ATTACHMENT A-1

Revise the beaver Valley Unit No. 1 Technical Specifications as follows:

Remove Pages	Insert Pages
6-1	6-1
6-3	6-3
6-5	6-5
6-6	6-6
6-7	6-7
6-12	6-12
6-13	6-13
6-31	6-31

6.1 RESPONSIBILITY

6.1.1 The General Manager Nuclear Operations shall be responsible for overall facility operation and shall delegate in writing the succession to this responsibility during his absence.

6.2 ORGANIZATION

6.2.1 ONSITE AND OFFSITE ORGANIZATIONS

Onsite and Offsite organizations shall be established for facility operation and corporate management, respectively. The onsite and Offsite organizations shall include the positions for activities affecting the safety of the nuclear power plant.

a. Lines of authority, responsibility and communication shall be established and defined for the highest management levels through intermediate levels to and including all operating organization positions. These relationships shall be documented and updated, as appropriate, in the form of organization charts, functional descriptions of departmental responsibilities and relationships, and job descriptions for key personnel positions, or in equivalent forms of documentation. These requirements shall be documented in the FSAR.

b. The General Manager Nuclear Operations shall be responsible for overall unit safe operation and shall have control over those onsite activities necessary for safe operation and maintenance of the plant.

c. The Vice President Nuclear Group shall have corporate responsibility for overall plant nuclear safety and shall take any measures needed to ensure acceptable performance of the staff in operating, maintaining, and providing technical support to the plant to ensure nuclear safety.

d. The individuals who train the operating staff and those who carry out health physics and quality assurance functions may report to the appropriate onsite manager; however, they shall have sufficient organizational freedom to ensure their independence from operating pressures.

c. A break of at least eight hours should be allowed between work periods, including shift turnover time.

d. 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 shall be authorized by the General Manager Nuclear Operations or predesignated alternate, or higher levels of management. Authorized deviations to the working hour guidelines shall be documented and available for NRC review.

6.3 FACILITY STAFF QUALIFICATIONS

6.3.1 Each member of the facility and radiation protection staff shall meet or exceed the minimum qualifications of ANSI N18.1-1971 for comparable positions, except for the Health Physics Manager who shall meet or exceed the qualifications of Regulatory Guide 1.8, September 1975, and the technical advisory engineering representative who shall have a bachelor's degree or equivalent in a scientific or engineering discipline with specific training in plant design and response analysis of the plant for transients and accidents.

6.4 TRAINING

6.4.1 A retraining and replacement training program for the facility staff shall be maintained under the direction of the Nuclear Training Manager 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.

6.5 REVIEW AND AUDIT

6.5.1 ONSITE SAFETY COMMITTEE (OSC)

FUNCTION

6.5.1.1 The OSC shall function to advise the General Manager Nuclear Operations on all matters related to nuclear safety and shall provide review capability in the areas of:

a. nuclear power plant operations
b. radiological safety
c. maintenance
d. nuclear engineering
e. nuclear power plant testing
f. technical advisory engineering
g. chemistry
h. quality control
i. instrumentation and control

COMPOSITION

6.5.1.2 The Onsite Safety Committee Supervisor is the OSC Chairman and shall appoint all members of the OSC. The membership shall consist of a minimum of one individual from each of the areas designated in 6.5.1.1.

OSC members and alternates shall meet or exceed the minimum qualifications of ANSI N18.1-1971 Section 4.4 for comparable positions. The nuclear power plant operations individual shall meet the qualifications of Section 4.2.2 and the maintenance individual shall meet the qualifications of Section 4.2.3.

ALTERNATES

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

MEETING FREQUENCY

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

QUORUM

6.5.1.5 A quorum of the OSC shall consist of the Chairman or his designated alternate and at least one half of the members including alternates.

RESPONSIBILITIES

6.5.1.6 The OSC shall be responsible for:

a. Review of 1) all procedures required by Specification 6.8 and changes of intent thereto, 2) any other proposed procedures or changes thereto as determined by the General Manger Nuclear Operations to affect nuclear safety.

b. Review of all proposed tests and experiments that affect nuclear safety.

c. Review of all proposed changes to the Technical Specifications.

d. Review of all proposed changes or modifications to plant systems or equipment that affect nuclear safety.

e. Investigation of all violations of the Technical Specifications including the preparation and forwarding of reports covering evaluation and recommendations to prevent recurrence to the General Manager, Nuclear Operations and to the Chairman of the Offsite Review Committee.

f. Review of all REPORTABLE EVENTS.

g. Review of facility operations to detect potential safety hazards.

h. Performance of special reviews, investigations or analyses and reports thereon as requested by the Chairman of the Offsite Review Committee.

AUTHORITY

6.5.1.7 The OSC shall:

a. Recommend to the General Manager Nuclear Operations written approval or disapproval of items considered under 6.5.1.6.a through .d above.

b. Render determinations in writing with regard to whether or not each item considered under 6.5.1.6.a through .e above constitutes an unreviewed safety question.

c. Provide written notification within 24 hours to the Vice President Nuclear Group and the Offsite Review Committee of disagreement between the OSC and the General Manager Nuclear Operations; however, the General Manager Nuclear Operations shall have responsibility for resolution of such disagreements pursuant to 6.1.1 above.

RECORDS

6.5.1.8 The OSC shall maintain written minutes of each meeting and copies shall be provided to the General Manager Nuclear Operations and Chairman of the Offsite Review Committee.

6.5.2 OFFSITE REVIEW COMMITTEE (ORC)

FUNCTION

6.5.2.1 The ORC shall function to provide independent review and audit of designated activities in the areas of:

a. nuclear power plant operations

b. nuclear engineering

c. chemistry and radiochemistry

d. metallurgy

e. instrumentation and control

f. radiological safety

g. mechanical and electrical engineering

h. quality assurance practices

SAFETY LIMIT VIOLATION (Continued)

c. A Safety Limit Violation Report shall be prepared. The report shall be reviewed by the On-Site Safety Committee (OSC). This report shall describe (1) applicable circumstances preceeding the violation, (2) effects of the violation upon facility components, systems or structures, and (3) corrective action taken to prevent recurrence.

d. The Safety Limit Violation Report shall be submitted to the Commission, the ORC and the General Manager, Nuclear Operations within 30 days of the violation.

6.8 PROCEDURES

6.8.1 Written procedures shall be established, implemented, and maintained covering the activities referenced below:

a. The applicable procedures recommended in Appendix "A" of Regulatory Guide 1.33, Revision 2, February 1978.

b. Refueling operations.

c. Surveillance and test activities of safety related equipment.

d. Security Plan implementation.

e. Emergency Plan implementation.

f. Fire Protection Program implementation.

g. PROCESS CONTROL PROGRAM implementation.

h. OFFSITE DOSE CALCULATION MANUAL implementation.

6.8.2 Each procedure and administrative policy of 6.8.1 above and changes of intent thereto, shall be reviewed by the OSC and approved by the General Manager Nuclear Operations, predesignated alternate, or a predesignated Manager to whom the General Manager Nuclear Operations has assigned in writing the responsibility for review and approval of specific subjects considered by the committee, as applicable. Changes to procedures and administrative policies of 6.8.1 above that do not receive OSC review, such as correcting typographical errors, reformatting procedures and other changes not affecting the purpose for which the procedure is performed shall receive an independent review by a qualified individual and approved by a designated manager or director.

6.8.3 Temporary changes to procedures of 6.8.1 above may be made provided:

a. The intent of the original procedure is not altered.

b. The change is approved by two (2) members of the plant management staff, at least one (1) of whom holds a Senior Reactor Operator's License on the unit affected.

c. The change is documented, reviewed by the OSC and approved by the General Manager Nuclear Operations, predesignated alternate or a predesignated Manager to whom the General Manager Nuclear Operations has assigned in writing the responsibility for review and approval of specific subjects, within 14 days of implementation.

6.8.4 A Post-Accident monitoring program shall be established, implemented, and maintained:

A program which will provide the capability to obtain and analyze reactor coolant, radioactive iodines and particulates in plant gaseous effluents, and containment atmosphere samples following an accident. The program shall include the following:

(i) Training of personnel,
(ii) Procedures for sampling and analysis, and
(iii) Provisions for maintenance of sampling and analysis equipment.

6.8.5 A program for monitoring of secondary water chemistry to inhibit steam generator tube degradation shall be implemented. This program shall be described in the station chemistry manual and shall include:

a. Identification of a sampling schedule for the critical parameters and control points for these parameters;

b. Identification of the procedures used to measure the values of the critical parameters;

c. Identification for process sampling points;

d. Procedures for the recording and management of data;

e. Procedures defining corrective actions for off control point chemistry conditions; and

f. A procedure identifying:

1) the authority responsible for the interpretation of the data, and
2) the sequence and timing of administrative events required to initiate corrective action.

6.17 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

The General Manger Nuclear Operations delegates the responsibility for the Radiological Environmental Monitoring Program to the Health Physics Manager or his designated alternate.

The Health Physics Manager is responsible for administering the Offsite Radiological Environmental Monitoring Program. He shall determine that the sampling program is being implemented as described to verify that the environment is adequately protected under existing procedures. He shall also have the responsibility for establishing, implementing, maintaining and approving Offsite environmental program sampling, analyses and calibration procedures.

ATTACHMENT A-2

Revise the beaver Valley Unit No. 2 Technical Specifications as follows:

Remove Pages	Insert Pages
6-1	6-1
6-2	6-2
6-6	6-6
6-7	6-7
6-8	6-8
6-12	6-12
6-13	6-13
6-14	6-14

6.0 ADMINISTRATIVE CONTROLS

6.1 RESPONSIBILITY

6.1.1 The ~~Plant Manager~~ General Manager Nuclear Operations shall be responsible for overall facility operation and shall delegate in writing the succession to this responsibility during his absence.

6.2 ORGANIZATION

6.2.1 ONSITE AND OFFSITE ORGANIZATIONS

Onsite and offsite organizations shall be established for facility operation and corporate management, respectively. The onsite and offsite organizations shall include the positions for activities affecting the safety of the nuclear power plant.

a. Lines of authority, responsibility and communication shall be established and defined for the highest management levels through intermediate levels to and including all operating organization positions. These relationships shall be documented and updated, as appropriate, in the form of organization charts, functional descriptions of departmental responsibilities and relationships, and job descriptions for key personnel positions, or in equivalent forms of documentation. These requirements shall be documented in the FSAR.

b. The ~~Plant Manager~~ shall be responsible for overall unit safe operation and shall have control over those onsite activities necessary for safe operation and maintenance of the plant.

c. The Vice President Nuclear Group shall have corporate responsibility for overall plant nuclear safety and shall take any measures needed to ensure acceptable performance of the staff in operating, maintaining, and providing technical support to the plant to ensure nuclear safety.

d. The individuals who train the operating staff and those who carry out health physics and quality assurance functions may report to the appropriate onsite manager; however, they shall have sufficient organizational freedom to ensure their independence from operating pressures.

6.2.2 UNIT STAFF

The unit organization shall be subject to the following:

a. Each 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.

c. At least two licensed Operators shall be in the control room during reactor start-up, scheduled reactor shutdown and during recovery from reactor trips.

PROPOSED

UNIT STAFF (Continued)

d. An individual qualified in radiation protection procedures shall be onsite when fuel is in the reactor.

e. All CORE ALTERATIONS after the initial fuel loading shall be directly supervised by either a licensed Senior Reactor Operator or Senior Reactor Operator Limited to Fuel Handling who has no other concurrent responsibilities during this operation.

f. Administrative procedures shall be developed and implemented to limit the working hours of unit staff who perform safety-related functions; senior reactor operators, reactor operators, radiation control technicians, auxiliary operators, meter and control repairman, and all personnel actually performing work on safety related equipment.

The objective shall be to have operating personnel work a normal 8-hour day, 40-hour week while the plant is operating. However, in the event that unforeseen problems require substantial amounts of overtime to be used, or during extended periods of shutdown for refueling, major maintenance or major plant modifications, on a temporary basis, the following guidelines shall be followed:

a. An individual should not be permitted to work more than 16 hours straight, excluding shift turnover time.

b. An individual should not be permitted to work more than 16 hours in any 24-hour period, nor more than 24 hours in any 48-hour period, nor more than 72 hours in any seven day period, all excluding shift turnover time.

c. A break of at least eight hours should be allowed between work periods, including shift turnover time.

d. 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 shall be authorized by the ~~Plant Manager~~ General Manager Nuclear Operations or predesignated alternate, or higher levels of management. Authorized deviations to the working hour guidelines shall be documented and available for NRC review.

6.2.3 INDEPENDENT SAFETY EVALUATION GROUP (ISEG)

FUNCTION

6.2.3.1 The ISEG shall function to examine unit operating characteristics, NRC issuances, industry advisories, Licensee Event Reports, and other sources of unit design and operating experience information, including units of similar design, which may indicate areas for improving unit safety. The ISEG shall make detailed recommendations for revised procedures, equipment modifications, maintenance activities, operations activities, or other means of improving unit safety to corporate management. If not otherwise implemented, all recommendations shall then be made to the Vice President, Nuclear Group.

6.3 FACILITY STAFF QUALIFICATIONS

6.3.1 Each member of the facility and Radiation Protection staff shall meet or exceed the minimum qualifications of ANSI N18.1-1971 for comparable positions, except for the ~~Radiological Control Manager~~ Health Physics Manager who shall meet or exceed the qualifications of Regulatory Guide 1.8, September 1975, and the technical advisory engineering representative who shall have a bachelor's degree or equivalent in a scientific or engineering discipline with specific training in plant design and response analysis of the plant for transients and accidents.

6.4 TRAINING

6.4.1 A retraining and replacement training program for the facility staff shall be maintained under the direction of the Nuclear Training Manager 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.

6.5 REVIEW AND AUDIT

6.5.1 ONSITE SAFETY COMMITTEE (OSC)

FUNCTION

6.5.1.1 The OSC shall function to advise the ~~Plant Manager~~ General Manager Nuclear Operations on all matters related to nuclear safety and shall provide review capability in the areas of:

a. nuclear power plant operations
b. radiological safety
c. maintenance
d. nuclear engineering
e. nuclear power plant testing
f. technical advisory engineering
g. chemistry
h. quality control
i. instrumentation and control

COMPOSITION

6.5.1.2 The ~~plant Safety Review Director~~ Onsite Safety Committee Supervison is the OSC Chairman and shall appoint all members of the OSC. The membership shall consist of a minimum of one individual from each of the ares designated in 6.5.1.1.

OSC members and alternates shall meet or exceed the minimum qualifications of ANSI N18.1-1971 Section 4.4 for comparable positions. The nuclear power plant operations individual shall meet the qualifications of Section 4.2.2 and the maintenance individual shall meet the qualifications of Section 4.2.3.

COMPOSITION (Continued)

ALTERNATES

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

MEETING FREQUENCY

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

QUORUM

6.5.1.5 A quorum of the OSC shall consist of the Chairman or his designated alternate and at least one half of the members including alternates.

RESPONSIBILITIES

6.5.1.6 The OSC shall be responsible for:

a. Review of 1) all procedures required by Specification 6.8 and changes of intent thereto, 2) any other proposed procedures or changes thereto as determined by the ~~Plant Manager~~ General Manager Nuclear Operations to affect nuclear safety.

b. Review of all proposed tests and experiments that affect nuclear safety.

c. Review of all proposed changes to the Technical Specifications.

d. Review of all proposed changes or modifications to plant systems or equipment that affect nuclear safety.

e. Investigation of all violations of the Technical Specifications including the preparation and forwarding of reports covering evaluation and recommendations to prevent recurrence to the General Manager, Nuclear Operations and to the Chairman of the Offsite Review Committee.

f. Review of all REPORTABLE EVENTS.

g. Review of facility operations to detect potential safety hazards.

h. Performance of special reviews, investigations or analyses and reports thereon as requested by the Chairman of the Offsite Review Committee.

PROPOSED

AUTHORITY

6.5.1.7 The OSC Shall:

a. Recommend to the ~~Plant Manager~~ written approval or disapproval of items considered under 6.5.1.6(a) through (d) above.

b. Render determinations in writing with regard to whether or not each item considered under 6.5.1.6(a) through (e) above constitutes an unreviewed safety question.

c. Provide written notification within 24 hours to the ~~General Manager Nuclear Operations~~ Vice President Nuclear Group and the Offsite Review Committee of disagreement between the OSC and the ~~Plant Manager~~; however, the ~~Plant Manager~~ General Manager Nuclear Operations shall have responsibility for resolution of such disagreements pursuant to 6.1.1. above.

RECORDS

6.5.1.8 The OSC shall maintain written minutes of each meeting and copies shall be provided to the General Manager Nuclear Operations and Chairman of the Offsite Review Committee.

6.5.2 OFFSITE REVIEW COMMITTEE (ORC)

FUNCTION

6.5.2.1 The ORC shall function to provide independent review and audit of designated activities in the areas of:

a. nuclear power plant operations

b. nuclear engineering

c. chemistry and radiochemistry

d. metallurgy

e. instrumentation and control

f. radiological safety

g. mechanical and electrical engineering

h. quality assurance practices

6.7 SAFETY LIMIT VIOLATION

6.7.1 The following actions shall be taken in the event a Safety Limit is violated:

a. The facility shall be placed in at least HOT STANDBY within one (1) hour.

b. The Safety Limit violation shall be reported to the Commission within one hour. The Safety Limit violation shall be reported to the General Manager Nuclear Operations and to the ORC within 24 hours.

c. A Safety Limit Violation Report shall be prepared. The report shall be reviewed by the On-Site Safety Committee (OSC). This report shall describe (1) applicable circumstances preceding the violation, (2) effects of the violation upon facility components, systems or structures, and (3) corrective action taken to prevent recurrence.

d. The Safety Limit Violation Report shall be submitted to the Commission, the ORC and the General Manager, Nuclear Operations within 30 days of the violation.

6.8 PROCEDURES

6.8.1 Written procedures shall be established, implemented, and maintained covering the activities referenced below:

a. The applicable procedures recommended in Appendix "A" of Regulatory Guide 1.33, Revision 2, February 1978.

b. Refueling operations.

c. Surveillance and test activities of safety related equipment.

d. Security Plan implementation.

e. Emergency Plan implementation.

f. Fire Protection Program implementation.

g. PROCESS CONTROL PROGRAM implementation.

h. OFFSITE DOSE CALCULATION MANUAL implementation.

6.8.2 Each procedure and administrative policy of 6.8.1 above and changes of intent thereto, shall be reviewed by the OSC and approved by the ~~Plant Manager~~, predesignated alternate or a predesignated Manager to whom the ~~Plant Manager~~ has assigned in writing the responsibility for review and approval of specific subjects considered by the committee, as applicable. Changes to procedures and administrative policies of 6.8.1 above that do not receive OSC review, such as correcting typographical errors, reformatting procedures and other changes not affecting the purpose for which the procedure is performed shall receive an independent review by a qualified individual and approved by a designated manager or director.

General Manager, Nuclear Operations

PROPOSED

PROCEDURE (Continued)

6.8.3 Temporary changes to procedures of 6.8.1 above may be made provided:

a. The intent of the original procedure is not altered.

b. The change is approved by two (2) members of the plant management staff, at least one (1) of whom holds a Senior Reactor Operator's License on the unit affected.

c. The change is documented, reviewed by the OSC and approved by the ~~Plant Manager~~, predesignated alternate or a predesignated Manager to whom the ~~Plant Manager~~ has assigned in writing the responsibility for review and approval of specific subjects, within 14 days of implementation.

General Manager Nuclear Operations

6.8.4 A Post-Accident monitoring program shall be established, implemented, and maintained. The program will provide the capability to obtain and analyze reactor coolant, radioactive iodines and particulates in plant gaseous effluents, and containment atmosphere samples following an accident. The program shall include the following:

(i) Training of personnel,
(ii) Procedures for sampling and analysis, and
(iii) Provisions for maintenance of sampling and analysis equipment.

6.8.5 A program for monitoring of secondary water chemistry to inhibit steam generator tube degradation shall be implemented. This program shall be described in the station chemistry manual and shall include:

a. Identification of a sampling schedule for the critical parameters and control points for these parameters;

b. Identification of the procedures used to measure the values of the critical parameters;

c. Identification for process sampling points;

d. Procedures for the recording and management of data;

e. Procedures defining corrective actions for off control point chemistry conditions; and

f. A procedure identifying:

1) the authority responsible for the interpretation of the data, and

2) the sequence and timing of administrative events required to initiate corrective action.

6.9 REPORTING REQUIREMENTS

ROUTINE REPORTS

6.9.1 In addition to the applicable reporting requirements of Title 10, Code of Federal Regulations, the following reports shall be submitted to the U.S. Nuclear Regulatory Commission, Document Control Desk.

PROPOSED

FUNCTION (Continued)

2. 10 CFR Part 50, Section 50.34a(b)(2) requires that each application to construct a nuclear power reactor provide an estimate of the quantity of radionuclides expected to be released annually to unrestricted areas in liquid and gaseous effluents produced during normal reactor operation.

3. 10 CFR Part 50, Section 50.34a(3) requires that each application to construct a nuclear power reactor provide a description of the provisions for packaging, storage and shipment offsite of solid waste containing radioactive materials resulting from treatment of gaseous and liquid effluents and from other sources.

4. 10 CFR Part 50, Section 50.34a(3)(c) requires that each application to operate a nuclear power reactor shall include (1) a description of the equipment and procedures for the control of gaseous and liquid effluents and for the maintenance and use of equipment installed in radioactive waste systems and (2) a revised estimate of the information required in (b)(2) if the expected releases and exposures differ significantly from the estimate submitted in the application for a construction permit.

5. The Regulatory staff's Safety Evaluation Report and amendments thereto issued prior to the issuance of an operating license contains a description of the radioactive waste systems installed in the nuclear power reactor and a detailed evaluation (including estimated releases of radioactive materials in liquid and gaseous waste and quantities of solid waste produced from normal operation, estimated annual maximum exposures to an individual in the unrestricted area and estimated exposures to the general population) which shows the capability of these systems to meet the appropriate regulations.

6.17 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

The General Manager Nuclear Operations delegates the responsibility for the Radiological Environmental Monitoring Program to the ~~Radiological Control Manager~~ or his designated alternate.

Health Physics Manager

The ~~Radiological Control Manager~~ is responsible for administering the offsite Radiological Environmental Monitoring Program. He shall determine that the sampling program is being implemented as described to verify that the environment is adequately protected under existing procedures. He shall also have the responsibility for establishing, implementing, maintaining and approving offsite environmental program sampling, analyses and calibration procedures.

PROPOSED

ATTACHMENT B

Safety Analysis
Beaver Valley Power Station
Proposed Technical Specification Change
BV-1 Change No. 174
BV-2 Change No. 36

Description of Amendment Request: The proposed amendment would modify the administrative control requirements by replacing applicable titles with the new titles developed for the Nuclear Group organization. The Plant Manager has been promoted to General Manager Nuclear Operations with responsibility for Maintenance, Chemistry, Onsite Safety Committee and Plant Operations. The administrative control sections have been revised to incorporate the following new titles:

Title Change (from/to)	Sections Affected	
Plant Manager/ General Manager Nuclear Operations	6.1.1	6.5.1.7.a
	6.2.1.b	6.5.1.7.c
	6.2.2.f	6.8.2
	6.5.1.1	6.8.3.c
	6.5.1.6.a	
Radiological Control Manager/ Health Physics Manager	6.3.1	
	6.17	
Plant Safety Review Director/ Onsite Safety Committee Supervisor	6.5.1.2	

Section 6.5.1.7.c has also been revised to provide for written notification of a disagreement between the OSC and the General Manager Nuclear Operations to the next higher level of management which is the Vice President Nuclear Group. These changes are administrative in nature since the change in title will not reduce the effectiveness of the control measures, resources or the support functions required for acceptable staff performance. The proposed changes do not represent any reduction in current safety requirements or reduce the assurance that the nuclear plants will be operated in a safe manner. Chapter 12 of the Unit 1 UFSAR and Chapter 13 of the Unit 2 UFSAR will continue to document the detailed organizational structure required by the Technical Specifications. Therefore, the proposed changes will not alter the conclusion that the organization will be maintained to operate the plants safely and will not reduce the safety of the nuclear plants.

ATTACHMENT C

No Significant Hazard Evaluation
Beaver Valley Power Station
Proposed Technical Specification Change
BV-1 Change No. 174
BV-2 Change No. 36

Basis for proposed no significant hazards consideration determination: The Commission has provided standards for determining whether a significant hazards consideration exists in accordance with 10CFR50.92(c). A proposed amendment to an operating license for a facility involves no significant hazards consideration if operation of the facility in accordance with the proposed amendment would not (1) involve a significant increase in the probability or consequences of an accident previously evaluated, (2) create the possibility of a new or different kind of accident from any accident previously evaluated, or (3) involve a significant reduction in a margin of safety.

The proposed changes do not involve a significant hazard consideration because:

1. The management organization may be changed in many ways and continue to maintain those features which ensure the nuclear plants will be operated safely. Duquesne Light has determined that promoting the Plant Manager to General Manager Nuclear Operations will provide the organizational structure required to adequately support this conclusion. This structure will continue to provide the lines of authority, responsibility, communication and freedom required to provide for the safe operation of the nuclear plants. Therefore, based on the above, the proposed changes have been determined to be safe and will not reduce the safety of the plant. Those changes do not require any changes in plant design or affect the FSAR accident analysis. Thus, the proposed changes will not involve a significant increase in the probability or consequences of an accident previously evaluated.

2. The Nuclear Group organization is documented in the UFSAR and is maintained in accordance with the UFSAR update schedule setforth in 10CFR50.71(e). The proposed change reflects a change in title and is therefore administrative in nature and will not affect the operation of the plant or change any operating parameters and consequently will not create the possibility of a new or different kind of accident from those described in the UFSAR.

3. The proposed changes reflect the company commitment to maintain qualified personnel in positions of responsibility. Those changes will not affect any of the plant setpoints or margins to the accident analysis or technical specification limits. Therefore, the plant safety margins will not be reduced as a result of these changes.

Therefore, based on the above considerations, this amendment does not involve a significant hazard.

ATTACHMENT D-1

Beaver Valley Power Station, Unit No. 1

Proposed Technical Specification Change No. 174

UFSAR Section 12 changes

12.2 TRAINING

12.2.1 Program Description

The Beaver Valley Power Station Training Department program is administered by the Manager, Nuclear Training under the supervision of the General Manager Nuclear Services Unit. The program is conducted by use of qualified instructors from within the Company and outside training organizations. The program includes, but is not limited to:

1. Operations Training
2. Radiological Control Training
3. Chemistry Training
4. Technical Personnel Training
5. Maintenance Training
6. Quality Control Training
7. Environmental Protection Training.

12.2.2 Licensed Operating Personnel Training

12.2.2.1 Purpose

Operating Group training is provided to familiarize operating personnel with nuclear plant systems and components, the proper and best method for operating these systems and components by use of procedures and reactor and plant controls, and station parameters to the extent that operating personnel may take prompt, and correct action in the event of an unusual occurrence or emergency. The operating group is responsible for the safe and proper operation of the station and must be trained to provide reasonable assurance that this requirement can be achieved.

All operating personnel required to hold a license, according to regulatory requirements stated in 10CFR55 such as Reactor Operators (RO) and Senior Reactor Operators (SRO), are provided the necessary training in order to qualify.

12.2.2.2 Training Outline

The training program for operating personnel is commensurate with their previous education, training and experience; however, the normal training sequence is as follows:

1. PHASE 1: Academic Training. Classroom training in the fundamentals of mathematics, nuclear sciences and theoretical aspects of nuclear power plant behavior. This phase also includes training in supervisory and leadership skills.

12.2.4.3 Evaluation

Annual examination

An annual comprehensive written examination shall be administered to all individuals who participate in the requalification program. The results of this examination will be evaluated by the Manager, Nuclear Training Department, the Nuclear ~~Station~~ Operations ~~Supervisor and~~ the ~~Plant Manager~~ to determine areas in which additional retraining is needed.

Managers, and

General Manager Nuclear Operations

Periodic examinations

Periodic short-written examinations will be administered to determine a licensed Reactor Operator's or a licensed Senior Reactor Operator's knowledge of subjects covered in the formal lectures or individual study portions of the requalification program. Remedial training will be given to those achieving a grade of less than 80 percent.

Observation and Evaluation

The performance and competence of licensed Reactor Operators and Senior Reactor Operators shall be evaluated at least annually by observation or a critique of the manner in which the operators responded in:

1. Recognizing and managing such events as abnormal occurrences

2. Responding to off normal operating conditions or simulated emergency or abnormal operating conditions.

Final evaluation will be accomplished using the BVPS-1 control panel or station simulator control panel.

Accelerated Requalification Program

A licensed Reactor Operator or Senior Reactor Operator whose score is less than 80 percent in any section of the comprehensive annual examination shall be required to attend lectures in those sections of the exam. Should the licensed Reactor Operator or Senior Reactor Operator fail to attain an overall average of at least 80 percent overall, with a minimum of 70 percent in each category in the annual examination, he shall be removed from shift duties and shall participate in requalification programs under the direction of the Manager, Nuclear Training Department. He will be returned to shift duties after retesting and achieving an overall average of 80 percent. Lectures will be scheduled in those areas in which a grade of less than 80 percent was achieved. The NRC will be notified of satisfactory completion of training prior to the individuals return to licensed duties.

12.4 REVIEW AND AUDIT

The Onsite Safety Committee (OSC) advises the ~~Plant Manager~~ General Manager Nuclear Operations on all matters related to nuclear safety. The function, composition, responsibilities, authority, quorum and meeting requirements of the OSC are given in the Technical Specifications.

The Offsite Review Committee (ORC) provides independent review and audit of designated activities. The function, composition, responsibilities, authority, quorum and meeting requirements of the ORC are given in the Technical Specifications.

ATTACHMENT D-2

Beaver Valley Power Station, Unit No. 2

Proposed Technical Specification Change No. 36

UFSAR Section 13 changes

CHAPTER 13

CONDUCT OF OPERATIONS

13.1 BEAVER VALLEY POWER STATION UNITS 1 AND 2 ORGANIZATIONAL STRUCTURE

Beaver Valley Power Station (BVPS) Units 1 and 2 are jointly owned as tenants-in-common by a consortium of electric utilities. In 1967, five Pennsylvania and Ohio utilities formed the Central Area Power Coordination (CAPCO) Group. CAPCO engages in joint power generation and transmission development for use in geographical locations occupied by constituent members. Member electric companies representing CAPCO are Cleveland Electric Illuminating, Duquesne Light, Ohio Edison, Pennsylvania Power, and Toledo Edison. Ownership interests in each of the BVPS Units are based on individual member requirements.

Duquesne Light Company was designated by joint executive action as the agent for design, construction, and operation of the BVPS units. These responsibilities include engineering, construction, testing, operation, and maintenance. A comprehensive Quality Assurance Manual is maintained for the design, construction, and safe operation of the BVPS units. A simplified corporate organizational chart of Duquesne Light Company is presented on Figure 13.1-1. The Nuclear Group identified on this figure has primary responsibility for the BVPS units within Duquesne Light Company.

In 1982, Duquesne Light Company established the Nuclear Construction Division with overall project responsibility and management of BVPS-2. Special project management functions included Project Control and Administration, Regulatory Affairs, Engineering, Construction, and Startup. As BVPS-2 neared completion, the Nuclear Group Senior Vice President was assigned primary responsibility of the project to ensure an orderly transition from the construction to operation phase.

Stone & Webster Engineering Corporation, as Agent for Duquesne Light Company, had the responsibility for design, procurement and construction of the units under the supervision of Duquesne Light Company and provided technical assistance during startup. A brief resume of Stone & Webster's experience in the building of nuclear power plants is presented in Section 1.4. Continuing services are provided by Stone & Webster as an interested records custodian and technical consultant.

Westinghouse Electric Corporation furnished the Nuclear Steam Supply System. Technical direction and assistance during core loading, initial startup, and approach to full power operation will also be provided by Westinghouse. A brief discussion of the qualifications of the Westinghouse Electric Corporation is given in Section 1.6.

13.1.2 Nuclear Group Organization

Within the Duquesne Light Company the responsibility for BVPS Units 1 and 2 was assigned to the Nuclear Group. The Group is headed by the Nuclear Group Vice President who is responsible for the safe and efficient operation of the nuclear station. Reporting to him are the following: General Manager, Nuclear Operations; General Manager, Nuclear Operations Services; General Manager, Corporate Nuclear Services; Manager, Quality Services; Manager, Nuclear Human Resources; and Director, Nuclear Communications.

The Offsite Review Committee (ORC) functions as an independant review and audit group to advise the Vice President on all matters concerning safe performance and operation of the nuclear power station.

The Nuclear Group organization chart is shown on Figure 13.1-2 and the Station Organization chart is shown on Figure 13.1-3.

13.1.2.1 Nuclear Operations Unit

The General Manager, Nuclear Operations manages the Nuclear Operations Unit and is responsible for operations, operations support, operations assessment, maintenance activities, chemistry activities, and Onsite Safety Committee activities as described below. In addition, the Nuclear Operations General Manager acts as the primary Emergency Director in support of the site Emergency Preparedness Plan.

The Onsite Safety Committee advises the Nuclear Operations General Manager in the area of nuclear safety, related to operations. The Nuclear Operations General Manager provides qualified personnel and direction to support the Onsite Safety Committee, and serves as a member of the Offsite Review Committee which advises the Nuclear Group Vice President on the overall status of areas related to nuclear safety.

Operations

Operations activities are directed by the Unit 1 Operations Manager and the Unit 2 Operations Manager under the direction of the Nuclear Operations General Manager. These activities include operation of plant systems and equipment, surveillance and equipment operability testing, troubleshooting plant equipment, supervising and coordinating outage activities and testing, review and coordination of design changes, identification of plant problems and implementation of corrective actions, and primary support of the Emergency Preparadness Plan.

The minimum shift crew composition, and applicable modes of operation required, for Beaver Valley Units 1 and 2, is given in the Technical Specifications and illustrated in Table 13.1-1.

13.1.2.1 Nuclear Operations Unit (Continued)

Operations Support

Operations support activities are directed by the Operations Support Manager under the direction of the Nuclear Operations General Manager. These activities include operation of support plant facilities, directing refueling activities, directing preparation and review of operating procedures and administrative controls, design change review, and performing and participating in problem-solving programs.

Operations Assessment

Operations assessment activities are directed by the Operations Assessment Manager under the direction of the Nuclear Operations General Manager. These activities include performing root cause evaluation of in house events, review and evaluation of industry events, review and evaluation of trends in operations, providing on-shift independant evaluation of plant activities, preparation and coordination of License Event Reports, and performing human performance evaluation system reviews.

Maintenance

Maintenance activities are directed by the Maintenance Manager under the direction of the Nuclear Operations General Manager. These activities include implementing the corrective and preventive maintenance programs; performing root cause analysis for corrective maintenance; implementing the predictive maintenance program; design change installation; and preparation of mechanical, instrument and control, and electrical maintenance procedures.

Chemistry

Chemistry activities are directed by the Chemistry Manager under the direction of the Nuclear Operations General Manager. These activities include implementing the plant chemistry control program, implementing the site non-radioactive environmental monitoring program, maintaining a qualified radiochemical analysis program, maintaining sewage treatment plant operation, and directing preparation and review of all chemistry related procedures.

Onsite Site Safety Committee

Onsite Safety Committee activities are directed by the Onsite Safety Committee Supervisor under the direction of the Nuclear Operations General Manager. These activities include review of matters related to nuclear safety, review of operations inservice surveillance test program, preparation and review of 10 CFR 50.59 safety evaluations, review of proposed changes to plant systems, and performance of 10 CFR 21 reviews as requested.

13.1.2.2 Nuclear Operations Services Unit

The General Manager, Nuclear Operations Services manages the Nuclear Operations Services Unit and is responsible for security, emergency planning, technical services, planning and scheduling, health physics, nuclear training, and nuclear construction as described below.

Security

Security activities are directed by the Security Director under the direction of the Nuclear Operations Services General Manager. These activities include all station security services.

Emergency Planning

Emergency Planning activities are directed by the Emergency Planning Director under the direction of the Nuclear Operations Services General Manager. These activities include managing the emergency preparedness program and procedures; providing an interface with local, state, and federal agencies; and providing and coordinating onsite and offsite emergency preparedness training.

Technical Services

Technical Services activities are directed by the Technical Services Manager under the direction of the Nuclear Operations Services General Manager. These activities include managing the fire protection surveillance evaluation, and fire protection design review; fire insurance carrier interface; conduct of predictive maintenance and reliability evaluations; reactor engineering analysis and support; conduct of thermal performance testing and evaluation; and system engineer evaluation of systems and components.

Planning and Scheduling

Planning and Scheduling activities are directed by the Planning and Scheduling Manager under the direction of the Nuclear Operations Services General Manager. These activities include planning and scheduling of operating plant and supporting activities; planning and scheduling of plant outages and major activities; coordinate and communicate long range planning activities; maintenance of forced outage planning and scheduling program; and coordinating site management inspection program.

Health Physics

Health Physics activities are directed by the Health Physics Manager under the direction of the Nuclear Operations Services General Manager. These activities include providing radiological engineering services and radiological control coverage, implementation of ALARA analysis, providing direction and support for all radiological waste shipping, environmental services, and maintaining the dosimetry and respiratory protection program.

13.1.2.2 Nuclear Operations Services Unit (Continued)

Nuclear Training

Nuclear Training activities are directed by the Nuclear Training Manager under the direction of the Nuclear Operations Services General Manager. These activities include establishing required Nuclear Group training program and ongoing training needs, and maintaining INPO training accreditation

Nuclear Construction

Nuclear Construction activities are directed by the Nuclear Construction Manager under the direction of the Nuclear Operations Services General Manager. These activities include providing management of capital project installation, providing contract maintenance support as required, directing craft supervision, providing turnover support to station of all capital projects, and providing safety clearance support during outages and for construction projects.

13.1.2.3 Corporate Nuclear Services Unit

The General Manager, Corporate Nuclear Services manages the Corporate Nuclear Services Unit and is responsible for nuclear engineering, nuclear safety, nuclear information services, management services, and purchasing and materials management as described below.

Nuclear Engineering

Nuclear Engineering activities are directed by the Nuclear Engineering Manager under the direction of the Corporate Nuclear Services General Manager. These activities include providing engineering and design services, maintaining design basis documentation, providing reactor engineering analyses for core reloads, preparing engineering specifications, administering the inservice inspection program, administering the electrical equipment qualification program, and preparing engineering procedures for equipment installation.

Nuclear Safety

Nuclear Safety activities are directed by the Nuclear Safety Manager under the direction of the Corporate Nuclear Services General Manager. These activities incluoe coordinating all NRC license issues, coordinating all NRC correspondence, assisting in compliance with license conditions, preparing safety analyses, preparing no significant hazards determinations, providing administration for the Offsite Review Committee, coordinating resolution of Quality Services audit items, maintaining the commitment tracking program, managing the Probablistic Risk Assessment (PRA) program, directing the independant safety evaluation group, and maintaining the Final Safety Analysis Reports.

17.1.2.3 Corporate Nuclear Services Unit (Continued)

Nuclear Information Services

Nuclear Information Services activities are directed by the Nuclear Information Services Manager under the direction of the Corporate Nuclear Services General Manager. These activities include managing software development, preparing engineering specifications and design control for all computer upgrades and replacements, coordinating personal computer requests, managing site-wide networking activities, providing all computer support for the simulators, managing strategic plans for information systems, and providing data processing services.

Management Services

Management Services activities are directed by the Management Services Manager under the direction of the Corporate Nuclear Services General Manager. These activities include managing technical publishing, providing nuclear records control, distributing all controlled documents and drawings, maintaining site technical document libraries, providing site micro graphics services, providing site administrative services, managing capital and operations and maintenance budgets, performing cost and benefit analyses, coordinating the site capital program, providing for invoice processing, providing project analysis services, and providing accounting and property records.

Purchasing and Materials Management

Purchasing and Materials Management activities are directed by the Purchasing and Materials Management Manager under the direction of the Corporate Nuclear Services General Manager. These activities include procuring all equipment, parts and consumable materials; processing all purchase orders, providing contract administration services, managing the technical procurement program, managing the commercial grade parts program, providing for warehousing of all site material, and procuring nuclear fuel.

17.1.2.4 Quality Services Unit

The Manager, Quality Services manages the Quality Services Unit and is responsible for quality services inspection and examination, quality data assessment, and quality services audit and surveillance (Quality Assurance) as described below.

Quality Services Inspection & Examination

Quality Services inspection and examination activities are directed by the Quality Services Inspection and Examination Director under the direction of the Quality Services Manager. These activities include implementing the quality control inspection program; implementing the non-destructive examination program; providing inspection and examination services; reviewing station work for quality hold points; and identifying, documenting and trending nonconforming conditions.

13.1.2.4 Quality Services Unit (Continued)

Quality Data Assessment

Quality data assessment activities are directed by the Quality Data Assessment Supervisor under the direction of the Quality Services Manager. These activities include implementing a quality data assessment information service, tracking audit findings, providing trending and performance indicator information, maintaining quality assurance program procedures, performing quality review of site procedures, and maintaining the quality concerns resolution program.

Quality Services Audit & Surveillance

Quality Services audit and surveillance (Quality Assurance) activities are directed by the Quality Services Audit and Surveillance Director under the direction of the Quality Services Manager. These activities include implementing the quality assurance audit program, implementing the quality assurance surveillance program, performing source inspections at vendor facilities, evaluating qualified suppliers and reviewing procurement documents, and providing identification and status of deficient materials.

13.1.2.5 Nuclear Human Resources Unit

The Manager, Nuclear Human Resources manages the Nuclear Human Resources Unit and is responsible for personnel administration, employment and equal employment opportunity, organization and management development, and site medical services.

13.1.2.6 Responsibilities and Qualifications

Responsibilities and minimum qualifications of key individuals in the Nuclear Group are provided in Table 13.1-2.

The line of succession of authority and responsibility for overall operation in the event of unexpected contingencies of a temporary nature is set forth as follows:

1. Nuclear Operations General Manager
2. Unit 1 Operations Manager for Unit 1, and
   Unit 2 Operations Manager for Unit 2.

The minimum qualifications for plant personnel are provided in Table 13.1-3.

TABLE 13.1-2

PERSONNEL RESPONSIBILITIES AND QUALIFICATIONS

TABLE 13.1-2 (Cont)

TABLE 13.1-2 (Cont)

POSITION: GENERAL MANAGER, CORPORATE NUCLEAR SERVICES

POSITION RESPONSIBILITIES:

Reports to the Vice President, Nuclear Group, and has responsibility for Station support activities such as personnel administration, engineering, construction, engineering information services, management services, and nuclear safety associated with Beaver Valley Power Station Units 1 and 2 and the Shippingport Decontamination and Decommissioning project.

POSITION QUALIFICATIONS:

A Bachelor of Science Degree in Engineering or related science.

Ten (10) years' or more responsible power plant experience. A minimum of four (4) of those years must have been supervisory or management experience and a minimum of three (3) of these years must have been in administration or operation of a nuclear generating station.

POSITION RESPONSIBILITIES:

The General Manager, Corporate Nuclear Services reports to the Nuclear Group Vice President and manages the Corporate Nuclear Services Unit. The General Manager, Corporate Nuclear Services is responsible for station support activities such as nuclear engineering, nuclear safety, nuclear information services, management services, and purchasing and materials management.

TABLE 13.1-2 (Cont)

POSITION: GENERAL MANAGER, NUCLEAR OPERATIONS Services UNIT

POSITION RESPONSIBILITIES:

Reports to the Vice President, Nuclear Group, and is responsible for all activities necessary for the safe and reliable operation, maintenance, testing, and refueling of the Beaver Valley Power Station in accordance with all applicable approved procedures, regulatory requirements, and company programs and objectives. In this capacity, the General Manager of Nuclear Operations is responsible for the direction of activities associated with plant operation including outage management, fuel handling, testing, material procurement, and radiological control.

POSITION QUALIFICATIONS:

A Bachelor of Science Degree in Science or Engineering

Ten (10) years' experience in design, testing, operations, maintenance, quality assurance, radiation control, or licensing activities associated with nuclear power plants.

A minimum of five (5) years of responsible administrative experience as individual in charge of working specialty as described above.

Shall have held a Senior Reactor Operator license at an operating nuclear facility or shall have at least four (4) years' experience as station superintendent of an operating nuclear power plant or a position of equal responsibility with day-to-day involvement in plant operation.

POSITION RESPONSIBILITIES:

The General Manager, Nuclear Operations Services reports to the Nuclear Group Vice President and manages the Nuclear Operations Services Unit. The General Manager, Nuclear Operations Services is responsible for station support activities such as security, emergency planning, technical services, planning and scheduling, health physics, nuclear training, and nuclear construction.

TABLE 13.1-2 (Cont)

POSITION: MANAGER, QUALITY ~~ASSURANCE~~ Services UNIT

POSITION RESPONSIBILITIES:

Reports to the Vice President, Nuclear Group, and is responsible for the development and implementation of the Duquesne Light Company Quality Assurance Program to assure compliance with regulatory requirements during the design, procurement, construction, and operational phases of the Company's nuclear generating stations.

POSITION QUALIFICATIONS:

A Bachelor of Science Degree in Engineering or Physical Sciences from an accredited college or university preferred or twenty (20) years experience in generating facilities' design, construction, or operation.

At least ten (10) years' experience in nuclear plant engineering, construction, operations, or quality assurance/quality control.

POSITION RESPONSIBILITIES:

The Manager, Quality Services reports to the Nuclear Group Vice President and manages the Quality Services Unit. The Quality Services Manager is responsible for quality services inspection and examination, quality data assessment, and quality services audit and surveillance. Quality services audit and surveillance activities include development and implementation of the Duquesne Light Company Quality Assurance Program to assure compliance with regulatory requirements during the design, procurement, construction, and operation phases of the Company's nuclear generating stations.

TABLE 13.1-2 (Cont)

POSITION: ~~PLANT MANAGER, PLANT OPERATIONS~~ General Manager, Nuclear Operations Unit

POSITION RESPONSIBILITIES:

Reports to the General Manager, Nuclear Operations Unit, and is responsible for the operation of the Beaver Valley Power Station and the operation and maintenance of all equipment, buildings, and grounds associated with the Station, and to obtain the cooperation of other staff members, superintendents, and directors, in the performance of the job duties.

POSITION QUALIFICATIONS:

A Bachelor of Science Degree in Engineering or related science.

Ten (10) years' or more responsible power plant experience. A minimum of four (4) of these years must have been supervisory or management experience and a minimum of three (3) of these years must have been in design, construction, or operation of a nuclear generating station. During the three years, the individual shall have participated in management activities of an operating plant for:

1. Two (2) months' operation above 20 percent power.
2. A routine refueling outage.
3. An initial startup testing or post-refueling outage startup testing program.

Holds or has held a Senior Reactor Operator License at this or a similar facility.

POSITION RESPONSIBILITIES

The General Manager, Nuclear Operations reports to the Nuclear Group Vice President and manages the Nuclear Operations Unit. The General Manager, Nuclear Operations is responsible for all activities related to Beaver Valley Power Station in the area of operations, operations support, operations assessment, maintenance activities, chemistry activities, and Onsite Safety Committee activities. In addition, the Nuclear Operations General Manager acts as the primary Emergency Director in support of the site Emergency Preparedness Plan, and serves as a member of the Offsite Review Committee which advises the Nuclear Group Vice President on the overall status of areas related to nuclear safety.

TABLE 13.1-2 (Cont)

POSITION: MANAGER OF TECHNICAL SERVICES

POSITION RESPONSIBILITIES:

Reports to the General Manager, Nuclear Operations Unit, and is responsible for providing technical support to the Plant Manager and for the conduct of activities in the Chemistry, Advisory Engineering, Onsite Safety Committee, Testing, and Material Management Sections in accordance with all applicable approved procedures, government regulations, licenses, and permits, and Company program and objectives.

POSITION QUALIFICATIONS:

A Bachelor of Science Degree in Engineering or related science.

Four (4) years' experience in a responsible position related to power generation of which three (3) years shall be nuclear power plant experience. (Draft ANS 3.1 May 1980 - Technical Manager).

Presently holds an NRC Senior Reactor Operator license, or has held a license for a similar unit or have been certified at the plant or at an appropriate simulator. (Draft ANS 3.1 - May 1980 - Technical Manager). The individual will have practical and technical knowledge of operational characteristics of nuclear power station equipment and systems...

POSITION RESPONSIBILITIES:

The Technical Services Manager reports to the Nuclear Operations Services General Manager. The Technical Services Manager is responsible for the following activities: managing the fire protection surveillance evaluation, and fire protection design review; fire insurance carrier interface; conduct of predictive maintenance and reliability evaluations; reactor engineering analysis and support; conduct of thermal performance testing and evaluation; and system engineer evaluation of systems and components.

TABLE 13.1-2 (Cont)

POSITION: MANAGER, ~~RADIOLOGICAL CONTROL~~ Health Physics

POSITION RESPONSIBILITIES:

Reports to the General Manager, Nuclear Operations Unit, and is responsible for the Radiological Controls Program, Environmental Monitoring Program, Respiratory Protection Program, Dosimetry and Bioassay Program, Industrial Safety Program, Effluent Control Program, Radiological Engineering and Radwaste Management Program, and serves as Radiation Protection Manager as specified in NRC Regulatory Guide 8.8.

POSITION QUALIFICATIONS:

A Bachelor of Science Degree in Science or Engineering, or equivalent in specialized training and/or related experience.

Six (6) or more years' experience in applied health physics or a related science, or six (6) or more years experience in nuclear power plant supervision.

POSITION RESPONSIBILITIES:

The Health Physics Manager reports to the Nuclear Operations Services General Manager. The Health Physics Manager is responsible for the following activities: providing radiological engineering services and radiological control coverage, implementation of ALARA analysis, providing direction and support for all radiological waste shipping, rad waste management, maintaining the dosimetry and respiratory protection program, environmental services, and implementing the industrial safety program. This manager also serves as Radiation Protection Manager specified in NRC Regulatory Guide 8.8.

TABLE 13.1-2 (Cont)

POSITION: MANAGER, NUCLEAR TRAINING

POSITION RESPONSIBILITIES:

Reports to the General Manager, Nuclear Operations, and is responsible for the planning, direction, and administration of the Nuclear Group training program, including all related training activities for the Nuclear Group. Is responsible for administering all aspects of the nuclear Emergency Preparedness Plan.

POSITION QUALIFICATIONS:

A Bachelor of Science Degree in Science or appropriate experience in the nuclear training field.

Four (4) or more years' experience in power generating stations. ~~Holds and maintains an NRC Senior Reactor Operator's License at Beaver Valley Power Station.~~

POSITION RESPONSIBILITIES:

The Nuclear Training Manager reports to the Nuclear Operations Services General Manager. The Nuclear Training Manager is responsible for the planning, direction, and administration of the Nuclear Group Training Program including the following activities: establishing required training and ongoing training needs, and maintaining INPO training accreditation

TABLE 13.1-2 (Cont)

POSITION: MANAGER, PLANNING AND ~~OUTAGE MANAGEMENT~~ Scheduling

POSITION RESPONSIBILITIES:

Reports to the General Manager, Nuclear Operations Unit, and is responsible for the planning, coordination, and management of the Beaver Valley Power Station modification and refueling outages and directs the daily scheduling activities in support of the Beaver Valley Power Station operation.

POSITION QUALIFICATIONS:

A college degree in business, science, or engineering or a Senior Reactor Operator's License.

Five (5) or more years of experience in nuclear power plant activities.

POSITION RESPONSIBILITIES:

The Planning and Scheduling Manager reports to the Nuclear Operations Services General Manager. The Planning and Scheduling Manager is responsible for the following activities: planning and scheduling of operating plant and supporting activities; planning and scheduling of plant outages and major activities; coordinate and communicate long range planning activities; maintenance of forced outage planning and scheduling program; coordinating site management inspection program, and directing the daily scheduling activities in support of Beaver Valley Power Station operation.

TABLE 13.1-2 (Cont)

POSITION: MANAGER, NUCLEAR ENGINEERING

POSITION RESPONSIBILITIES:

Reports to the General Manager Corporate Nuclear Services and is responsible for the managerial functions of setting objectives, planning, organizing, staffing and general organization, operations and supervision of the Nuclear Engineering Department. He is responsible for providing guidance and approval of all work whether performed within the department or through the utilization of outside organizations. The manager is responsible for establishing a staff of professionals and support personnel that provides the necessary engineering, disciplines to meet DLC objectives and regulatory requirements and to integrate the work of the department as required.

POSITION QUALIFICATIONS:

A Bachelor of Science Degree in Engineering from an accredited college or university.

Ten (10) years of responsible engineering in electric utility work with at least eight years in the nuclear power field.

Registered Professional Engineer in the Commonwealth of Pennsylvania.

POSITION RESPONSIBILITIES:

The Nuclear Engineering Manager reports to the Corporate Nuclear Services General Manager. The Nuclear Engineering Manager is responsible for the managerial functions of setting objectives, planning, organizing, staffing, operations and supervision of the Nuclear Engineering Department. He provides guidance and approval of all work whether performed within the department or through the utilization of outside organizations. He is responsible for establishing a staff of professionals and support personnel that provides the necessary engineering disciplines to meet Duquesne Light Company objectives and regulatory requirements and to integrate the work of the department as required.

The Nuclear Engineering Manager is also responsibile for the following activities: providing engineering and design services, maintaining design basis documentation, providing reactor engineering analyses for core reloads, preparing engineering specifications, administering the inservice inspection program, administering the electrical equipment qualification program, and preparing engineering procedures for equipment installation.

TABLE 13.1-2 (Cont)

POSITION: MANAGER, NUCLEAR SAFETY

POSITION RESPONSIBILITIES:

Reports to the General Manager Corporate Nuclear Services, and is responsible for and sets policy related to all activities associated with obtaining, maintaining, and amending and enforcing licenses required to operate nuclear facilities and is responsible for all communications, both orally and in writing, between Duquesne Light Company and the Nuclear Regulatory Commission. The Manager of Nuclear Safety is also responsible to evaluate corporate compliance with laws, regulations, specifications, and other restrictions on nuclear plant operation. In addition, he directs safety analysis of the nuclear core and plant safety systems as well as the Fire Protection Program.

POSITION QUALIFICATIONS:

Bachelor of Science Degree in Engineering or Senior Reactor Operator's license.

Ten (10) years' experience in design, engineering, operation, maintenance, or testing of power plants of which five (5) years shall be nuclear experience.

POSITION RESPONSIBILITIES:

The Nuclear Safety Manager reports to the Corporate Nuclear Services General Manager. The Nuclear Safety Manager is responsible for and sets policy related to all activities associated with obtaining, maintaining, amending, and enforcing licenses required to operate nuclear facilities. He is responsible for coordinating all NRC license issues, coordinating all NRC correspondence, assisting in compliance with license conditions, preparing safety analyses, preparing no significant hazards determinations, providing administration for the Offsite Review Committee, coordinating resolution of Quality Services audit items, maintaining the commitment tracking program, managing the probabilistic risk assessment program, directing the independant safety evaluation group, and maintaining the Final Safety Analysis Reports.

The Nuclear Safety Manager is also responsible for all comunications, both orally and in writing, between Duquesne Light Company and the Nuclear Regulatory Commission and for evaluating corporate compliance with laws, regulations, specifications, and other restrictions on nuclear plant operation.

TABLE 13.1-2 (Cont)

POSITION: MANAGER, ~~ADMINISTRATIVE SERVICES~~ Nuclear Human Resources

POSITION RESPONSIBILITIES:

Reports to the General Manager Corporate Nuclear Services, and is responsible for the handling of relations between the Company and Nuclear Group employees, including the procurement of new employees; promotion, demotion, testing, and transfer of existing employees; the administration of the Labor Contract, handling of personnel problems, processing of job bids, evaluation of employee qualifications; the supervision and coordination of the Nuclear Group's grievance procedure; the supervision of the record keeping for all of the above employee relations activities. This person is also responsible for the Physical Security Plan and the overall direction of the contract guard force. This person is responsible for overall supervision of the Nuclear Group Office.

POSITION QUALIFICATIONS:

A Bachelor of Science ~~college~~ degree ~~or equivalent preferred~~ with emphasis on Personnel Administration.

Ten (10) years' or more experience in a generating station responsible for operation, maintenance, technical, or administrative work preferred.

At least eight years experience in positions of increasing responsibility in the Human Resources area.

POSITION RESPONSIBILITIES:

The Manager, Nuclear Human Resources reports to the Nuclear Group Vice President and manages the Nuclear Human Resources Unit. The Nuclear Human Resources Manager is responsible for employment, personnel administration, organization development, and site medical services. These areas of responsibility include the following activities: handling of relations between the Company, and Nuclear Group employees; hiring, promotion, demotion, testing, and transfer of existing employees; administration of the Labor Contract, handling of personnel problems, processing of job bids, and evaluation of employee qualifications; the supervision and coordination of the Nuclear Group's grievance procedure; career and management development; medical services; and supervision of the record keeping for all of the above human resources activities.

TABLE 13.1-2 (Cont)

POSITION: DIRECTOR OF SECURITY

POSITION RESPONSIBILITIES:

Reports to the Manager, Administrative Services, and is responsible for supervision and administration of the entire Beaver Valley plant security program.

POSITION QUALIFICATIONS:

High school graduate, with supplemental training in Business Administration at college or business school level desirable.

Five years experience in power generating stations. .

POSITION RESPONSIBILITIES:

The Security Director reports to the Nuclear Operations Services General Manager. The Security Director is responsible for the supervision and administration of the Beaver Valley Power Station security program.

TABLE 13.1-2 (Cont)

POSITION: DIRECTOR, SITE INSTRUMENT AND CONTROL

POSITION RESPONSIBILITIES:

Reports to the ~~Plant~~ Maintenance Manager and is responsible for general supervision of the Instrument and Control Section to provide proper maintenance and calibration of all instrumentation, controls, security system, and computer equipment associated with Beaver Valley Power Station, Units 1 and 2.

POSITION QUALIFICATIONS:

Bachelor of Science Degree in Electrical or Mechanical Engineering required ~~Additional education in management~~ Previous position in supervision is desirable.

Thorough practical and technical knowledge of the maintenance of the instrument and controls system and site computer equipment.

Five (5) or more years of ~~responsible~~ power plant experience in positions of increasing responsibility of which a minimum of one (1) year shall be nuclear power plant experience.

TABLE 13.1-2 (Cont)

POSITION: ~~DIRECTOR SITE~~ Manager MAINTENANCE

POSITION RESPONSIBILITIES:

Reports to the Plant Manager, and is responsible for all of the maintenance activities at both Units 1 and 2 of the Beaver Valley Power Station and the proper allocation of maintenance resources for all equipment, buildings, and grounds associated with the Station and to cooperate with other staff members, supervisors, superintendents and directors, in the performance of the job duties.

POSITION QUALIFICATIONS:

Bachelor of Science in Engineering. Additional education in management is desirable.

Five (5) or more years of responsible power plant experience, of which a minimum of one (1) year shall be nuclear power plant experience.

POSITION RESPONSIBILITIES:

The Maintenance Manager reports to the Nuclear Operations General Manager. The Maintenance Manager is responsible for all maintenance activities at Beaver Valley Power Station and the proper allocation of maintenance resources for all equipment, buildings, and grounds associated with the Station. He is responsible for implementing the corrective and preventive maintenance programs, performing root cause analysis for corrective maintenance, implementing the predictive maintenance program, design change installation, and preparation of mechanical and electrical maintenance procedures.

TABLE 13.1-2 (Cont)

POSITION: Manager, Unit 1 Operations
~~NUCLEAR OPERATING SUPERVISOR - UNIT 1~~

POSITION RESPONSIBILITIES:

Under general supervision reporting to the Plant Manager, and is responsible for the coordination of the operating activities associated with Unit 1 of the Beaver Valley Power Station, including the operation of the equipment, buildings, and grounds associated with that unit, and to obtain the cooperation of other station supervisors and staff members in the performance of his job duties to assure safe reliable station operation. He is also responsible for site radiological waste disposal.

POSITION QUALIFICATIONS:

A Bachelor of Science Degree in Engineering or its equivalent.

Six (6) or more years of responsible power plant experience of which a minimum of three (3) years shall be nuclear power plant experience.

Holds an NRC Senior Reactor Operator's License at Beaver Valley Power Station.

POSITION RESPONSIBILITIES

The Unit 1 Operations Manager reports to the Nuclear Operations General Manager. The Unit 1 Operations Manager is responsible for the following activities at Unit 1: operation of plant systems and equipment, including the operation of all equipment buildings and grounds associated with the Unit; surveillance and equipment operability testing; troubleshooting plant equipment; supervising and coordinating outage activities and testing; review and coordination of design changes; identification of plant problems and implementation of corrective actions; site radiological waste disposal; primary support of the Emergency Preparedness Plan, and obtaining the cooperation of station supervisors and staff members in the performance of his job duties to assure safe reliable station operation.

TABLE 13.1-2 (Cont)

POSITION: NUCLEAR SHIFT SUPERVISOR - UNIT 1

POSITION RESPONSIBILITIES:

Reports to the ~~Nuclear~~ Unit 1 Operations ~~Supervisor(s)~~ Manager on a shift basis and is responsible for the proper startup, operation, and shutdown of all station equipment associated with Beaver Valley Unit 1. In the absence of direct line supervision, is authorized to act as the ultimate Unit 1 authority with regard to nuclear safety.

POSITION QUALIFICATIONS:

High school diploma or equivalent.

Five (5) years or more of power plant experience, of which two (2) years shall be nuclear power plant experience, including six (6) months at Beaver Valley Power Station or a similar plant for which he seeks a license.

Holds an NRC Senior Reactor Operator's License at Beaver Valley Power Station.

TABLE 13.1-2 (Cont)

POSITION: NUCLEAR SHIFT OPERATING FOREMAN - UNIT 1

POSITION RESPONSIBILITIES:

Reports to the Nuclear Shift Supervisor, Unit 1, and is responsible for the proper startup, operation, and shutdown of all Unit 1 equipment, supervises the preparation of various logs and reports, directs all physical operations work, and provides on-the-job training of operating personnel.

POSITION QUALIFICATIONS:

High school diploma or equivalent.

Five (5) or more years of power plant experience, of which two (2) years shall be nuclear power plant experience, including six (6) months at Beaver Valley Power Station or a similar plant for which the person seeks a license.

Holds an NRC Senior Reactor Operator's License at Beaver Valley Power Station.

TABLE 13.1-2 (Cont)

POSITION: Manager, Unit 2 Operations ~~NUCLEAR OPERATING SUPERVISOR - UNIT 2~~

POSITION RESPONSIBILITIES:

Under general supervision reporting to the Plant Manager and is responsible for the coordination of the operating activities associated with Unit 2 of the Beaver Valley Power Station, including the operation of the equipment, buildings, and grounds associated with that unit, the coordination and supervision of offsite operating groups' activities to assure the proper disposition of operations problems and station responsibilities, and to obtain the cooperation of other station supervisors and staff members in the performance of his job duties to assure safe reliable station operation.

POSITION QUALIFICATIONS:

A Bachelor of Science Degree in Engineering or its equivalent.

Six (6) or more years of responsible power plant experience of which a minimum of three (3) years shall be nuclear power plant experience.

Holds an NRC Senior Reactor Operator's License at Beaver Valley Power Station.

POSITION RESPONSIBILITIES

The Unit 2 Operations Manager reports to the Nuclear Operations General Manager. The Unit 2 Operations Manager is responsible for the following activities at Unit 2: operation of plant systems and equipment, including the operation of all equipment buildings and grounds associated with the Unit; surveillance and equipment operability testing, troubleshooting plant equipment, supervising and coordinating outage activities and testing, review and coordination of design changes, identification of plant problems and implementation of corrective actions, primary support of the Emergency Preparadness Plan, and obtaining the cooperation of station supervisors and staff mamters in the performance of his job duties to assure safe reliable station operation.

TABLE 13.1-2 (Cont)

POSITION: NUCLEAR SHIFT SUPERVISOR - UNIT 2

POSITION RESPONSIBILITIES:

Reports to the ~~Nuclear~~ Unit 2 Operations ~~Supervisor(s)~~ Manager on a shift basis and is responsible for the proper startup, operation, and shutdown of all station equipment associated with Beaver Valley Unit 2. In the absence of direct line supervision, is authorized to act as the ultimate Unit 2 authority with regard to nuclear safety.

POSITION QUALIFICATIONS:

High school diploma or equivalent.

Five (5) years or more of power plant experience, of which two (2) years shall be nuclear power plant experience, including six (6) months at Beaver Valley Power Station or a similar plant for which he seeks a license.

Holds an NRC Senior Reactor Operator's License at Beaver Valley Power Station.

TABLE 13.1-2 (Cont)

POSITION: NUCLEAR SHIFT OPERATING FOREMAN - UNIT 2

POSITION RESPONSIBILITIES:

Reports to the Nuclear Shift Supervisor, Unit 2, and is responsible for the proper startup, operation, and shutdown of all Unit 2 equipment, supervises the preparation of various logs and reports, directs all physical operations work, and provides on-the-job training of operating personnel.

POSITION QUALIFICATIONS:

High school diploma or equivalent.

Five (5) or more years of power plant experience; of which two (2) years shall be nuclear power plant experience, including six (6) months at Beaver Valley Power Station or a similar plant for which the person seeks a license.

Holds an NRC Senior Reactor Operator's License at Beaver Valley Power Station.

TABLE 13.1-2 (Cont)

POSITION: ~~DIRECTOR PLANT~~ Manager CHEMISTRY

POSITION RESPONSIBILITIES:

Reports to the Manager, Technical Services, and is responsible for the administration and implementation of the station Chemistry Program. This program includes the station environmental program, hazardous waste, and control and calibration of instrumentation utilized for radioactive effluent discharges.

POSITION QUALIFICATIONS:

A Bachelor of Science Degree in Chemistry or Chemical Engineering

Four (4) years' experiance in power plant chemistry, with at least three (3) years' nuclear experience.

POSITION RESPONSIBILITIES:

The Chemistry Manager reports to the Nuclear Operations General Manager. The Chemistry Manager is responsible for administration and implementation of the plant chemistry control program; implementing the site non-radioactive environmental monitoring program; maintaining a qualified radiochemical analysis program; maintaining sewage treatment plant operation; control and disposal of non-radioactive hazardous waste; directing preparation and review of all chemistry related procedures; and for maintaining control and calibration of instrumentation utilized for radioactive effluent discharges.

TABLE 13.1-2 (Cont)

POSITION: Onsite Safety Committee Supervisor ~~DIRECTOR PLANT SAFETY REVIEW~~

POSITION RESPONSIBILITIES:

Reports to the Manager, Technical Services and is responsible for directing the activities of the Onsite Safety Committee (OSC). This committee provides recommendations to the Plant Manager on all matters relating to nuclear safety.

POSITION QUALIFICATIONS:

A Bachelor of Science Degree in Engineering or Science.

Four (4) or more years of responsible power plant experience, of which a minimum of three (3) years shall be nuclear power plants.

POSITION RESPONSIBILITIES:

The Onsite Safety Committee Supervisor reports to the Nuclear Operations General Manager. The Onsite Safety Committee Supervisor is responsible for directing the activities of the Onsite Safety Committee (OSC) in the review of matters related to nuclear safety. This committee provides recommendations to the Nuclear Operations General Manager on all matters relating to nuclear safety.

The Onsite Safety Committee Supervisor is also responsible for the following activities: review of operations inservice surveillance test program, preparation and review of 10 CFR 50.59 safety evaluations, review of proposed changes to plant systems, and performance of 10 CFR 21 reviews as requested.

TABLE 13.1-2 (Cont.)

POSITION TITLE: [redacted] SHIFT TECHNICAL ADVISOR (ENGINEER)

POSITION RESPONSIBILITIES:

Reports to the ~~Manager~~ General Manager, ~~Technical Services~~ Nuclear Operations and is responsible through the Shift Technical Advisors for providing technical plant safety assistance to the Operations Shift Supervisor within ten (10) minutes for off-normal events; for providing continuing independent evaluation of plant operations from a safety viewpoint for evaluation of the Operations Surveillance Program, and for evaluation of valve and pump trends.

POSITION QUALIFICATIONS:

Bachelor's Degree in Engineering or Physical Science which includes, as a minimum, one (1) of the following discipline areas of study:

1. Mathematics, including elementary calculus;
2. Reactor physics, chemistry, and materials;
3. Reactor thermodynamics, fluid mechanics, and heat transfer;
4. Electrical engineering, including reactor control theory.

Five (5) or more years of responsible power plant experience, two (2) years of which shall be nuclear.

TABLE 13.1-3

MINIMUM QUALIFICATION FOR PLANT PERSONNEL

	High School Diploma or Equivalent	B.S. In Engineering or Science or Equivalent	Total Power Plant Experience	Nuclear Power Plant Experience	NRC Reactor Operator License Required	NRC Senior Reactor Operator License Required	Has Held Senior Reactor Operator License
General Manager, Nuclear Operations							
~~Plant Manager~~		X	10	3			
~~Assistant Plant Manager~~		~~X~~	~~6~~	~~3~~			X
Nuclear Safety Manager		X	10	5			~~X~~
~~Radiological Control Manager~~ Health Physics		X	6	6			
Technical Services Manager		X	4	3			
Nuclear Training Manager		X	4	4			X
~~Nuclear Operating Supervisor~~ Operations Manager		X	6	3			
~~Nuclear Oper. Supv. (Op. Support)~~	~~X~~		~~5~~	~~3~~		X	
Nuclear Shift Supervisor	X		5	2		~~X~~	
Nuclear Shift Oper. Foreman	X		5	2		X	
Nuclear Control Operator	X		1	1	X	X	
Maintenance Director Manager		X	5	1			
I & C Director		X	5	1			
Test/Performance Director		X	8	4			
Refueling Supervisor		X	4	4			
Plant Chemistry Director Manager		X	4	3			
Tech. Advisory Engr. Supvsr.		X	5	2			
~~Plant Safety Review Director~~		X	4	3			
Onsite Safety Committee Supervisor							

Rev. 1

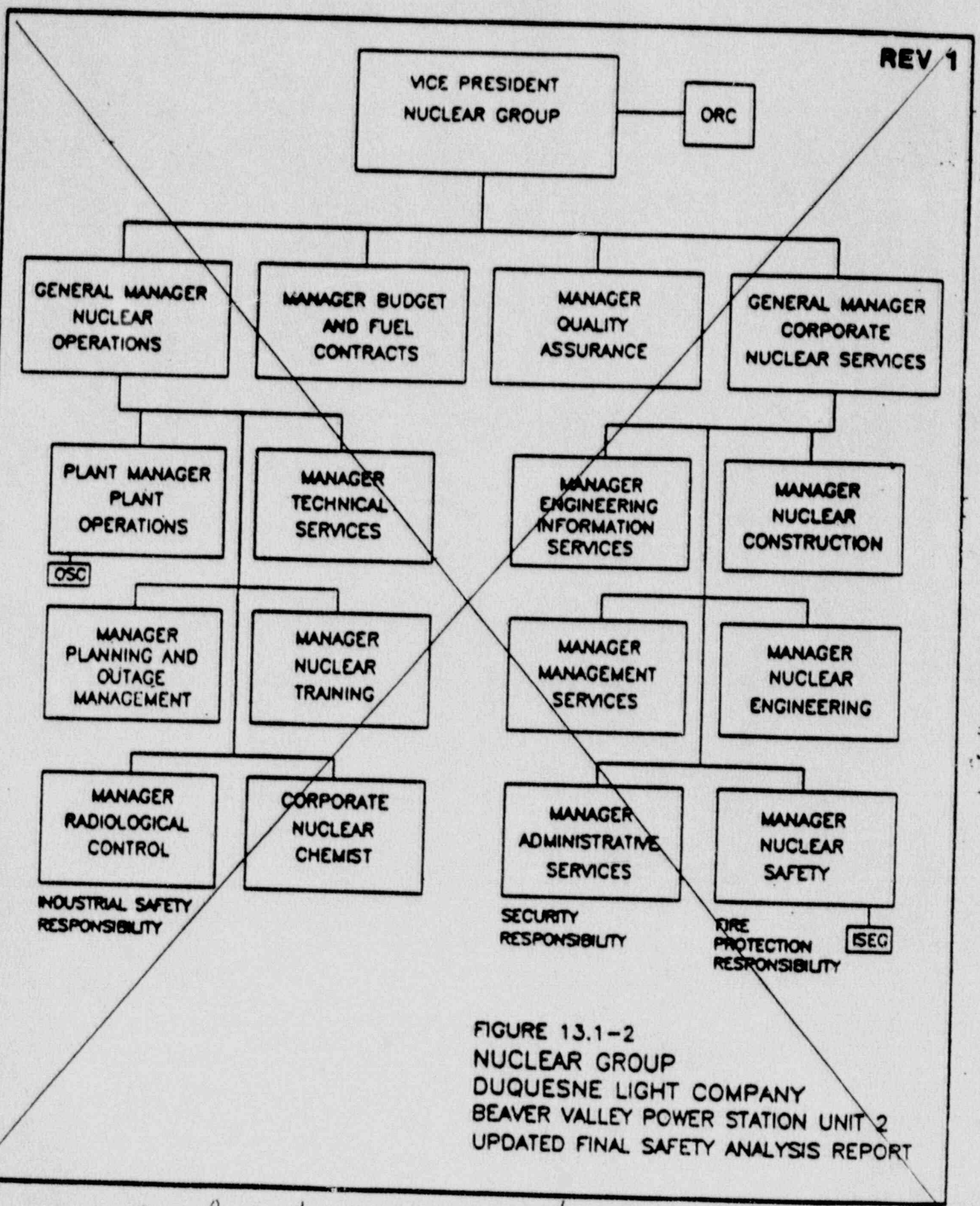

FIGURE 13.1-2
NUCLEAR GROUP
DUQUESNE LIGHT COMPANY
BEAVER VALLEY POWER STATION UNIT 2
UPDATED FINAL SAFETY ANALYSIS REPORT

See Revised Figure Attached

REV. 2

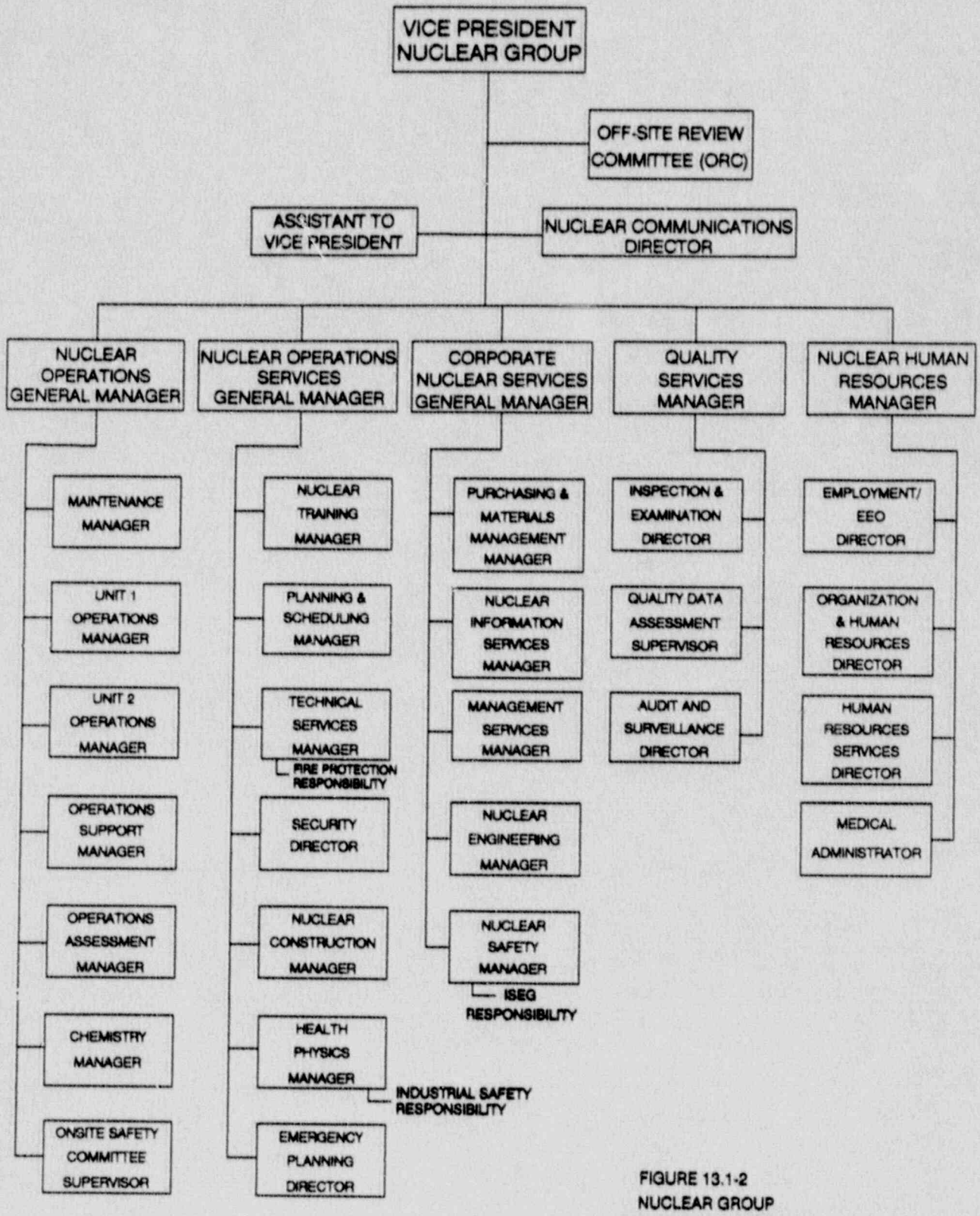

FIGURE 13.1-2
NUCLEAR GROUP
DUQUESNE LIGHT COMPANY
BEAVER VALLEY POWER STATION UNIT 2
UPDATED FINAL SAFETY ANALYSIS REPORT

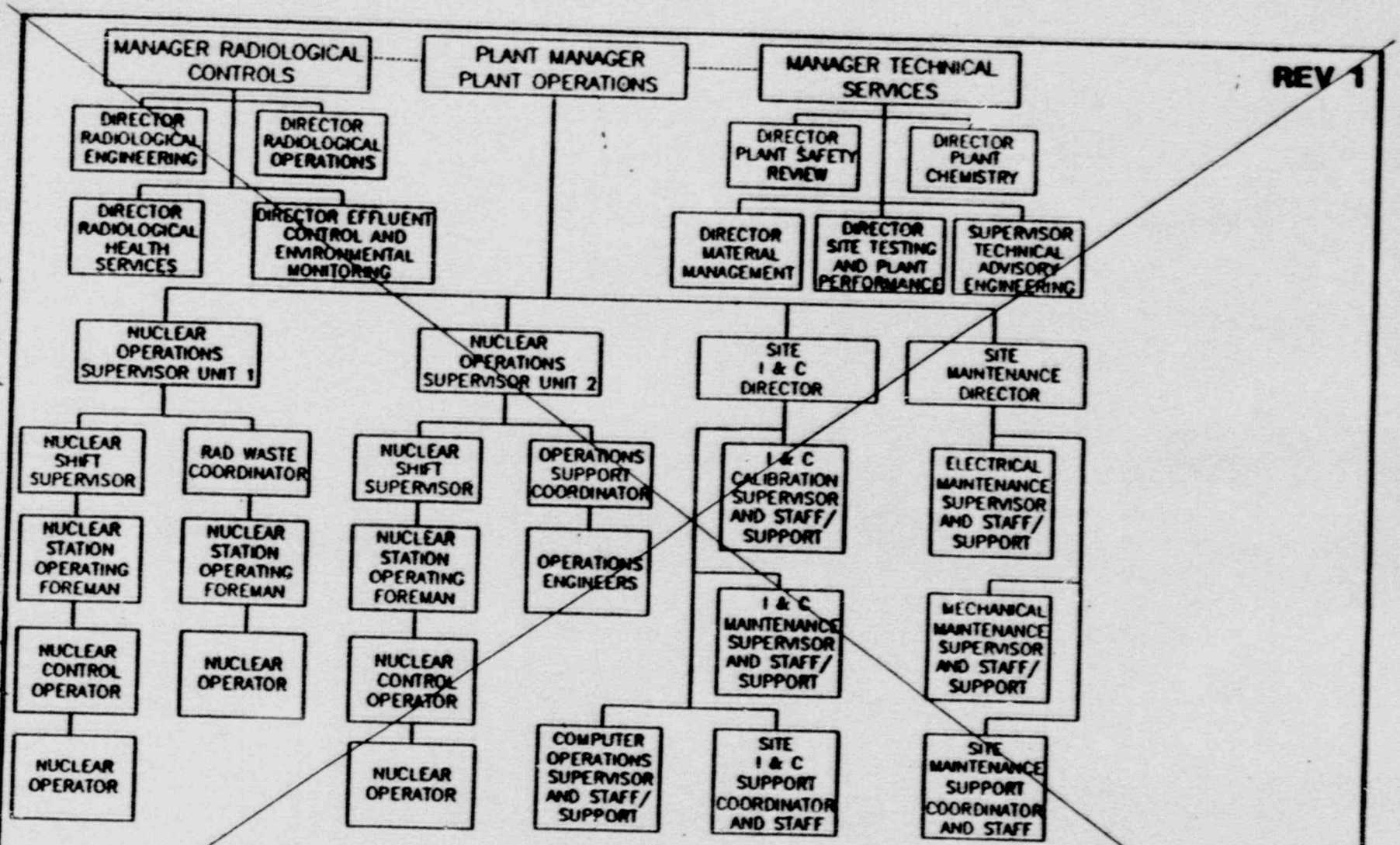

FIGURE 13.1-3
STATION ORGANIZATION
DUQUESNE LIGHT COMPANY
BEAVER VALLEY POWER STATION – UNIT 2
UPDATED FINAL SAFETY ANALYSIS REPORT

See Revised Figure Attached

REV. 2

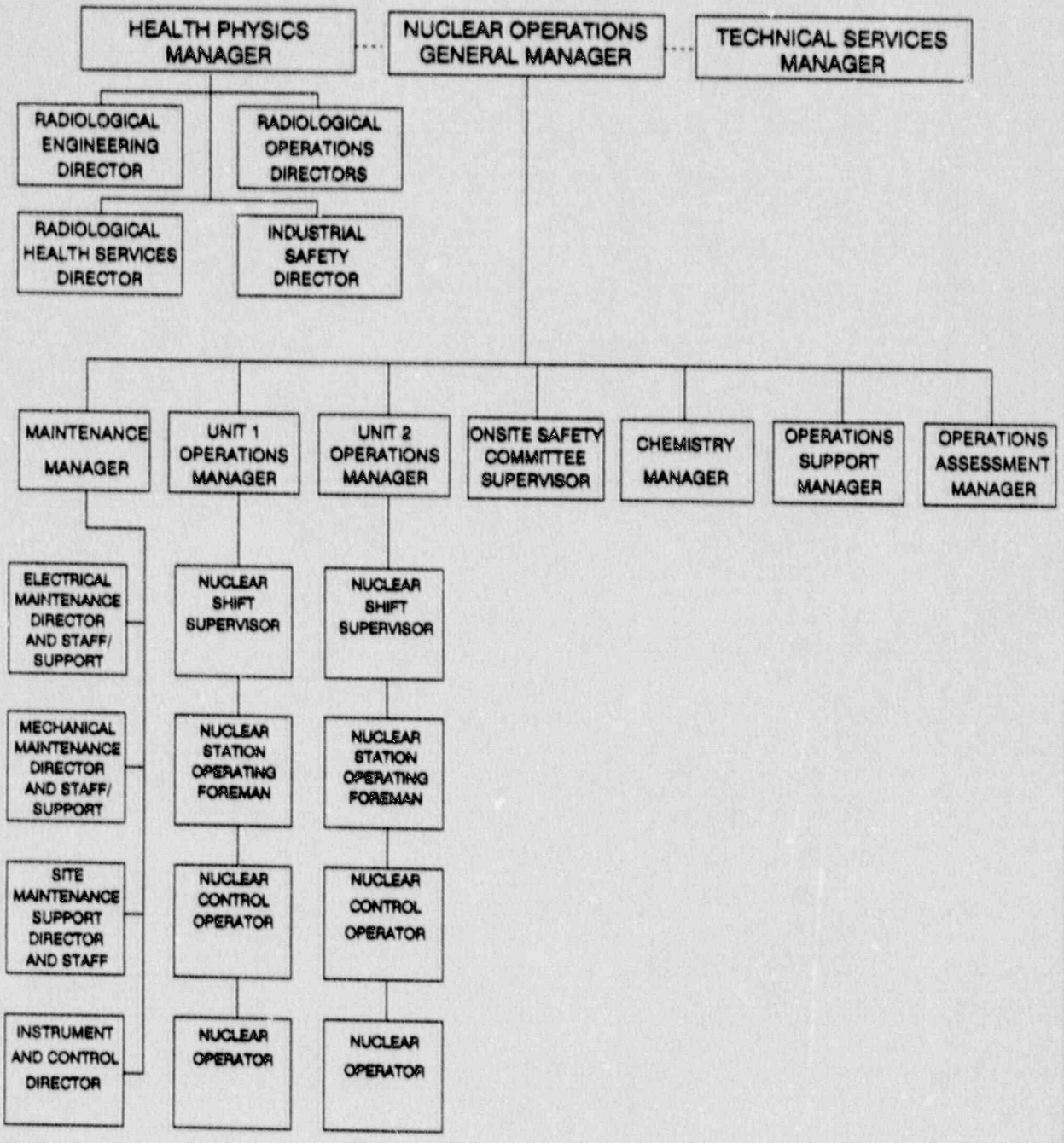

FIGURE 13.1-3
NUCLEAR GROUP
DUQUESNE LIGHT COMPANY
BEAVER VALLEY POWER STATION UNIT 2
UPDATED FINAL SAFETY ANALYSIS REPORT