



GULF STATES UTILITIES COMPANY

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March 29, 1984

RBG- 17,449

File No. G9.5

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Mr. Denton:

River Bend Station - Unit 1
Docket No. 50-458

The River Bend Nuclear Group (RBNG) of Gulf States Utilities Company (GSU) has recently undergone a minor reorganization. Organization charts were attached to our letter of March 16, 1984 that reflected that change. This letter provides the corresponding changes to the Final Safety Analysis Report Section 13.1. These changes are identified by bold change bars in the right margin. Additionally, all changes to Section 13.1 provided in our letter of February 17, 1984 have been included such that the attached Section 13.1 is current and complete.

Sincerely,

Eddie R. Grant

for J. E. Booker
Manager-Engineering,
Nuclear Fuels & Licensing
River Bend Nuclear Group

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CHAPTER 13

CONDUCT OF OPERATIONS

13.1 ORGANIZATIONAL STRUCTURE OF APPLICANT

13.1.1 Management and Technical Support Organization

This section provides information relative to the corporate organization, its functions and responsibilities, and the number and qualifications of personnel participating in the facility design, design review, design approval, construction management, testing, and operation of River Bend Station.

13.1.1.1 Design and Operating Responsibilities

The following sections summarize the degree to which design, construction, and preoperational activities have been accomplished and describe the specific responsibilities and activities relative to technical support for operations.

13.1.1.1.1 Design and Construction Activities (Project Phase)

13.1.1.1.1.1 Principal Site-Related Engineering Work

Meteorology

A preoperational meteorological monitoring program was established at the site on December 16, 1971, to provide those meteorological factors that bear upon plant design, operation, and safety. During the first two annual cycles, the meteorological systems were calibrated by Weather Measure Corporation personnel. In March 1977 the program changed in that Teledyne-Geotech supplied new meteorological instruments. This company checks the instruments every two months. In addition, SWEC site personnel checked the instrumentation five days a week. SWEC's meteorological group reviewed data obtained via this monitoring program. The systems have since been turned over to GSU personnel with the most recent calibration by Teledyne-Geotech occurring in April 1983. The monitoring program is discussed in Section 2.3.

Geology

Prior to the initiation of construction, site and regional geological investigations were conducted by geotechnical

personnel of SWEC or by consultants retained by SWEC during the period from 1972 to 1975. During construction, all foundations were inspected and photographed. Section 2.5 provides details of these investigations.

Seismology

Consultants to SWEC were assisted by SWEC personnel in conducting geophysical surveys of the site. In particular, Dr. Clay Durham, an independent consultant, was retained to make the seismicity study and interpret seismic survey data. Section 2.5 includes more detailed information.

Hydrology

SWEC made use of the project design flood defined by the U.S. Army Corps of Engineers to estimate the probable maximum flood (PMF) from offsite areas for the River Bend Station site. Since the plant grade elevation is well above the PMF elevation of the Mississippi River, the controlling event is the potential flooding of the site due to a combination probable maximum precipitation and an operating basis earthquake (OBE). Design integrity of safety-related structures in the event of this occurrence has been assured. Flood protection is discussed further in Section 3.4.1.

Demography

SWEC consulted with the U.S. Bureau of the Census, the University of New Orleans, and Gulf South Research Institute for demographic studies relative to population within 50 mi of the plant as discussed in Section 2.1.3.

Environmental Effects

A preconstruction monitoring program was developed to enable the collection of data necessary to determine possible impact on the environment due to construction activities and to establish a baseline from which to evaluate future environmental monitoring.

A portion of this program was established to provide for a periodic review of all construction activities and to ensure that those activities conform to the environmental conditions set forth in the construction permit. Preoperational monitoring will be provided beginning at least 2 yr prior to commercial operation of Unit 1.

13.1.1.1.1.2 Design of Plant and Ancillary Systems

An evaluation of progress as of October 31, 1983, indicated overall completion of Unit 1 at 80.0 percent with 79.2 percent of the construction completed. Activities are planned in accordance with a fuel load in April 1985 for Unit 1. Commercial operation for Unit 2 is not scheduled at this time.

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13.1.1.1.1.3 Review and Approval of Plant Design Features

Design control and review of safety-related systems, components, and structures was performed in accordance with the Construction QA Program.

During the construction phase, the implementation of design control has been delegated to General Electric Company for the NSSS and to Stone & Webster Engineering Corporation for the BOP. While GSU does not design any safety-related components, the Project Engineer is responsible for review, analysis, and comment on proposed design changes or modifications. This design review is accomplished through written procedures in accordance with the QA Program. In addition, the Project Manager directs GSU interfaces with GE and SWEC Engineering, as well as arranging the necessary support for the construction process. Design control as applied to fire protection requires input from a qualified fire protection engineer.

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13.1.1.1.1.4 Site Layout with Respect to Environmental Effects and Security Provisions

The shield, turbine, radwaste, and auxiliary buildings have portions of their structures below station grade, thus giving a low profile to the station. The grounds in the immediate vicinity of the plant buildings will be attractively landscaped. Undisturbed portions of the site will be allowed to remain in their natural state, with provisions having been made for management of wildlife.

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Security provisions in accordance with applicable NRC regulations were incorporated into the overall site layout as described in Section 13.6.

13.1.1.1.1.5 Development of Safety Analysis Reports

Overall responsibility for preparation and updating of the FSAR rests with the GSU nuclear licensing section. Preparation of the individual sections was assigned to the cognizant technical groups within GSU, or to SWEC for

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balance of plant systems and GE for NSS systems.

13.1.1.1.1.6 Review and Approval of Material and Component Specifications

Safety-related project specifications were reviewed in accordance with the construction phase quality assurance program.

13.1.1.1.1.7 Procurement of Materials and Equipment

Procurement of safety-related materials, equipment and services is accomplished in accordance with construction phase QA programs.

Efficient procurement procedures and instructions are established to provide for plant needs in accordance with established GSU Quality Assurance and corporate requirements. Measures have been taken through revision of the GSU Corporate Purchasing Policy to ensure that procurement for nuclear requirements occurs under Quality Assurance policies and procedures.

The Manager-Engineering, Nuclear Fuels, and Licensing is responsible for nuclear fuel procurement. This responsibility has been delegated to the Supervisor-Nuclear Fuels and his staff, which develops contracts regarding nuclear fuel procurement. During construction, the remainder of contract management is the responsibility of the Project Manager. The Project Manager's duties include directing the monitoring of contracts and the procurement efforts required for the construction of River Bend Station.

13.1.1.1.1.8 Management and Review of Construction Activities

Commencing with the start of site preparation in September 1975, the following review activities have been performed at the construction site by the GSU construction group.

1. The River Bend Project Manager delegates authority to a staff that has technical and administrative competence in Engineering; Contract Management; Accounting, Cost, and Scheduling; and Startup. During the construction phase, he reports to the Vice President - River Bend Nuclear Group.
2. The River Bend Project Engineer delegates authority to a staff that has technical competence in nuclear, electrical, mechanical, and

Insert for Page 13.1-4

During operations, the remainder of contract management is the responsibility of the Vice President - Administration. The Vice President - Administration duties include procurement and accounting required for the operation of River Bend Station.

civil/structural matters. During the construction phase, he reports to the Project Manager. In addition, General Electric has been delegated the responsibility for the design and procurement of the NSSS and nuclear fuel; and Stone & Webster Engineering Corporation has been delegated the responsibility for the design and procurement of the BOP.

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3. Cost and scheduling personnel monitor the contractor's cost and schedule performance to keep the GSU construction group informed of project status.

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4. The GSU Director of Contract Management has monitoring responsibility for all onsite construction activities performed by SWEC and other contractors to ensure compliance with contractual obligations.

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5. The Director - Accounting, Cost, and Scheduling has a staff of analysts and engineers that evaluate and control the construction costs and scheduling problems. This person reports to the River Bend Project Manager.

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13.1.1.1.2 Preoperational Activities

13.1.1.1.2.1 Development of Human Engineering Design Objectives and Design Phase Review of Proposed Control Room Layouts

The human engineering design objectives were developed jointly with GSU headquarters personnel, SWEC, and GE.

Features pertinent to making the main control room an environment conducive to shift operations include: the use of consistent color schemes providing visual relief and instrumentation coordination; floor layering yielding noise abatement; and lighting that minimizes strobing effects and operator disorientation (which can be caused with neon lamps).

The main control room control center area was arranged to be efficient in operation. Every effort was made to ensure compatibility of all indicating and alarm systems for ease of operator interface. Instrumentation was arranged to minimize personnel interference with control system dynamics and to provide ease of maintenance and calibration.

Several design features were implemented that improve the man-machine interface.

1. Control panels were placed for greater ease in control and panel-mounted indicators that provide the best readability were obtained.
2. Control display arrangement was designed to allow the operator to distinguish immediately the primary device from some auxiliary.
3. The use of color CRTs in a limited graphics mode increases operator comprehension and information access.
4. Uniformity of panel-mounted consoles provide for better recirculation control system operability.
5. Design includes features for ready location of faulty component control devices.

13.1.1.1.2.2 Development and Implementation of Staff Recruiting and Training Programs

The training programs to be utilized for this facility are described in Section 13.2. These programs are being implemented in accordance with the schedule indicated in that section. Recruiting of personnel to fill positions is currently taking place. The organization dedicated to Unit 1 operation is scheduled to be filled by April 1985. A position on Regulatory Guide 1.8, Personnel Selection and Training, is presented in Section 1.8.

13.1.1.1.2.3 Development of Plans for Initial Testing

The GSU River Bend Station (RBS) Startup and Test Superintendent and his staff have responsibility for all aspects of the River Bend Station startup and test program. The scope of testing to be accomplished during the test program was defined by this group. This included defining the boundaries of the systems to be tested so that a clear interface could be established where systems overlapped. Effort was expended towards defining the manpower and material requirements required by the startup and test program (Chapter 14).

A conceptual plan for RBS-1 was prepared and approved by GSU. This plan details the GSU startup organization and presents manpower estimates for the testing sequences.

Administrative controls for the test program have been detailed and agreed upon, and an overall schedule for RBS-1 startup program was finalized in December 1982.

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The startup manual contains a general description of organizational responsibilities and of SWEC and GE interfaces regarding the startup program. Procedures for writing, reviewing, and implementing tests are given. Preoperational and initial test program policies are stated and the responsibilities of the Facility Review Committee (FRC) and Joint Test Group (JTG) are delineated regarding the performance of reviews. Startup procedure preparation has begun and will continue throughout the startup program. Preoperational, startup and test programs will incorporate operational staff as discussed in Section 13.2.1.2. The experience gained provides an improved working knowledge of the systems, components, and equipment at RBS.

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13.1.1.1.2.4 Development of Plant Maintenance Programs

The maintenance programs are organized to ensure efficient maintenance while maintaining radiation exposure as low as is reasonably achievable. The organization of the resident maintenance forces is described in Section 13.1.2. The mechanics, electricians, and technicians report through their respective supervisors to the general maintenance supervisor. RBS will employ qualified and experienced maintenance personnel prior to the initial fuel loading.

The RBS maintenance program ensures the safety of the public and plant personnel, provides reliable equipment, and satisfies the requirements of the regulatory agencies having jurisdiction. Those structures, systems, and components that prevent or mitigate the consequences of postulated accidents are maintained in accordance with the quality assurance program promulgated by GSU.

The maintenance staff is sized to perform the routine and preventive maintenance work load. The station staff is supplemented as necessary by GSU maintenance crews and outside contractors. Maintenance and repairs of safety-related equipment are performed under the direction of cognizant supervisors and in accordance with accepted procedures and work practices.

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The scope and frequency of the preventive maintenance is based on past experience with similar equipment, engineering judgment, and the manufacturer's recommendations. Suitable records are kept to establish, at the minimum, the maintenance history of major safety-related equipment.

Maintenance and repairs of safety-related equipment will be performed in accordance with written maintenance instructions, operating instructions, station and division orders, vendor technical manuals, and applicable codes and regulations. Except for emergencies, all maintenance work is preplanned.

11 The responsibility for development of Plant Maintenance Programs lies with Plant Staff. Recommendation for creating, modifying, or removing any programs or procedure which affect Plant Maintenance must be reviewed by the General Maintenance Supervisor, Assistant Plant Manager-Operations, and the Facility Review Committee for forwarding to the Plant Manager for final approval. Should changes affect either design or operation, the Technical Staff and/or Nuclear Plant Engineering are notified for proper review and approval. During startup, any tests or experiments requiring changes to existing or proposed maintenance programs or procedures are reviewed by the Superintendent-Startup and Test and the General Maintenance Supervisor for resolution of potential problems.

13.1.1.1.3 Technical Support for Operations

INSERT 1 Technical support for plant operations has been established and is in effect for RBS. Refer to Fig. 13.1-1 for the construction organizational structure and Fig. 13.1-2 for the operations organizational structure. The Engineering, Nuclear Fuels, and Licensing department provides technical support to RBS for the life of the plant (see Fig. 13.1-4). Safety-related design work for RBS is the responsibility of the Manager-Engineering, Nuclear Fuels, and Licensing. Performance of safety-related design work is delegated to the Director-Nuclear Plant Engineering and his staff (both onsite and offsite) with additional input available from Plant Staff or outside consultants. This safety-related design work, i.e., configuration management including drawing control (see Sections 13.1.2 and 17.2.5), is accomplished in accordance with procedures which have been reviewed by the Director-QA or his designee. Departmental procedures reflect applicable regulatory requirements and stipulate proper preparation, review, approval and verification.

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The Nuclear Licensing section coordinates and effects official communications with the NRC staff, develops documentation concerning the station facility licenses and permits, and provides recommendations on regulatory issues.

Insert 1 for Page 13.1-8

organization of River Bend Station's Corporate Structure,

Insert 2 for Page 3.1-8

organization of River Bend Station's Plant Administrative Structure, and Fig. 13.1-6 for organization of River Bend Station's Plant Operations Structure.

The Emergency Planning section directs the preparation of the necessary emergency plans for RBS to assure that the federal, state, and local regulatory requirements for licensing and operating the nuclear generating facility are met in a timely fashion.

The Nuclear Fuels section coordinates, monitors, and directs (1) GSU contracts and activities for procurement, conversion, enrichment, and fabrication of uranium fuels; (2) spent fuel, high level, and low level waste disposal programs; (3) material safeguards programs; and (4) incore fuels management programs.

1a The Power Plant Engineering and Design Group (supporting GSU's fossil plants) is an inhouse organization available to the River Bend Nuclear Group (Fig. 13.1-3). Whenever additional expertise or resources are required, GSU's Power Plant Engineering and Design Group or outside consultants are contacted.

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Since GSU has only one nuclear project, the River Bend Nuclear Group (RBNG) was formed to concentrate the company's expertise on RBS. Therefore, there are no plans for offsite technical support in the areas of chemistry/radiochemistry, health physics, and fueling and refueling operations support. It is GSU's contention that these areas are capably handled by the onsite organization as delineated in Section 13.1.2. However, the Department of Nuclear Plant Engineering does have technical staff available for input in these areas as required. This support is available on an individual-problem area basis as specified by the Director-Nuclear Plant Engineering.

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13.1.1.2 Organizational Arrangement

13.1.1.2.1 General

RBS Fig. 13.1-1 depicts an organization chart for the Corporate Structure; Fig. 13.1-2 depicts an organization chart for Plant Operations; Fig. 13.1-3 depicts an organization chart for Project Management present only during construction; Administration for Project Management present only during construction; offsite Fig. 13.1-4 depicts an organization chart for additional technical support; and Fig. 13.1-5 depicts an organization chart for unit shift staffing of Unit 1 during operations;

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GSU is committed to providing the necessary fire protection for RBS during construction, startup, and operation. Administrative controls and procedures exist which ensure safe, reliable activities at RBS. Additional details regarding fire protection at River Bend Station can be found

Insert 1 for Page 13.1-9

The Department of Technical Services provides operational drawing support to River Bend Nuclear Group when requested.

Insert 2 for Page 13.1-9

in these areas within the Department of Nuclear Plant Engineering on an individual-problem area basis, or available within other departments such as Emergency Planning and Nuclear Fuels. In addition, outside consulting organizations are available to support Nuclear Plant Engineering if required.

Insert 3 for Page 13.1-9

and Fig. 13.1-6 depicts an organizational chart for the Plant Operations Structure.

11 | in FSAR Section 9.5.1 and Appendices 9A and 9B.

13.1.1.2.²₆ Senior Vice President - River Bend Nuclear Group

The ultimate responsibility for design, procurement, construction, testing, quality assurance, and operation of RBS rests with the Senior Vice President-River Bend Nuclear Group who reports to the Chairman of the Board. During the construction phase, the Senior Vice President-River Bend Nuclear Group delegates authority to the Vice President-River Bend Nuclear Group.

13.1.1.2.³₆ Vice President - River Bend Nuclear Group

11 | The Vice President-RBNG assists the Senior Vice President-RBNG with the executive direction and coordination of the RBNG. The Vice President-RBNG delegates authority to the Vice President-Nuclear Operations, the Project Manager, and the Manager-Engineering, Nuclear Fuels and Licensing who, with their respective staffs, provide technical support for plant design and construction.

13.1.1.2.⁴₆ Vice President - Nuclear Operations

INSERT 2 | The Vice President-Nuclear Operations reports to the Vice President-RBNG. He is responsible for developing and
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INSERT 3 | maintaining an efficient operations staff and supporting
INSERT 4 | programs. Assistance is provided as indicated on Fig. 13.1-2. His principal accountabilities are as follows:

11 | 1. Ensure that the River Bend Station has adequate
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INSERT 5 | staffing to successfully perform operations, maintenance, and protection functions.

2. Direct the management of documentation and records management functions in compliance with regulatory requirements.

3. Direct the development of procedures and procedure manuals for all operating functions and activities and ensure the verification of procedures.

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INSERT 6 | 4. Ensure the procurement and development of qualified staff to meet the project's needs during development and eventual operation.

5. Ensure that regulatory requirements imposed by NRC and other agencies are implemented.

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Administration, The Plant Manager

Insert 2 for page 13.1-10

Administration

Insert 3 for Page 13.1-10

The functions of emergency preparedness, site security, training, environmental monitoring, office services, records, procurement and accounting.

Insert 4 for Page 13.1-10

during operations

Insert 5 for Page 13.1-10

a properly trained and qualified, contract security force required to implement and maintain the RBS Physical Security Plan.

Insert 6 for Page 13.1-10

Ensure the necessary environmental monitoring programs to meet the plant's needs during construction and operation.

Emergency

Preparedness

6. Direct the operations staff of the River Bend Station facility.
7. Direct contract management and procurement of materials, equipment, and services excluding nuclear fuel.
8. Direct Nuclear Training which plans, administers, and documents all nuclear-related training required for the startup and operation of River Bend Station.

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- 13.1.1.2. ⁵~~1.4~~ Manager-Engineering, Nuclear Fuels and Licensing

Construction Organizational Structure

The Manager-Engineering, Nuclear Fuels and Licensing, is responsible for the administration of the Nuclear Licensing, Emergency Planning, Nuclear Fuels, and Nuclear Plant Engineering Sections. His supervision ensures that the necessary licenses are obtained in compliance with pertinent regulations; emergency plans are adequate, effective, and up-to-date to ensure the safety of the public and plant personnel; nuclear fuel procurements are made to support schedules; in-core fuel management programs are adequate; and engineering support for design, construction, and operations is available and commensurate with the changing needs of RBS. His principal duties include:

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1. Directly prepare and submit all supportive data for RBS nuclear licenses and permits and specifically assure the collation and submission of data to support the application for the operating license.
2. Review and analyze proposed design changes (specifications and drawings) of the plant to ensure that the design meets GSU corporate requirements and the requirements of regulatory criteria (10CFR50.59, etc) and industry concerns. This includes investigation and suggestion of alternative designs if there is concern with the existing or proposed design.
3. Interface with other RBNG and parent GSU departments to assure availability of technical information, to project internal cost estimates and schedules, and to assure compliance with regulatory agency requirements and GSU policies.

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13.1.1.2.1.3.1 Director - Nuclear Training

The Director - Nuclear Training is responsible for the development, administration, and implementation of the nuclear training program to candidates for both licensed and non-licensed positions, as well as the training program for the remainder of the River Bend Station Staff and River Bend Nuclear Group personnel. He is also responsible for a full-scope, plant-referenced simulator used in the RO/SRO training courses. See Section 13.2 for a further description of the RBS Training Program.

13.1.1.2.1.3.2 Plant Manager

The Plant Manager is responsible for the overall safe, reliable, and efficient operation of River Bend Station; responsible for maintaining compliance with the requirements of the operating license and technical specifications; responsible for maintaining a properly trained and licensed operating staff; and responsible for maintaining River Bend Station security. Additional discussion is contained in Section 13.1.2.2.1.

13.1.1.2.1.3.2 Director - Support Services

The Director - Support Services is responsible for Records Management such that sufficient records shall be maintained in accordance with 10CFR50 Appendix B, Criterion 17 and Document Control such that issuance of documents (instructions, procedures, and drawings) is in accordance with 10CFR50 Appendix B, Criterion 6; responsible for the procurement process from receipt of an approved purchase requisition to the receipt of the purchased item at the plant, including the collection of all applicable documentation; responsible for originating and maintaining out-of-plant procedures, including the review, comment, and approval of new or revised out-of-plant procedures; and, responsible for plant budgeting, accounting, and office administration.

Insert for Page 13.1-11 (cont'd.)

13.1.1.2.1.3.3 Plant Manager

The Supervisor - Emergency Planning is responsible for developing a satisfactory emergency response plan for RBS that meets regulatory requirements to support the operating license application, and ensure such a plan remains up-to-date and cognizant of regulatory requirements. He is also responsible for the interfaces between local and state emergency response programs.

13.1.1.2.1.3.4 Plant Security Supervisor

The Plant Security Supervisor is responsible for the conduct and content of security programs. He is also responsible for a contracted security guard force which implement and maintain the RBS Physical Security Plan.

13.1.1.2.1.3.5 Environmental Supervisor

The Environmental Supervisor is responsible for the development and direction of the environmental programs at River Bend Station. These programs will ensure regulatory compliance and fulfillment of licensing commitments. The Environmental Supervisor is responsible for the preparation or review of all environmental reports. These include the Radiological Environmental Operating Reports, quarterly Discharge Maintaining Reports, Manifest Quarterly Reports and reports and letters associated with hazardous waste management requirements and the National Pollutant Discharge Elimination System. He also directs a staff and contractors engaged in environmental studies, sampling, and analyses.

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During construction, he is also responsible for developing emergency plans which ensure the safety of the public and plant personnel, and meet GSU, NRC, state and local criteria. At the time of fuel load, the responsibility for emergency planning is transferred to the Vice President - Administration.

RBS FSAR

- 11 | 4. Maintain appropriate GSU corporate interface with the NRC and appropriate state and local officials.
- 11 | 5. Develop a satisfactory emergency response plan for RBS that meets regulatory requirements to support the operating license application and to ensure that such a plan remains up-to-date and cognizant of regulatory requirements.
- During the construction phase,
- 11 | 6. Develop and assist local (parish) emergency response programs and assist and interface with analogous state (Louisiana and Mississippi) groups to meet regulatory requirements.
- 11 | 7. Coordinate, manage, and monitor contracts and activities for the procurement, conversion, enrichment, and fabrication of uranium fuels for RBS to meet the schedule of first core fuel loading by April 1985, to meet reload schedules as required, and to minimize financial impact on GSU.
- 11 | 8. Develop nuclear fuel safeguards and incore fuel management programs.
- 11 | 9. Develop programs for disposal of spent fuels and high level wastes that will meet agency requirements and minimize GSU expenditures.
- 11 | 10. Direct the analysis of potential safety problems which may need to be reported to the NRC as significant deficiencies (as defined by 10CFR50.55(e)) or substantial safety hazards (reportable under 10CFR21).
- 11 | 11. Review analyses pertinent to safety as conducted in response to issues that raise regulatory and industry concern.
- 11 | 12. Coordinate and oversee technical support from the corporate engineers.
- 11 | 13. Oversee the yearly FSAR updates and other license documents.

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13.1.1.2. 1.5⁶ Project Manager

11 | During the construction phase, the Project Manager assists the Vice President-RBNG through the direction and coordination of four areas: 1) Accounting, Cost and Scheduling, which involves managing monies and schedules to

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13.1.1.2.1.4.1 Director - Nuclear Plant Engineering

The Director - Nuclear Plant Engineering (NuPE) is responsible for the Mechanical, Electrical, and Nuclear Sections of Nuclear Plant Engineering and all changes to the design of equipment/systems during operation. He is also responsible for engineering support during design, construction, and operations such that RBS meets GSU corporate requirements, regulatory criteria, and industry concerns. The Independent Safety Engineering Group reports to the Director - NuPE on technical matters providing on-site, technical expertise and independent assessment of plant activities. In addition, the Director - Loss Prevention provides technical support in the area of Fire Protection as a consultant; the Department of Power Plant Engineering and Design provides technical support and the Department of Technical Services provides drawing support when requested; or outside consultants are contacted.

13.1.1.2.1.4.2 Director - Nuclear Licensing

The Director - Nuclear Licensing coordinates and effects official communications with the NRC Staff and appropriate state and local officials. Develops supporting documentation concerning the station facility licenses and permits, and provides recommendations on regulatory issues. In addition, the Director - Nuclear Licensing is responsible for preparation and updating of the Final Safety Analysis Report and the Environmental Report and analysis of potential safety problems which may be reported to the NRC as significant deficiencies (10CFR50.55(e) or 10CFR21).

13.1.1.2.1.4.3 Supervisor - Emergency Planning

Until fuel load, The Supervisor - Emergency Planning is responsible for developing a satisfactory emergency response plan for RBS that meets regulatory requirements to support the operating license application, and ensure such a plan remains up-to-date and cognizant of regulatory requirements. He is also responsible for the interfaces between local and state emergency response programs.

13.1.1.2.1.4.4 Supervisor - Nuclear Fuels

The Supervisor - Nuclear Fuels is responsible for developing and monitoring the contracts and activities for the procurement, conversion enrichment and fabrication of uranium fuels for RBS first core and subsequent reloads, as well as execution and management of the DOE Spent Fuel and/or High Level Waste Disposal contract. In addition, the Supervisor - Nuclear Fuels is designated the "Nuclear Materials Manager" and is also responsible for the development and application of in-core fuels management programs.

reports to the Manager - Engineering, Nuclear Fuels,
and Licensing and

ensure that River Bend Station is completed on schedule and budget; 2) Contract Management, which entails monitoring contracts and procurement for the station; 3) Project Engineering, which is responsible for directing the A/E and GSU engineering and construction activities, and; 4) Startup and Test, which includes preparation of procedures and startup and testing activities. His principal activities include:

1. Coordinating, accounting, budgeting, and scheduling activities to ensure adequacy of cost records and accomplishing completion of the River Bend Nuclear Station on schedule and within budgetary constraints.
2. Directing the monitoring of contracts and the procurement effort required for the construction of the River Bend Nuclear Station.
3. Directing the A/E and GSU engineering effort to ensure implementation of the plant design and arranging the necessary support of the design and construction process.
4. Ensuring the development of plans and procedures to accomplish objectives of the startup and test phase of the project and directing the startup and test program.

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13.1.1.3 Qualifications of Headquarters Staff

13.1.1.3.1 General

Members of the headquarters staff (personnel in the Engineering, Nuclear Fuels, and Licensing Departments) available for the technical support of RBS possess the education, experience, and skill that provide reasonable assurance that decisions and actions during the design, procurement, construction, testing, quality assurance, and operation of RBS do not constitute a hazard to the health and safety of the public.

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The Nuclear Review Board (NRB), responsible for independent reviews, primarily has members who are not directly responsible for plant operations. Membership in the NRB shall require a bachelor's degree in engineering or the physical sciences (or equivalent experience) as appropriate, and 3 yr of professional level experience in the field of his specialty. More details on the NRB can be found in Sections 13.4 and 16.6.5.2.

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13.1.1.2.7 Plant Manager

The Plant Manager is responsible for the overall safe, reliable, and efficient operation of River Bend Station; responsible for maintaining compliance with the requirements of the operating license and technical specifications; responsible for maintaining a properly trained and licensed operating staff; and responsible for maintaining River Bend Station security. Additionally discussion is contained in Section 13.1.2.2.1.

The educational background and experience of the headquarters staff meet or exceed the criteria presented in ANSI/ANS-3.1-1978. The qualifications for nuclear plant personnel are described in Section 13.1.3.

13.1.1.3.2 Resumes

The resumes of key headquarters personnel providing technical assistance for the construction and operation of RBS are presented in Appendix 13A.

13.1.2 Operations Organization

The operation of RBS is under the responsibility and authority of the Plant Manager.

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RBS instructions, procedures, and drawings used by the operation staff are reviewed by the QA Department in accordance with the GSU OQA Manual. Further discussion of drawing control is addressed in Section 17.2.5.

13.1.2.1 Plant Organization

The plant organization for RBS-1 is shown in Fig. 413.1-2. The number of personnel necessary to support plant operations and those plant positions requiring NRC licenses are indicated in this figure. The functional positions in Fig. 13.1-2 will be filled by the time of initial fuel loading. When additional personnel are required to augment the normal crews during outages, GSU plans to have plant personnel work overtime and use consultants and contractor personnel to handle the additional work load. Where the number of personnel in a duplicate position is increased for the second unit, these positions will be filled prior to the initial fuel loading of Unit 2.

13.1.2.1.1 Operations Section

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The operations section is responsible for fuel loading, startup, operation, and shutdown of all station equipment. It also provides the nucleus of the emergency and fire-fighting teams. The operations section is under the responsibility and authority of the Operations Supervisor who reports to the Assistant Plant Manager-Operations.

The minimum shift crew is shown in Fig. 13.1-4. In addition, at least one radiation protection technician, one chemistry technician, and one test technician - nuclear are on duty at all times.

Plant management and technical support is present or on call at all times. This shift composition provides adequate manpower to cover operating contingencies which can reasonably be expected to occur, and if necessary, implement the Emergency Plan. Additional operating personnel will be added for Unit 2 operation.

13.1.2.1.2 Maintenance Section

The maintenance section is responsible for all mechanical, electrical, and I&C maintenance activities in the plant. The maintenance section is under the responsibility and authority of the General Maintenance Supervisor, who reports to the Assistant Plant Manager-Operations. The maintenance section also provides trained personnel and supervision to perform the tasks related to supplies and spare parts for the plant.

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13.1.2.1.3 Radiation Protection/Chemistry Section

The radiation protection section is responsible for establishing and implementing the RBS radiation protection program and is responsible for the sampling and analysis of plant fluid systems. This includes ensuring that radiation exposure is kept as low as reasonably achievable (ALARA) and within the guidelines of 10CFR20. This section also ensures that all plant staff, contractors, and visitors to RBS have received proper radiation training and are monitored for radiation in accordance with the Radiation Protection Manual and NRC regulations. This section certifies that all radioactive material meets DOT, NRC, and receiver requirements prior to being removed from RBS.

11

The radiation protection/chemistry section is under the responsibility and authority of the Radiation Protection/Chemistry Supervisor, who reports to the Assistant Plant Manager-Operations.

11

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13.1.2.1.4 Site Chemistry and Radiochemistry Section

The site chemistry and radiochemistry section is responsible for the sampling and analysis of plant fluid systems. This section is under the responsibility and authority of the Supervisor Site Chemistry and Radiochemistry, who reports to the Assistant Plant Manager.

13.1.2.1.5 Technical Staff Section

The technical staff section is responsible for all plant and reactor engineering activities at the plant. This section

is also responsible for technical support, plant systems engineering, instrumentation and control engineering, surveillance and outage planning, performance, reliability, and compliance and fire protection. This section is under the direction of the Technical Supervisor, who reports to the Assistant Plant Manager-Services.

13.1.2.1.6 Administrative Section

The administrative section maintains the plant records and document control system and provides a procurement function and various administrative and clerical services to the plant staff. This section is under the direction of the Administrative Supervisor, who reports to the Assistant Plant Manager-Services.

13.1.2.1.6 Security Section

A contracted security force of properly trained and qualified personnel implement and maintain the RBS Physical Security Plan. This force is under the direction of the Plant Security Supervisor, who reports to the Assistant Plant Manager-Services.

13.1.2.2 Plant Personnel Responsibilities and Authorities

The functions, responsibilities, and authorities of key supervisory and technical positions in the RBS organization are briefly described in the following sections. Detailed job descriptions for these positions have been prepared in accordance with ANSI/ANS-3.1-1978, Selection and Training of Nuclear Power Plant Personnel.

13.1.2.2.1 Plant Manager

The Plant Manager has overall responsibility for the safe, reliable, and efficient operation of the plant and training of the staff. He is responsible for maintaining compliance with the requirements of the operating license and technical specifications. It is his responsibility to maintain a staff of properly trained and licensed personnel to accomplish all the various plant functions. He reports directly to the Vice President Nuclear Operations RBNG.

The Plant Manager is responsible for the security of River Bend Station and has the authority to direct any action to ensure that security is adequate and properly maintained. FSAR Sections 13.3.3.3 and 13.3.3.4 further describe station security management responsibilities and chain-of-command, with Fig. 3.3-1 of the Physical Security Plan illustrating

RBNG management structures and Fig. 3.3-2 showing site security structure.

The Plant Manager issues plant administrative procedures which clearly define the responsibilities and authorities of key plant personnel.

In the absence of the Plant Manager, his responsibilities are assumed by the Assistant Plant Manager-Operations.

13.1.2.2.2 Assistant Plant Managers

The Assistant Plant Managers report to the Plant Manager. They exercise managerial responsibility for the safe and efficient operation and maintenance of RBS. They have been trained to a level commensurate with a Senior Reactor Operator or have been previously certified or licensed as an SRO on a BWR power plant.

The following section heads report to the Assistant Plant Manager-Operations:

1. Operations Supervisor
2. General Maintenance Supervisor
3. Radiation Protection/Chemistry Supervisor

In the absence of the Assistant Plant Manager-Operations, his responsibilities are assumed by the Operations Supervisor or another designated individual.

The following section heads report to the Assistant Plant Manager-Services:

- Staff
1. Technical Supervisor
 2. Plant Security Supervisor
 - 2 [3]. Administrative Supervisor

In the absence of the Assistant Plant Manager-Services, his responsibilities are assumed by the Technical Supervisor or another designated individual.

Administrative

13.1.2.2.3 Operations Supervisor

11 | The Operations Supervisor, an SRO, is responsible for the actual day-to-day operation of the plant, including the radwaste system. He reports to the Assistant Plant Manager-Operations. He supervises a group of approximately 48 operators and 14 supervisors including the Radwaste Foreman. The Operations Supervisor is responsible for issuing special orders to shift operations personnel.

11 | In the absence of the Operations Supervisor, his responsibilities are assumed by the Assistant Operations Supervisor.

13.1.2.2.4 Assistant Operations Supervisor

11 | The Assistant Operations Supervisor, an SRO, functions as the Operations Supervisor's Senior Shift Supervisor and is qualified to assume the Operations Supervisor's responsibilities and duties if necessary.

13.1.2.2.5 Shift Supervisor

11 | The Shift Supervisor, an SRO, is responsible to the Operations Supervisor for all activities relating to station operation and safety during his assigned shift. This responsibility includes compliance with applicable license and regulatory requirements, and the safety of plant personnel and equipment. In the event of an accident or emergency, the Shift Supervisor is responsible for determining the severity of the situation and directing the actions of the shift personnel until he is relieved. The Shift Supervisor has the responsibility to shut down the plant if, in his judgment, conditions warrant this action. There is one Shift Supervisor assigned to each shift, representing the senior management individual on shift, and is onsite, in the main control room, when fuel is being moved or loaded.

13.1.2.2.6 Control Operating Foreman

11 | The Control Operating Foreman, an SRO, monitors and manipulates the reactor controls, directs all core alterations, and directs the activities of the Nuclear Control Operators and Nuclear Equipment Operators. He reports to the Shift Supervisor and has the authority and responsibility to shut down the plant if, in his judgment, conditions warrant this action. There is at least one Control Operating Foreman assigned to each shift. The Control Operating Foreman will be the Fire Brigade Leader on

his assigned shift. FSAR Section 9B.4.8 describes fire brigade size and membership. Administrative provisions exist so that in the event that the Control Operating Foreman is temporarily acting as the Shift Supervisor at the time a fire breaks out, the Shift Supervisor or Assistant Operations Supervisor is notified immediately, thus allowing the Control Operating Foreman to assume his duties as Fire Brigade Leader.

11

13.1.2.2.7 Nuclear Control Operator

The Nuclear Control Operators, under the direction of the Control Operating Foreman or the Shift Supervisor, monitor and manipulate the reactor controls as well as other controls and plant auxiliary equipment. There are normally three Nuclear Control Operators assigned to each shift and at least one in the main control room at all times.

11

INSERT

13.1.2.2.8 Nuclear Equipment Operator

The Nuclear Equipment Operators, under the direction of the Control Operating Foreman or Shift Supervisor, operate the plant auxiliary equipment and the radwaste system. There are normally four Nuclear Equipment Operators assigned to each shift. They are non-licensed personnel.

13.1.2.2.9 General Maintenance Supervisor

The General Maintenance Supervisor is responsible for overall direction of electrical maintenance, mechanical maintenance, instrumentation and control maintenance, and spare parts supply at RBS. He reports to the Assistant Plant Manager-Operations and is responsible for compliance with technical specifications relating to maintenance. The General Maintenance Supervisor provides maintenance expertise and directs the work of the Mechanical Maintenance Supervisor, Electrical Maintenance Supervisor, Instrumentation and Controls Supervisor, Maintenance and Planning Coordinator, and the Building and Grounds Foreman.

11

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Insert for Page 13.1-19

A Nuclear Control Operator, an RO, will be the Fire Brigade Leader on his/her assigned shift. Section 9B.4.8 describes fire brigade size and membership.

13.1.2.2.10 Instrumentation and Controls Supervisor

The Instrumentation and Controls Supervisor reports to the General Maintenance Supervisor and is directly responsible for all work performed by instruments and controls (I&C) foreman and technicians to maintain and/or repair any instruments or controls. His duties include coordination, development, and administration of the I&C section and personnel; development, scheduling, implementation, and review of appropriate procedures with proper record control; conformance to RBS OQA/QC Program; and adherence to RBS Operating Manual and Applicable I&C Technical Specifications.

13.1.2.2.11 Radiation Protection/Chemistry Supervisor

The Radiation Protection/Chemistry Supervisor is responsible for the management of the RBS radiation protection program, the direction of all radiation protection department personnel, and directing the sampling and analysis of plant fluid systems as well as evaluating and reporting the results. He supervises the radiation, environmental, and personnel monitoring programs, the ALARA program, the respiratory protection program, and the whole body counting program. He ensures that adequate radiation protection training has been given to all plant staff and emergency team members and that they have completed training and medical qualifications prior to working in radiation areas.

The Radiation Protection/Chemistry Supervisor reports to the Assistant Plant Manager-Operations, but has direct access to the Plant Manager on all radiation protection matters. The normal backup to the Radiation Protection/Chemistry Supervisor is the Radiation Protection Supervisor. The qualifications of this individual are provided in Section 13.1.3.2.

13.1.2.2.12 Technical Supervisor

Staff The Technical Supervisor reports to the Assistant Plant Manager-Services and is responsible for directing all plant systems, engineering, performance evaluation, technical support, and instrumentation and controls engineering at the plant. He directs the work of the Performance Supervisor, Process Systems Supervisor, Supervisor Computer Systems, Control Systems Supervisor, and Reactor Engineering Supervisor.

Staff The Technical Supervisor also has the responsibility for development of the fire protection program, including

Insert for Page 13.1-20

The Assistant Plant Manager - Services

assisting in the development of the fire protection-related training program and maintaining, inspecting, and testing of all fire protection equipment (see Section 9A.3.2.1 for additional discussion).

11

13.1.2.2.13 Operational Quality Assurance Supervisor

The OQAS has direct responsibility for assuring implementation of the GSU QA program at RBS. He reports directly to the Director, QA, and maintains a working interface and communication with the Plant Manager as described in Section 17.2.

13.1.2.2.14 Administrative Supervisor

The Administrative Supervisor reports to the Assistant Plant Manager-Services and directs the activities of the plant clerical staff. He directs the work of the Clerical Section Head, the Materials Supervisor, and the Budget Analyst.

13.1.2.2.15 Security Supervisor

11

The Security Supervisor reports to the Assistant Plant Manager - Services and is responsible for the conduct and content of security programs. A contracted security force of properly trained and qualified personnel implement and maintain the RBS Physical Security Plan.

13.1.2.2.16 Contingency Responsibilities

15

During normal plant operations, the Plant Manager is responsible for overall plant operation. In the event of unexpected contingencies of a temporary nature, the following persons will be responsible in the order listed for all plant activities.

1. Plant Manager
2. Assistant Plant Manager-Operations
3. Operations Supervisor
4. Assistant Operations Supervisor
5. Shift Supervisor.

11

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13.1.2.3 Operating Shift Crews

During normal operations, the licensed shift complement consists of one Shift Supervisor, holding a senior reactor operator license; one Control Operating Foreman, holding a senior reactor operator license; three Nuclear Control Operators, holding reactor operator licenses. In addition, each shift will include four nuclear equipment operators who are nonlicensed operators. There is also a qualified Radiation Protection Technician assigned to each shift to implement the radiation protection program, a Chemistry Technician to perform necessary sampling and analysis, and a Test Technician-Nuclear to troubleshoot electrical problems.

During refueling operations, any additional shift personnel requirements are filled by qualified personnel working overtime and utilizing relief shift personnel; however, any overtime which may be required will follow the guidelines of Generic Letter No. 82-12 as reprinted below:

1. An individual should not be permitted to work more than 16 hrs straight, excluding shift turnover time.
2. An individual should not be permitted to work more than 16 hrs in any 24-hr period, nor more than 24 hrs in any 48-hr period, nor more than 72 hrs in any 7-day period, all excluding shift turnover time.
3. A break of at least 8 hours should be allowed between work periods, including shift turnover time.
4. Except during extended shutdown periods, the use of overtime should be considered on an individual basis and not for the entire staff on a shift.

Any deviation from the above guidelines must be authorized by the Plant Manager, his assistants, or higher levels of management. Controls are included in the procedures such that individual overtime is reviewed monthly by the Plant Manager, or his designee, to ensure that excessive hours have not been assigned.

13.1.3 Qualifications of Nuclear Plant Personnel

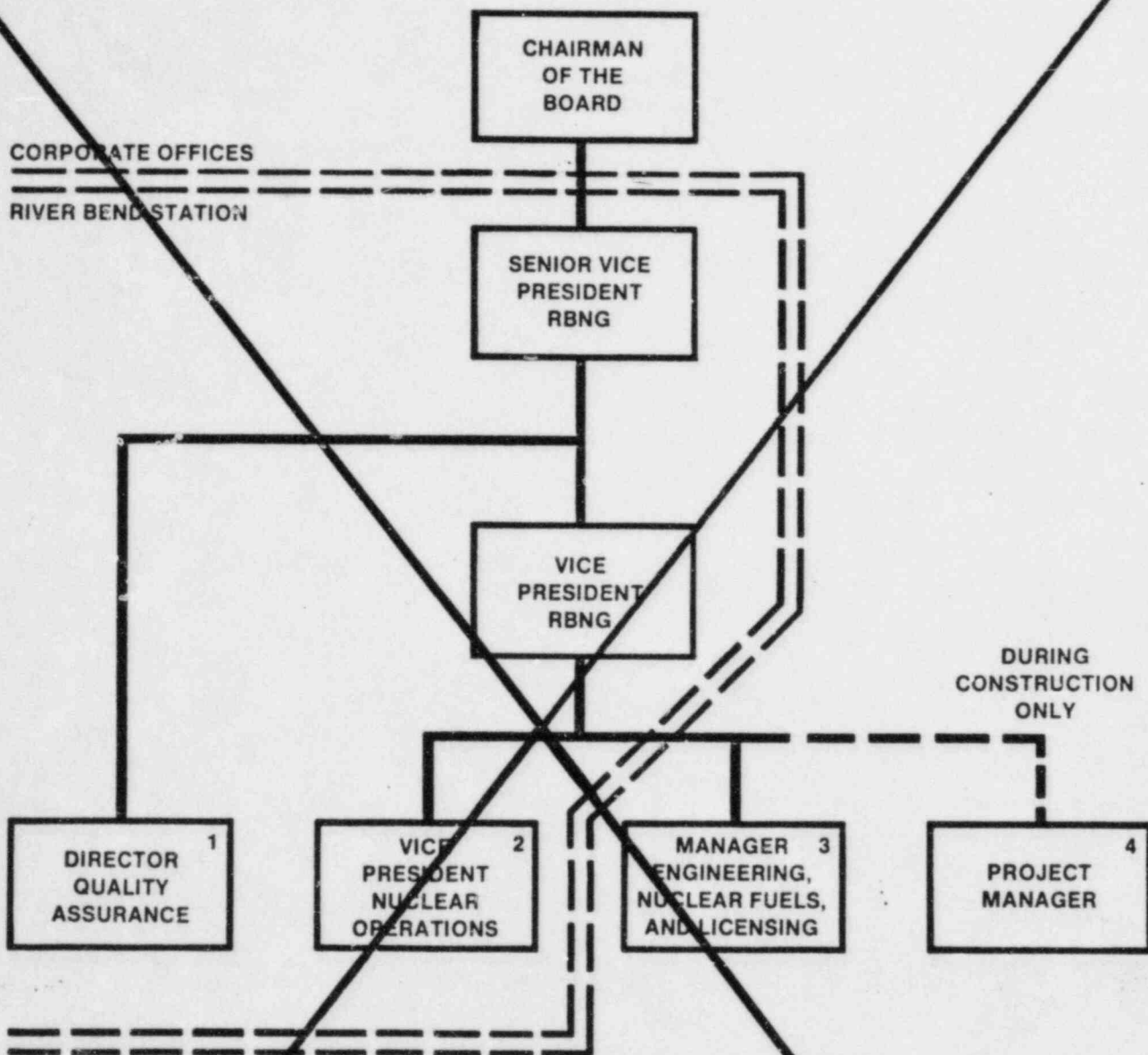
13.1.3.1 Qualification Requirements

RBS personnel meet the requirements of ANSI/ANS 3.1-1978, Selection and Training of Nuclear Power Plant Personnel.

13.1.3.2 Qualifications of Plant Personnel

Resumes are provided in Appendix 13A.

11



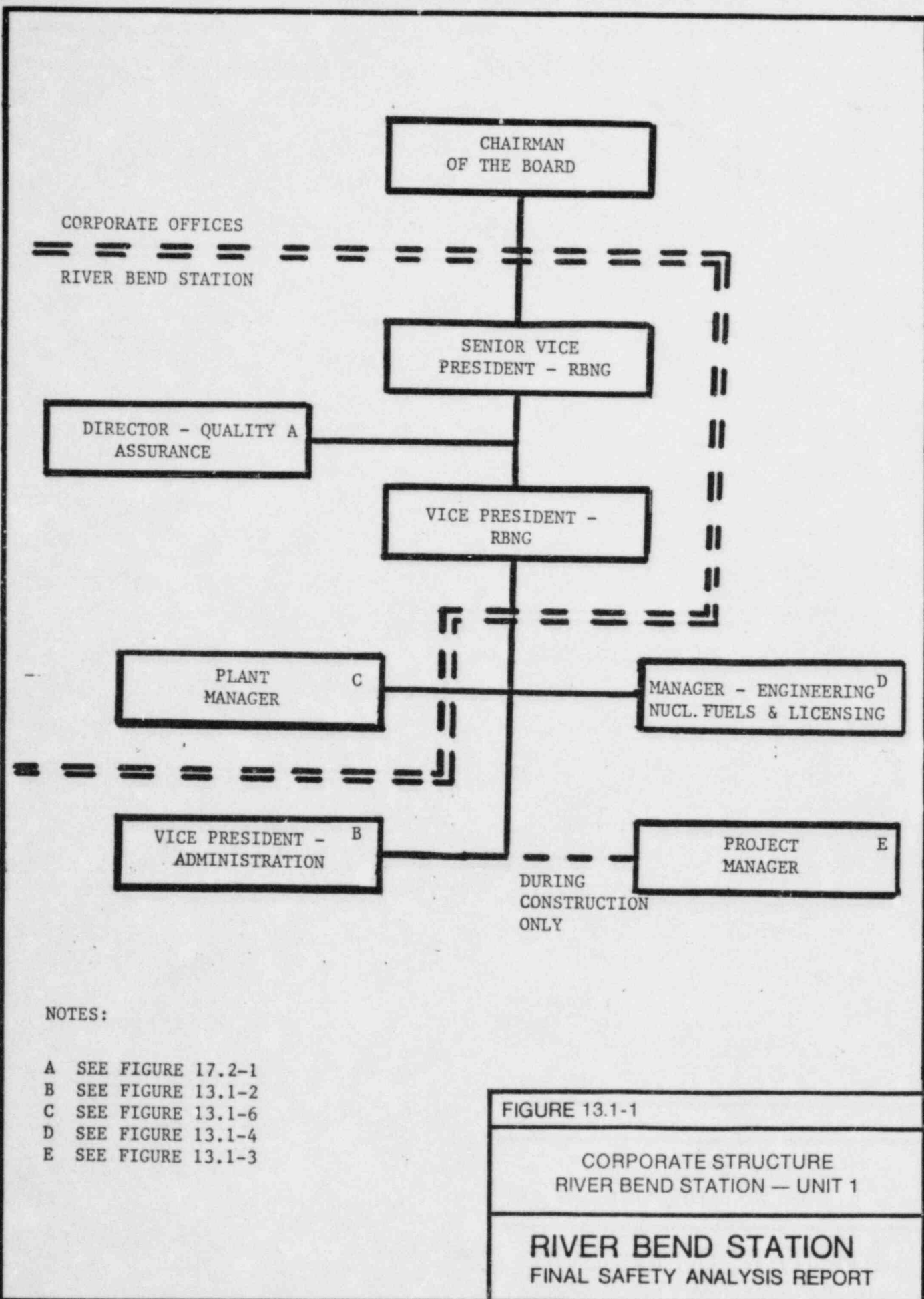
NOTES:

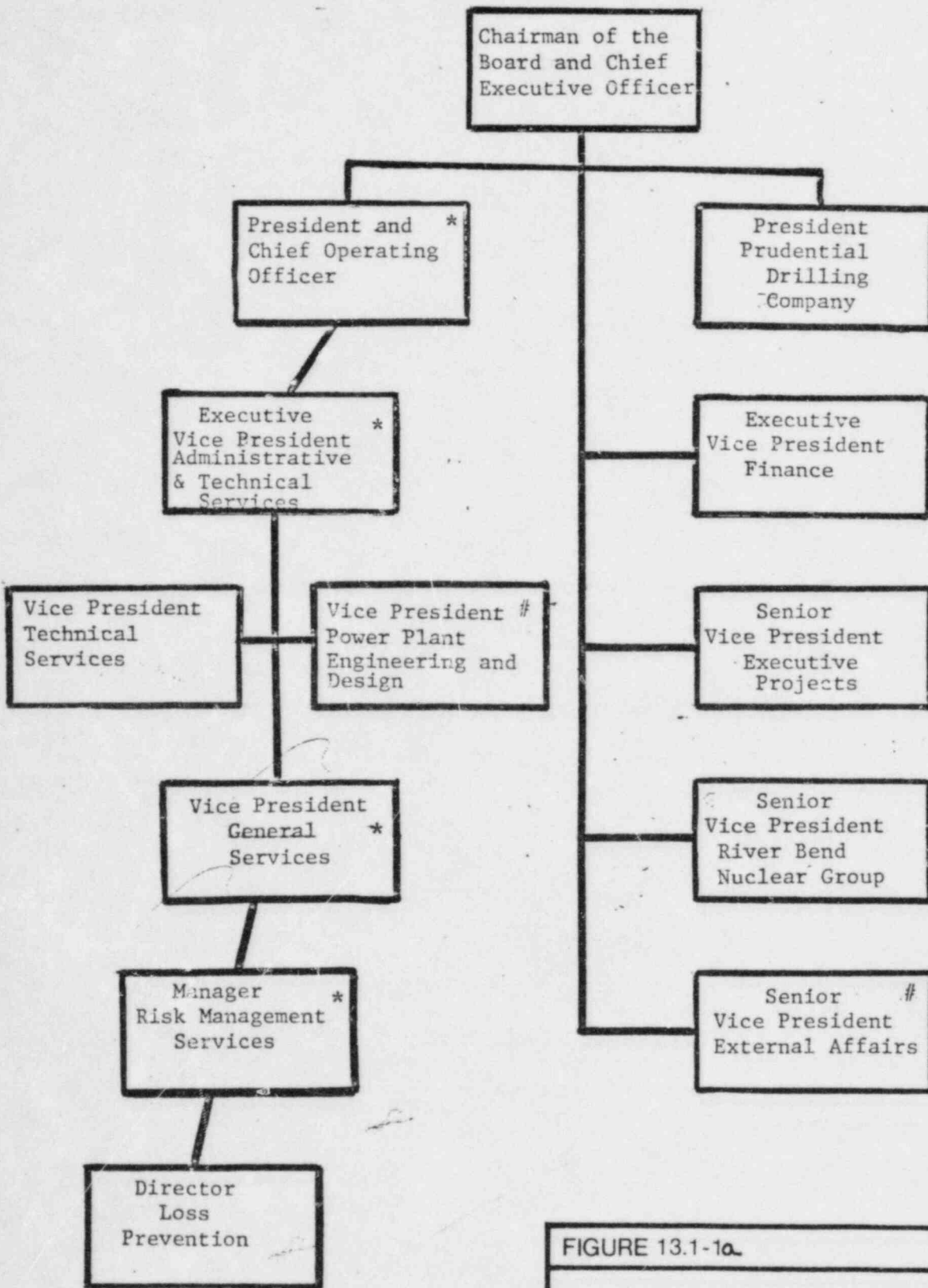
1. SEE FIGURE 17.2-1
2. SEE FIGURE 13.1-2
3. SEE FIGURE 13.1-3
4. SEE FIGURE 13.1-4

FIGURE 13.1-1

**CORPORATE STRUCTURE
RIVER BEND STATION — UNIT**

**RIVER BEND STATION
FINAL SAFETY ANALYSIS REPORT**





* Entire organization not shown; shown for clarity only
 # Nuclear Review Board (NRB) member

FIGURE 13.1-1a

Corporate Structure
 Gulf States Utilities Company

RIVER BEND STATION
 FINAL SAFETY ANALYSIS REPORT

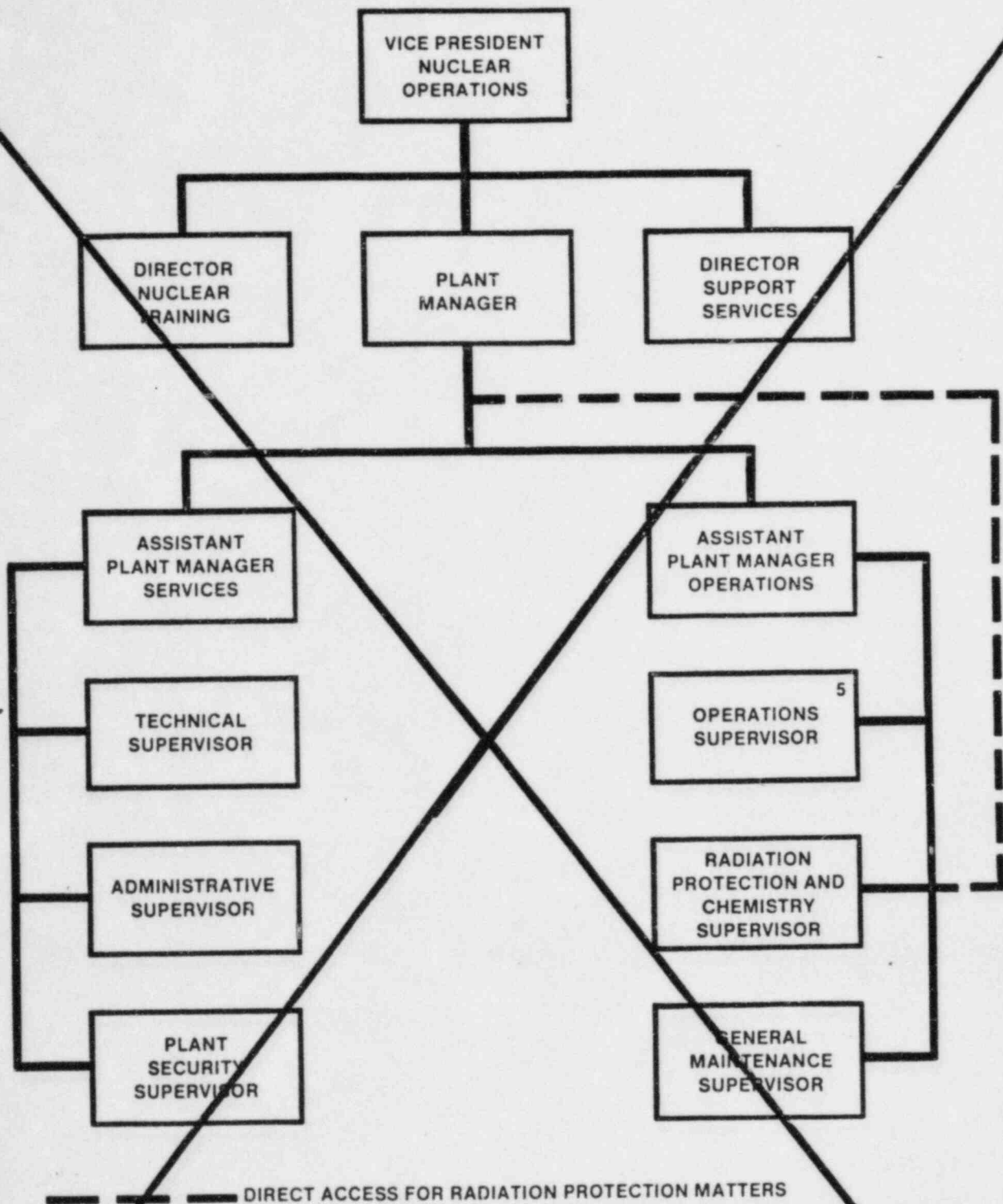
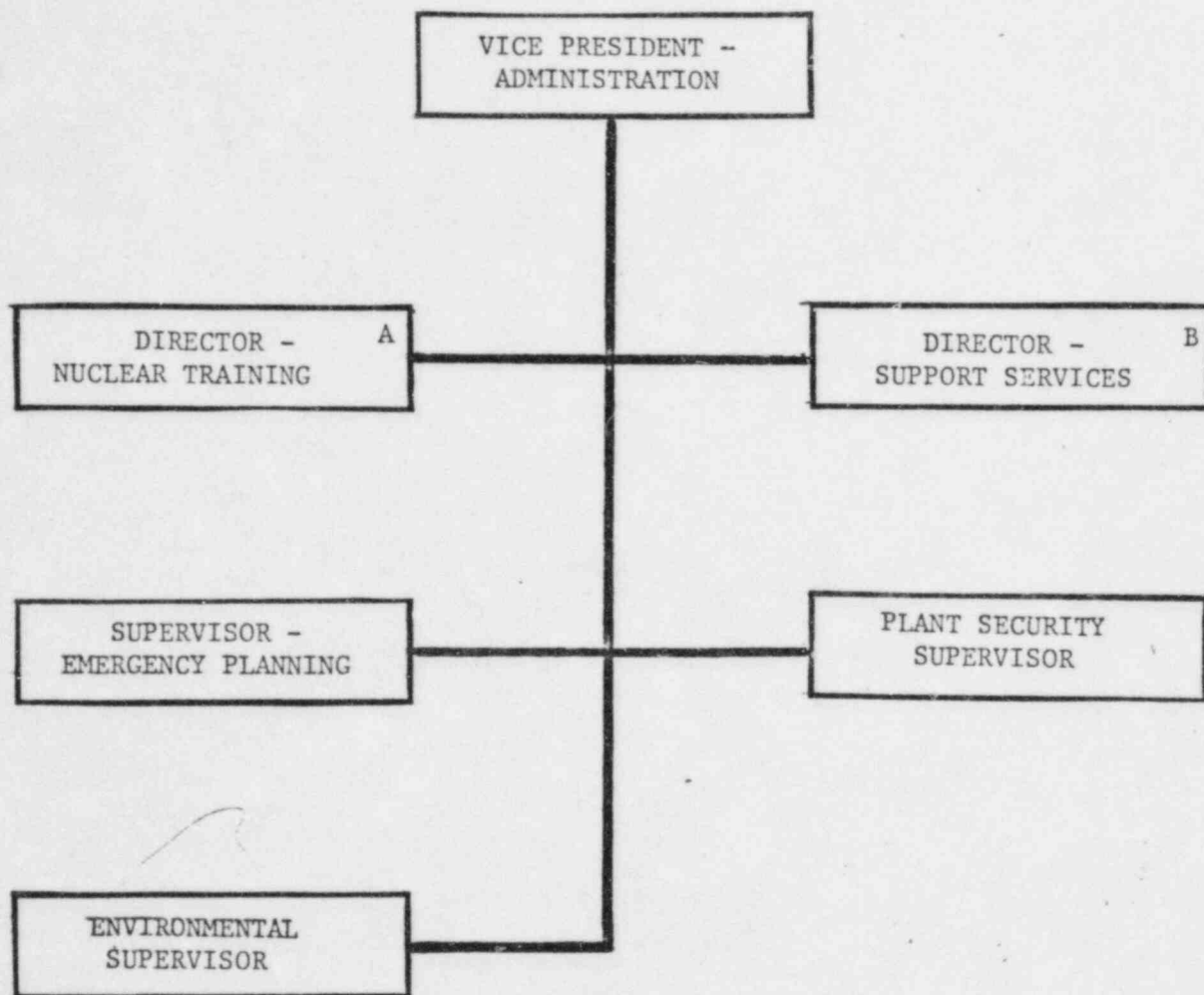


FIGURE 13.1-2

PLANT OPERATIONS STRUCTURE
RIVER BEND STATION — UNIT 1

RIVER BEND STATION
FINAL SAFETY ANALYSIS REPORT



NOTES:

A SEE FIGURE 13.1-2b

B SEE FIGURE 13.1-2a

FIGURE 13.1-2

ADMINISTRATIVE
PLANT ~~OPERATIONS~~ STRUCTURE
RIVER BEND STATION — UNIT 1

RIVER BEND STATION
FINAL SAFETY ANALYSIS REPORT

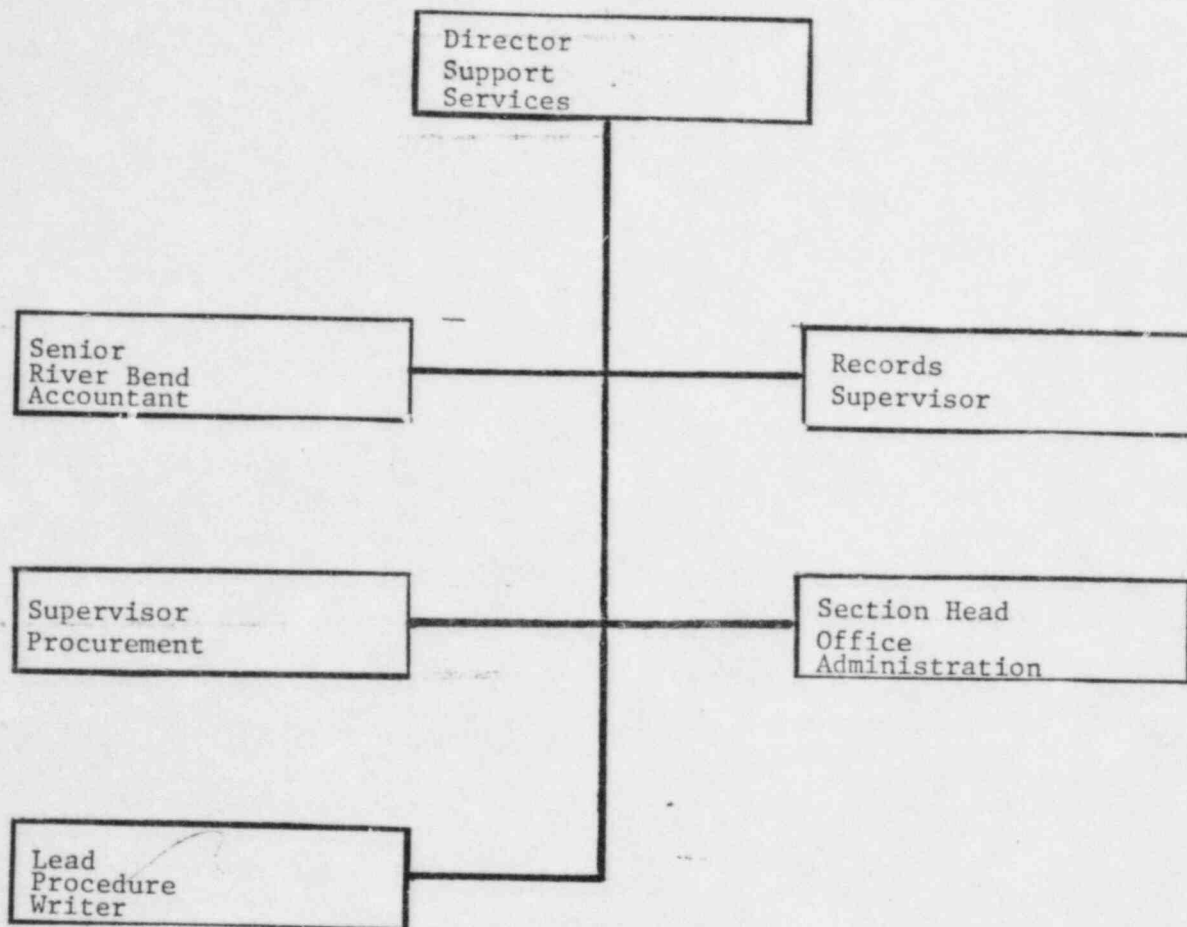


FIGURE 13.1-2a

PLANT ADMINISTRATIVE STRUCTURE
SUPPORT SERVICES SECTION
RIVER BEND STATION - UNIT 1

RIVER BEND STATION
FINAL SAFETY ANALYSIS REPORT

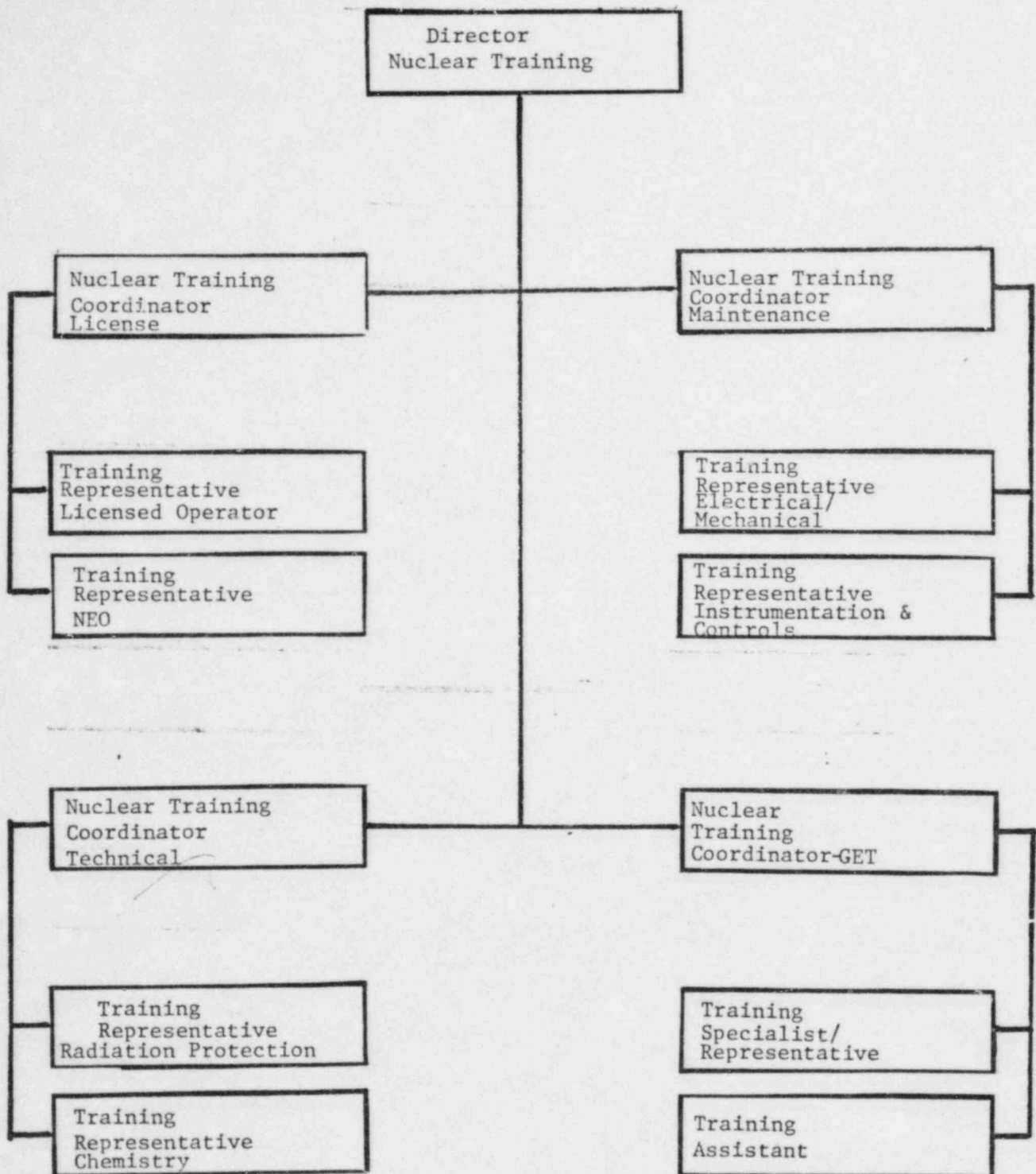
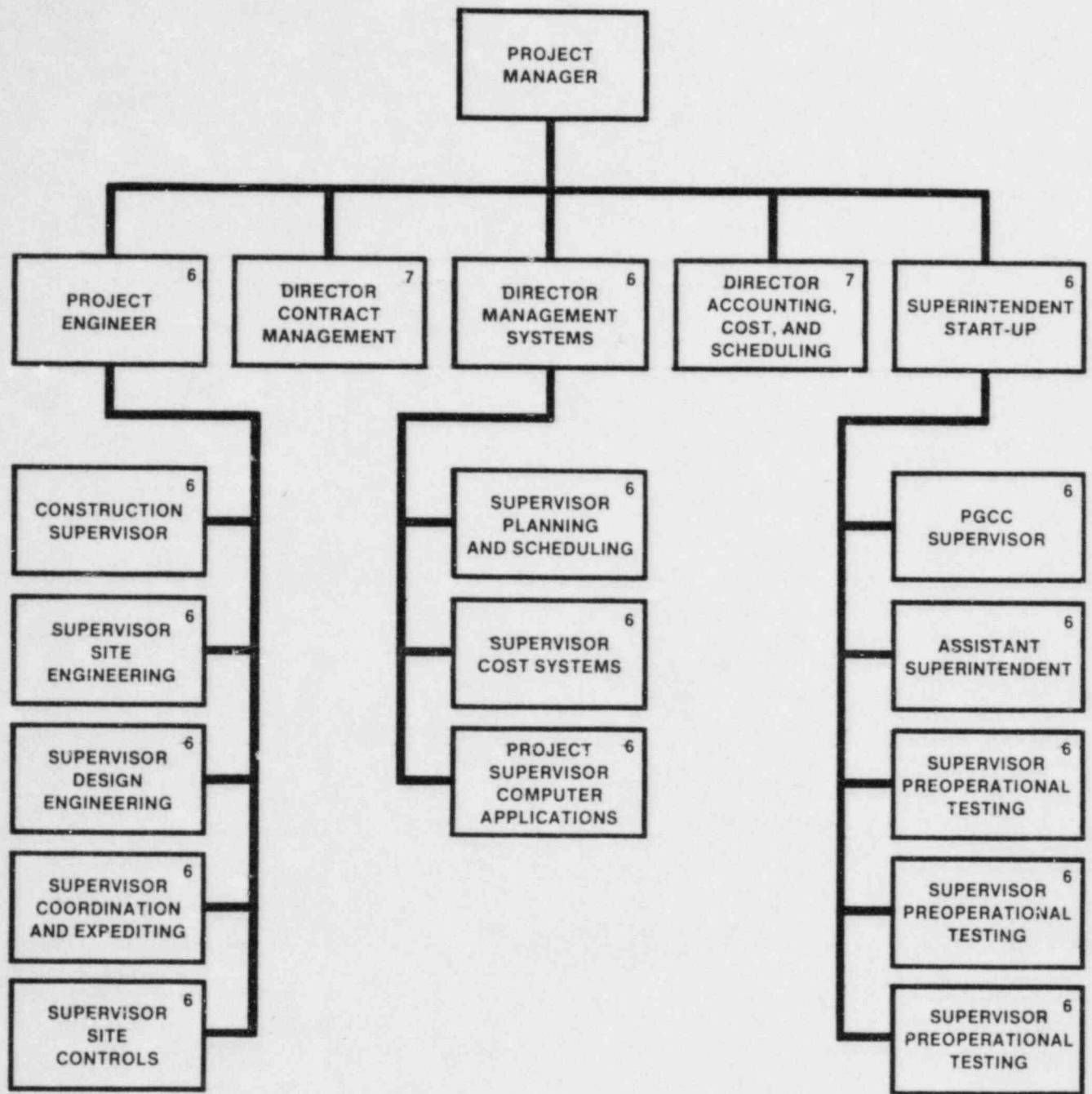


FIGURE 13.1-2b

PLANT ADMINISTRATIVE STRUCTURE
NUCLEAR TRAINING SECTION
RIVER BEND STATION - UNIT 1

RIVER BEND STATION
FINAL SAFETY ANALYSIS REPORT



6 LOCATED AT RIVER BEND STATION

7 STAFF LOCATED AT RIVER BEND STATION AND CORPORATE OFFICES

FIGURE 13.1-3

PROJECT MANAGEMENT STRUCTURE
(CONSTRUCTION PHASE ONLY)
RIVER BEND STATION — UNIT 1

RIVER BEND STATION
FINAL SAFETY ANALYSIS REPORT

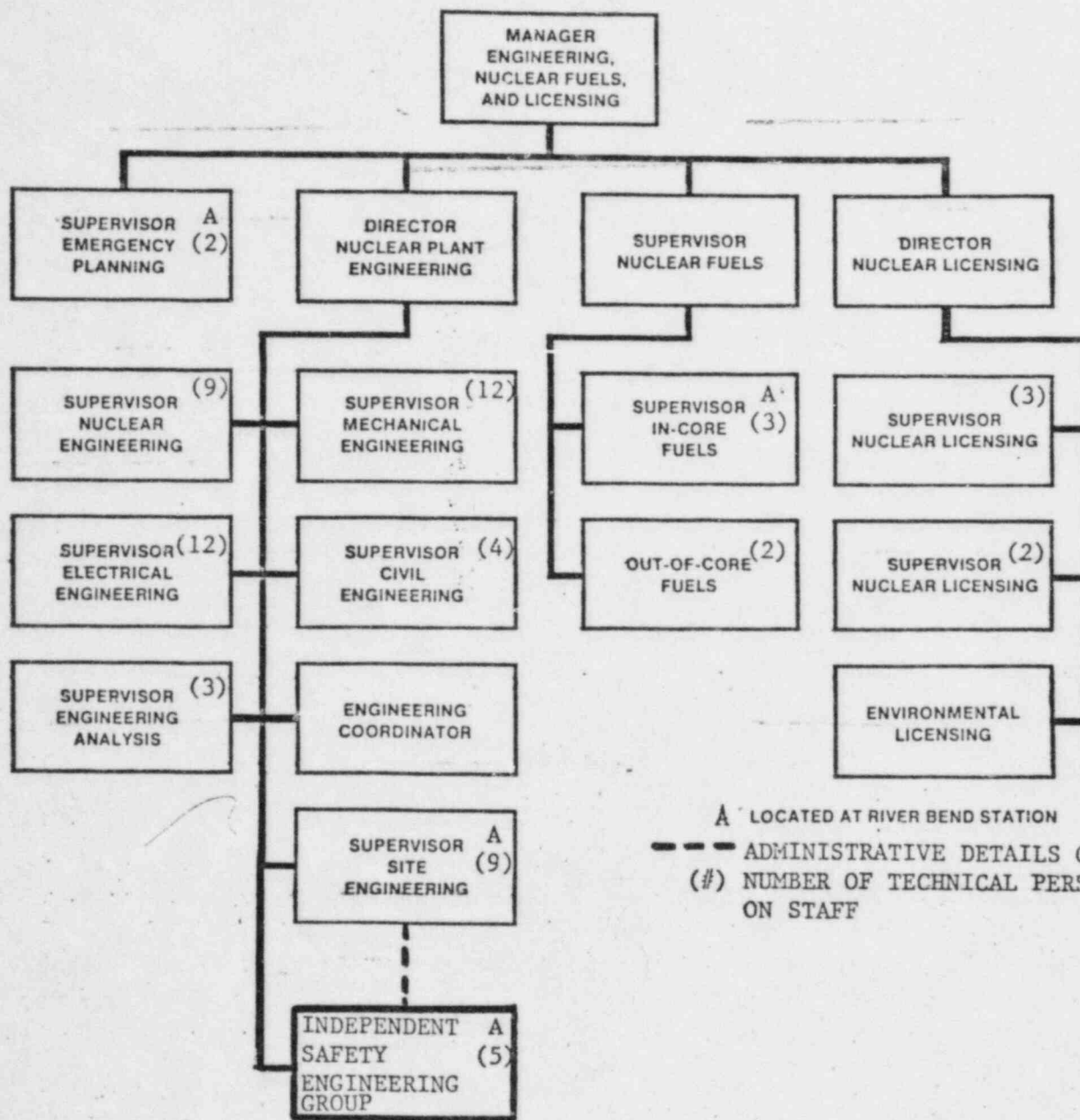
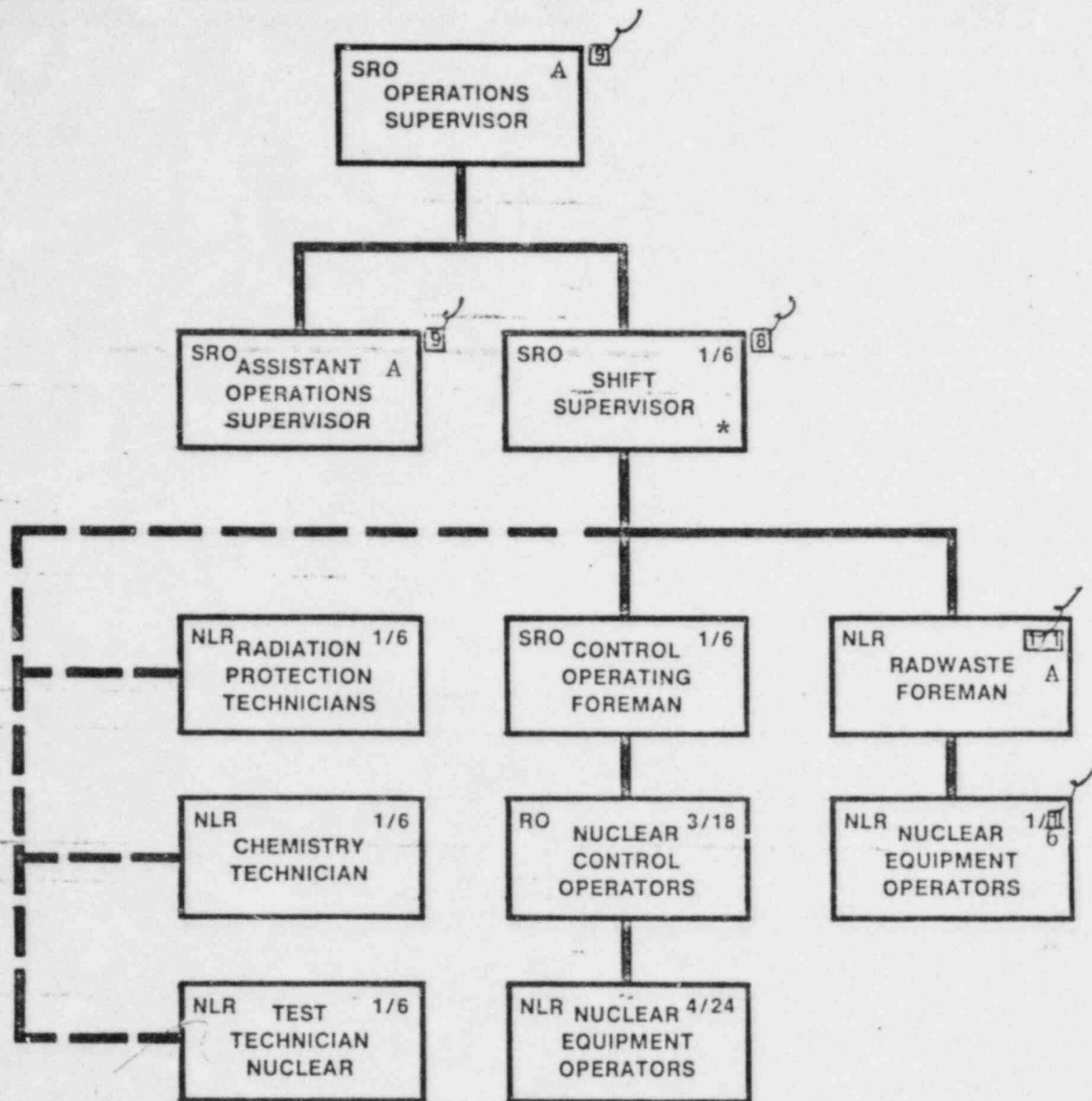


FIGURE 13.1-4

TECHNICAL SUPPORT
(OFFSITE)
RIVER BEND STATION — UNIT 1

RIVER BEND STATION
FINAL SAFETY ANALYSIS REPORT



NLR NO LICENSE REQUIRED

SRO SENIOR REACTOR OPERATOR

RO REACTOR OPERATOR

x/y NUMBER PER SHIFT/TOTAL STAFF

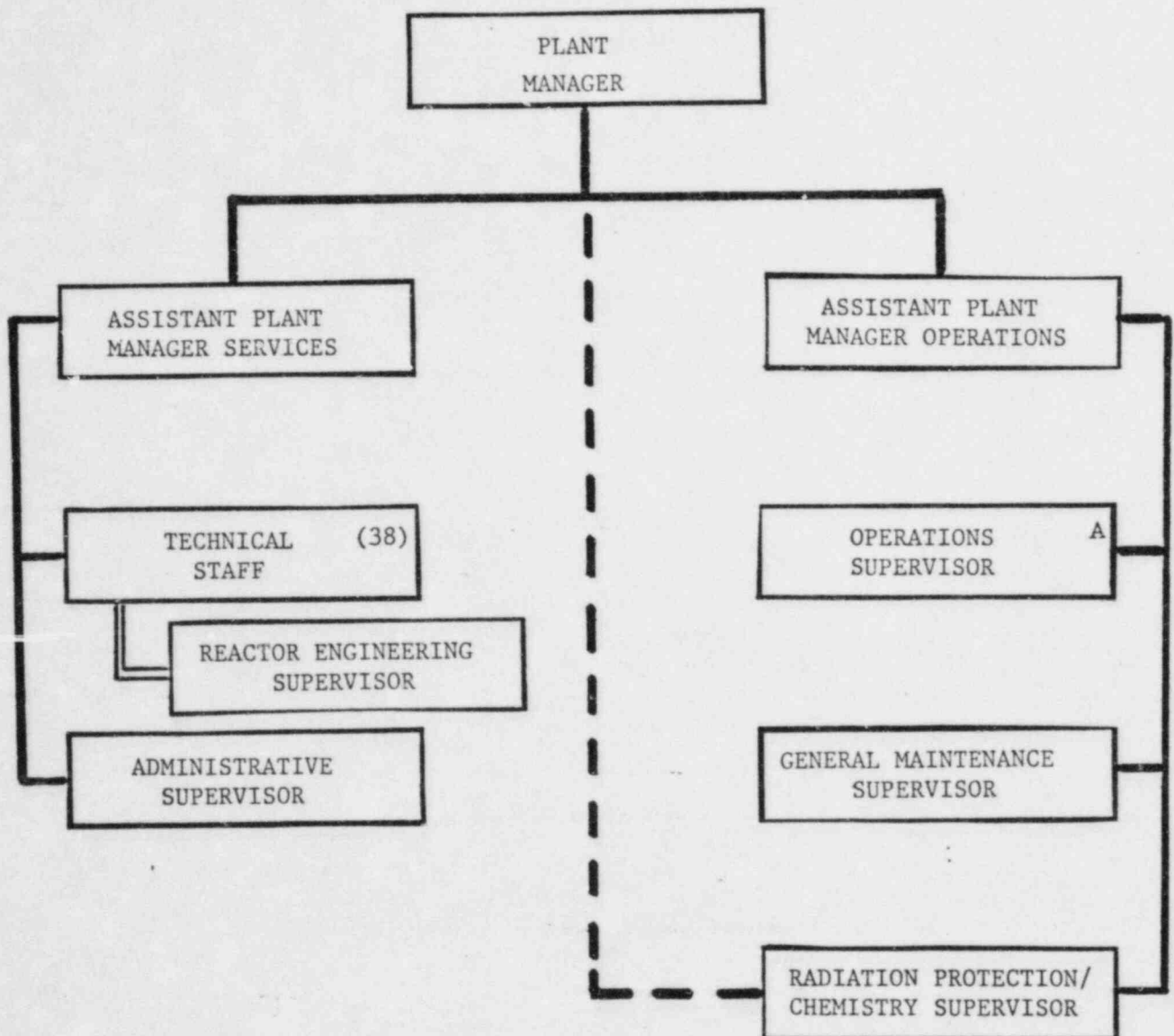
*8 TRAINED TO A LEVEL EQUIVALENT TO A SHIFT TECHNICAL ADVISOR (STA)

A9 NOT ON SHIFT; SHOWN FOR CLARITY ONLY

FIGURE 13.1-5

RIVER BEND SHIFT ORGANIZATION
RIVER BEND STATION — UNIT 1

RIVER BEND STATION
FINAL SAFETY ANALYSIS REPORT



NOTES:

- A SEE FIGURE 13.1-5
- DIRECT ACCESS FOR RADIATION PROTECTION MATTERS
- (#) NUMBER OF TECHNICAL PERSONNEL ON STAFF
- == MEMBER OF THE TECHNICAL STAFF

FIGURE 13.1-6

PLANT OPERATIONS STRUCTURE
RIVER BEND STATION — UNIT 1

RIVER BEND STATION
FINAL SAFETY ANALYSIS REPORT

documentation retained in the training records system. Having not received all the identified training does not in itself disqualify an individual from performing duties associated with his or her job, so long as he or she is allowed to perform only those function(s) for which documented qualifications exist.

Subsequent training for plant staff will be the same as depicted on Fig. 13.2-1 with exceptions and/or deviations as noted. The frequency of presentation of this training will be sufficient to develop the proficiency required for safe, competent performance and supervision.

The overall training program for the plant staff is the responsibility of the Vice President, Nuclear Operations.

Administration The details of the training program(s) and the administration thereof are the responsibility of the Training Director or his designee.

The Training Director delegates the responsibility for implementation of specific programs to individual discipline coordinators. The coordinators are responsible for the quality and adequacy of the program content, material development, presentation, examinations, performance evaluation, and documentation of each respective program.

46
January, 1984 17 As of October 1983, there are 41 operations personnel on shift or in training, with 24 additional openings scheduled to be filled prior to fuel load. This staffing allows for a full six-shift complement with a 10-percent attrition rate. Those individuals applying for a license or license renewal will have certification complete pursuant to 10CFR Sections 55.10 (a)(6) and 55.33 (a)(4) and (a)(5) signed by the Vice President, Nuclear Operations and provided to the Administration NRC on NRC Form 398. Section 12 of Form 398 will be a breakdown of the training received by each license candidate, including classroom training, specific River Bend simulator training, and training gained at any other operating facility.

13.2.1.1 Program Description

The overall training program for River Bend Station (RBS) is designed to provide the initial plant staff training. The individual training programs comply with Regulatory Guide 1.8 through implementation of ANSI/ANS 3.1-1978. They are designed to utilize past training and/or experience coupled with the necessary site specific training to insure each position within the plant staff is manned by a competent, well qualified individual.

NOTE

THE FOLLOWING TWO PAGES, 13.4-2 AND 13.4-5, AND THEIR RESPECTIVE INSERTS WERE TRANSMITTED TO THE STAFF IN A LETTER FROM Mr. BOOKER, TO Mr. DENTON DATED FEBRUARY 17, 1984 (GSU IDENTIFICATION NUMBER RBG-17,067.) THE CHANGES IN FRC AND NRB MEMBERSHIP REFLECT THE RECENT ORGANIZATION CHANGE AND ALONG WITH THE PREVIOUSLY DOCKETED REVISIONS WILL BE INCORPORATED IN A FUTURE AMENDMENT TO THE FSAR.

11 | staff and others as necessary, and functions to advise the Plant Manager on all matters related to nuclear safety. The FRC activities and membership are defined in a written administrative procedure.

13.4.1.1 Membership

The FRC membership is:

11 | Assistant Plant Manager, Operations - Chairman.

Operations Supervisor - Member.
Assistant Plant Manager, Services

Technical Supervisor - Member.

General Maintenance Supervisor - Member.

Reactor Engineering Supervisor - Member.

Radiation Protection/Chemistry Supervisor - Member.

11 | Operations Quality Assurance Supervisor - Non-Voting Member.

Nuclear Licensing Representative - Non-Voting Member.

INSERT

13.4.1.2 Alternates

Alternate members are appointed in writing by the FRC chairman to serve on a temporary basis. An alternate has qualifications comparable to the absent permanent member. No more than two alternates participate as voting members in FRC activities at any one time.

13.4.1.3 Meeting Frequency

The FRC meets at least once per calendar month and as convened by the Chairman or his designated alternate.

13.4.1.4 Quorum

11 | The minimum quorum necessary for the performance of the FRC responsibility and authority consists of the Chairman, or his designated alternate, and four members including no more than two voting alternates.

Insert for Page 13.4-2

Supervisor - Site Engineering - Non-Voting Member

Additional technical support is available from the Engineering Staff located at the site. This includes the areas of instrumentation and controls, health physics, radiochemistry, and refueling, as well as other technical areas in which the FRC would require consulting support.

13.4.1.7 Records

The FRC maintains written minutes of each meeting that, at a minimum, document the results of all FRC activities performed under the responsibility and authority provisions of Section 13.4.1. Copies are provided to the Plant Manager and the NRB.

13.4.2 Independent Review

The NRB, which is responsible for independent reviews, will be established and functional at least 6 months prior to initial fuel loading. The NRB is chaired by the Senior Vice President - External Affairs and includes a majority of members who are not directly responsible for plant operations. The NRB functions to provide independent review and audit of designated activities in the areas of nuclear power plant operations, nuclear engineering, chemistry and radiochemistry, metallurgy, instrumentation and control, radiological safety, mechanical and electrical engineering, quality assurance practices, and any other appropriate fields associated with the unique characteristics of the nuclear power plant.

11

13.4.2.1 Membership

The NRB membership is:

Senior Vice President, External Affairs - Chairman.

Vice President, River Bend Nuclear Group - Alternate Chairman.

Administration

Vice President, Nuclear Operations - Member.

Vice President, Power Plant Engineering and Design - Member.

Manager, Engineering, Nuclear Fuels, and Licensing - Member.

11

Director, Quality Assurance - Member.

RBS Plant Manager - Member.

Director, Nuclear Plant Engineering - Member.

Director, Nuclear Licensing - Member.

INSERT →

Insert for Page 13.4-5

Additional technical support is available from the Nuclear Plant Engineering staff located off-site. This includes the areas of chemistry/radiochemistry, radiological controls, as well as other technical areas in which the NRB would require consulting support.

RIVER BEND STATION POSITION

Responsibility for the overall fire protection program is assigned to the Vice President, River Bend Nuclear Group, Gulf State Utilities Company, who retains the ultimate responsibility, even though formulation and assurance of program implementation is delegated. Personnel to whom authority for implementation and formulation is delegated are trained commensurate with the level within the program with which they deal. The RBS Plant Manager is responsible for the formulation and implementation of the fire protection program. The Plant Technical Supervisor is responsible for development of the fire protection program, including assisting in the development of the fire protection-related training program and maintaining, inspecting, and testing all fire protection equipment. Resumes for personnel in the above referenced positions are provided in Appendix 13A. The Director - Loss Prevention will be available to RBS as a consultant in matters regarding fire protection. A resume is included in Appendix 13A.

11

Section 13.2.1.1.13 provides complete details regarding staffing, training, and maintaining the competence of the Station's firefighting and operating crews.

9A.3.2.2 Design Bases

The overall fire protection program should be based upon evaluation of potential fire hazards throughout the plant and the effect of postulated design basis fires relative to maintaining ability to perform safety shutdown functions and minimize radioactive releases to the environment.

RIVER BEND STATION POSITION

The fire hazards analysis of all plant areas is provided in Section 9A.2. The analysis includes the evaluation of postulated design basis fires involving both permanent and/or transient combustibles on systems and equipment required for safe plant shutdown and to minimize potential radioactive releases to the environment.

9A.3.2.3 Backup

Total reliance should not be placed on a single automatic fire suppression system. Appropriate backup fire suppression capability should be provided.

Insert for Page 9A.3-3

Assistant Plant Manager - Services