

PGE-8010

PORTLAND GENERAL ELECTRIC (PGE)  
NUCLEAR QUALITY ASSURANCE PROGRAM  
FOR  
TROJAN NUCLEAR PLANT

Revision 20

Portland General Electric Company  
121 SW Salmon Street  
Portland, Oregon 97204

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PGE NUCLEAR QUALITY ASSURANCE PROGRAM  
FOR  
TROJAN NUCLEAR PLANT

Approval: *Daniel J. Redstone* 12-12-96  
General Manager, Nuclear Oversight Date

Approval: *Stephen M. Manning* 12/12/96  
Trojan Site Executive and Plant General Manager Date

Portland General Electric Company  
121 SW Salmon Street  
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NUCLEAR QUALITY ASSURANCE PROGRAM

POLICY STATEMENT

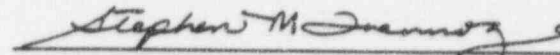
Portland General Electric Company implements a Quality Assurance (QA) Program which directs quality-related activities at the Trojan Nuclear Plant.

This QA Program complies with Title 10, Code of Federal Regulations, Part 50, Appendix B, "Quality Assurance Criteria for Nuclear Power Plants and Fuel Reprocessing Plants."

In addition to 10 CFR 50 activities, this QA Program applies to activities covered by 10 CFR 71, Subpart H, "Quality Assurance for Packaging and Transportation of Radioactive Material," and 10 CFR 72, Subpart G, "Quality Assurance for Independent Storage of Spent Nuclear Fuel and High-Level Radioactive Waste."

The approval of this document commits the Portland General Electric Company to the requirements of the QA Program described herein and its successful implementation. Portland General Electric Company personnel who perform quality-related functions are responsible for complying with the requirements of this QA Program.

Changes to the QA Program must be documented and approved by the General Manager, Nuclear Oversight and the Trojan Site Executive and Plant General Manager.

  
Trojan Site Executive and  
Plant General Manager  
Portland General Electric Company

12/12/96

(Date)

## NUCLEAR QUALITY ASSURANCE PROGRAM

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## 1.0 ORGANIZATION

### 1.1 PURPOSE

The Portland General Electric Company (PGE or Company) executive management is responsible for the safety of the Trojan Nuclear Plant (TNP) and the Trojan Independent Spent Fuel Storage Installation (ISFSI). The Nuclear Quality Assurance Program (hereafter referred to as the QA Program) deals specifically with management of quality-related activities pertaining to the operation, maintenance, design, modification, and decommissioning of the TNP and the design, fabrication, construction, testing, operation, modification, and decommissioning of the ISFSI.

This chapter describes the functions, authorities, responsibilities, and interfaces of the PGE management organizations involved with the TNP and the ISFSI.

### 1.2 ORGANIZATION

The management organization (General Manager and above) for control of the TNP and the ISFSI is shown in Figure 1.0-1. The Chairman of the Board is responsible to the Board of Directors for overall management of the Portland General Electric Company. He delegates responsibility and authority for all aspects of the TNP and the ISFSI to appropriate Senior Officers.

#### 1.2.1 Chairman of the Board and Chief Executive Officer

The Chairman of the Board and Chief Executive Officer (CEO) has delegated to the Senior Vice President, Power Supply, and the Senior Vice President, Finance, Accounting, and Administration, the responsibility of assuring that management and staff implement the QA Program.

### 1.2.2 Senior Vice President, Power Supply

The Senior Vice President, Power Supply, reports to the CEO for nuclear activities and delegates the responsibility for assuring implementation of the QA Program to the Trojan Site Executive and Plant General Manager, hereafter referred to as the Plant General Manager.

### 1.2.3 Plant General Manager

The Plant General Manager reports to the Senior Vice President, Power Supply. The Plant General Manager has overall authority and responsibility for operations, maintenance, radiation protection, emergency planning, and for execution of this QA Program at the plant to ensure safety.

The Manager, Operations; Manager, Maintenance; and Manager, Personnel/Radiation Protection, report to the Plant General Manager. In addition, the General Manager, Nuclear Oversight; the General Manager, Engineering/Decommissioning; and the General Manager, Plant Support and Technical Functions report to the Plant General Manager and their responsibilities are addressed in the following subsections. The Plant General Manager has delegated to the Nuclear Division managers responsibility for implementation of this QA Program.

The Independent Review and Audit Committee (IRAC) reports to him, and he is responsible for evaluating recommendations of the IRAC and assuring that responsible management acts on recommendations which are to be implemented.

#### 1.2.3.1 IRAC

The IRAC performs review functions required by the license. The IRAC annually assesses the adequacy of the QA Program's implementation. Additionally, the IRAC is responsible for conducting a biennial audit of the Nuclear Oversight Department.

The results of the annual assessment of the QA Program's implementation, the biennial audit of the Nuclear Oversight Department, and audits of the IRAC, are forwarded to the Plant General Manager.

#### 1.2.3.2 Nuclear Oversight Department

The Nuclear Oversight Department is under the direction of the General Manager, Nuclear Oversight. This department is independent of other departments performing quality-related activities.

To control deviations from QA Program requirements, the Nuclear Oversight Department has the authority and responsibility to initiate stop work orders, as necessary, for any condition adverse to quality that has occurred or is developing.

##### 1.2.3.2.1 General Manager, Nuclear Oversight

The General Manager, Nuclear Oversight, together with the Plant General Manager, is responsible for approving revisions to the QA Program. The General Manager, Nuclear Oversight, has the authority and independence to identify quality problems; initiate, recommend, or provide solutions to quality problems through designated channels; and verify implementation of solutions to quality problems. The General Manager, Nuclear Oversight, directs the Nuclear Oversight staff in the implementation of the overall QA Program, including contractor QA involvement.

##### 1.2.3.2.2 Qualification Requirements for the General Manager, Nuclear Oversight

The General Manager, Nuclear Oversight must be knowledgeable of the QA Program and 10 CFR 50, Appendix B, and maintain up-to-date knowledge of applicable regulatory guides, codes, and standards related to quality assurance.

The General Manager, Nuclear Oversight, must meet the following qualifications:

Eight years of experience in the field of quality assurance or equivalent number of years of nuclear plant experience in a.

supervisory position or a combination of the two. Graduation from a four-year accredited engineering or science college or university may be substituted for four years of this experience. At least one year of this experience shall be nuclear power plant experience in the implementation of the quality assurance program.

#### 1.2.3.3 General Manager, Engineering/Decommissioning

The General Manager, Engineering/Decommissioning, has primary responsibility for direction and coordination of decommissioning, design engineering, and for design control to ensure safety and reliability.

#### 1.2.3.4 General Manager, Plant Support and Technical Functions

The General Manager, Plant Support and Technical Functions, has been delegated responsibility for the direction and coordination of nuclear regulation and for security, training, and the overall administration and maintenance of records.

#### 1.2.3.5 Plant Staff

The plant organization described in procedures details the functional areas and responsibilities, qualifications, and training required for personnel performing quality-related activities.

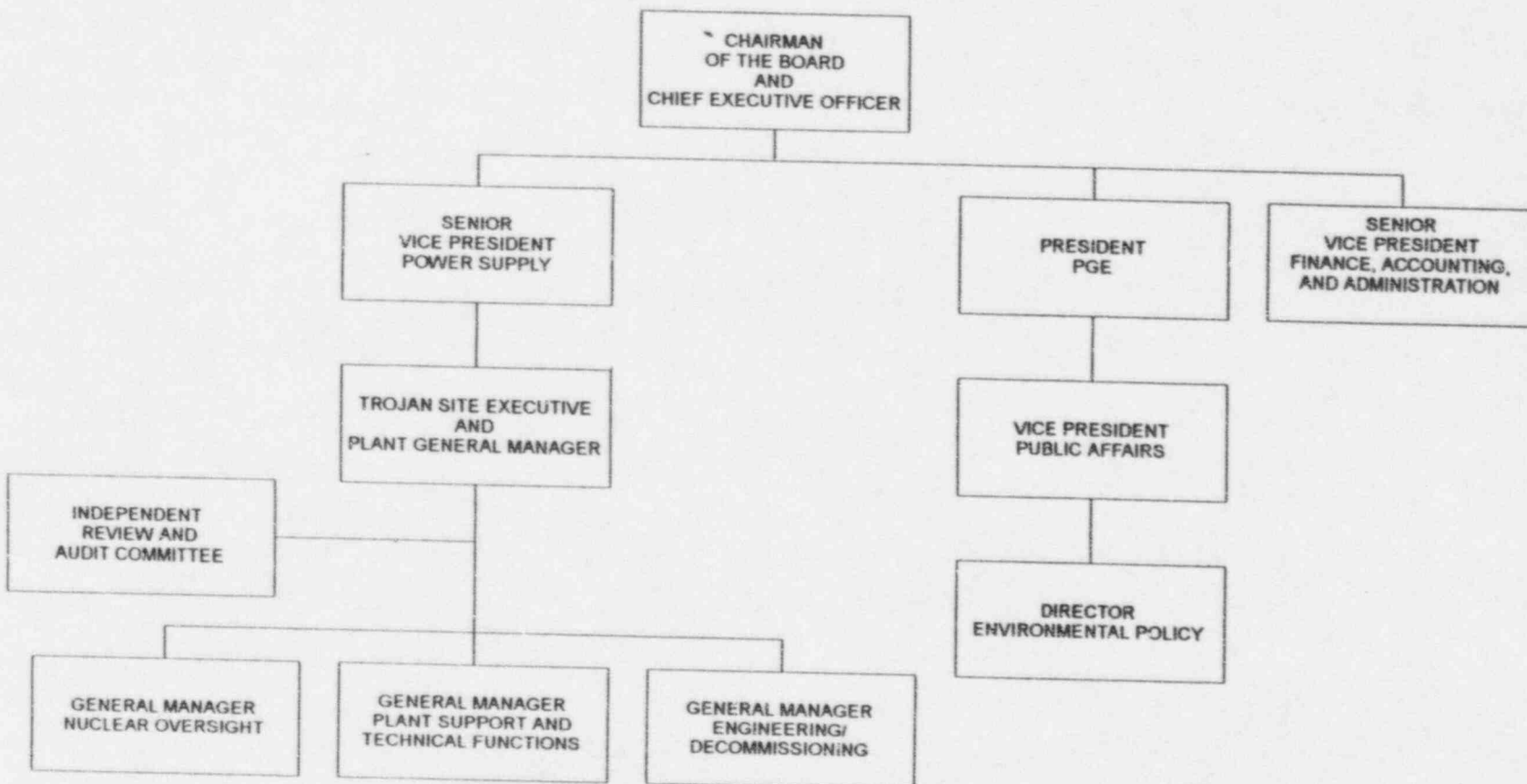


Figure 1.0-1

Company Organization for  
Trojan Nuclear Plant