

**Portland General Electric
Trojan Nuclear Plant
Rainier, Oregon**

General Information

Client Name:	Portland General Electric
Project Value	\$320,000,000
Period of Performance:	March 1996 to August 2005



Project Overview

RIO Technical Services Inc. was engaged by Portland General Electric Company to provide management support for the dismantlement and decommissioning of a 3,411-megawatt nuclear power plant at the Trojan Nuclear Plant in Rainier, Oregon. RIO managed and administered activities subject to stringent Nuclear Regulatory Commission (NRC) compliance regulations and decommissioning requirements to legally decommission the plant.

Scope of Work

- RIO developed a innovative shutdown safety protocol – “The Permanently Defueled Technical Specifications” – which was approved by the NRC and is now the basis of NRC issued shutdown procedure specifications nationwide
- RIO assisted in the management and development of the NRC 10 CFR 72 ISFSI license application, which included development of a Safety Analysis Report, Technical Specifications, Emergency Plan, Security Plan, and Certified Operator Training Program
- RIO engineers provided key support for satisfactory removal of spent nuclear fuels, establishing a safety program, and pioneering innovative methods in fuel cell handling that was subsequently adopted by the NRC as a “template” for future fuel cell handling programs at other NRC regulated plant decommissioning projects
- RIO personnel developed the NRC-accepted Decommissioning Plan. This plan established the methods and controls that allowed PGE to implement the decontamination that resulted in eventual free-release of the site. RIO maintained the Decommissioning Plan by submitting periodic scope or approach changes to the NRC and the State of Oregon for review, comment, and approval
- RIO personnel developed for PGE the ISFSI pre-operational and fuel transfer procedures that support spent fuel transfer from wet storage to dry storage. The RIO-provided procedures met PGE management expectations and NRC-issued Technical Specification requirements.