

PROPOSED CHANGE RTS-134/ETS-27  
TO  
DUANE ARNOLD ENERGY CENTER  
TECHNICAL SPECIFICATIONS

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6.0 ADMINISTRATIVE CONTROLS

6.1 MANAGEMENT - AUTHORITY AND RESPONSIBILITY

- 6.1.1 The Plant Superintendent-Nuclear has primary responsibility for the safe operation of the DAEC, and reports to the Director-Nuclear Generation.
- 6.1.2 The overall responsibility for the fire protection program for DAEC is assigned to the Director-Nuclear Generation. The DAEC Plant Superintendent-Nuclear is responsible for directing the operating plant fire protection program.
- 6.1.3 The Quality Control Supervisor is responsible for implementation of the Quality Assurance Program at the DAEC and reports to the Manager-Corporate Quality Assurance.

TABLE 6.2-1

## MINIMUM SHIFT CREW PERSONNEL AND LICENSE REQUIREMENTS

<u>DAEC Job Title</u>	<u>Reactor Mode</u>	
	<u>Other Than Cold Shutdown</u>	<u>Cold Shutdown</u>
Operations Shift Supervisor	1 - SLO	1 - SLO*
Nuclear Station Operating Engineer	1 - LO	1 - LO
Assistant Nuclear Station Operating Engineer	1 - LO	
Second Assistant Nuclear Station Operating Engineer	1	1
Nuclear Station Auxiliaries Engineer	1	
Shift Technical Advisor	<u>1</u>	<u>None Required</u>
Minimum Total Personnel	<u><u>6</u></u>	<u><u>3</u></u>

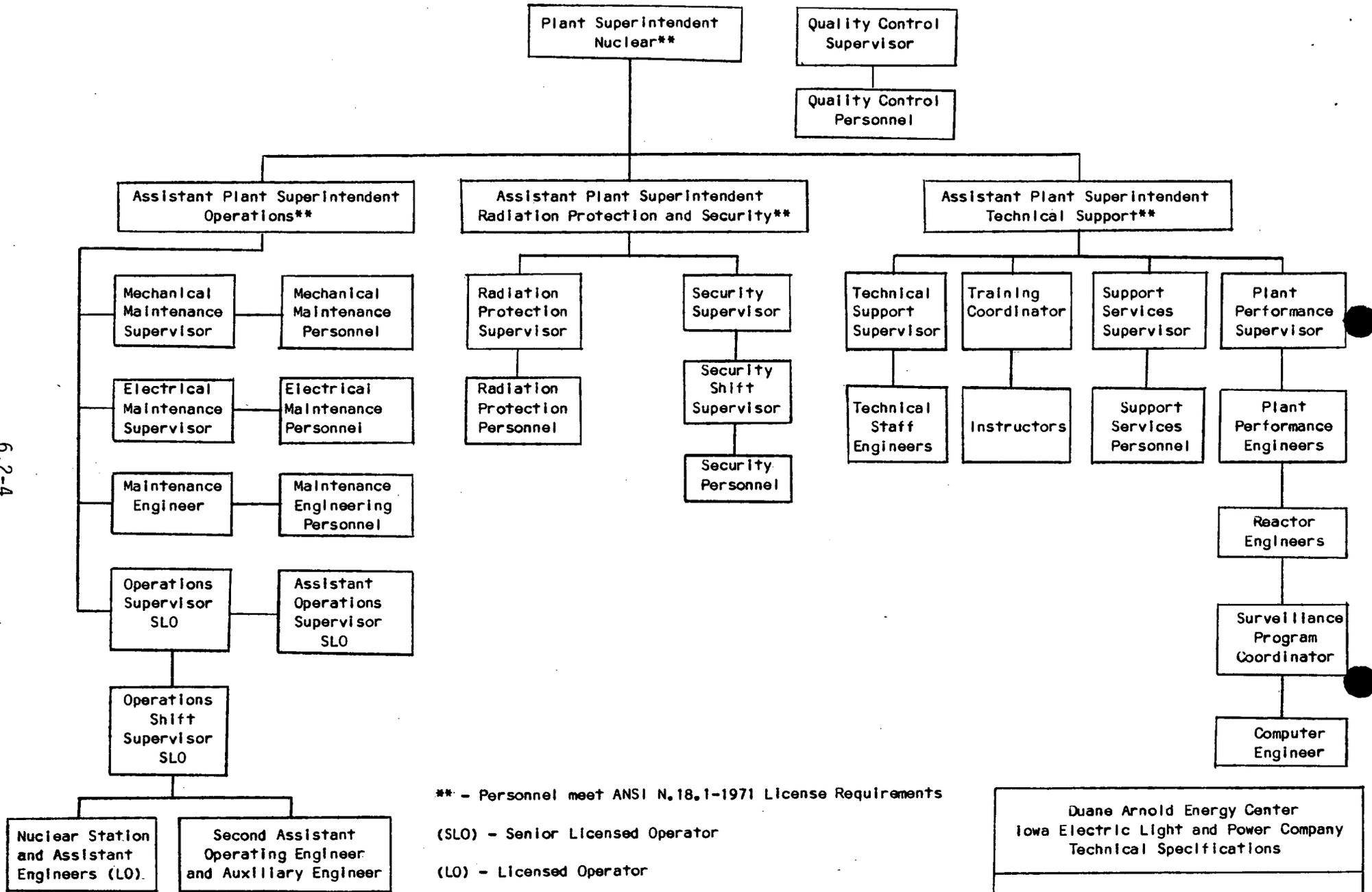
SLO - Senior Licensed Operator

LO - Licensed Operator

Substitutions - without changing minimum total personnel requirements:

- a. Individuals with senior operator license may substitute for licensed operator or nonlicensed position.
- b. Individuals with operator license may, if otherwise qualified, substitute for nonlicensed position.

\*Does not include the SLO or SLO Limited to Fuel Handling, Supervising Core Alterations.



\*\* - Personnel meet ANSI N.18.1-1971 License Requirements

(SLO) - Senior Licensed Operator

(LO) - Licensed Operator

Duane Arnold Energy Center  
Iowa Electric Light and Power Company  
Technical Specifications

DAEC Nuclear Plant Staffing  
Figure 6.2-1

6.3 PLANT STAFF QUALIFICATIONS

6.3.1 The qualifications of individual members on the plant staff will meet or exceed qualifications referenced for comparable positions in ANSI N18.1-1971.

6.3.2 The Radiation Protection Supervisor shall meet or exceed the qualifications of Regulatory Guide 1.8, September 1975.

6.3.3 The Shift Technical Advisor shall have a Bachelor's Degree or equivalent in a scientific or engineering discipline with specific training in plant design, and response and analysis of the plant for transients and accidents (effective 1/1/81).

6.4 RETRAINING AND REPLACEMENT TRAINING

- 6.4.1 A training program shall be established to maintain the overall proficiency of the operating organization. This program shall consist of both retraining and replacement training elements and shall meet or exceed the minimum provisions outlined in ANSI N18.1-1971.
- 6.4.2 A training program for the fire brigade shall be maintained under the direction of the Plant Superintendent - Nuclear and shall meet or exceed the requirements of Section 27 of the NFPA Code, except for fire brigade training sessions which shall be held at least quarterly.

6.5 REVIEW AND AUDIT

6.5.1 Operations Committee

6.5.1.1 Function

The Operations Committee shall function to advise the Plant Superintendent - Nuclear on all matters related to nuclear safety.

6.5.1.2 Composition

The Operations Committee shall be composed of the Assistant Plant Superintendents and Supervisors from the following departments: Operations, Maintenance, Plant Performance Engineering, Radiation Protection, Quality Control, and Technical Engineering.

The Assistant Plant Superintendent - Operations shall act as the Chairman. One or more of the members shall be designated as Vice Chairman.

6.5.1.3 Alternates

All alternate members shall be appointed in writing by the Plant Superintendent-Nuclear to serve on a permanent basis; however, no more than three alternates shall participate as voting members in Operations Committee activities at any one time.

#### 6.5.1.4 Meeting Frequency

The Operations Committee shall meet at least once per calendar month and as convened by the Operations Committee Chairman or Vice Chairman.

#### 6.5.1.5 Quorum

A quorum of the Operations Committee shall consist of the Chairman or Vice Chairman and five members including alternates.

#### 6.5.1.6 Responsibilities

The Operations Committee shall be responsible for:

- a. Review of (1) all procedures required by Specification 6.8, Plant Operating Procedures, and changes thereto, (2) any other proposed procedures or changes thereto as determined by the Plant Superintendent-Nuclear to affect nuclear safety.
- b. Review of all proposed tests and experiments that affect nuclear safety.
- c. Review of all proposed changes to Appendix "A" 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 Director-Nuclear Generation and to the Chairman of the Safety Committee.
- f. Review of those Reportable Occurrences requiring 24 hour notification to the Commission.
- 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 Safety Committee.
- i. Review of the Plant Security Plan and implementing procedures and shall submit recommended changes by the Chairman of the Safety Committee.
- j. Review of the Emergency Plan and implementing procedures and shall submit recommended changes to the Chairman of the Safety Committee.

#### 6.5.1.7 Authority

The Operations Committee shall:

- a. Recommend to the Plant Superintendent-Nuclear written approval or disapproval of items considered under Specification 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 Director-Nuclear Generation and the Safety Committee of disagreement between the Operations Committee and the Plant Superintendent-Nuclear; however, the Plant Superintendent-Nuclear shall have responsibility for resolution of such disagreements pursuant to Specification 6.1.1 above.

#### 6.5.1.8 Record

The Operations Committee shall maintain written minutes of each meeting and copies shall be provided to the Director-Nuclear Generation and the Chairman of the Safety Committee.

#### 6.5.2 Safety Committee

##### 6.5.2.1 Function

The Safety Committee 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.

#### 6.5.2.2 Composition

The Safety Committee shall be composed of persons who have been appointed in writing by the President to serve on a permanent basis and who collectively have or have access to applicable technical and experimental expertise in the following areas:

- a. Nuclear power plant operations.
- b. Nuclear engineering.
- c. Chemistry and radiochemistry.
- d. Instrumentation and control.
- e. Radiation protection.

f. Mechanical and electrical engineering.

g. Nuclear safety.

#### 6.5.2.3 Alternates

All alternate members shall be appointed in writing by the President to serve on a permanent basis.

#### 6.5.2.4 Consultants

Consultants shall be utilized as determined by the Safety Committee Chairman to provide expert advice to the Safety Committee.

#### 6.5.2.5 Meeting Frequency

The Safety Committee shall meet at least once per calendar quarter during the initial year of facility operation following fuel loading and at least once per six months thereafter.

#### 6.5.2.6 Quorum

A quorum of the Safety Committee shall consist of the Chairman or Vice Chairman and at least four members with a maximum of two alternates as voting members. No more than a minority of the quorum shall have line responsibility for operation of the facility.

- g. Any other area of facility operation considered appropriate by the Safety Committee or the President.
- h. Design change request safety evaluations at least once per 24 months.
- i. The DAEC Fire Protection Program and implementing procedures at least once per 24 months.

#### 6.5.2.9 Authority

The Safety Committee shall report to and advise the President on those areas of responsibility specified in Specifications 6.5.2.7 and 6.5.2.8.

#### 6.5.2.10 Records

Records of Safety Committee activities shall be prepared, approved and distributed as indicated below:

- a. Minutes of each Safety Committee meeting shall be prepared, approved and forwarded to the President within 14 days following each meeting.
- b. Reports of reviews encompassed by Specification 6.5.2.7 above, shall be prepared, approved and forwarded to the President within 14 days following completion of the review.
- c. Audit reports encompassed by Specification 6.5.2.8 above, shall be forwarded to the President and to the management positions responsible for the areas audited within 30 days after completion of the audit.

6.6 REPORTABLE OCCURRENCE ACTION

- 6.6.1 Any reportable occurrence shall be reported immediately to the Plant Superintendent - Nuclear and to the Director - Nuclear Generation, and promptly reviewed by the Operations Committee.
- 6.6.2 The Operations Committee shall prepare a separate report of each reportable occurrence. This report shall include an evaluation of the cause of the occurrence, a record of the corrective action taken, and also recommendation for appropriate action to prevent or reduce the probability of a recurrence.
- 6.6.3 Copies of all such reports shall be submitted to the Safety Committee for review and to the Director - Nuclear Generation for review and approval of any recommendations.

6.7 ACTION TO BE TAKEN IF A SAFETY LIMIT IS EXCEEDED

- 6.7.1 If a safety limit is exceeded, the reactor shall be shut down and reactor operation shall only be resumed when authorized by the NRC.
- 6.7.2 An immediate report shall be made to the Director-Nuclear Generation and the Safety Committee. The Director-Nuclear Generation shall promptly report the circumstances to the NRC as specified in Subsection 6.12, Plant Reporting Requirements.
- 6.7.3 A complete analysis of the circumstances leading up to and resulting from the situation together with recommendations to prevent a recurrence shall be prepared by the Operations Committee. This report shall be submitted to the Director-Nuclear Generation and to the Safety Committee. Appropriate analyses or reports will be submitted to the NRC by the Director-Nuclear Generation as specified in Subsection 6.12, Plant Reporting Requirements.

7. Procedures required by the Preparedness Plan.
  8. Procedures required by the Plant Security Plan.
  9. Operation of radioactive waste systems.
  10. Fire Protection Program implementation.
  
  11. A preventive maintenance and periodic visual examination program to reduce leakage from systems outside containment that would or could contain highly radioactive fluids during a serious transient to as low as practical levels. This program shall also include provisions for performance of periodic systems leak tests of each system no less frequently than at refueling cycle intervals.
  
  12. Program to ensure the capability to accurately determine the airborne iodine concentration in vital areas under accident conditions, including training of personnel, procedures for monitoring and provisions for maintenance of sampling and analysis equipment.
- 6.8.2 Procedures described in 6.3.1 above, and changes thereto, shall be reviewed by the Operations Committee and approved by the Plant Superintendent-Nuclear prior to implementation, except as provided in 6.8.3 below.
- 6.8.3 Temporary minor changes to procedures described in 6.8.1 above which do not change the intent of the original procedure may be made with the concurrence of two members of the plant management staff, at least one of whom shall hold a senior operator license. Such changes shall be documented and promptly reviewed by the Operations Committee and by the Plant Superintendent-Nuclear. Subsequent incorporation, if necessary, as a permanent change, shall be in accord with 6.8.2 above.

## 5.0 ADMINISTRATIVE CONTROL

### 5.1 Review and Audit

The Iowa Electric Light and Power Company will obtain the necessary expertise in environmental disciplines significant to the Duane Arnold Energy Center, to administer the environmental monitoring program.

Administrative measures have been defined which provide that the Quality Assurance and Quality Control group assigned the responsibility for periodically checking, auditing, inspecting, or otherwise verifying that an activity has been correctly performed is independent of the individual or group directly responsible for performing the specific activity.

Committees for review and audit other than quality assurance of plan operations have been constituted and have the responsibilities and authorities as outlined in Appendix A, Technical Specifications.

5.1.1 Deleted

5.1.2 Deleted