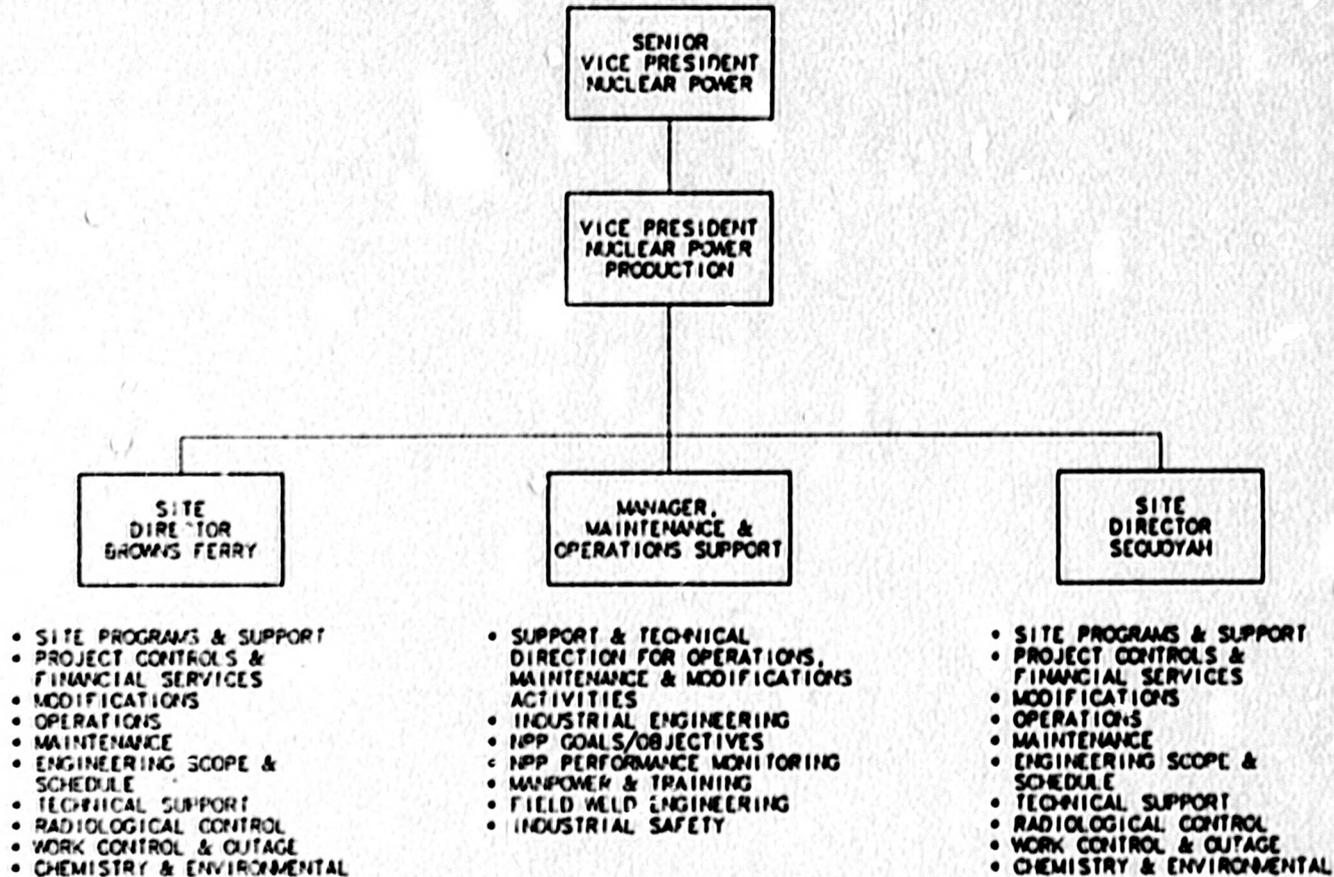


FIGURE 6-1

6.2 Site Director, Sequoyah Nuclear Plant (SQN)*

The Site Director, SQN is responsible and accountable for activities at the site, including operations, modifications, support, licensing, quality assurance and engineering services. The Site Director manages activities associated with the Sequoyah plant and determines the nature and extent of onsite and offsite support services required to support site operations in accordance with NP policy and procedures. The Site Director is responsible for the quality of work activities.

The Site Director has four principal reports and administers responsibilities through the following managers:

Site Programs and Support Manager
Project Controls and Financial Services Manager
Site Modifications Manager
Plant Manager

Four other managers report only functionally to the Site Director. They are the Site Licensing Manager, Site Quality Manager, Site Project Engineer, and Site Human Resource Manager.

See Figure 6-2 for the SQN organization chart.

6.2.1 Site Programs and Support

The Site Programs and Support Manager provides general management and oversight of a variety of staff and support functions, including:

- a. Administrative services, procedure coordination and document control;
- b. Materials management and procurement;
- c. Site industrial safety support;
- d. Onsite radiological emergency preparedness program;
- e. Coordination of site corrective action programs;
- f. Site facilities management; and
- g. Onsite management interface and coordination of site ADP, medical, security, and training activities.

6.2.2 Project Controls and Financial Services

The Project Controls and Financial Services Manager is responsible for developing and maintaining a comprehensive master integrated site schedule for outage and nonoutage work activities consisting

*Sequoyah Nuclear Plant is transitioning to the organization as shown in Figure 6-2 and it is planned to be fully in place by October 1, 1989.

of plant modifications, major plant maintenance, licensing projects, insurance projects, major site improvements, major capital or recovery projects, and other site activities requiring specialized attention and coordination. The Project Controls and Financial Services Manager coordinates and monitors the preparation of all budgets, capital or recovery project proposals, multiyear plans and special financial analyses; ensures compliance with TVA, NP and site financial management and accounting procedures and instructions; establishes systems for measuring, controlling, and reporting site financial performance; provides cost analysis and estimating support; and provides project management for major site activities.

6.2.3 Site Modifications

The Site Modifications Manager is responsible for the modification of existing facilities or systems and construction of new structures and/or facilities at the site. This position implements corporate policy and procedures to ensure a consistent modifications process at all the plants and to ensure that configuration control is maintained for the Sequoyah plant. This position serves as the primary interface at the site for hourly craft support.

6.2.4 Plant Manager

The primary responsibility and authority for ensuring safe, reliable, and efficient plant operations in conformance and compliance with all Federal, State, and local laws and regulations are vested in the Plant Manager. The Plant Manager is responsible for ensuring that hardware or software modifications or revisions made subsequent to the original licensed design or construction of the project are authorized and carried out in accordance with procedures and instructions. This position is responsible for ensuring that established acceptance criteria are satisfied before plant systems or components are returned to normal operation. The Plant Manager is responsible for ensuring that adequate and complete records and reports are developed and maintained and that plant personnel are appropriately trained and qualified for their jobs.

The Plant Manager has four principal reports and administers responsibilities through the following:

- Maintenance Manager
- Radiological Control Manager
- Operations Manager
- Technical Support Manager

See Figure 6-3 for the Plant Manager's organization chart.

a. Maintenance

The Maintenance Manager is responsible for planning, directing, and managing the plant main power block maintenance program to ensure that equipment and systems are maintained in accordance with operability and reliability engineering practices and requirements. This position manages the development, implementation, and maintenance of the site M&TE toolrooms including maintenance and test equipment.

b. Radiological Control

The Radiological Control Manager is responsible for radiological control activities at the plant. This includes developing, implementing, and managing the site radiological program with emphasis on meeting as low as reasonably achievable (ALARA) radiation exposure goals. This Manager develops and applies radiation standards and procedures; reviews and recommends radiation protection requirements and management controls; and assists in the plant training program by providing specialized training in radiation protection. This position manages the conduct of comprehensive onsite radiological monitoring before, during, and after plant startup and provides radiological control coverage for all operations including maintenance, fuel handling, decontamination, and radiological waste disposal. The Manager is responsible for personnel and plant radiation monitoring and maintains continuing records of personnel exposures, plant radiation, and contamination levels.

c. Operations Manager

The Operations Manager has overall responsibility for plant operation and overall execution of plant operational activities.

The Operations Manager has three principal reports:

Operations Superintendent
Work Control Superintendent
Chemistry Superintendent

Operations

The Operations Superintendent is responsible for all plant operations. The Superintendent manages refueling operations, startup, operational testing, water and waste processing and plant operations. The Superintendent is responsible for coordinating and scheduling the training program for all operations personnel as well as providing the nucleus for emergency response teams.

The minimum shift crew is shown in the Plant Technical Specifications. Additional operators are assigned as required by the Technical Specifications. Plant management, technical and engineering support personnel will be present at the site or on call at all times.

See Figure 6-4 for the Operations Superintendent organization chart.

Shift Crew Composition

The shift operations supervisor on duty is in direct charge of and has direct responsibility for the plant, including the startup, operation, and shutdown of the reactor and turbine generators. The assistant shift operations supervisor is under the immediate supervision of the shift operations supervisor. This position is responsible for the operation of one unit or for specific plant areas.

The unit operator is under the immediate supervision of the assistant shift operations supervisor responsible for that unit and the general supervision of the shift operations supervisor. This position performs those functions which require the attention of a licensed individual. This position is responsible for the safe and efficient operation of one unit from the control room or from local control stations.

The assistant unit operator is under the immediate supervision of the unit operator and the general supervision of the assistant shift operations supervisor. This position performs assigned routine inspections and manipulative operations. This position assists in the operation and performs work requirements within the defined area of the plant.

The shift technical advisor reports to the shift operations supervisor in the control room during normal and off-normal operating plant conditions. The shift technical advisor serves in an advisory capacity to the shift operations supervisor.

The relief of any shift position is made such that the minimum required shift crew complement is always maintained. Such reliefs are formal and appropriate responsibilities are transferred at the time of relief.

A duty radiochemical analyst is under the functional supervision of the shift operations supervisor. The analyst's duties consist of periodic sampling of reactor coolant, feedwater, main steam, condensate, and other plant process streams as required.

Duty health physics technicians are under the functional supervision of the shift operations supervisor. They perform routine radiation surveys, personnel monitoring activities, and other assigned duties. These personnel keep the shift operations supervisor informed of radiation hazards and perform special surveys as requested.

Work Control

The Work Control Superintendent has the overall responsibility for ensuring that ongoing work activities during operating conditions and outages are planned for execution in a timely and efficient manner and in accordance with approved schedules and scopes of work. The Superintendent develops overall work schedules, defines outage scope and content and reviews all work requests. The Superintendent plans all outages, establishes work priorities, and coordinates shift turnover.

Chemistry

The Chemistry Superintendent is responsible for implementation of effective site programs for plant chemistry, radiochemistry and environmental compliance.

e. Technical Support

The Technical Support Manager is responsible for technical direction and staff assistance in the area of systems engineering. Systems engineering includes nuclear, reactor, mechanical, chemical, electrical and instrumentation and controls. Responsibilities include plant and equipment performance monitoring and tests, reactor engineering, integrated system operation, and post modification and major maintenance testing.

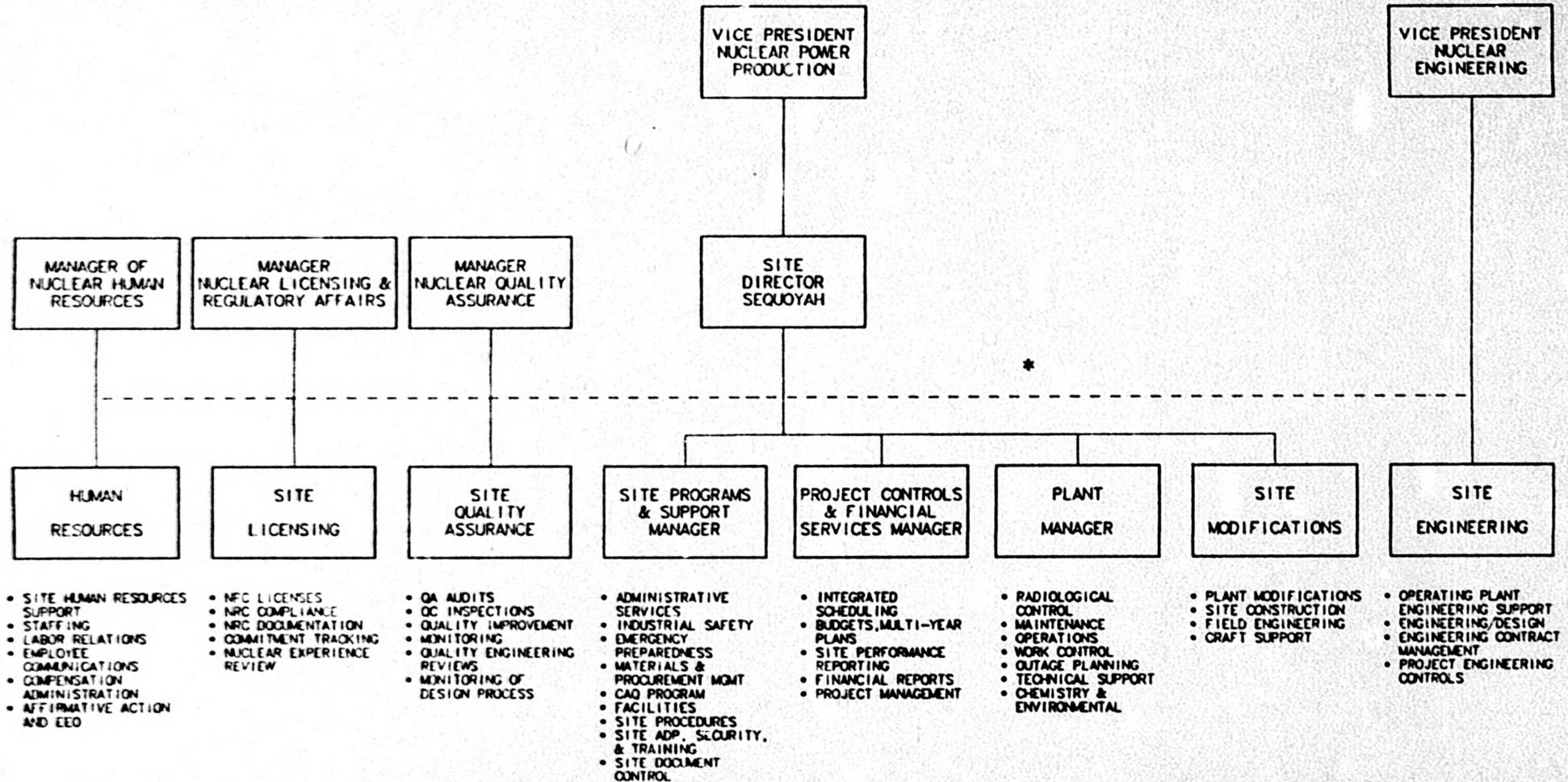
Technical Support carries out a comprehensive program of plant tests, studies, and investigations for the purpose of monitoring the reactor, engineered safeguards, NSSS equipment, and balance-of-plant equipment directed at ensuring compliance with operating licenses, technical specifications, and improving plant and system efficiency.

f. Transmission and Customer Service

TVA's Power Department Transmission and Customer Service organization is responsible for the maintenance and testing of the relaying associated with the transmission system, switchyard maintenance, generator protection, and the auxiliary power system. This organization is also responsible for the maintenance and testing of all in-plant radios, T1 spans (digital method of voice or data transmissions) and all external plant communications systems (with the exception of the Bell system and AT&T equipment).

This organization is under the administrative supervision of the Power Transmission and Customer Service-Chattanooga Area Manager and under the functional supervision of the plant Electrical Maintenance Manager.

NUCLEAR POWER NUCLEAR POWER PRODUCTION SQN



• INDICATES DAY-TO-DAY FUNCTIONAL SUPERVISION

FIGURE 6-2

NUCLEAR POWER
 NUCLEAR POWER PRODUCTION
 SQN
 PLANT MANAGER

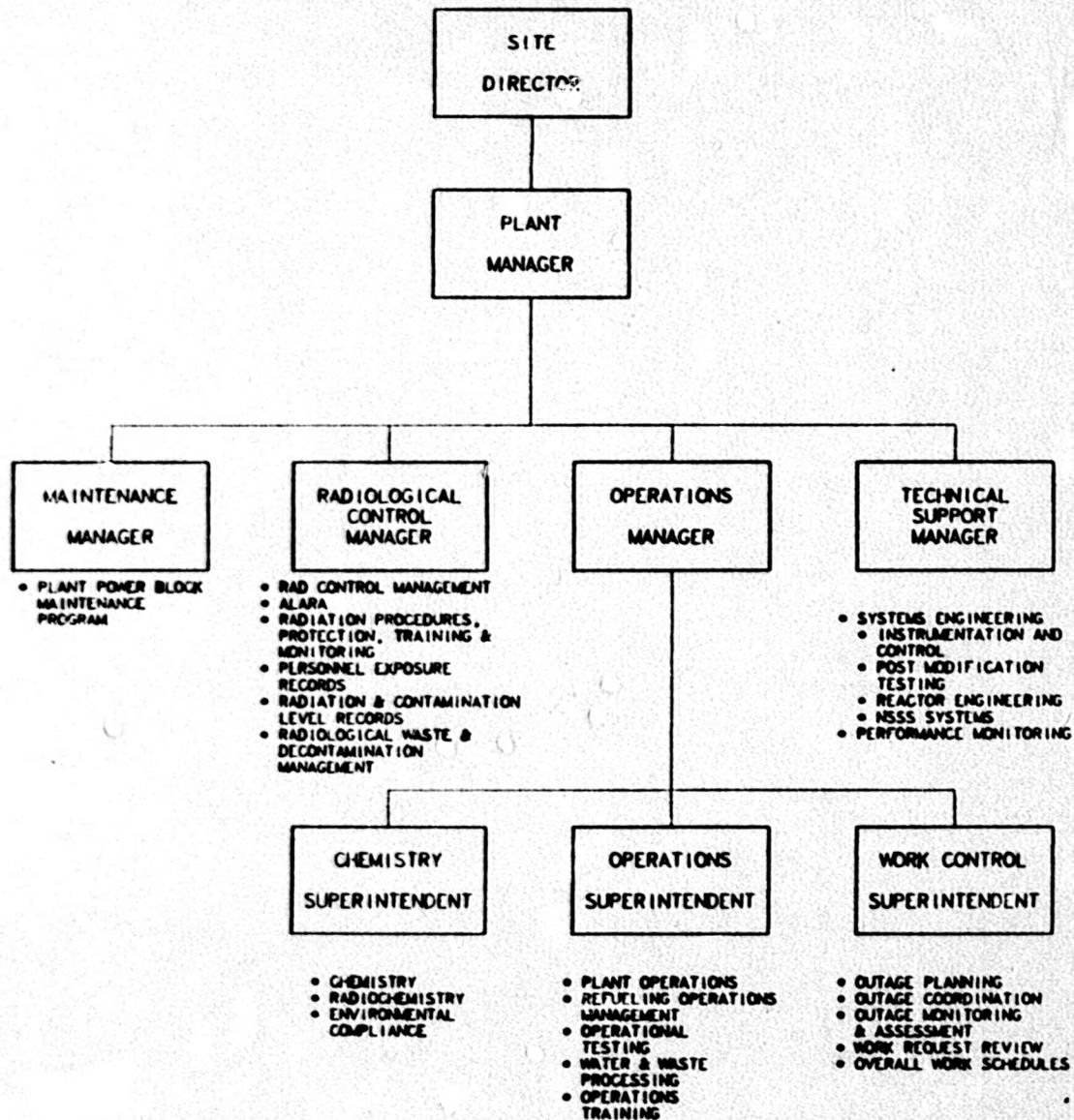


FIGURE 6-3

NUCLEAR POWER
 NUCLEAR POWER PRODUCTION
 SQN
 OPERATIONS SUPERINTENDENT

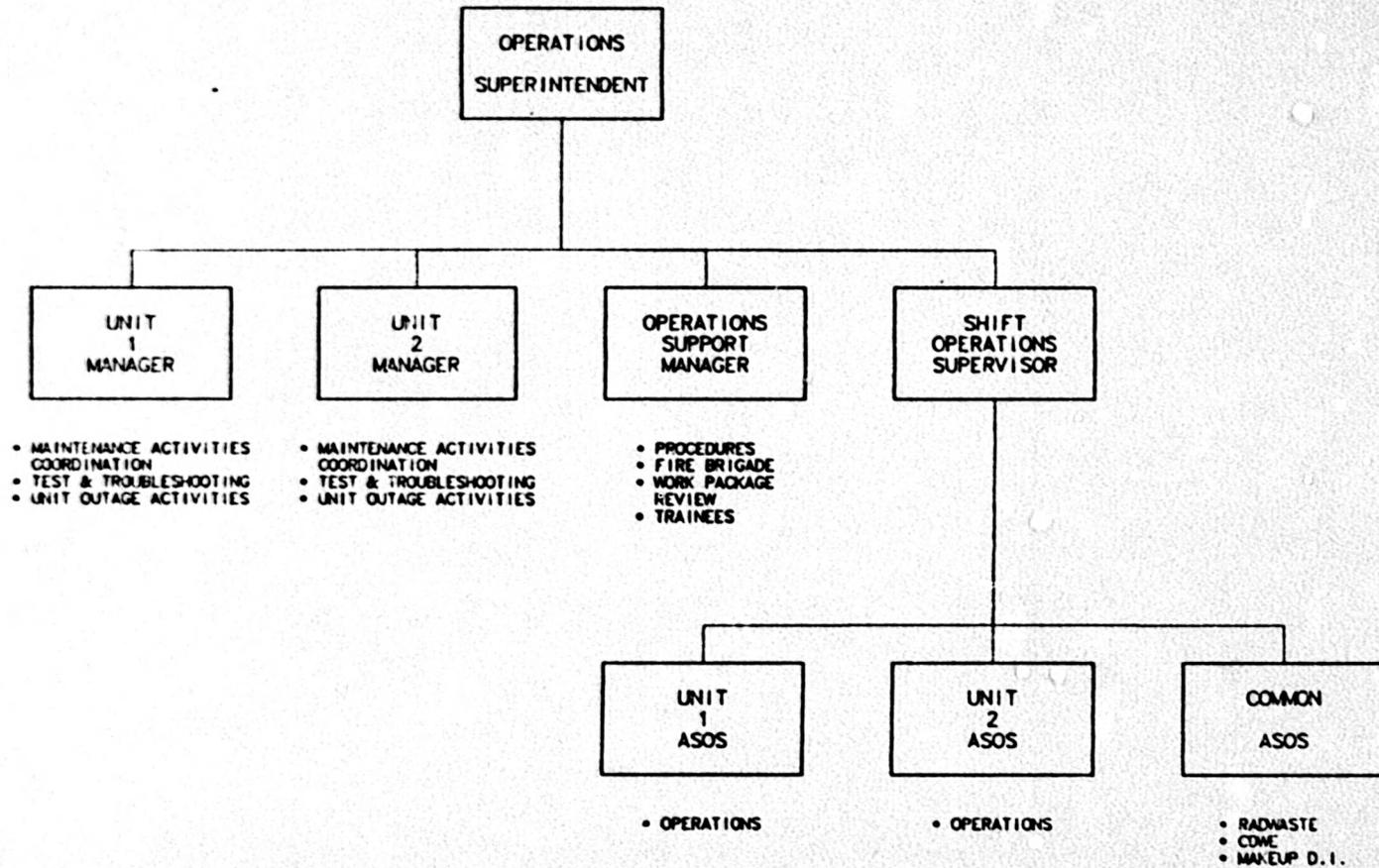


FIGURE 6-4

6.3 Site Director, Browns Ferry Nuclear Plant (BFN)*

The Site Director, BFN is responsible and accountable for activities at the site, including operations, modifications, support, licensing, quality assurance, and engineering services. The Site Director manages activities associated with the Browns Ferry plant and determines the nature and extent of onsite and orfsite support services required to support site operations in accordance with NP policy and procedures. The Site Director is responsible for the quality of work activities and manages the overall maintenance program for units in lay-up.

The Site Director has six principal reports and administers responsibilities through the following managers:

Site Support Manager
Materials and Procurement Manager
Site Programs Manager
Project Controls and Financial Services Manager
Engineering and Modifications Restart Manager
Plant Manager

Two other managers report functionally to the BFN Site Director. They are the Site Quality Manager and Site Licensing Manager.

See Figure 6-5 for the BFN organization chart.

6.3.1 Site Support

The Site Support Manager administratively and functionally manages site activities in the areas of administrative services, industrial safety services, onsite radiological emergency preparedness, and facilities. The Site Support Manager also provides onsite management oversight of the human resources, medical services, security, and employee concerns activities.

6.3.2 Materials and Procurement

The Materials and Procurement Manager manages the development and implementation of the site materials and procurement programs. The Materials and Procurement Manager manages the receipt, storage, inventory control, and issue of materials as well as the development, preparation, and review of procurement documents including scheduling, tracking, and expediting. This position manages the development, implementation, and maintenance of the site measuring and test equipment, toolrooms, and tagged equipment accountability programs.

*TVA NP will have consistent site and plant organizations for operating units. The BFN organization will be transitioned to the SQN model by startup to effect this consistency.

6.3.3 Site Programs

The Site Programs Manager provides general management and oversight for the Site Procedures, Configuration Management, and Corrective Action programs. The Site Programs Manager also provides management interface and coordination for the site document control, ADP, and training programs. Managers in each of these areas coordinate and interface with NA&S to ensure conformance to corporate goals and objectives.

6.3.4 Project Controls and Financial Services

The Project Controls and Financial Services Manager is responsible for developing and maintaining a comprehensive master integrated site schedule for outage and nonoutage work activities consisting of plant modification, major plant maintenance, licensing projects, insurance projects, major site improvements, major capital or recovery projects, and site activities requiring specialized attention and coordination. The Project Controls and Financial Services Manager coordinates and monitors the preparation of all budgets, capital or recovery project proposals, multiyear plans and special financial analyses; ensures compliance with TVA, NP and site financial management and accounting procedures and instructions; establishes systems for measuring, controlling, and reporting site financial performance; provides cost analysis and estimating support; and provides project management for major site activities.

6.3.5 Engineering and Modifications Restart Manager

The Engineering and Modifications Restart Manager provides overall management and direction using project management concepts to supervise the assigned engineering and modifications organizations for restart. This responsibility includes providing administrative and functional direction on scope, schedule, and budget to the modifications and engineering organizations to support restart to meet Nuclear Regulatory Commission requirements and to provide appropriate transition after restart. Nuclear Engineering is responsible for engineering technical direction, establishment and maintenance of the plant design basis, and supplying manpower to perform assigned tasks.

6.3.6 Plant Manager

The primary responsibility and authority for ensuring safe, reliable, and efficient plant operations in conformance and compliance with all Federal, State, and local laws and regulations are vested in the Plant Manager. The Plant Manager is responsible for ensuring that hardware and software modifications or revisions made subsequent to the original design or construction of the project are authorized and carried out in accordance with procedures and instructions. This position is responsible for ensuring that established acceptance criteria are satisfied before plant systems or components are returned to normal operation.

The Plant Manager is responsible for ensuring that the adequate and complete records and reports are developed and maintained and that plant personnel are appropriately trained and qualified for their jobs.

The Plant Manager has seven principal reports and administers responsibilities through the following superintendents:

Plant Support Superintendent
Maintenance Manager
Radiological Control Superintendent
Operations Superintendent
Work Control/Outage Superintendent
Technical Support Superintendent
Chemistry and Environmental Superintendent.

See Figure 6-6 for the Plant Manager's organization chart.

a. Plant Support

The Plant Support Superintendent is responsible for managing plant reporting, plant assessment, PORC oversight, fire protection, and document closure, ensuring the managed activities are conducted in accordance with all applicable TVA policies, programs, and procedures; plant Technical Specifications; and Federal, State, and local regulations.

b. Maintenance

The Maintenance Manager is responsible for planning, directing, and managing the plant main power block maintenance program to ensure that equipment and systems are maintained in accordance with operability and reliability engineering practices and requirements.

c. Radiological Control

The Radiological Control Superintendent is responsible for radiological control activities at the plant. This includes developing, implementing, and managing the site radiological program with emphasis on meeting as low as reasonably achievable (ALARA) radiation exposure goals. This Superintendent develops and applies radiation standards and procedures; reviews and recommends radiation protection requirements and management controls; and assists in the plant training program, providing specialized training in radiation protection. The Superintendent manages the conduct of comprehensive onsite radiological monitoring before, during, and after plant startup and provides radiological control coverage for all operations including maintenance, fuel handling, decontamination, and waste disposal. The

Superintendent is responsible for personnel and plant radiation monitoring and maintains continuing records of personnel exposures, plant radiation, and contamination levels.

d. Operations

The Operations Superintendent is responsible for all plant operations. The superintendent manages fuel loading, startup, operational testing, water and waste processing and plant operations. The superintendent is responsible for coordinating and scheduling the training program for all operations personnel as well as providing the nucleus for emergency response teams.

The minimum shift crew is shown in the Plant Technical Specifications. Additional operators are assigned as required by the Technical Specifications. Plant management and technical support will be present or on call at all times.

See Figure 6-7 for the Plant Operations organization chart.

Shift Crew Composition

The shift operations supervisor on duty is in direct charge of and has direct responsibility for the plant, including the startup, operation, and shutdown of the reactor and turbine generators. The assistant shift operations supervisor is under the immediate supervision of the shift operations supervisor. This position is responsible for the operation of one unit or for specific plant areas.

The unit operator is under the immediate supervision of the assistant shift operations supervisor responsible for that unit and the general supervision of the shift operations supervisor. This position performs those functions which require the attention of a licensed individual. This position is responsible for the safe and efficient operation of one unit from the control room or from local control stations.

The assistant unit operator is under the immediate supervision of the unit operator and the general supervision of the assistant shift operations supervisor. This position performs assigned routine inspections and manipulative operations. This position assists in the operation and performs work requirements within the defined area of the plant.

The shift technical advisor reports to the shift operations supervisor in the control room during normal and off-normal reactor plant conditions. The shift technical advisor serves in an advisory capacity to the shift operations supervisor.

The relief of any shift position is made such that the minimum required shift crew compliment is always maintained. Such reliefs are formal and appropriate responsibilities are transferred at the time of relief.

A duty radiochemical analyst is under the functional supervision of the shift operations supervisor. The analyst's duties consist of periodic sampling of reactor coolant, feedwater, main steam, condensate, and other plant process streams as required.

Duty health physics technicians are under the functional supervision of the shift operations supervisor. They perform routine radiation surveys, personnel monitoring activities, and other assigned duties. These personnel keep the shift operations supervisor informed of radiation hazards and perform special surveys as requested.

e. Work Control/Outage

The Work Control/Outage Superintendent has the overall responsibility for ensuring outages are planned for execution in a timely and efficient manner in accordance with approved schedules and scopes of work. The Superintendent develops overall work schedules, defines outage scope and content, and reviews all work requests. The Superintendent plans all outages, establishes work priorities, and coordinates shift turnover.

f. Technical Support

The Technical Support Superintendent is responsible for technical direction and staff assistance in the area of systems engineering. Systems engineering includes nuclear, reactor, mechanical, chemical, electrical and instrumentation and controls. Responsibilities include plant and equipment performance monitoring and tests, reactor engineering, integrated system operation and post modification and major maintenance testing.

Technical Support carries out a comprehensive program of plant tests, studies, and investigations for the purpose of monitoring the reactor, engineered safeguards, NSSS equipment, and balance-of-plant equipment directed at ensuring compliance with operating licenses, technical specifications, and improving plant and system efficiency.

g. Chemistry and Environmental

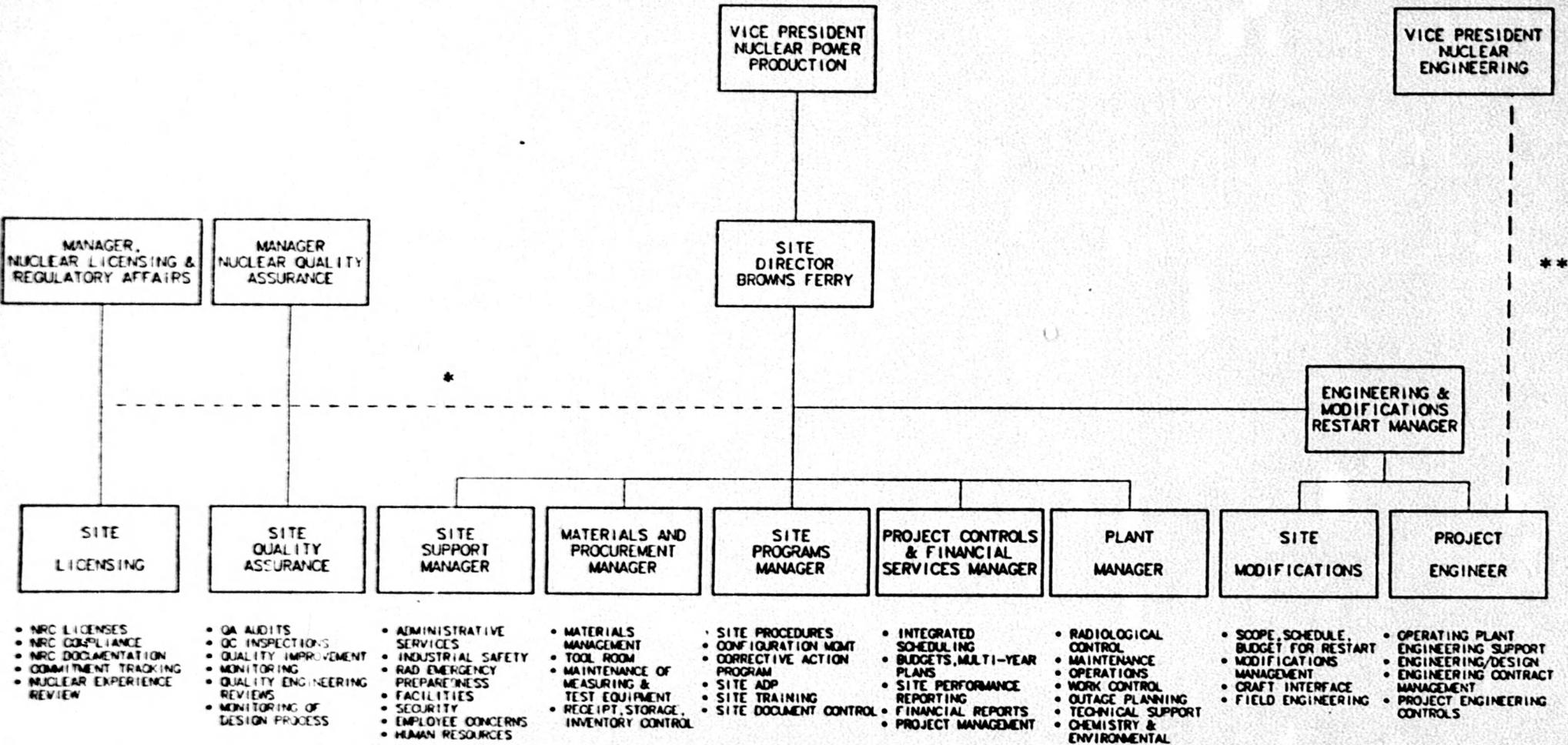
The Chemistry and Environmental Superintendent is responsible for implementation of effective site programs of plant chemistry, radiochemistry and environmental compliance.

h. Transmission and Customer Service

TVA's Power Department Transmission and Customer Service organization is responsible for the maintenance and testing of the relaying associated with the transmission system, switchyard maintenance, generator protection, and the auxiliary power system. This organization is also responsible for the maintenance and testing of all in-plant radios, T1 spans (digital method of voice or data transmissions) and all external plant communications systems (with the exception of the Bell system and AT&T equipment).

This organization is under the administrative supervision of the Power Transmission and Customer Service-Muscle Shoals Area Manager and under the functional supervision of the plant Electrical Maintenance Manager.

**NUCLEAR POWER
NUCLEAR POWER PRODUCTION
BFN**



- NRC LICENSES
- NRC COMPLIANCE
- NRC DOCUMENTATION
- COMMITMENT TRACKING
- NUCLEAR EXPERIENCE REVIEW

- QA AUDITS
- QC INSPECTIONS
- QUALITY IMPROVEMENT
- MONITORING
- QUALITY ENGINEERING REVIEWS
- MONITORING OF DESIGN PROCESS

- ADMINISTRATIVE SERVICES
- INDUSTRIAL SAFETY
- RAD EMERGENCY PREPAREDNESS
- FACILITIES
- SECURITY
- EMPLOYEE CONCERNS
- HUMAN RESOURCES

- MATERIALS MANAGEMENT
- TOOL ROOM
- MAINTENANCE OF MEASURING & TEST EQUIPMENT
- RECEIPT, STORAGE, INVENTORY CONTROL

- SITE PROCEDURES
- CONFIGURATION MGMT
- CORRECTIVE ACTION PROGRAM
- SITE ADP
- SITE TRAINING
- SITE DOCUMENT CONTROL

- INTEGRATED SCHEDULING
- BUDGETS, MULTI-YEAR PLANS
- SITE PERFORMANCE REPORTING
- FINANCIAL REPORTS
- PROJECT MANAGEMENT

- RADIOLOGICAL CONTROL
- MAINTENANCE
- OPERATIONS
- WORK CONTROL
- OUTAGE PLANNING
- TECHNICAL SUPPORT
- CHEMISTRY & ENVIRONMENTAL

- SCOPE, SCHEDULE, BUDGET FOR RESTART
- MODIFICATIONS MANAGEMENT
- CRAFT INTERFACE
- FIELD ENGINEERING

- OPERATING PLANT ENGINEERING SUPPORT
- ENGINEERING/DESIGN MANAGEMENT
- PROJECT ENGINEERING CONTROLS

- * INDICATES DAY-TO-DAY FUNCTIONAL SUPERVISION
- ** INDICATES TECHNICAL DIRECTION FOR MAINTAINING DESIGN BASIS AND SUPPLYING MANPOWER

FIGURE 6-5

NUCLEAR POWER
 NUCLEAR POWER PRODUCTION
 BFN
 PLANT MANAGER

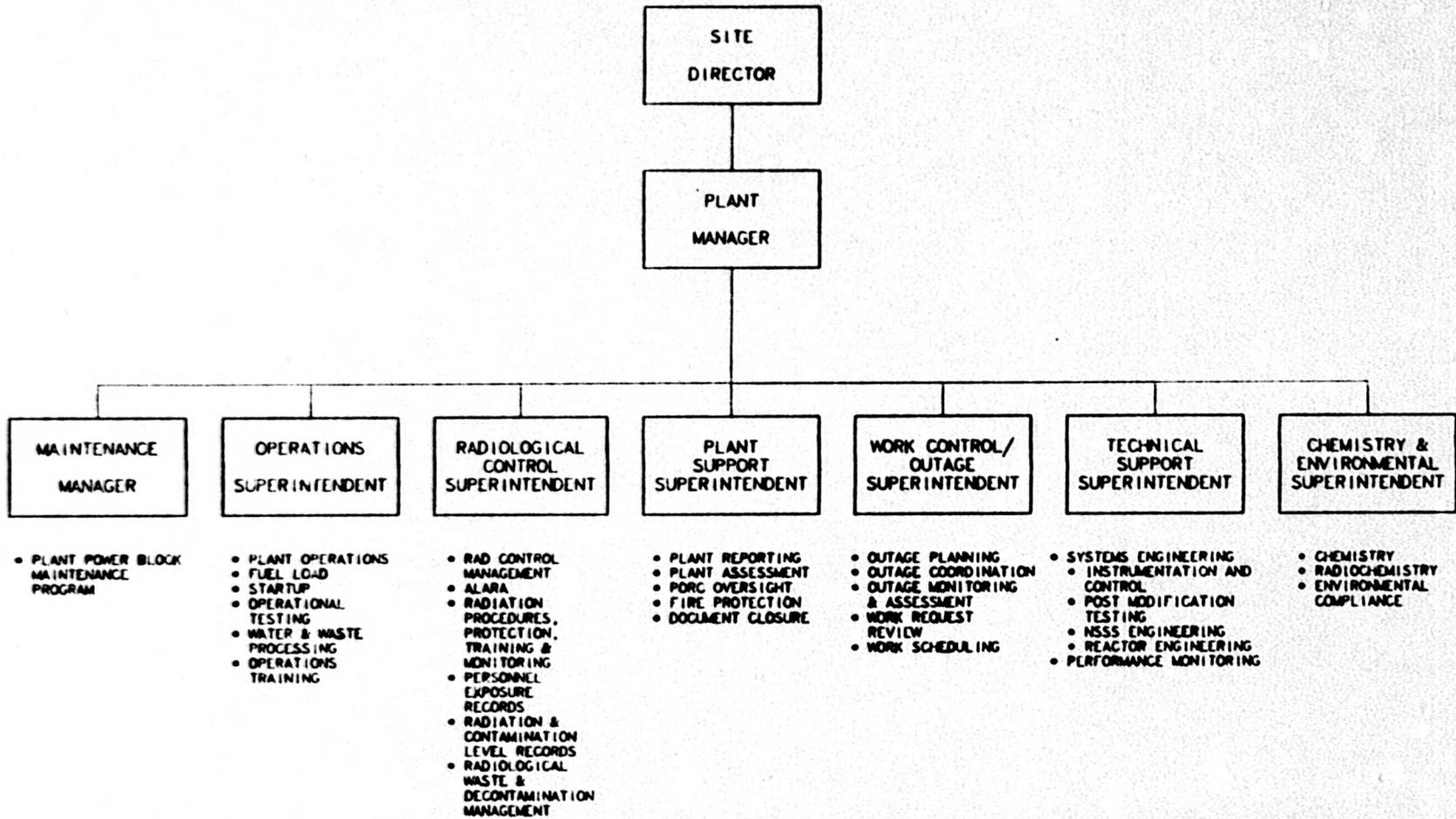


FIGURE 6-6

NUCLEAR POWER
NUCLEAR POWER PRODUCTION
BFN
OPERATIONS SUPERINTENDENT

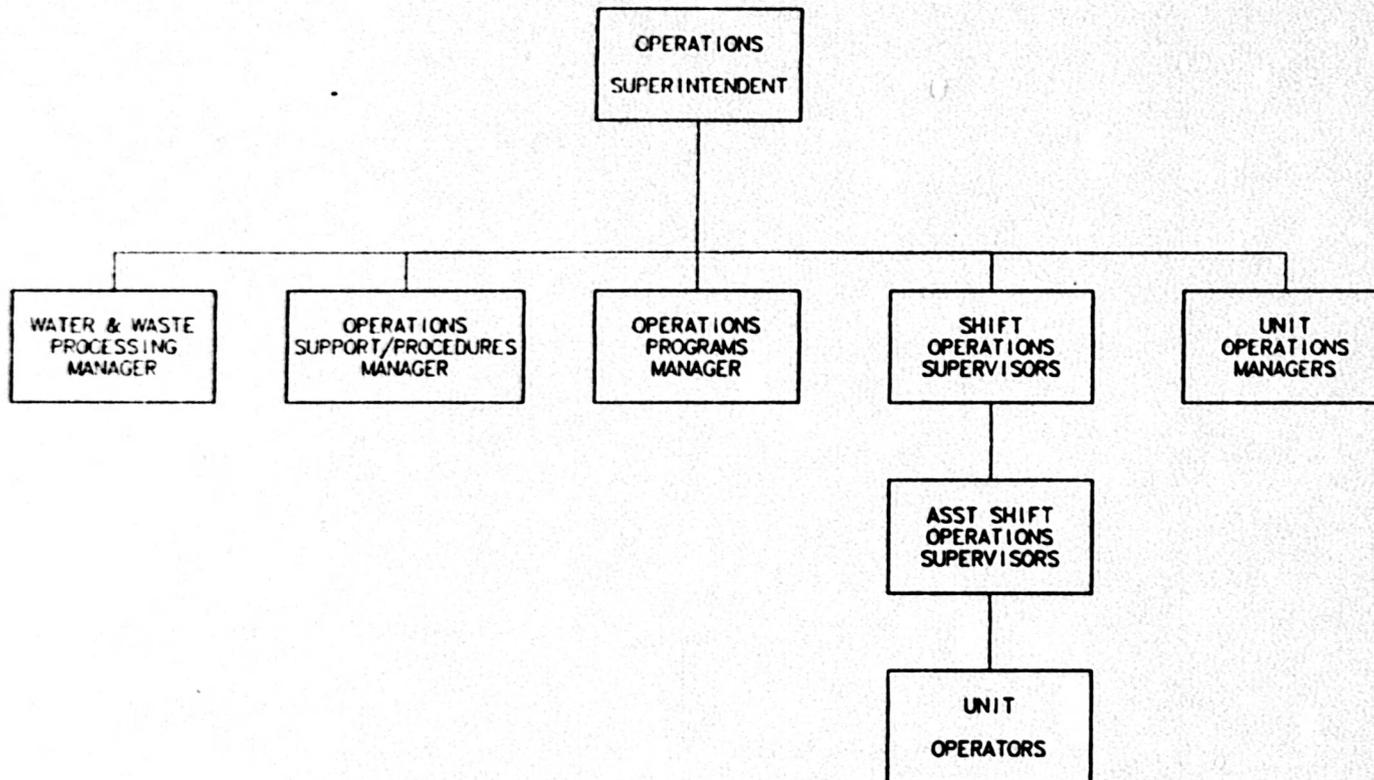


FIGURE 6-7

7.0 Vice President, New Projects

The Vice President, New Projects is responsible for the overall management and direction of the functional entities required to support completion activities for WBN unit 1 and to prepare the unit for operation by the Nuclear Power Production organization.

The Vice President, New Projects is also responsible for the overall project management and direction for completion of nuclear construction projects currently in a layup or deferred status. In fulfilling these duties, the Vice President has overall project management responsibility for construction, engineering and design, and startup testing required to support the completion and startup of WBN unit 2 and BLN units 1 and 2. This position is also responsible for supporting the technical activities required to license these projects.

The Vice President, New Projects administers responsibilities through the following managers:

Site Director, WBN
Site Manager, BLN

See Figure 7-1 for the New Projects organization chart.

NUCLEAR POWER NEW PROJECTS

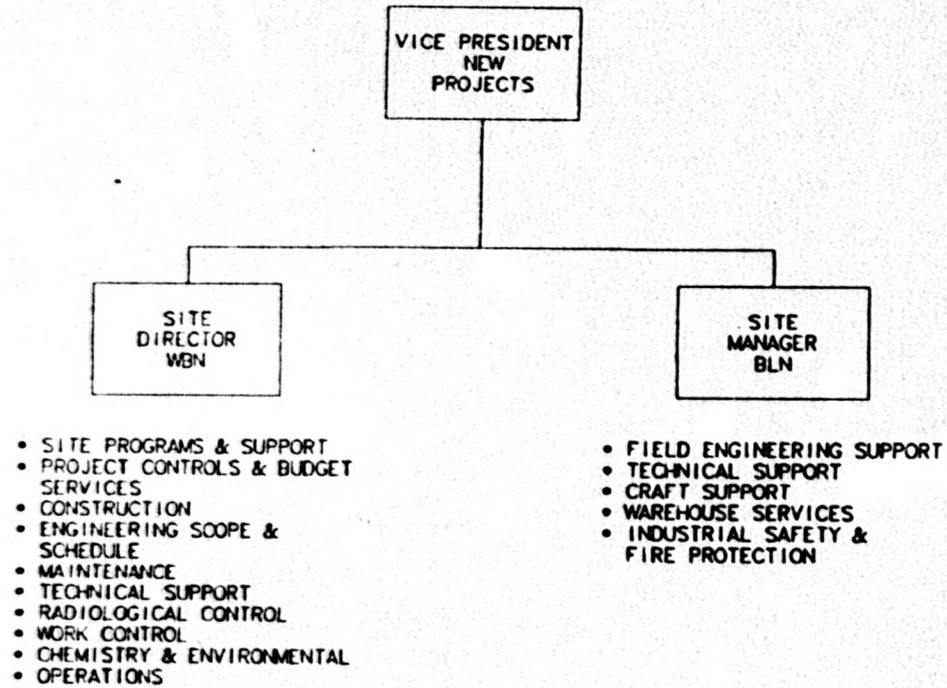


FIGURE 7-1

7.1 Site Director, Watts Bar Nuclear Plant (WBN)*

The Site Director, WBN is a direct report to the Vice President, New Projects. The Site Director is responsible for WBN site activities. Since the WBN site is in construction status, the detailed breakdown of the Operations organization as given in Figure 6-4 for SQN is omitted from the Chart (Figure 7-2). Prior to startup, the plant organization will be in place in accordance with a standard model for all operating plants and Section 7.1 will be updated accordingly.

The Site Director, WBN has five principal reports and administers responsibilities through them.

While all five principal managers have some responsibility for both units, the construction manager has primary responsibility for unit 2 which is in a layup status. The plant manager has responsibility for all systems in unit 1. The five principal reports are as follows:

Manager of Projects
Project Control and Budget Services Manager
Site Programs and Support Manager
Plant Manager
Construction Manager

Five other managers report functionally to the Site Director. They are the Site Licensing Manager, Site Quality Manager, Site Training Manager, Site Project Engineer, and Site Human Relations Manager.

See Figure 7-2 for the WBN organization chart.

7.1.1 Projects

The Manager of Projects is responsible for directing project activities to ensure compliance with technical and administrative requirements. This position is responsible for ensuring that a clear, detailed statement of the issues to be resolved is created and regulatory requirements for each project are identified and satisfied. Projects that are assigned to this manager will include activities related to plant modifications and completion, and special programs such as procedures upgrade and corrective action closure.

*TVA NP will have consistent site and plant organizations for operating units. The WBN organizations will be transitioned to the SQN model by startup to effect this consistency.

7.1.2 Project Control and Budget Services

The Project Control and Budget Services Manager is responsible for the overall budget, estimating, planning, scheduling, and the change control processes for all areas of activity at the site.

7.1.3 Site Programs and Support

The Site Programs and Support Manager provides general management and oversight of a variety of staff and support functions, including:

- a. Administrative services, procedure coordination and document control;
- b. Materials management and procurement;
- c. Site industrial safety support;
- d. Onsite radiological emergency preparedness program;
- e. Site facilities management; and
- f. Onsite management interfaces and coordination of site ADP, medical, security, and training activities.

7.1.4 Plant Manager

The primary responsibility and authority for ensuring safe, reliable, and efficient plant operations in conformance and compliance with all Federal, State, local laws and regulations are vested in the Plant Manager. The Plant Manager is responsible for ensuring that hardware and software modifications or revisions made subsequent to the original design or construction of the plant are authorized and carried out in accordance with procedures and instructions. This position is responsible for ensuring that established acceptance criteria are satisfied before plant systems or components are accepted for operation. The Plant Manager is responsible for ensuring that adequate and complete records and reports are developed and maintained, staffing the plant, ensuring training of plant personnel, and establishing systems, procedures, and methods required to startup and operate the plant.

a. Maintenance

The Maintenance Superintendent is responsible for the planning and management of the site maintenance program for

the main power block to ensure safe, reliable, and efficient maintenance of plant equipment, and the long-term layup and preservation of unit 2 equipment.

b. Technical Support

The Technical Support Superintendent is responsible for technical direction and staff assistance in the area of systems engineering. Systems engineering includes nuclear, mechanical, chemical, electrical and instrument and controls. Responsibilities include plant and equipment performance monitoring and tests, reactor engineering, integrated system operation and post-modification and major maintenance testing.

Technical Support carries out a comprehensive program of plant tests, studies, and investigations for the purpose of monitoring the reactor, engineered safeguards, NSSS equipment, and balance-of-plant equipment. This ensures compliance with the operating licenses and technical specifications and improves the efficiency of the plant.

c. Operations

The Operations Superintendent is responsible for all plant operations. The Superintendent manages fuel loading, operational testing, water and waste processing and plant operations. The Superintendent is responsible for coordinating and scheduling the training program for all operations personnel as well as providing the nucleus for emergency response teams.

The minimum shift crew is to be shown in the Plant Technical Specifications. Additional operators are to be assigned as required by the Technical Specifications. Plant management and technical support will be present or on call at all times.

d. Radiological Control

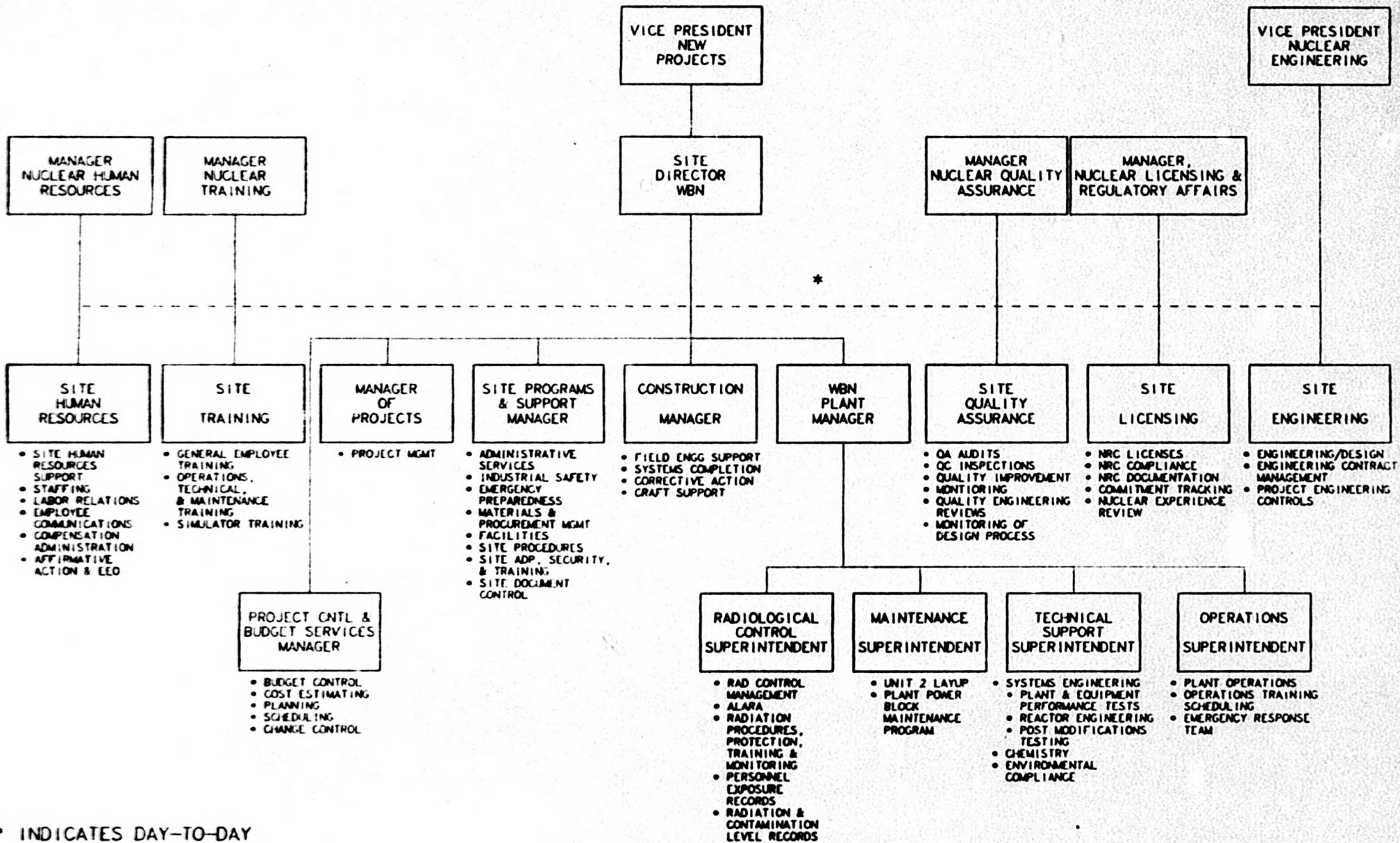
The Radiological Control Superintendent is responsible for radiological control activities at the plant. This includes developing, implementing, and managing the site radiological program with emphasis on achieving as low as reasonably achievable (ALARA) goals. This Superintendent develops and applies radiation standards and procedures; reviews and recommends radiation protection requirements and management controls; and assists in the plant training program, providing specialized training in radiation protection. The Superintendent manages the conduct of comprehensive onsite radiological monitoring before, during, and after plant startup and provides radiological control coverage for all

operations including maintenance, fuel handling, decontamination, and radiological waste disposal. The Superintendent is responsible for personnel and plant radiation monitoring and maintains continuing records of personnel exposures, plant radiation, and contamination levels.

7.1.5 Construction

The Construction Manager is responsible for management of unit 1 modification activities including associated field engineering, and the interface for hourly craft support relating to the modification of existing facilities and construction of new structures and/or facilities at the site. This position also has overall responsibility for completing unit 2 construction when construction is restarted. Long-term layup and maintenance is under the direction of the Maintenance Superintendent until construction of unit 2 resumes.

NUCLEAR POWER NEW PROJECTS WATTS BAR



* INDICATES DAY-TO-DAY FUNCTIONAL SUPERVISION

FIGURE 7-2

7.2 Site Manager, Bellefonte (BLN)

The Site Manager, BLN reports directly to the Vice President, New Projects. The Site Manager is responsible for managing all site activities during the layup and maintenance period to ensure safe, reliable, efficient plant activities, and processes to maintain compliance with applicable regulatory requirements and good engineering practices for units in a deferral status.

The Site Manager, BLN has six principal reports and administers responsibilities through the following managers:

Field Support Manager
Technical Support Manager
Craft Support Managers (A&B)
Warehouse Manager
Industrial Safety and Fire Protection Manager

See Figure 7-3 for the BLN Site organization chart.

7.2.1 Field Support

The Field Support Manager is responsible for providing field engineering services to ensure the engineering, construction, and records integrity of the plant is maintained while in a layup and maintenance mode.

7.2.2 Technical Support

The Technical Support Manager is responsible for providing instrument and controls maintenance, operations, chemical laboratory, and technical services support for all plant equipment.

7.2.3 Craft Support

The Craft Support Managers are responsible for maintaining the plant while in a layup and maintenance mode.

7.2.4 Warehouse

The Warehouse Manager is responsible for providing warehouse services including receipt, issuance, return, and storage of materials.

7.2.5 Industrial Safety and Fire Protection

The Industrial Safety and Fire Protection Manager is responsible for providing comprehensive health, safety, and fire protection/prevention programs at the site.

NUCLEAR POWER
NEW PROJECTS
BELLEFONTE

