



Tennessee Valley Authority, 1101 Market Street, Chattanooga, Tennessee 37402-2801

August 25, 2003

10 CFR 50.71(e)

U.S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, D.C. 20555-0001

Gentlemen:

In the Matter of the	)	Docket Nos.	50-259	50-390
Tennessee Valley Authority	)		50-260	50-391
			50-296	50-438
			50-327	50-439
			50-328	

TVA NUCLEAR (TVAN) ORGANIZATION TOPICAL REPORT - BELLEFONTE, BROWNS FERRY, SEQUOYAH, AND WATTS BAR NUCLEAR PLANTS

Enclosed is the revised topical report which incorporates organizational changes that have been announced through July 31, 2003.

Revision 12 to the TVAN organization topical report describes the organizations responsible for the management and operation of TVA's nuclear projects. The primary revisions include: (1) the continued standardization of organizations at the operating sites, and (2) the further consolidation of TVAN functions to align TVAN's Corporate functions and organization. This ensures enhanced service and support to the nuclear sites and efficient and effective delivery of that support. TVA is currently evaluating additional standardization at its operating sites in an effort to further improve the organization's effectiveness and efficiency.

Since this topical report encompasses multiple plants, subsequent updates will be filed on a yearly basis to ensure that TVA meets the refuel cycle criterion of 10 CFR 50.71(e) for each unit at each site. If you have any questions concerning this information, please telephone Terry Knuettel at (423) 751-6673.

Sincerely,

*Mark J. Burzynski*  
Mark J. Burzynski  
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Enclosure  
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U.S. Nuclear Regulatory Commission

Page 2

August 25, 2003

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ORGANIZATION DESCRIPTION

LIST OF REVISIONS

REVISION 0	June 1, 1989
REVISION 1	August 13, 1990
REVISION 2	April 18, 1991
REVISION 3	April 17, 1992
REVISION 4	December 27, 1993
REVISION 5	December 16, 1994
REVISION 6	June 29, 1995
REVISION 7	June 27, 1997
REVISION 8	August 25, 1999
REVISION 9	August 25, 2000
REVISION 10	August 24, 2001
REVISION 11	August 26, 2002
REVISION 12	August 22, 2003

Topical Report  
TVA-NPOD89-A  
Rev. 12

**TVA NUCLEAR**  
**ORGANIZATION DESCRIPTION**

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ABSTRACT

The TVA Nuclear (TVAN) Organization Description (TVA-NPOD89-A) includes 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 Regulatory Guide 1.70, Standard Format and Content of Safety Analysis Reports for Nuclear Power Plants - LWR Edition, Rev. 3 (November 1978).

Qualifications requirements and training descriptions specified in the standard format document will continue to be addressed in each plant's Final Safety Analysis report. The detailed TVA quality assurance organization and program description is contained in the TVAN Quality Assurance Plan (TVA-NQA-PLN89-A) and is not repeated herein.

## INTRODUCTION

The original purpose of the TVA Nuclear Organization Description TVA-NPOD89-A was to establish a controlled, single source document and a disciplined process for communicating organization structure and position descriptions to the Nuclear Regulatory Commission. TVA-NPOD89-A will be referenced in future revisions of our license applications including the Safety Analysis Reports, Technical Specifications, the Nuclear Quality Assurance Plan, and other documents that may refer to the TVAN organization. This topical report will be revised as necessary to reflect major organizational changes. Since this topical report encompasses multiple plants, subsequent updates to the topical report will be filed on a yearly basis to ensure that TVA meets the refuel cycle criterion of 10 CFR 50.71(e) for each unit at each site.

TENNESSEE VALLEY AUTHORITY (TVA)

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 Committee, which shapes long-term business strategies, recommends major program initiatives, and guides the day-to-day operations. The Corporate organization is shown in Figure 1-1.

1.1 TVA Nuclear (TVAN)

The TVAN organization is responsible for nuclear plant engineering and design, construction, operation, quality assurance, and compliance with regulatory requirements. TVAN plans and manages the nuclear program to meet the requirements of TVA's power program consistent with safety, environmental, quality, and economic objectives. The general organization of TVAN is shown in Figure 1-2.

1.2 Chief Nuclear Officer and Executive Vice President, TVA Nuclear (CNO & EVP)

The CNO & EVP 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 CNO & EVP reports directly to the President and Chief Operating Officer (COO). The President and COO reports directly to the TVA Board of Directors.

The CNO & EVP is responsible for the overall safety, efficiency, and economy of nuclear operations. The CNO & EVP establishes management and operating policies and procedures related to TVA's nuclear 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 CNO & EVP coordinates the activities and functions of TVAN with other TVA organizations in order to carry out TVA's corporate policy and to meet corporate goals and objectives. This position is responsible for all aspects of TVA's interface and relations with the Nuclear Regulatory Commission (NRC) and other entities with jurisdiction over or interest in TVA's nuclear program.

The CNO & EVP 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 TVAN programs, activities, and facilities.

The CNO & EVP is assisted in carrying out these responsibilities by the Senior Vice President, Nuclear Operations; Vice President, BFN Unit One, Vice President, Engineering and Technical Services; Vice President, Nuclear Support; and the General Manager, Nuclear Assurance. The Vice Presidents' and these senior manager's functions are described in the following sections.

Concerns Resolution has direct access to the CNO & EVP on employee concerns. This provides the Concerns Resolution Program sufficient independence and freedom to ensure that concerns are properly addressed.

Additionally, the Vice President, Operations Support, provides support to the CNO & EVP in the areas of Human Resources (HR) Operation, Safety, Technical Training, Work Force Planning, Work Force Information Management, and Program Support. The Vice President, Operations Support, reports to the President and Chief Operating Officer. Functions are discussed below in paragraph 1.6.

### 1.3 General Manager, Nuclear Assurance (NA)

The General Manager, NA, reports directly to the CNO & EVP. 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 ensure conformance to quality assurance program requirements.

The General Manager, NA, serves as the Chairman of the Nuclear Safety Review Board (NSRB) and is responsible for developing and implementing procedures consistent with TVAN policy and NRC requirements to conduct independent nuclear safety assessments and reviews of TVA's nuclear plants. Individual safety review boards are in place for the Browns Ferry (BFN), Sequoyah (SQN), and Watts Bar (WBN) Nuclear Plants. These boards are composed of senior TVA managers and advisors to the Chairman who are not employed by TVA. The Chairman directs independent safety reviews of TVA's nuclear plants and manages the activities of the NSRB to ensure that responsibilities and functions are in accordance with appropriate Technical Specification requirements and recommends plant safety improvements to the CNO & EVP. The Chairman or designee chairs each meeting of the NSRB, approves and transmits minutes of NSRB meetings, and issues reports consistent with the NSRB charter.

Descriptions of the General Manager, NA, organization and responsibilities are described in detail in TVA's Nuclear Quality Assurance Plan TVA-NQA-PLN89-A.

### 1.4 General Managers, Materials Management Services and Contracts

The General Manager, Materials Management Services and the General Manager, Contracts, report directly to the Senior Vice President, Procurement, and report functionally to the Site Vice Presidents. These managers provide procurement, contracts, and material management direction and support.

### 1.5 Vice President, BFN Unit One (U1) Restart

The Vice President, BFN U1 Restart reports directly to the CNO & EVP. This manager provides general management and oversight of all activities for the BFN U1 restart including engineering, modifications, operations, maintenance, site support, operations and maintenance recovery support, and training, to ensure safe and efficient recovery of the BFN U1. The Vice President Unit 1 Restart also ensures thorough and complete coordination and integration with the BFN operating units in compliance with TVAN policies and procedures, plant technical specifications, and federal, state, and local regulations. The Vice President has five principal reports and administers responsibilities through them. These reports are:

BFN Unit 1 Plant Restart Manager  
Engineering Restart Manager  
Maintenance and Modifications Restart Manager  
Cost and Project Management Restart Manager  
Project Support Restart Manager

See Figure 1-3 for the BFN Unit 1 Restart organization chart.

#### 1.5.1 BFN Unit 1 Plant Restart Manager

The BFN Unit 1 Plant Restart Manager is responsible for managing the BFN Unit 1 restart activities including system turnover, operational readiness, and radiation controls. The Unit 1 Plant Restart Manager ensures efficient integration and coordination with the BFN operating units in compliance with TVAN policies and procedures, plant technical specifications, and federal, state and local regulations. Manages restart activities to avoid adverse impacts on the operating units.

#### 1.5.2 Engineering Restart Manager

The Engineering Restart Manager is designated as the Design Authority for Unit 1 restart activities. The Engineering Restart Manager is responsible for management of the BFN U1 Restart project to provide engineering for the establishment of the design basis, analytical methods, engineering design, systems engineering, restart test, technical support, components test and inspection functions on the project. Specifically, this manager is responsible for managing activities necessary for design basis reconciliation, design criteria development, analytical basis/restart programs developed and worked to closure, within budget, on schedule, in accordance with federal and state regulations and TVA policies and procedures, and in a manner to maintain technical integrity and fidelity with BFN Units 2 and 3.

1.5.3 Maintenance and Modifications Restart Manager

The Maintenance & Modifications Restart Manager is responsible for managing the BFN U1 Maintenance and Modifications organization to provide modifications, facilities, predictive, corrective, and preventive maintenance technical support to ensure safe and efficient restart of BFN U1 in accordance with TVAN policies and procedures, plant technical specifications, and federal, state, and local regulations.

1.5.4 Cost and Project Management Restart Manager

The Cost and Project Management Restart Manager is responsible for managing the development of schedules, performance analysis, budget, project management, plant interfaces, and accounting services at the site to support the BFN U1 Restart activities, ensuring that managed activities are conducted in accordance with all applicable TVA policies, programs, and procedures, and federal, state, and local regulations.

1.5.5 Project Support Restart Manager

The Project Support Manager Restart is responsible for establishing and managing all project support and technical services for the BFN U1 Restart. This includes drawing improvement and Cad drafting, engineering records, administration support/Corrective Action Program/Self Assessment Program/EIP, integration task management, methods/processes/procedures development and maintenance, Information Services, and acquisition and inventory/contracts management. Ensures that all managed activities are conducted in accordance with regulatory requirements and TVA policies and procedures.

1.6 Vice President, Operations Support (OS)

The Vice President, OS, reports to the President & Chief Operating Officer and is responsible for the general management of Human Resources Operations, Safety, Technical Training, Work Force Planning, Work Force Information Management, and Program Support for these activities. The Vice President, OS, has five principal reports and administers responsibilities through them. These principal reports are as follows:

HR Operations Senior Manager  
COO Safety Senior Manager  
Technical Training Manager  
Work Force Planning Manager  
Work Force Information Management Manager

See Figure 1-4 for the OS organization chart.

1.6.1 Human Resource (HR) Operations Senior Manager

The HR Operations Senior Manager leads a strategic and consolidated HR Program delivery service for the COO organization. This manager is responsible for developing, coordinating, directing, and managing a viable HR Program for the COO organization, which includes TVAN. This manager

implements these services for TVAN through two regional HR Service Managers who maintain a staff providing HR services including compensation, staffing, employee relations, benefits, manpower planning, and Equal Employment Opportunity/Affirmative Actions Programs. The HR Service Managers for Nuclear Generation and COO Corporate provide support for the nuclear sites and nuclear corporate organizations.

In conjunction with the Work Force Planning Manager, the HR Service Manager is responsible for managing the work force planning function to ensure proper staffing and skill requirements to meet business needs. This manager is also responsible for: (1) ensuring an active succession planning process is in place, (2) continually monitoring and making strategic recommendations for replacement planning, and (3) ensuring development activities are identified for progression candidates' needs. In addition, this manager develops and implements a vision for cultural change at respective site levels in support of the TVAN vision and Business Plan. This manager also directs the development and implementation of programs to ensure fair treatment of employees to support the desired performance changes as well as regulatory or legal requirements. This position ensures employees concerns and complaints are addressed in a timely fashion while administering employee relations program (positive discipline, work policies, etc.).

#### 1.6.2 COO Safety Senior Manager

The COO Safety Senior Manager manages, directs, and designs strategic direction of health and safety processes for the COO organization. This manager implements these functions through four regional COO Safety Managers who maintain staffs which support the manager in directing activities to ensure the effectiveness of TVAN's Industrial Safety Program. These positions are responsible for implementing regulatory requirements and commitments applicable to the program, conducting accident investigations, program evaluations, implementation of policy, performance assessments and reporting, and providing and documenting training for nuclear personnel.

#### 1.6.3 Technical Training Manager

The Technical Training Manager is responsible for sharing best practices and standardization of training processes where appropriate. Specific TVAN training functions are described in respective sections of this report for each site.

#### 1.6.4 Work Force Planning Manager

The Work Force Planning Manager manages the work force planning process. In conjunction with HR Services Managers, this manager establishes process standards for assessing business and customer needs, forecasting recruitment needs, profiling staffing availability, trending and analyzing data, and analyzing labor costs to support line managers in decision making.

1.6.5 Work Force Information Management Manager

The Work Force Information Management Manager is responsible for defining the standards for information management flow and reporting.

1.6.6 Program Support Personnel

These positions establish and manage a strategic and consolidated approach to program development and implementation of HR Program initiatives.

# TENNESSEE VALLEY AUTHORITY CORPORATE ORGANIZATION

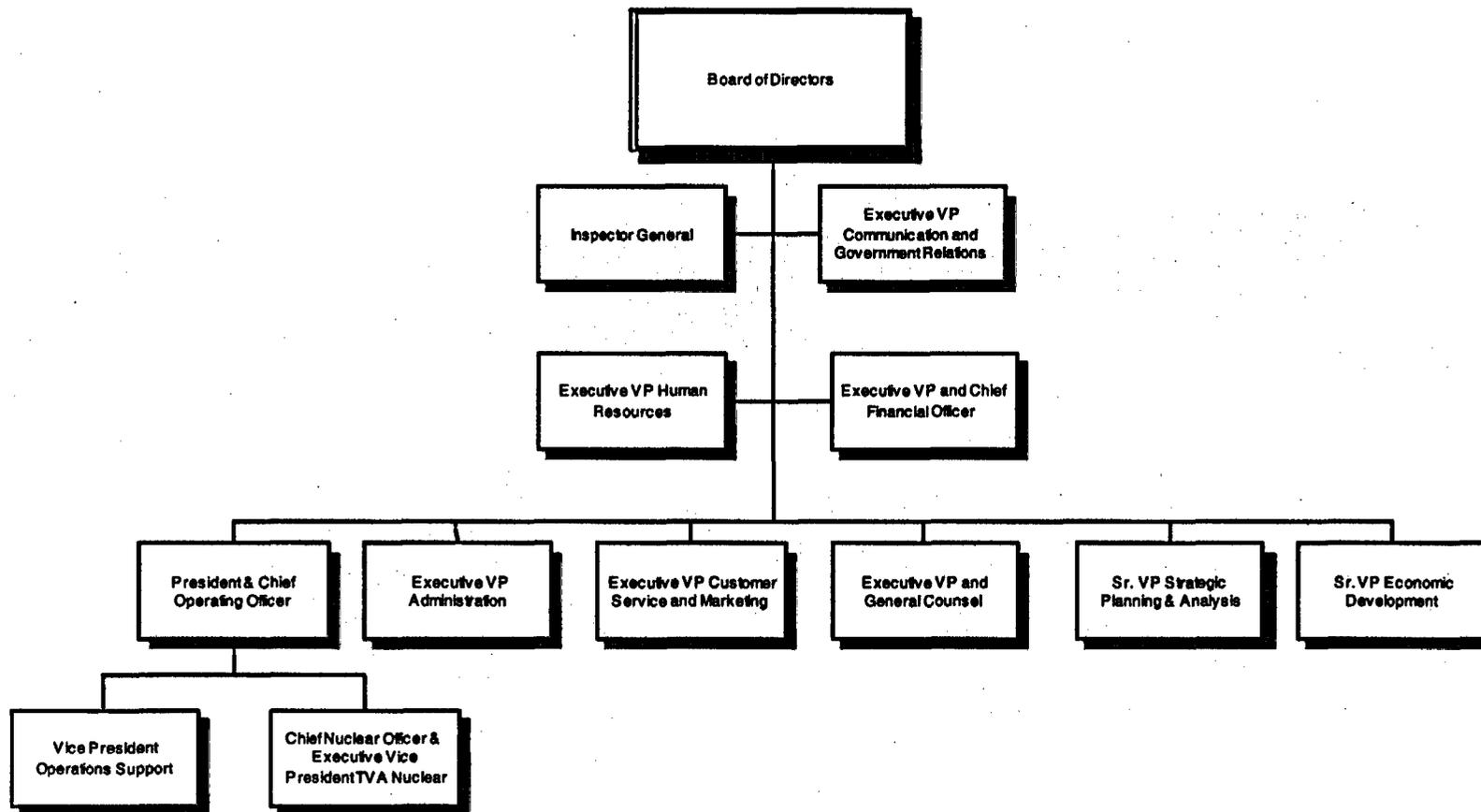


Figure 1-1 7

# TVA NUCLEAR

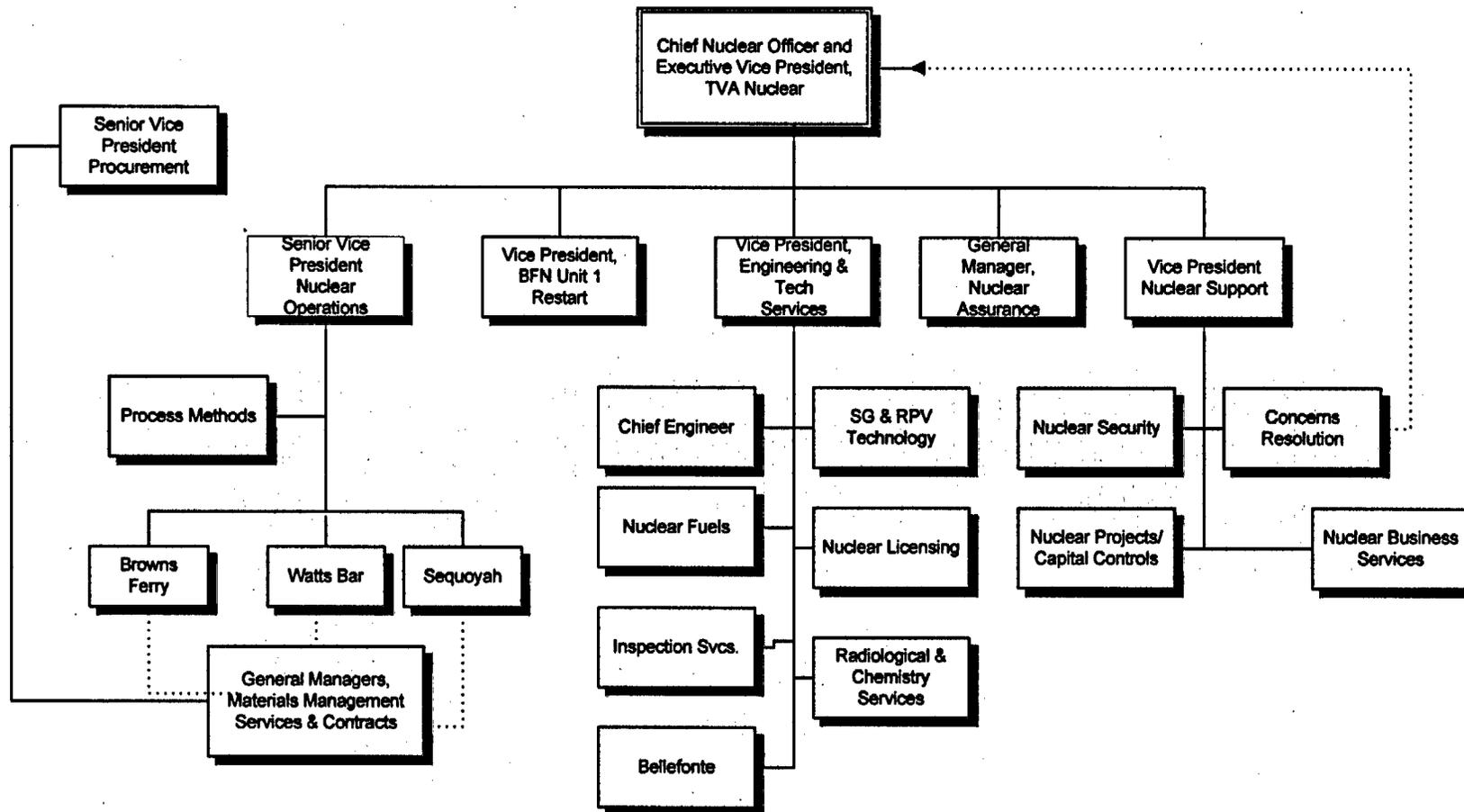


Figure 1-2

# BFN U1 RESTART ORGANIZATION

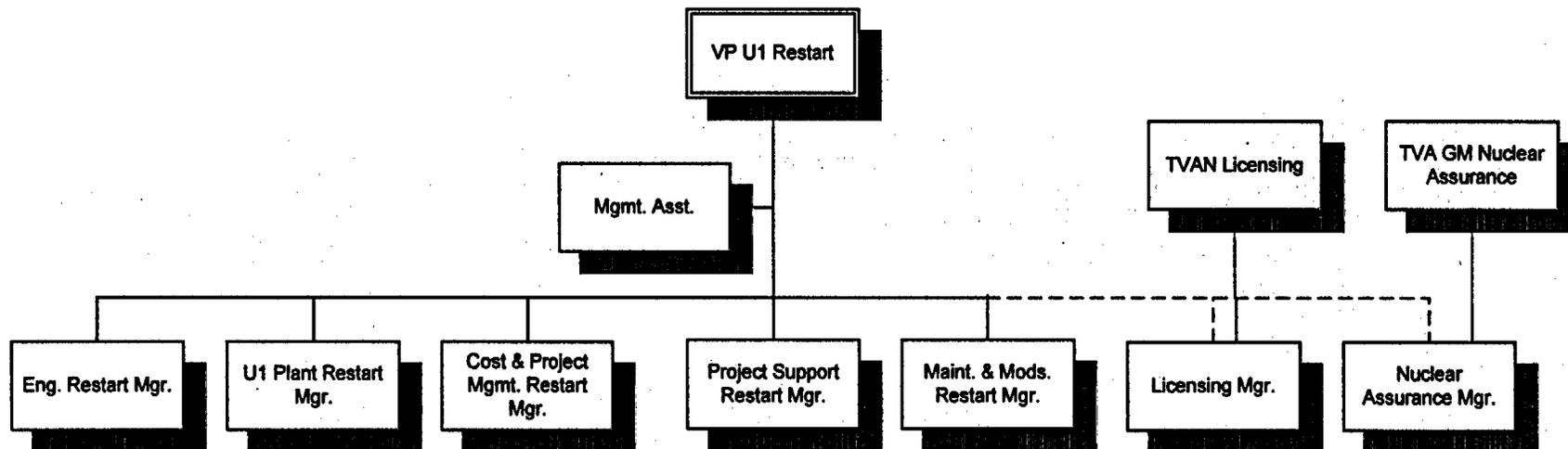


Figure 1-3

# OPERATIONS SUPPORT

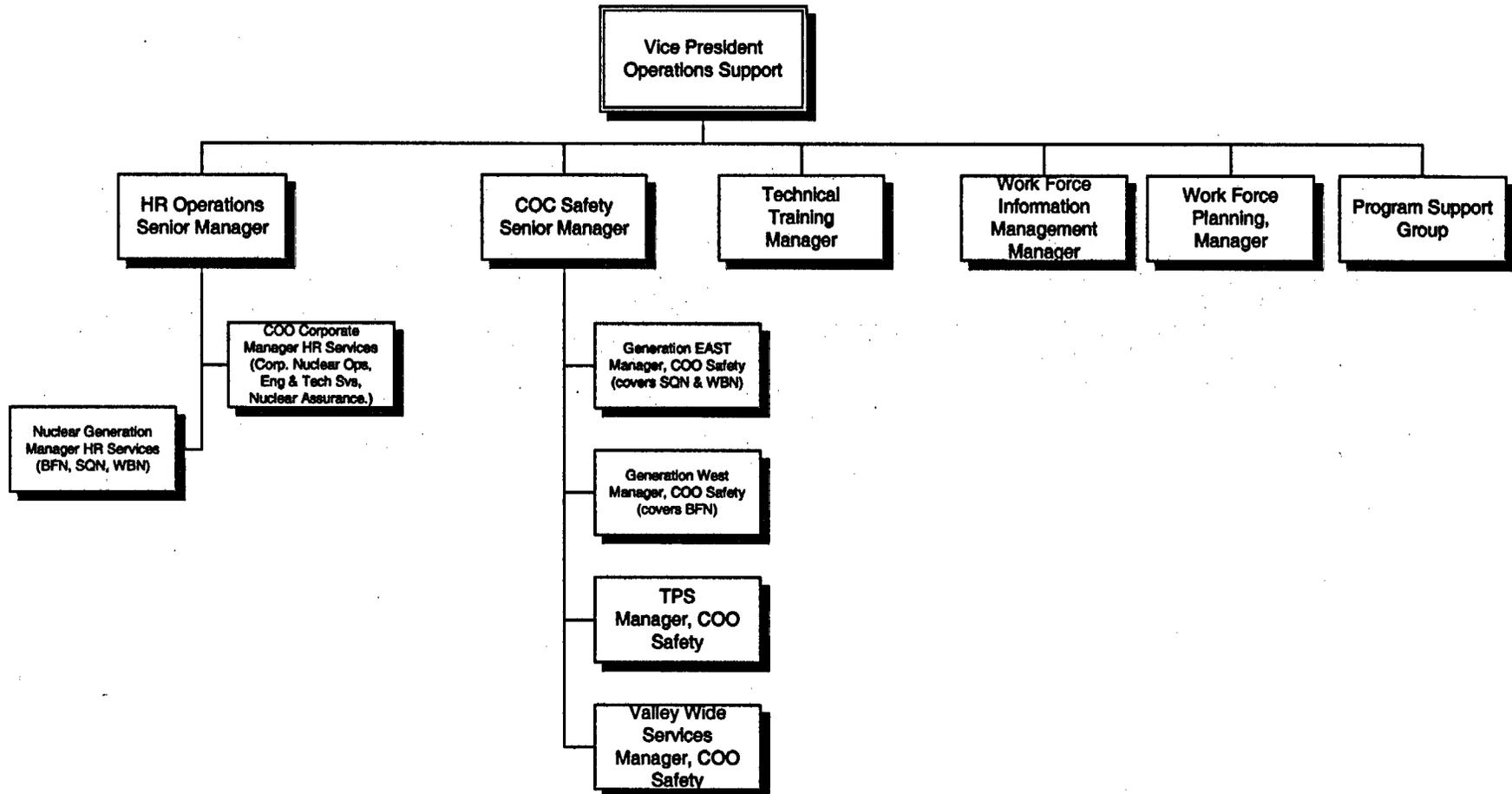


Figure 1-4  
10

## ENGINEERING AND TECHNICAL SERVICES

### 2.0 Vice President, Engineering and Technical Services (E&TS)

The Vice President, E&TS, reports directly to the CNO & EVP and is responsible for the general management of services and support to the sites provided by the programmatic activities within TVAN.

The Vice President, E&TS, has seven principal reports and administers responsibilities through them. These principal reports are as follows:

- Chief Engineer
- Manager, Nuclear Fuels
- Manager, Inspection Services
- Manager, Nuclear Licensing
- Manager, Steam Generator and Reactor Pressure Vessel Technology
- Manager, Radiological & Chemistry Services
- Manager, Bellefonte Nuclear Plant Maintenance

See Figure 2-1 for the E&TS organization chart.

### 2.1 Chief Engineer

The Chief Engineer reports to the Vice President, E&TS, is the TVAN design authority, and is responsible for the following functions:

- A. Configuration Management
- B. Design Basis Management and Control
- C. Design Change Control
- D. 10CFR50.59 Evaluations
- E. Design Input Control
- F. Design Output Control
- G. Design Verification
- H. Calculation Control
- I. Use and Control of Design Standards and Guides
- J. Equipment Reliability and Performance Programs
- K. Site Support

In addition to implementing the key functions listed above, the Site Engineering Manager is also responsible for the following key site program elements:

- A. System Health Monitoring and Equipment History and Trending
- B. Support for Maintenance: Surveillance Testing and Maintenance Rule Monitoring
- C. Technical Evaluations for Procurement of Materials and Services
- D. Probabilistic Safety Assessment
- E. Support for Testing: Post-Modification, Component and System
- F. ASME Section XI Program Support and Interface with Authorized Inspection Agency
- G. Environmental and Seismic/Structural Qualification
- H. Maintain Corrosion Control Program
- I. Perform Technical Operability Evaluations and Root Cause Analyses
- J. Evaluate industry operating experiences and maintain participation in related industry programs which benefit multiple sites
- K. Review final or updated safety analysis report and technical specification changes

## 2.2 Nuclear Fuels

The Manager, Nuclear Fuels, is responsible for the following:

- A. Managing TVAN fuel cycle activities (from uranium acquisition through spent fuel disposal) to supply fuel, fuel-related components, and services;
- B. Providing support and technical direction to the nuclear sites for fuel utilization and nuclear fuel performance; and
- C. Providing reactor core design and analysis including core-related transient and safety analysis.

## 2.3 Inspection Services

The Manager, Inspection Services, directs and manages the activities and resources of the Inspection Services organization to provide the resolution of technical problems, technical support, and requested nondestructive examination/quality control (NDE/QC) inspections of TVAN's power plants through the utilization of skilled examiners and level III overviews to ensure conformance with applicable ASME Codes, regulatory agency, and TVA guidelines and requirements. This manager provides NDE/QC technical support to address problems or special assignments such as new technical development or technology transfer. This manager also supports NDE/QC training and training development of specialized NDE/QC techniques. In addition, this manager represents TVA in NDE/QC matters with ASME, American National Standards Institute, American Welding Society, NRC, Electric Power Research Institute (EPRI), Institute of Nuclear Power Operations (INPO), etc.

## 2.4 Nuclear Licensing

The Manager, Nuclear Licensing, 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 policy, procedures, and oversight to maintain 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 generic issues and the corporate commitment tracking programs;
- D. Ensuring resolution of NRC issues by developing action plans and managing implementation of those plans;

- E. Ensuring that the technical, programmatic evaluations, and in-depth analyses of in-house occurrences at TVA facilities and other industry sites which impact nuclear safety and reliability are completed and addressed as appropriate to prevent the recurrence of events;
- F. Managing the coordination of the TVAN interface with nuclear industry groups including INPO, Nuclear Energy Institute (NEI), Nuclear Steam Supply System owners groups, operating experience review, and other nuclear industry-wide programs; and
- G. Directing and managing the Nuclear Licensing organization which includes the Site Licensing and Industry Affairs Managers.

#### 2.5 Steam Generator (SG) and Reactor Pressure Vessel (RPV) Technology

The Manager, SG & RPV Technology, is responsible for SG integrity programs. This position manages SG outages and projects. This position also manages reliability projects, components, and RPV technology programs.

#### 2.6 Radiological and Chemistry Services

The Manager, Radiological and Chemistry Services, directs programs that ensure that all operations, maintenance, modifications, and engineering activities are conducted in a radiologically safe manner, protecting plant systems and equipment, and protecting the environment. This manager directs technical assistance and project management activities in support of nuclear plant sites consistent with regulatory requirements and litigation minimization needs to ensure that TVAN Radiological Control, Chemistry Control, Emergency Preparedness, and Radiological and non-Radiological Environmental Protection activities are conducted in a manner that protects individuals and the agency. In addition, this manager budgets for and directs development, operations, and modification of radiological, chemistry, emergency preparedness, and environmental control-related programs.

#### 2.7 Manager, Bellefonte Nuclear Plant Maintenance

The Manager, BLN Nuclear Plant Maintenance, provides general management and oversight of all activities at the site, ensuring that the managed and/or contracted activities are conducted according to applicable TVA policies, programs, procedures, technical specifications, and federal, state, and local regulations.

Organizational relationships and responsibilities reported herein reflect administrative structures. Functional relationships and responsibilities may vary from this report. Additionally, due to the status of BLN, some management functions may be combined.

Note: BLN is currently in a deferral status, i.e., there are no on-going plant completion activities. Major attention is placed on site/equipment preservation. Any NA and/or license support is performed by the corporate office.

## TVA NUCLEAR ENGINEERING AND TECHNICAL SERVICES

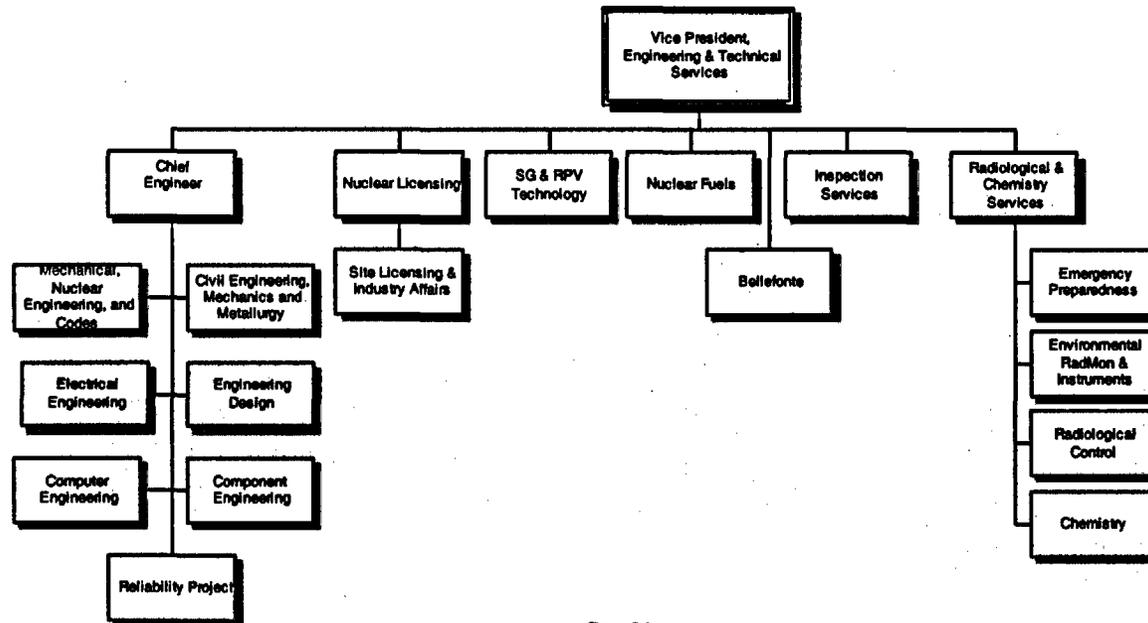


Figure 2-1

NUCLEAR OPERATIONS

3.0 Senior Vice President, Nuclear Operations

The Senior Vice President, Nuclear Operations, reports to the CNO & EVP and is responsible for the safe, efficient, and reliable operation of TVAN operating sites and reviews and concurs in plant staffing and organizational matters. This position ensures that managed activities are conducted in accordance with appropriate federal regulations and TVA policies and procedures.

The Senior Vice President, Nuclear Operations, has four principal reports and administers responsibilities through them. These principal reports are as follows:

General Manager, Process Methods  
Vice President, BFN  
Vice President, SQN  
Vice President, WBN

See Figure 3-1 for the Nuclear Operations organization chart.

3.1 General Manager, Process Methods

The General Manager, Process Methods, is responsible for coordination of Process Methods' efforts for the TVAN organization. The Process Methods organization's charge is to bring TVAN's focus on process improvement and peer team support to a higher level. Process Method's focus on process improvement and peer team support is a key to adding depth and vision to our process improvement initiatives.

# TVA Nuclear Nuclear Operations

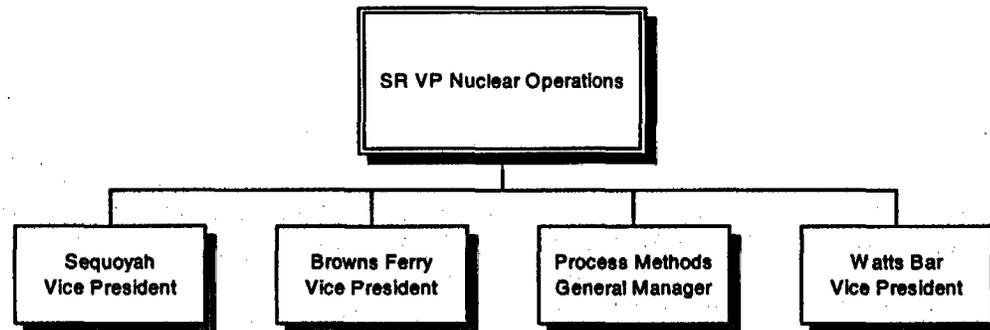


Figure 3-1

## BROWNS FERRY NUCLEAR PLANT

### 3.2 Vice President, Browns Ferry Site (BFN)

The Vice President, BFN Site, is responsible and accountable for activities at the site, including operations, modifications, maintenance, support, and engineering services. The Vice President, BFN Site, manages activities associated with BFN and determines the nature and extent of onsite and offsite support services required to support assigned site operations in accordance with TVAN policy and procedures. The Vice President, BFN Site, is responsible for the quality of work activities.

The Vice President, BFN Site, has two principal direct reports and administers responsibilities through them. These principal reports are as follows:

Manager, Engineering and Site Support  
Plant Manager

The Site Quality and Site Licensing and Industry Affairs Managers have a functional reporting relationship to the Vice President, BFN Site.

See Figure 3-2 for the BFN organization chart.

#### 3.2.1 Engineering and Site Support

The Manager, Engineering and Site Support, provides general programmatic management and direction for assigned organizations to ensure that necessary services are provided to support safe, reliable operations and are responsive to site schedules, priorities, and requirements.

This includes directing the development and management of Site Engineering, Security, Emergency Preparedness, Project Management, Site Support and providing technical support to Operations, Maintenance, Modifications, Radiological Control, Chemistry, and the Plant Manager, in accordance with all federal, state, and local regulations.

##### a. Site Engineering

The Manager, Site Engineering, is responsible for the development and management of the Engineering Design, System Engineering, Engineering Support, Technical Support, Components Test and Inspection, Document Control and Records Management functions at the site.

##### b. Project Management

The Manager, Project Management, is responsible for cost engineering functions including estimating, forecasting, trending/scope control, data analysis, and reporting. The Project Management Manager is responsible for ensuring technical and programmatic cost requirements of the site organizations (including contractors), site senior

management, and TVA executive management are quantified, integrated, and supported by established processes to a high degree of consistency and reliability. The Project Management Manager also has responsibility for corporate employees assigned to the site who are responsible for the site's Information Services.

c. Site Support

The Manager, Site Support, directs the work of corporate employees assigned to the site who are responsible for financial activities to provide the overall accounting, budget, and business reporting processes for all areas of activity at the site. In addition, the Site Support Staff is responsible for the development, implementation, and oversight of site analysis and reporting systems to report key indicators, compile data that can be utilized to reduce costs, and increase overall site effectiveness and efficiency. Additionally, the Site Support Staff is responsible for maintaining the site's Corrective Action Program, which identifies and corrects problems and adverse conditions in a manner consistent with the nature of the conditions and its importance to plant safety or plant reliability.

d. Nuclear Site Security

The Manager, Nuclear Site Security, is responsible for the management and direction of the Site Security Program to ensure security at the nuclear site and compliance with TVA and NRC requirements.

e. Site Emergency Preparedness

The Manager, Site Emergency Preparedness is responsible for the site's Emergency Preparedness Program to ensure safety of TVA employees and the general public in the event of an accident at the nuclear facility.

3.2.2 Site Concerns Resolutions

The Site Representative, Concerns Resolution, provides site employees with a means for reporting their concerns to a high-level within TVA's nuclear organization if, for any reason, the employees do not believe that their supervisors would properly respond to expressing concerns.

This position reports to the Corporate Manager, Concerns Resolutions, providing the Concerns Resolution Program sufficient independence and freedom to ensure that concerns are properly addressed.

### 3.2.3 Site Quality

The Manager, Site Quality, provides oversight of quality activities associated with the operation of BFN. Responsibilities are described in detail in TVA's Nuclear Quality Assurance Plan (TVA-NQA-PLN89-A). This position reports to the General Manager, NA.

### 3.2.4 Site Licensing and Industry Affairs

The Manager, Site Licensing and Industry Affairs, provides licensing services associated with the operation of BFN. This position serves as the primary interface with the NRC for site-related matters. This position reports to the corporate Manager, Nuclear Licensing.

This manager is responsible for developing the vision and strategy for the site in the areas of the NRC, INPO, NEI, and other industry interfaces such as General Electric's Boiling Water Reactor Owners Group. This manager is also responsible for managing the site Operating Experience Review Program and ensuring that the technical, programmatic evaluations, and in-depth analyses of in-house occurrences at TVA facilities and other industry sites which impact nuclear safety and reliability are completed and addressed as appropriate to prevent the recurrence of events.

### 3.2.5 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 appoints the chairman and the members of the Plant Operations Review Committee. 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 administers his principal areas of responsibility through the following managers:

- Manager, Maintenance and Modifications
- Manager, Radiological and Chemistry Control
- Assistant Plant Manager
- Manager, Outage & Scheduling
- Manager, Operations
- Manager, Training

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

a. Maintenance and Modifications

The Manager, Maintenance and Modifications, is responsible for planning, directing, and managing the plant's maintenance program to ensure that equipment and systems are maintained in accordance with operability and reliability engineering practices and requirements. This manager is responsible for major outage work and modifications. This position manages the development, implementation, and maintenance of the site measuring and test equipment tool rooms.

This manager 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 manager is also responsible for the maintenance and testing of all in-plant radios, TI 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).

b. Radiological and Chemistry Control

The Manager, Radiological and Chemistry Control, guides programs and activities at the plant ensuring that all operations, maintenance, modifications and engineering activities are conducted in a radiologically safe manner, protect plant systems and equipment, and protect the environment. This includes developing, implementing, and managing the Site Radiological Chemistry and Environmental Control programs. This manager guides technical assistance and project management activities in support of the site consistent with regulatory requirements. This manager develops and maintains procedures and applies standards necessary for the Radiological, Chemistry, and Environmental Control programs.

This manager also supports the site training program and provides specialized training in radiological, chemistry, and environmental disciplines. This manager is responsible for personnel radiation, plant chemistry, and environmental monitoring to ensure compliance with all applicable requirements. This manager is responsible for maintaining continuing records of personnel exposure, plant radiation and contamination levels, plant effluents, and plant chemistry. In addition, this manager is responsible for implementation of effective site programs for chemistry, radiochemistry, and radiological and environmental compliance.

c. Assistant Plant Manager (APM)

The APM assumes full responsibility and accountability of the Plant Manager in the Plant Manager's absence. This is a developmental position for progression to Plant Manager. There may be more than one APM position with any of the plant manager departments under his supervision.

d. Outage and Scheduling

The Manager, Outage and Scheduling, has overall responsibility for outage planning, coordination, and monitoring. This manager plans all outages, establishes work priorities, and coordinates shift turnover. This manager is responsible for managing plant scheduling processes ensuring efficient, effective management of the work control function which is the basis of the site's schedule.

e. Operations

The Manager, Operations, has responsibility for planning, organizing, setting policy, and motivation relating to Operations, and supporting activities (e.g., fire protection surveillances). These activities include operational strategies for generation, water and waste usage, approved authority for system enhancements, and prioritization of maintenance activities. To meet these objectives, functions related to Operations and supporting activities are grouped under one manager responsible for facility generation (i.e., Manager, Operations).

The Manager, Operations, has three principal reports:

Superintendent, Operations  
Superintendent, Operations Support  
Supervisor, Reactor Engineering

Superintendent, Operations

The Superintendent, Operations, is responsible for all plant operations. The superintendent, through the shift managers, manages the day-to-day operation of the facility, refueling operations, start-up, 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 shift crew for one unit operating normally consists of the Shift Manager (SRO), Unit Supervisor (SRO), Unit Operators (RO), and Assistant Unit Operators (AUOs). Additional licensed and nonlicensed personnel are required for two-unit operation. Additional operators are assigned as required by the Technical Specifications to meet the requirements of 10 CFR 50.54(m)(2). Plant management and technical support personnel will be present or on call at all times.

Superintendent, Operations Support

The Superintendent, Operations Support, is responsible for budget preparation, training oversight, performance monitoring, and assists the Manager, Operations, in overall program direction for operations. The Supervisor, Fire Operations, with the overall responsibility for the Fire Protection Program, reports to the Superintendent, Operations Support.

Supervisor, Reactor Engineering

The Supervisor, Reactor Engineering plans and directs the Reactor Engineering section functions to ensure the reliable and efficient performance of assigned plant equipment as required by TVA policy, plant technical specifications, and federal, state, and local regulation. This supervisor is responsible for fuel management and special nuclear material accountability.

This position directs reactor systems and component testing activities in order to fulfill technical specification and engineering requirements. Ensures resolution of test deficiencies. Conducts evaluations for reactor systems performance to identify system degradation, initiate corrective actions, and monitor their implementation.

f. Training

The Manager, Training, directs the planning, development, implementation, and evaluation of federally-regulated and nationally-accredited training programs to ensure sufficient qualified personnel to operate, maintain, and modify the nuclear power plant. The nuclear industry's training organization, the National Academy for Nuclear Training, has administrative and technical support provided by INPO, the industry's self-governance organization. Through the Academy's National Nuclear Accrediting Board, all 12 applicable TVAN training programs in operations, maintenance, and technical training have been accredited. Generally, maintaining Academy accreditation is sufficient to satisfy applicable federal regulations. Even more critical than meeting external expectations is the assurance that the nuclear power plant work force has been properly trained on a task-by-task basis to perform individual and team duties in an accurate, timely, and safe manner. This position is responsible for establishing, delivering, and maintaining such performance-based personnel training programs.

# BROWNS FERRY NUCLEAR PLANT SITE VICE PRESIDENT

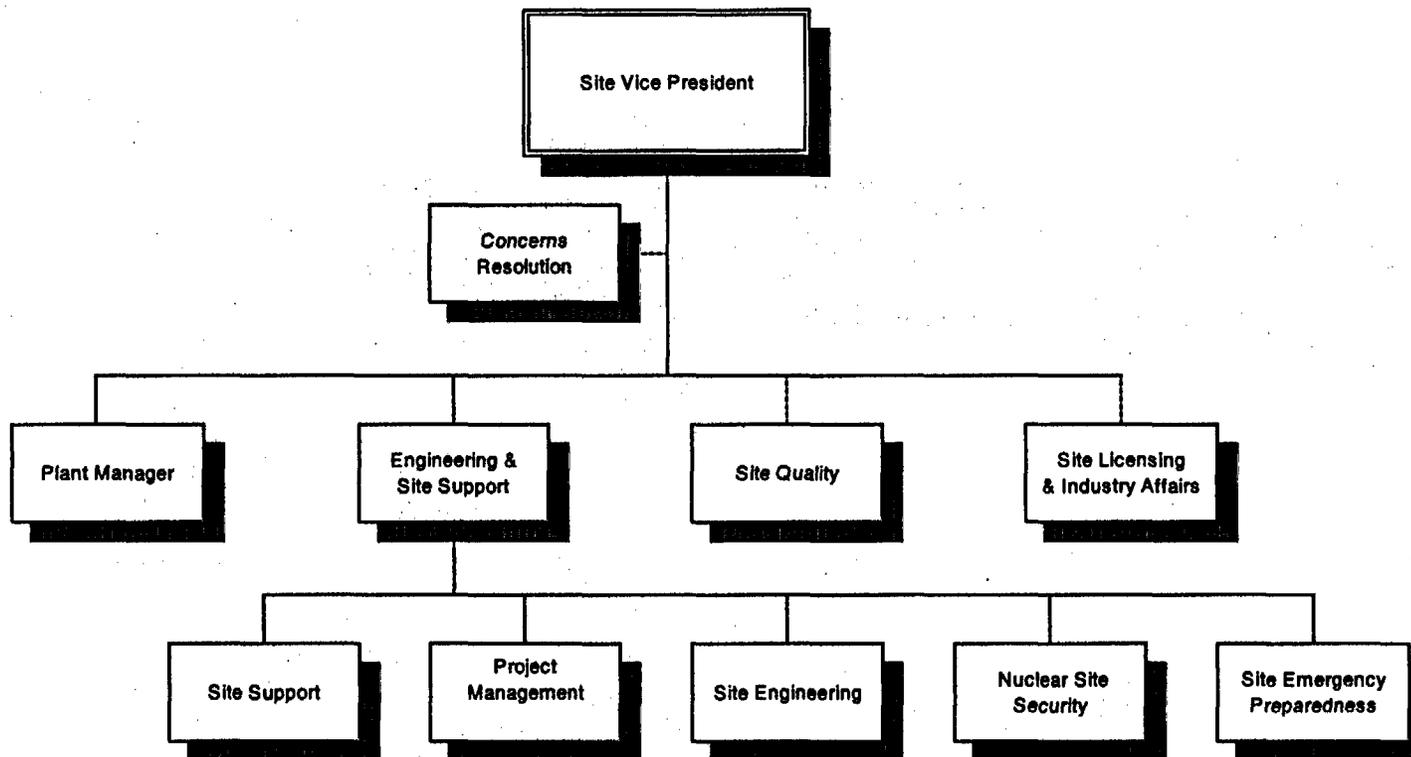


Figure 3-2

# BROWNS FERRY NUCLEAR PLANT PLANT MANAGER

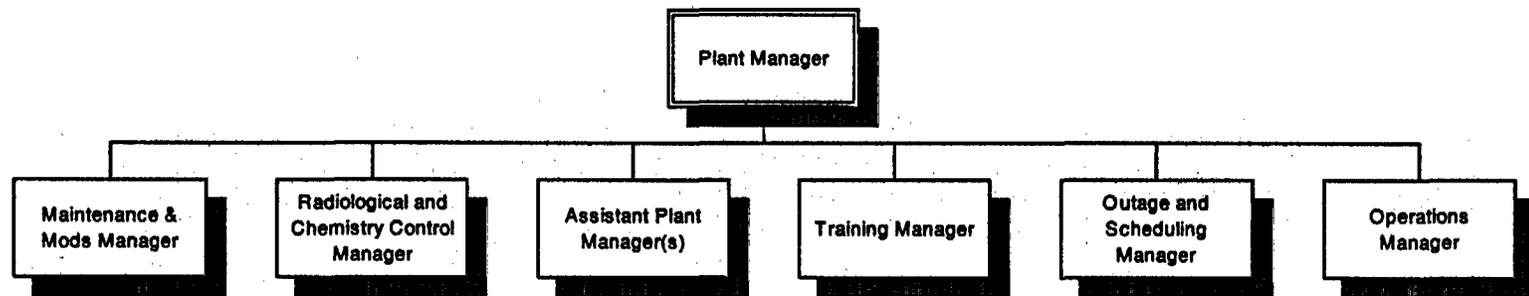


Figure 3-3

## SEOUOYAH NUCLEAR PLANT

### 3.3 Vice President, Sequoyah Site (SQN)

The Vice President, SQN Site, is responsible and accountable for activities at the site, including operations, modifications, maintenance, support, and engineering services. The Vice President, SQN Site, manages activities associated with SQN and determines the nature and extent of onsite and offsite support services required to support site operations in accordance with TVAN policy and procedures. The Vice President, SQN Site, is responsible for the quality of work activities.

The Vice President, SQN Site, has two principal direct reports and administers responsibilities through them. These reports are:

Manager, Engineering and Site Support  
Plant Manager

The Site Quality and Site Licensing and Industry Affairs Managers have a functional reporting relationship to the Vice President, SQN Site.

See Figure 3-4 for the SQN organization chart.

#### 3.3.1 Engineering and Site Support

The Manager, Engineering and Site Support, provides general programmatic management and direction for assigned organizations to ensure that necessary services are provided to support safe, reliable operations and are responsive to site schedules, priorities, and requirements.

This includes directing the development and management of Site Engineering, Security, Emergency Preparedness, Project Management, Site Support and providing technical support to Operations, Maintenance, Modifications, Radiological Control, Chemistry, and the Plant Manager, in accordance with all federal, state, and local regulations.

##### a. Site Engineering

The Manager, Site Engineering, is responsible for the development and management of the Engineering Design, System Engineering, Engineering Support, Technical Support, Components Test and Inspection, Document Control and Records Management functions at the site.

##### b. Project Management

The Manager, Project Management, is responsible for cost engineering functions including estimating, forecasting, trending/scope control, data analysis, and reporting. The Project Management Manager is responsible for ensuring technical and programmatic cost requirements of the site organizations (including contractors), site senior

management, and TVA executive management are quantified, integrated, and supported by established processes to a high degree of consistency and reliability. The Project Management Manager also has responsibility for corporate employees assigned to the site who are responsible for the site's Information Services.

c. Site Support

The Manager, Site Support, directs the work of corporate employees assigned to the site who are responsible for financial activities to provide the overall accounting, budget, and business reporting processes for all areas of activity at the site. In addition, the Site Support Staff is responsible for the development, implementation, and oversight of site analysis and reporting systems to report key indicators, compile data that can be utilized to reduce costs, and increase overall site effectiveness and efficiency. Additionally, the Site Support Staff is responsible for maintaining the site's Corrective Action Program, which identifies and corrects problems and adverse conditions in a manner consistent with the nature of the conditions and its importance to plant safety or plant reliability.

d. Nuclear Site Security

The Manager, Nuclear Site Security, is responsible for the management and direction of the Site Security Program to ensure security at the nuclear site and compliance with TVA and NRC requirements.

e. Site Emergency Preparedness

The Manager, Site Emergency Preparedness is responsible for the site's Emergency Preparedness Program to ensure safety of TVA employees and the general public in the event of an accident at the nuclear facility.

3.3.2 Site Concerns Resolutions

The Site Representative, Concerns Resolution, provides site employees with a means for reporting their concerns to a high-level within TVA's nuclear organization if, for any reason, the employees do not believe that their supervisors would properly respond to expressing concerns.

This position reports to the Corporate Manager, Concerns Resolutions, providing the Concerns Resolution Program sufficient independence and freedom to ensure that concerns are properly addressed.

### 3.3.3 Site Quality

The Manager, Site Quality, provides oversight of quality activities associated with the operation of SQN. Responsibilities are described in detail in TVA's Nuclear Quality Assurance Plan (TVA-NQA-PLN89-A). This position reports to the General Manager, NA.

### 3.3.4 Site Licensing and Industry Affairs

The Manager, Site Licensing and Industry Affairs, provides licensing services associated with the operation of SQN. This position serves as the primary interface with the NRC for site-related matters. This position reports to the corporate Manager, Nuclear Licensing.

This manager is responsible for developing the vision and strategy for the site in the areas of the NRC, INPO, NEI, and other industry interfaces such as the Westinghouse Owners Group. This manager is also responsible for managing the site Operating Experience Review Program and ensuring that the technical, programmatic evaluations, and in-depth analyses of in-house occurrences at TVA facilities and other industry sites which impact nuclear safety and reliability are completed and addressed as appropriate to prevent the recurrence of events.

### 3.3.5 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 appoints the chairman and the members of the Plant Operations Review Committee. 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 administers his principal areas of responsibility through the following managers:

- Manager, Maintenance and Modifications
- Manager, Radiological and Chemistry Control
- Assistant Plant Manager
- Manager, Outage & Scheduling
- Manager, Operations
- Manager, Training

See Figure 3-5 for the Plant Manager's organization chart.

a. Maintenance and Modifications

The Manager, Maintenance and Modifications, is responsible for planning, directing, and managing the plant's maintenance program to ensure that equipment and systems are maintained in accordance with operability and reliability engineering practices and requirements. This manager is responsible for major outage work and modifications. This position manages the development, implementation, and maintenance of the site measuring and test equipment tool rooms.

This manager 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 manager is also responsible for the maintenance and testing of all in-plant radios, TI 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).

b. Radiological and Chemistry Control

The Manager, Radiological and Chemistry Control, guides programs and activities at the plant ensuring that all operations, maintenance, modifications and engineering activities are conducted in a radiologically safe manner, protect plant systems and equipment, and protect the environment. This includes developing, implementing and managing the Site Radiological Chemistry and Environmental programs. This manager guides technical assistance and project management activities in support of the site consistent with regulatory requirements. This manager develops and maintains procedures and applies standards necessary for the Radiological, Chemistry and Environmental Control programs. This manager supports the site training program and provides specialized training in radiological, chemistry, and environmental disciplines. This manager is responsible for personnel radiation, plant chemistry, and environmental monitoring to ensure compliance with all applicable requirements. This manager is responsible for maintaining continuing records of personnel exposure, plant radiation and contamination levels, plant effluents, and plant chemistry. In addition, this manager is responsible for implementation of effective site programs for chemistry, radiochemistry, radiological, and environmental compliance.

c. Assistant Plant Manager (APM)

The APM assumes full responsibility and accountability of the Plant Manager in the Plant Manager's absence. This is a developmental position for progression to Plant Manager. There may be more than one APM position with any of the plant manager departments under his supervision.

d. Outage & Scheduling

The Manager, Outage & Scheduling, has overall responsibility for outage planning, coordination, and monitoring. This manager plans all outages, establishes work priorities, and coordinates shift turnover. This manager is responsible for managing plant scheduling processes ensuring efficient, effective management of the work control function which is the basis of the site's schedule.

e. Operations

The Manager, Operations, has responsibility for planning, organizing, setting policy, and motivation relating to operations, and supporting activities (e.g., fire protection surveillances). These activities include operational strategies for generation, water and waste usage, approved authority for system enhancements, and prioritization of maintenance activities. To meet these objectives, functions related to Operations and supporting activities are grouped under one manager responsible for facility generation (i.e., Manager, Operations).

The Manager, Operations, has three principal reports:

Superintendent, Operations  
Superintendent, Operations Support  
Supervisor, Reactor Engineering

Superintendent, Operations

The Superintendent, Operations, is responsible for all plant operations. The superintendent, through the shift operations supervisors, manages the day-to-day operation of the facility, refueling operations, start-up, 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 shift crew for one unit operating normally consist of the Shift Manager (SRO), Unit Supervisor (SRO), Unit Operators (RO), and Nuclear Assistant Unit Operators (NAUOs). Additional licensed and nonlicensed personnel are required for two-unit operation. Additional operators are assigned as required by the Technical Specifications to meet the requirements of 10 CFR 50.54(m)(2). Plant management and technical support personnel will be present or on call at all times.

Superintendent, Operations Support

The Superintendent, Operations Support, is responsible for budget preparation, training oversight, performance monitoring, and assists the Manager, Operations, in overall program direction for operations. The Supervisor, Fire Operations, with the overall responsibility for the fire protection program, reports to the Superintendent, Operations Support.

Supervisor, Reactor Engineering

The Supervisor, Reactor Engineering plans and directs the Reactor Engineering section functions to ensure the reliable and efficient performance of assigned plant equipment as required by TVA policy, plant technical specifications, and federal, state, and local regulation. This supervisor is responsible for fuel management and special nuclear material accountability.

This position directs reactor systems and component testing activities in order to fulfill technical specification and engineering requirements and ensures resolution of test deficiencies. Conducts evaluations for reactor systems performance to identify system degradation, initiate corrective actions, and monitor their implementation.

f. Training

The Manager, Training, directs the planning, development, implementation, and evaluation of federally-regulated and nationally-accredited training programs to ensure sufficient qualified personnel to operate, maintain, and modify the nuclear power plant. The nuclear industry's training organization, the National Academy for Nuclear Training, is managed by INPO, the industry's self-governance organization. Through the Academy's National Nuclear Accrediting Board, all 12 applicable TVAN training programs in operations, maintenance, and technical training have been accredited. Generally, maintaining Academy accreditation is sufficient to satisfy applicable federal regulations. Even more critical than meeting external expectations is the assurance that the nuclear power plant work force has been properly trained on a task-by-task basis to perform individual and team duties in an accurate, timely, and safe manner. This position is responsible for establishing, delivering, and maintaining such performance-based personnel training programs.

# SEQUOYAH NUCLEAR PLANT SITE VICE PRESIDENT

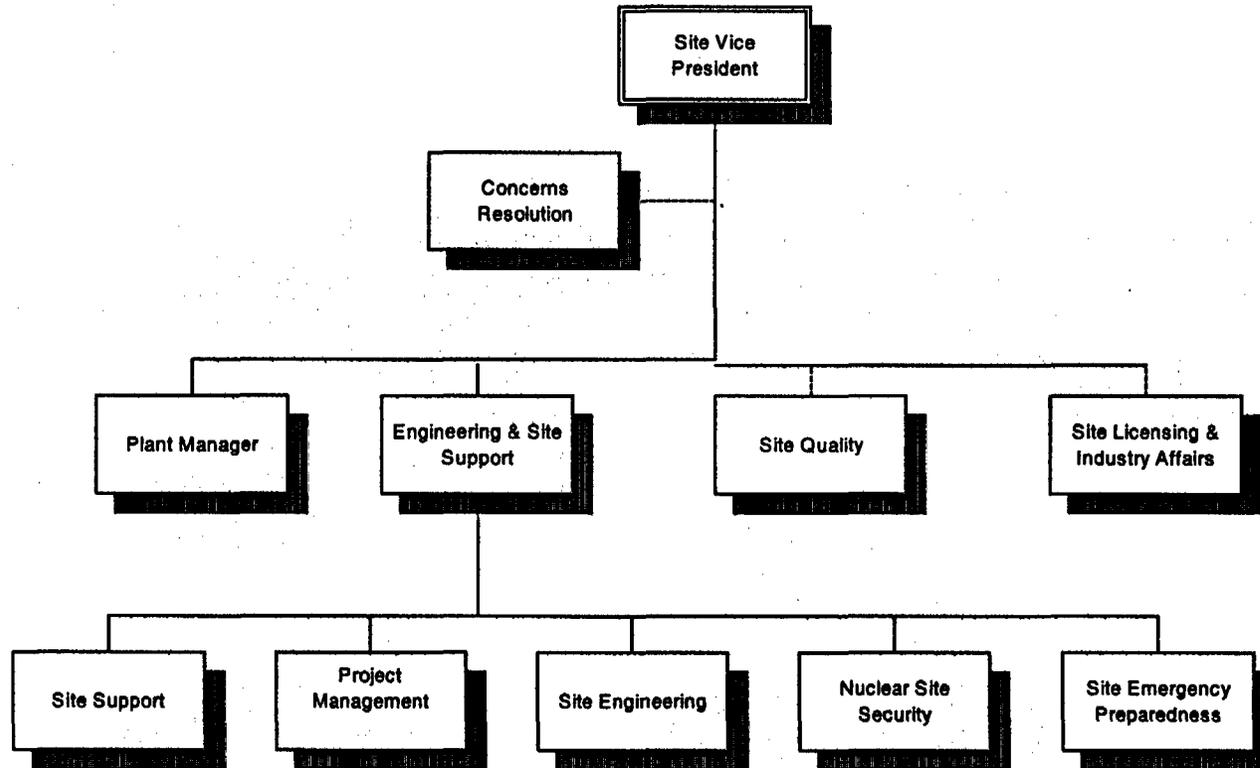


Figure 3-4

# SEQUOYAH NUCLEAR PLANT PLANT MANAGER

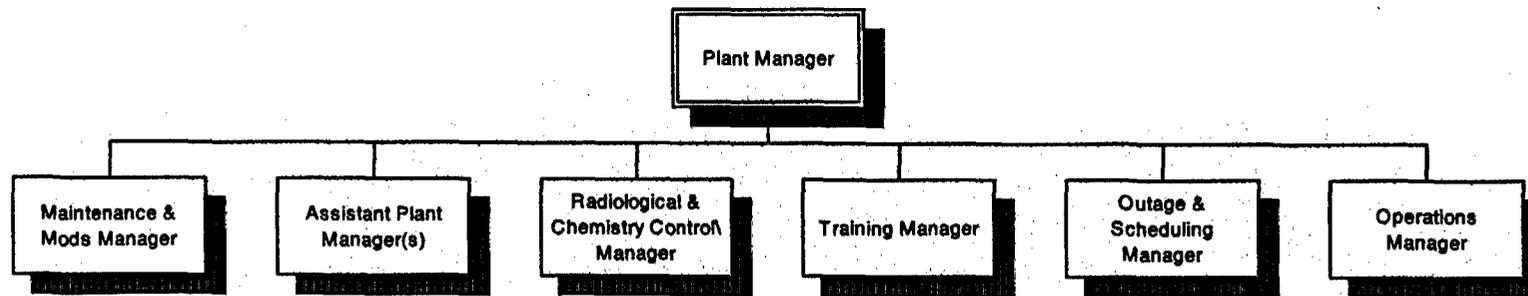


Figure 3-5

WATTS BAR NUCLEAR PLANT

3.4 Vice President, Watts Bar Site (WBN)

The Vice President, WBN Site, is responsible and accountable for activities at the site, including Unit 1 operations, modifications, maintenance, support, and engineering services and Unit 2 Construction Permit activities. The Vice President, WBN Site, manages activities associated with the WBN plant and determines the nature and extent of onsite and offsite support services required to support site operations and activities in accordance with TVAN policy and procedures. The Vice President, WBN Site, is responsible for the quality of work activities.

The Vice President, WBN Site, has two principal direct reports and administers responsibilities through them. These reports are:

Manager, Engineering and Site Support  
Plant Manager

The Site Quality and Site Licensing and Industry Affairs Managers have a functional reporting relationship to the Vice President, WBN Site.

See Figure 3-6 for the WBN organization chart.

3.4.1 Engineering and Site Support

The Manager, Engineering and Site Support, provides general programmatic management and direction for assigned organizations to ensure that necessary services are provided to support safe, reliable operations and are responsive to site schedules, priorities, and requirements.

This includes directing the development and management of Site Engineering, Security, Emergency Preparedness, Project Management, Site Support and providing technical support to Operations, Maintenance, Modifications, Radiological Control, Chemistry, and the Plant Manager, in accordance with all federal, state, and local regulations.

a. Site Engineering

The Manager, Site Engineering, is responsible for the development and management of the Engineering Design, System Engineering, Engineering Support, Technical Support, Components Test and Inspection, Document Control and Records Management functions at the site.

b. Project Management

The Manager, Project Management, is responsible for cost engineering functions including estimating, forecasting, trending/scope control, data analysis, and reporting. The Project Management Manager is responsible for ensuring technical and programmatic cost requirements of the site

organizations (including contractors), site senior management, and TVA executive management are quantified, integrated, and supported by established processes to a high degree of consistency and reliability. The Project Management Manager also has responsibility for corporate employees assigned to the site who are responsible for the site's Information Services.

c. Site Support

The Manager, Site Support, directs the work of corporate employees assigned to the site who are responsible for financial activities to provide the overall accounting, budget, and business reporting processes for all areas of activity at the site. In addition, the Site Support Staff is responsible for the development, implementation, and oversight of site analysis and reporting systems to report key indicators, compile data that can be utilized to reduce costs, and increase overall site effectiveness and efficiency. Additionally, the Site Support Staff is responsible for maintaining the site's Corrective Action Program, which identifies and corrects problems and adverse conditions in a manner consistent with the nature of the conditions and its importance to plant safety or plant reliability.

d. Nuclear Site Security

The Manager, Nuclear Site Security, is responsible for the management and direction of the Site Security Program to ensure security at the nuclear site and compliance with TVA and NRC requirements.

e. Site Emergency Preparedness

The Manager, Site Emergency Preparedness is responsible for the site's Emergency Preparedness Program to ensure safety of TVA employees and the general public in the event of an accident at the nuclear facility.

3.4.2 Site Concerns Resolutions

The Site Representative, Concerns Resolution, provides site employees with a means for reporting their concerns to a high-level within TVA's nuclear organization if, for any reason, the employees do not believe that their supervisors would properly respond to expressing concerns.

This position reports to the Corporate Manager, Concerns Resolutions, providing the Concerns Resolution Program sufficient independence and freedom to ensure that concerns are properly addressed.

#### 3.4.3 Site Quality

The Manager, Site Quality, provides oversight of quality activities associated with the operation of WBN. Responsibilities are described in detail in TVA's Nuclear Quality Assurance Plan (TVA-NQA-PLN89-A). This position reports to the General Manager, NA.

#### 3.4.4 Site Licensing and Industry Affairs

The Manager, Site Licensing and Industry Affairs, provides licensing services associated with the operation of WBN. This position serves as the primary interface with the NRC for site-related matters. This position reports to the corporate Manager, Nuclear Licensing.

This manager is responsible for developing the vision and strategy for the site in the areas of the NRC, INPO, NEI, and other industry interfaces such as Westinghouse Owners Group. This manager is also responsible for managing the site Operating Experience Review Program and ensuring that the technical, programmatic evaluations, and in-depth analyses of in-house occurrences at TVA facilities and other industry sites which impact nuclear safety and reliability are completed and addressed as appropriate to prevent the recurrence of events.

#### 3.4.5 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 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 appoints the chairman and the members of the Plant Operations Review Committee. The Plant Manager provides operation and maintenance support to the unit.

The Plant Manager administers his principal areas of responsibility through the following managers:

- Manager, Maintenance and Modifications
- Manager, Radiological and Chemistry Control
- Assistant Plant Manager
- Manager, Outage and Scheduling
- Manager, Operations
- Manager, Training

See Figure 3-7 for the Plant Manager's organization chart.

a. Maintenance and Modifications

The Manager, Maintenance and Modifications, is responsible for planning, directing, and managing the plant's maintenance program to ensure that equipment and systems are maintained in accordance with operability and reliability engineering practices and requirements. This manager is responsible for major outage work and modifications. This position manages the development, implementation, and maintenance of the site measuring and test equipment tool rooms.

This manager 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 manager is also responsible for the maintenance and testing of all in-plant radios, TI 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).

b. Radiological and Chemistry Control<sup>1</sup>

The Manager, Radiological and Chemistry, guides programs and activities at the plant ensuring that all operations, maintenance, modifications and engineering activities are conducted in a radiologically safe manner, protect plant systems and equipment, and protect the environment. This includes developing, implementing, and managing the Site Radiological, Chemistry and Environmental Control programs. This manager guides technical assistance and project management activities in support of the site consistent with regulatory requirements. This manager develops and maintains procedures and applies standards necessary for the Radiological, Chemistry, and Environmental Control programs.

This manager supports the Site Training Program and provides specialized training in radiological, chemistry, and environmental disciplines. This manager is responsible for personnel radiation, plant chemistry, and environmental monitoring to ensure compliance with all applicable requirements. This manager is responsible for maintaining continuing records of personnel exposure, plant radiation and contamination levels, plant effluents, and plant chemistry. In addition, this

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<sup>1</sup> Currently, the manager filling this position at WBN is assigned to another organization.

manager is responsible for implementation of effective site programs for chemistry, radiochemistry, radiological, and environmental compliance.

c. Assistant Plant Manager (APM)

The APM assumes the full responsibilities and accountabilities of the Plant Manager in the Plant Manager's absence. These are developmental positions for the progression to Plant Manager. There may be more than one APM position with any of the above plant manager departments under his supervision.

d. Outage & Scheduling

The Manager, Outage & Scheduling, has overall responsibility for outage planning, coordination, and monitoring. This manager plans all outages, establishes work priorities, and coordinates shift turnover. This manager is responsible for managing plant scheduling processes ensuring efficient, effective management of the work control function which is the basis of the site's schedule.

e. Operations

The Manager, Operations, has responsibility for planning, organizing, setting policy, and motivation relating to Operations, and supporting activities (e.g., fire protection surveillances). These activities include operational strategies for generation, water and waste usage, approved authority for system enhancements, and prioritization of maintenance activities. To meet these objectives, functions related to Operations and supporting activities are grouped under one manager responsible for facility generation (i.e., Manager, Operations). This position serves as Chairman of the Plant Operations Review Committee.

The Manager, Operations, has three principal reports:

Superintendent, Operations  
Superintendent, Operations Support  
Reactor Engineering, Supervisor

Superintendent, Operations

The Superintendent, Operations, is responsible for plant operations. The superintendent, through the shift managers, manages the day-to-day operation of the facility, refueling operations, start-up, 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 shift crew for one unit operating normally consist of the Shift Manager (SRO), Unit Supervisor (SRO), Nuclear Unit Operators (SROs), and Assistant Unit Operators (AUOs). Additional operators are assigned as required by

the Technical Specifications to meet the requirements of 10 CFR 50.54(m)(2). Plant management and technical support personnel will be present or on call at all times.

Superintendent, Operations Support

The Superintendent, Operations Support, is responsible for budget preparation, training oversight, performance monitoring, and assists the Manager, Operations, in overall program direction for operations. The Supervisor, Fire Operations, with the overall responsibility for the fire protection program, reports to the Superintendent, Operations Support.

Supervisor, Reactor Engineering

The Supervisor, Reactor Engineering plans and directs the Reactor Engineering section functions to ensure the reliable and efficient performance of assigned plant equipment as required by TVA policy, plant technical specifications, and federal, state, and local regulation. This manager is responsible for fuel management and special nuclear material accountability.

This position directs reactor systems and component testing activities in order to fulfill technical specification and engineering requirements and ensures resolution of test deficiencies. Conducts evaluations for reactor systems performance to identify system degradation, initiate corrective actions, and monitor their implementation.

f. Training

The Manager, Training, directs the planning, development, implementation, and evaluation of federally regulated and nationally accredited training programs to ensure sufficient qualified personnel to operate, maintain, and modify the nuclear power plant. The nuclear industry's training organization, the National Academy for Nuclear Training, is managed by INPO, the industry's self-governance organization. Through the Academy's National Nuclear Accrediting Board, all 12 applicable TVAN training programs in operations, maintenance, and technical training have been accredited. Generally, maintaining Academy accreditation is sufficient to satisfy applicable federal regulations. Even more critical than meeting external expectations is the assurance that the nuclear power plant work force has been properly trained on a task-by-task basis to perform individual and team duties in an accurate, timely, and safe manner. This position is responsible for establishing, delivering, and maintaining such performance-based personnel training programs.

# WATTS BAR NUCLEAR PLANT SITE VICE PRESIDENT

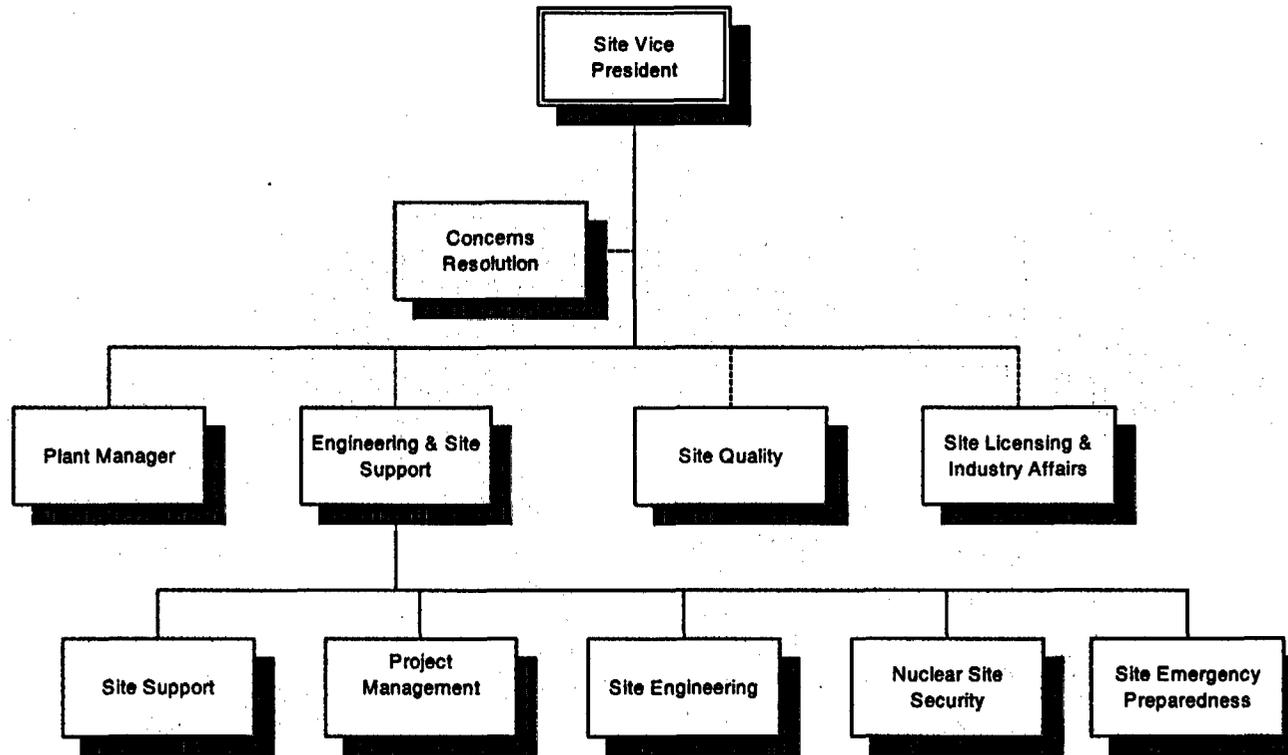


Figure 3-6

# WATTS BAR NUCLEAR PLANT PLANT MANAGER

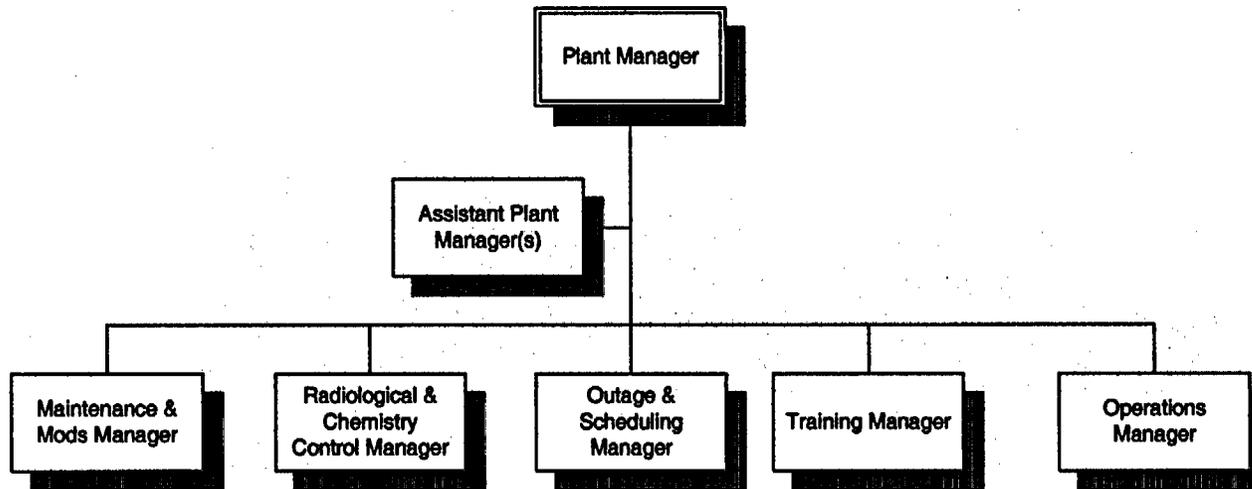


Figure 3-7

## Nuclear Support

### 4.0 Vice President, Nuclear Support (NS)

The Vice President, NS, reports to the CNO & EVP and is responsible for the general management of the Concerns Resolution Program, services/support relative to capital projects, Nuclear Business Services, and Corporate Security.

The Vice President, NS, has four principal reports and administers responsibilities through them. These principal reports are as follows:

Manager, Concerns Resolution  
Manager, Nuclear Projects/Capital Controls  
General Manager, Nuclear Business Services  
Manager, Nuclear Security (Corporate)

### 4.1 Concerns Resolution

The Manager, Concerns Resolution, is responsible for developing, coordinating, directing, and managing the Concerns Resolution Program for TVAN. This manager has full-time site representatives at the nuclear sites and the central office. Each location utilizes standard procedures, documentation, and recordkeeping and contributes to a common database of information regarding employee concerns. The Concerns Resolution Program provides employees with a means for reporting their concerns to a high-level within TVA's nuclear organization if, for any reason, the employees do not believe that their supervisors would properly respond to expressing concerns.

Concerns Resolution has direct access to the CNO & EVP on employee concerns. This provides the Concerns Resolution Program sufficient independence and freedom to ensure that concerns are properly addressed.

### 4.2 Nuclear Projects/Capital Controls

The Manager, Nuclear Projects & Capital Controls, manages an organization that implements the strong project management concepts for TVAN, manages assigned corporate nuclear projects, including the site master plan projects, develops project management standards for the entire Project Management organization, and ensures that these standards are implemented throughout the Project Management organization. This position ensures that a program is developed and implemented to prioritize the operating nuclear plant capital projects and site master plan projects. This manager also ensures that the Systematic Value Engineering criteria are implemented for all assigned projects to ensure that low-cost solutions are identified and implemented for identified problems.

#### 4.3 Nuclear Business Services

The General Manager, Nuclear Business Services, is responsible for developing, coordinating, and overseeing a strong business and fiscal management program throughout TVAN including business planning and budgeting. This manager also provides for the monitoring and reporting of TVAN goals and objectives and submits the quarterly Trend Report to the EVP & CNO that provides system performance and status.

#### 4.4 Corporate Nuclear Security

The Manager, Nuclear Security, provides overall programmatic development and implementation for the Fitness for Duty Program and security background checks.

# TVA NUCLEAR NUCLEAR SUPPORT

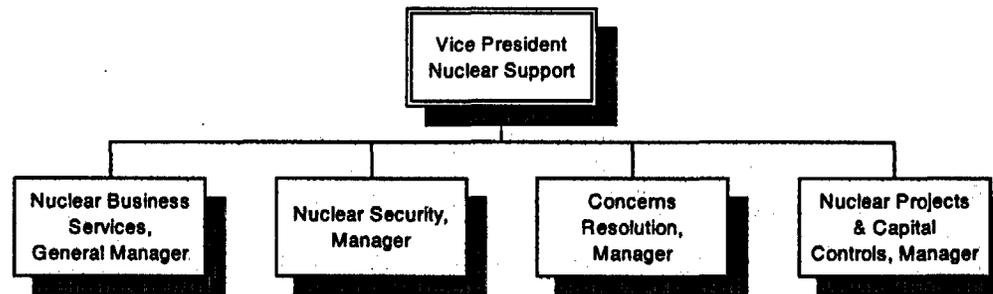


Figure 4-1