

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401
400 Chestnut Street Tower II

April 9, 1985

Director of Nuclear Reactor Regulation
Attention: Ms. E. Adensam, Chief
Licensing Branch No. 4
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Ms. Adensam:

In the Matter of the Application of) Docket Nos. 50-390
Tennessee Valley Authority) 50-391

On March 28, 1985, TVA and NRC representatives met to discuss TVA's recent submittals concerning the Watts Bar organizational structure and compliance with NRC shift staffing requirements. During this meeting TVA was requested to provide more specific information on the availability of experienced personnel to satisfy license condition 26 which requires one person on each shift who has commerial PWR startup experience. TVA was also requested to submit FSAR changes and proposed technical specification revisions addressing the qualifications of the Plant Operations Review Committee members and the establishment of an approved list of designated Nuclear Safety Staff reviewers. In addition, NRC representatives also indicated the necessity for several minor revisions to Section 6, "Administrative Controls" of the technical specifications.

Enclosed is the information requested. The FSAR changes will be included in the next amendment to the FSAR (Amendment 56).

If you have any questions concerning this matter, please get in touch with D. B. Ellis at FTS 858-2681.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

R. H. Shell

R. H. Shell
Nuclear Engineer

Sworn to and subscribed before me
this 9th day of April 1985.

Paulette H. White
Notary Public

My Commission Expires 8-24-88
Enclosure

cc: U.S. Nuclear Regulatory Commission (Enclosure)
Region II
Attn: Dr. J. Nelson Grace, Regional Administrator
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30323

ENCLOSURE

Watts Bar has nine senior reactor operators available to satisfy license condition 26. Resumes for the following six SROs were supplied to NRC by FSAR Amendment No. 55 and revised by TVA letter dated March 24, 1985:

1. C. R. Cook
2. H. J. Voiles
3. C. E. Wallace
4. R. E. Yarbrough
5. W. V. Rusbridge
6. D. S. King

Three of the senior reactor operators available to satisfy license condition 26 are not assigned to Watts Bar as shift engineers; therefore, resumes have not been provided to NRC. Attached are resumes for these SROs:

1. T. E. Tuckler
2. R. E. Schmook
3. D. J. Record

These nine SROs each have at least six-months experience at Sequoyah Nuclear Plant, at least six-weeks experience with the plant operating at greater than 20 percent power, and were on shift during a unit startup and shutdown.

TITLE : Assistant Shift Engineer

APPOINTEE : Terence E. Tuckler

EDUCATION : Iuka High School, Iuka, Mississippi, 1963

EXPERIENCE :

U.S. Army, Medical Corpsman - 1965 - 1967

10/65 - 10/67 - Trained and supervised personnel in his section.

Tennessee Valley Authority - 1976 to present

03/15/76 - 07/11/77 - NSGPO, Nuclear Training Center, Sequoyah

07/11/77 - 12/18/77 - NSGPO, Watts Bar Nuclear Plant

12/18/77 - 05/07/79 - Assistant Unit Operator, Watts Bar Nuclear Plant

05/07/79 - 01/09/83 - Unit Operator, Watts Bar Nuclear Plant

(03/16/80-03/23/80) - Work Sequoyah Nuclear Plant

(03/30/80-05/25/80) - Work Sequoyah Nuclear Plant

(02/22/81-05/17/81) - 3 months on shift for RO, Sequoyah Nuclear Plant

(05/17/81-06/28/81) - Pre-license training, Sequoyah Nuclear Plant

(10/19/81-11/16/81) - Pre-license training, Sequoyah Nuclear Plant

(11/16/81-01/07/82) - Non-license work, Sequoyah Nuclear Plant

(01/07/82) - NRC Operator License, Sequoyah Nuclear Plant

(01/07/82-07/05/82) - RO work, Sequoyah Nuclear Plant

(09/06/82-09/13/82) - RO work, Sequoyah Nuclear Plant

01/09/83 - 03/27/84 - Assistant Shift Engineer - RL, Watts Bar Nuclear
Plant

(03/27/84) - Senior Reactor License #SOP-20149 (Watts Bar
Nuclear Plant)

(10/15/84-12/10/84) - Work, Sequoyah Nuclear Plant

03/27/84 - Present - Present Assistant Shift Engineer--SRL, Watts Bar
Nuclear Plant

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(01/07/82) - NRC Operator License, Sequoyah Nuclear Plant

(01/07/82-07/05/82) - RO work, Sequoyah Nuclear Plant

(09/06/82-09/13/82) - RO work, Sequoyah Nuclear Plant

01/09/83 - 03/27/84 - Assistant Shift Engineer - RL, Watts Bar Nuclear
Plant

(03/27/84) - Senior Reactor License #SOP-20149 (Watts Bar
Nuclear Plant)

(10/15/84-12/10/84) - Work, Sequoyah Nuclear Plant

03/27/84 - Present - Present Assistant Shift Engineer--SRL, Watts Bar
Nuclear Plant

TITLE : Special Project's Manager

APPOINTEE : Daniel J. Record

EDUCATION : Chester County High School, Henderson, TN, 1946

EXPERIENCE :

U.S. Navy, 1948 - 1950

12/03/48 - 06/21/50 - Fireman electrician--performed upkeep on electrical equipment

Tennessee Valley Authority, 1952 - 1958

12/29/52 - 02/15/53 - Auxiliary Operator, Johnsonville Steam Plant

02/15/53 - 02/28/54 - Steam Generating Plant Operator, Johnsonville
Steam Plant

02/28/54 - 12/19/54 - Student Generating Plant Operator, Shawnee Steam
Plant

12/19/54 - 06/05/55 - Assistant Unit Operator, Shawnee Steam Plant

06/05/55 - 06/05/58 - Unit Operator, Shawnee Steam Plant

City of Memphis Steam Plant, 1958 - 1964

06/58 - 12/64 - Assistant Shift Engineer

Tennessee Valley Authority, 1964 - present

01/01/65 - 11/15/70 - Assistant Shift Engineer, Allen Steam Plant

11/15/70 - 07/11/71 - Student Instructor - ST(Temporary), Allen Steam
Plant

07/11/71 - 03/27/77 - Shift Engineer, Sequoyah Nuclear Plant

(10/28/75-07/09/76) - Worked at Browns Ferry Nuclear Plant to assist
construction in the fire restoration of units 1 and
2.

03/27/77 - 12/30/79 - Assistant Power Plant Operations Supervisor,
Sequoyah Nuclear Plant - Assist the power plant
operations supervisor in his work by monitoring the
day-to-day operation of the plant.

12/30/79 - 05/08/83 - Power Plant Operations Supervisor, Sequoyah Nuclear
Plant - Responsible for the satisfactory and
efficient operation of all electrical and
mechanical equipment of the plant used in the
production of electricity and for the transformers
and switchyards.

DANIEL J. RECORD

(02/06/80)

- SRO License at Sequoyah Nuclear Plant

05/08/83 - Present

- Special Projects Manager, Watts Bar Nuclear Plant - carries out special projects assigned by the Plant Manager or the Manager of Operations and Engineering. These special projects will involve the investigation of, and recommendations for the implementation of various programs and policies.

TITLE : Shift Engineer
APPOINTEE : Ralph E. Schmook
EDUCATION : Chattanooga State, A.S. in Mechanical Engineering, 1976
EXPERIENCE :

U.S. Marine Corps - 1968 - 1970

12/68 - 12/70 - Corporal E-4

Tennessee Valley Authority - 1977 - present

03/21/77 - 07/31/78 - NSGPO, Nuclear Training Center, Sequoyah
07/31/78 - 01/08/79 - NSGPO, Watts Bar Nuclear Plant
01/08/79 - 05/26/80 - Assistant Unit Operator, Watts Bar Nuclear Plant
05/26/80 - 03/21/82 - Unit Operator, Watts Bar Nuclear Plant
(07/20/80-10/12/80) - Three months on shift at Sequoyah Nuclear Plant
(10/12/80-12/21/80) - Pre-license training, Sequoyah Nuclear Plant
(12/21/80-02/12/81) - Non-license work at Sequoyah Nuclear Plant
(02/12/81) - RO license at Sequoyah Nuclear Plant
(02/12/81-09/21/81) - RO work at Sequoyah Nuclear Plant
03/21/82 - 01/09/84 - Assistant Shift Engineer, Watts Bar Nuclear Plant
(07/12/82-12/12/82) - Worked at Sequoyah Nuclear Plant
(12/12/82) - SRO license at Sequoyah Nuclear Plant
(12/12/82-05/23/83) - SRO work at Sequoyah Nuclear Plant
01/09/84 - 10/29/84 - Shift Engineer, Watts Bar Nuclear Plant
10/29/84 - present - Shift Engineer, Nuclear Training Center, Sequoyah

PORC Composition

Based on concerns raised by the NRC staff, the attached change to FSAR Section 13.4.1 and proposed revision to Technical Specification 6.5.1.2 are being submitted. This addition provides the minimum requirements for permanent PORC members that are not specifically identified.

13.4 Review and Audit

13.4.1 Onsite Review

A continuing review of operational activities is a normal function of the plant staff. The Plant Operations Review Committee and the onsite Quality Assurance Staff, have specific responsibilities in the area of review of plant operation. A description of the onsite Quality Assurance Staff organization, including responsibility and authority, is contained in Chapter 17.

The Plant Operations Review Committee (PORC) is composed of at least a minimum of the following members, but in no case more than ten members:

Chairman:	Plant Manager or his alternate
Member :	Operations Group Supervisor
Member :	Engineering Section Supervisor
Member :	Maintenance Supervisor (Electrical, Mechanical, or Instrumentation)
Member :	Health Physics Supervisor

Any permanent member appointed to PORC beyond those identified above will meet the minimum qualification recommendations of Section 4.4 of ANSI N18.1-1971 or be of the section supervisor level.

All alternate members are appointed in writing by the PORC chairman to serve on a temporary basis; however, no more than two alternates participate as voting members in PORC activities at any one time. The PORC meets at least once per calendar month and is convened by the PORC Chairman or his designated alternate. The quorum of the PORC necessary for the performance of the PORC responsibility and authority provisions of the Technical Specifications consists of the Chairman or his designated alternate and at least three members of the total membership, which must represent at least half of the total membership, including alternates.

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The PORC is responsible for:

- a. Review of all procedures and programs required by Technical Specifications and changes thereto, and any other proposed procedures determined by the Plant Manager to affect nuclear safety;
- b. Review of all proposed tests and experiments that affect nuclear safety;
- c. Review of all proposed changes to Technical Specifications;
- d. Review of all proposed changes or modifications to unit systems or equipment that affect nuclear safety;

6.4 TRAINING

6.4.1 A retraining and replacement training program for the unit staff shall be maintained under the direction of the Operations and Engineering Superintendent and shall meet or exceed the requirements and recommendations of Section 5.5 of ANSI N18.1-1971 and Appendix A of 10 CFR Part 55 and the supplemental requirements specified in Sections A and C of Enclosure 1 of the March 28, 1980 NRC letter to all licensees, and shall include familiarization with relevant industry operational experience identified by the ISEG.

6.5 REVIEW AND AUDIT

6.5.0 The Manager, Office of Nuclear Power, is responsible for the safe operation of all TVA nuclear power plants. The functional organization for review and cognizance of audits is shown on Figure 6.2-1.

6.5.1 PLANT OPERATIONS REVIEW COMMITTEE (PORC)

FUNCTION

6.5.1.1 The PORC shall function to advise the Plant ~~Superintendent~~ on all matters related to nuclear safety.

Manager

COMPOSITION

6.5.1.2 The PORC shall be composed of at least a minimum of the following members, but in no case more than ten members:

- Chairman: Plant Manager or his Alternate
- Member: Operations Group Supervisor
- Member: Engineering Section Supervisor
- Member: Maintenance Supervisor (Electrical, Mechanical, or Instrumentation)
- Member: Health Physics Supervisor

INSERT



ALTERNATES

6.5.1.3 All alternate members shall be appointed in writing by the PORC Chairman to serve on a temporary basis; however, no more than two alternates shall participate as voting members in PORC activities at any one time.

MEETING FREQUENCY

6.5.1.4 The PORC shall meet at least once per calendar month and as convened by the PORC Chairman or his designated alternate.

Insert

Any permanent member appointed to PORC beyond those identified above will meet the minimum qualification recommendations of Section 4.4 of ANSI N18.1-1971 or be of the section supervisor level.

NSS-APPROVED LIST OF DESIGNATED REVIEWERS

As requested by NRC representatives during the meeting of March 28, 1985, attached are FSAR changes and proposed technical specification revisions which commit to the establishment of an approved list of designated NSS reviewers.

requirements of American National Standard ANSI N18.7-1976/ANS-3.2, 'Administrative Controls and Quality Assurance for the Operational Phase of Nuclear Power Plants,' as endorsed by NRC Regulatory Guide 1.33, Rev. 2, and with American National Standard ANSI/ANS-3.1-1981, 'Selection, Qualification, and Training of Personnel for Nuclear Power Plants.'

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The reviews conducted by NSS are conducted by teams consisting, as a minimum, of three reviewers with expert consultants used as determined by the Chief of NSS.

All NSS and other TVA personnel who have been designated as reviewers shall have an academic degree in engineering or a physical science field, or the equivalent; and in addition, shall have a minimum of 5 years technical experience in one or more areas given in Specification 6.5.2.1. A list of TVA personnel, designated as reviewers by the Chief, NSS, will be established and maintained. The Chief, NSS shall meet the same qualifications as reviewers except that the minimum experience shall be 6 years.

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13.4.3 Audit Program

The responsibilities, authority, and qualification requirements of the plant Quality Assurance Staff Supervisor are described in Chapter 17.

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MINIMUM REVIEW

6.5.2.5 A minimum of three reviewers shall review each of the subjects encompassed by Sections 6.5.2.6 and 6.5.2.7.

DEC 11 1981

FINAL DRAFT

ADMINISTRATIVE CONTROLS

COMPOSITION

~~6.5.2.2 The NSS shall be composed of the Chief and TVA personnel designated as reviewers. A minimum of three designated TVA personnel shall review each designated activity.~~

QUALIFICATIONS

All NSS and other TVA personnel who have been designated as reviewers

~~6.5.2.3 The Chief, NSS, shall be appointed in writing by the Manager, Office of Nuclear Power, and shall have an academic degree in engineering or a physical science field, or the equivalent; and in addition, shall have a minimum of 8 years technical experience in one or more areas given in Specification 6.5.2.1. Other TVA personnel designated as reviewers shall meet the same qualifications except the minimum technical experience may be 5 years.~~

A list of TVA personnel, designated as reviewers by the Chief NSS, will be established and maintained. The Chief NSS shall meet the same qualifications as reviewers, except that the minimum experience shall be 6 years.

CONSULTANTS

~~6.5.2.4 Consultants shall be utilized as determined by the NSS Chief to provide expert advice to the NSS.~~

as determined by the Chief, NSS.

REVIEW

6.5.2.6 The NSS shall review:

- a. The safety evaluations for: (1) changes to procedures, equipment or systems, and (2) tests or experiments completed under the provision of Section 50.59, 10 CFR, to verify that such actions did not constitute an unreviewed safety question;
- b. Proposed changes to procedures, equipment or systems which involve an unreviewed safety question as defined in Section 50.59, 10 CFR;
- c. Proposed tests or experiments which involve an unreviewed safety question as defined in Section 50.59, 10 CFR;
- d. Proposed changes to Technical Specifications or this Operating License;
- e. Violations of Codes, regulations, orders, Technical Specifications, license requirements, or of internal procedures or instructions having nuclear safety significance;
- f. Significant operating abnormalities or deviations from normal and expected performance of unit equipment that affect nuclear safety;
- g. All REPORTABLE EVENTS;
- h. All recognized indications of an unanticipated deficiency in some aspect of design or operation of structures, systems, or components that could affect nuclear safety; and
- i. Reports and meeting minutes of the PORC and RARC.

Proposed Revisions To Section 6 Of The Technical Specifications

Attached are minor revisions to Section 6 of the technical specifications.

6.0 ADMINISTRATIVE CONTROLS

6.1 RESPONSIBILITY

6.1.1 The Plant Manager shall be responsible for overall unit operation and shall delegate in writing the succession to this responsibility during his absence

The Manager, Radiological Health

for

6.1.2 ~~The Manager, Radiological Services~~, shall be responsible for implementing the Radiological Environmental Program and for the development of and changes to the Offsite Dose Calculation Manual (ODCM) and dose calculations and projections as described in the ODCM. These responsibilities include performance of Surveillance Requirements listed in Table 6.1-1

Monitoring

C R

6.1.3 The Shift Supervisor (or during his absence from the control room, a designated individual) shall be responsible for the Control Room command function. A management directive to this effect, signed by the Site Director, shall be reissued to all station personnel on an annual basis.

6.2 ORGANIZATION

appropriate

all operations and maintenance personnel under the Plant Manager

OFFSITE

6.2.1 The offsite organization for unit management and technical support including radiological environmental monitoring and dose calculations shall be as shown on Figure 6.2-1.

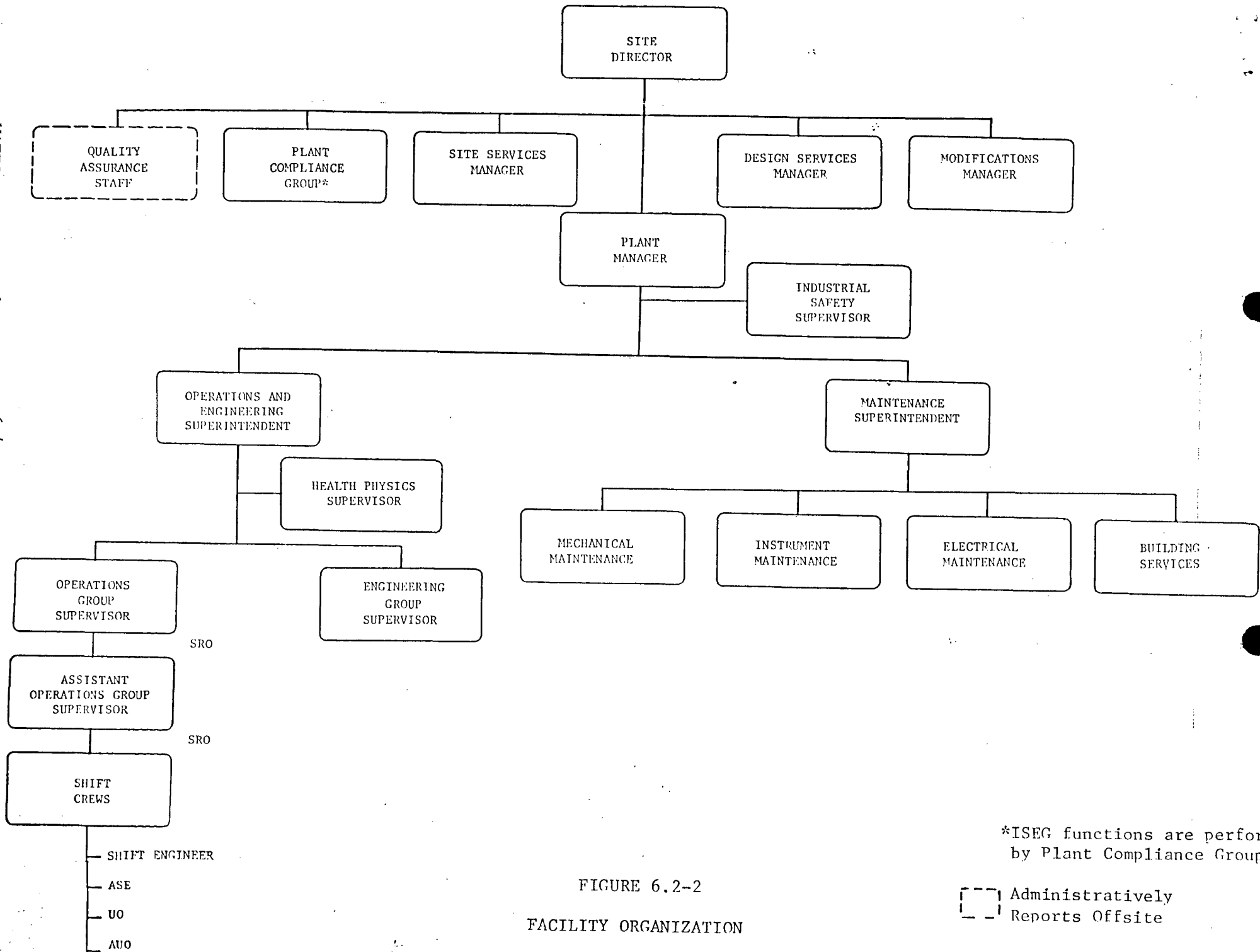
UNIT STAFF

6.2.2 The unit organization shall be as shown on Figure 6.2-2 and:

- a. Each on duty shift shall be composed of at least the minimum shift crew composition shown in Table 6.2-1;
- b. At least one licensed Operator shall be in the control room when fuel is in the reactor. In addition, while the unit is in MODE 1, 2, 3 or 4, at least one licensed Senior Operator shall be in the control room;
- c. A Health Physics Technician* shall be on site when fuel is in the reactor;
- d. All CORE ALTERATIONS shall be observed and directly supervised by either a licensed Senior Operator or a licensed Senior Operator Limited to Fuel Handling who has no other concurrent responsibilities during this operation;
- e. A Fire Brigade* of at least five members shall be maintained on site at all times. The Fire Brigade shall not include the Shift Supervisor and the two other members of the minimum shift crew necessary for safe shutdown of the unit and any personnel required for other essential functions during a fire emergency; and

C R

* The Health Physics Technician and Fire Brigade composition may be less than the minimum requirements for a period of time not to exceed 2 hours in order to accommodate unexpected absence provided immediate action is taken to fill the required positions.



*ISEG functions are performed by Plant Compliance Group

 Administratively Reports Offsite

FIGURE 6.2-2
FACILITY ORGANIZATION