

TROJAN NUCLEAR PLANT

QUARTERLY DECOMMISSIONING STATUS REPORT

THIRD QUARTER 1996

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## I. ABSTRACT

During the first quarter of 1996, the majority of the activities at Trojan Nuclear Plant centered around preparation and submittal of the license application under 10 CFR 72 for the Independent Spent Fuel Storage Installation (ISFSI). The ISFSI license application was submitted to NRC by letter dated March 26, 1996.

Decommissioning planning activities continued during the second and third quarters of 1996. The primary focus was on preparing the site, including removing components, in preparation for other decommissioning activities. The preparations included performing a radiation release survey for the future Independent Spent Fuel Storage Installation during the third quarter of 1996.

The State of Oregon Energy Facility Siting Council approved the Trojan Decommissioning Plan by Order dated March 14, 1996. The Order Approving Trojan Decommissioning Plan contained nine conditions. Submittal of quarterly reports on the actual versus projected status of decommissioning satisfies Condition No. 2 of the Order.

## II. OCCUPATIONAL RADIATION EXPOSURE

TABLE II-1  
OCCUPATIONAL RADIATION EXPOSURE  
(Through Third Quarter 1996)

Decommissioning Activity (Based on Decommissioning Plan Table 2.2-1)	Total Man-Rem		
	Projected	Actual <sup>[1]</sup> (Cummulative)	%
Steam Generators and Pressurizer Removal <sup>[2]</sup>	138	53.96	39.1
Reactor Vessel Internals Removal/Dismantlement	85	0	0.0
Dismantlement Activities (NSSS, BOPS, Structures, Miscellaneous)	282	35.234	12.5
Spent Fuel Racks Dismantlement	19	0	0.0
Normal Plant Operations	9	2.978 <sup>[3]</sup>	33.1
Fuel Transfer to ISFSI	58	0	0.0
Total	591	92.172	15.6

<sup>1</sup> Actuals are based on self-reading dosimeter results.

<sup>2</sup> Large Component Removal Project completed November 1995.

<sup>3</sup> Includes 0.632 person-rem from Security Personnel dosimeters.

### III. COSTS (Based on the decommissioning cost estimate)

TABLE III-1

<b>Trojan Nuclear Plant</b> <b>Actual Versus Projected Costs Through September 30, 1996</b> <b>Based on the Decommissioning Cost Estimate</b> <b>(Nominal \$ x 1000)</b>										
Year	NRC Decommissioning Expenditures		Nonradiological Decommissioning Expenditures		Spent Fuel Management Expenditures		Financing Activity Expenditures		Combined Expenditures	
	Projected	Actual	Projected	Actual	Projected	Actual	Projected	Actual	Projected	Actual
1993	-		-		-		-		-	
1994	7,595	7,386	0						7,595	7,386
1995	17,680	15,144	0		19,158	20,938			36,838	36,082
1996	12,595	5,667	301	6	24,484	11,348			37,380	17,021
1997	28,203		4,133		35,500				67,836	
1998	40,163		506		25,592		316		66,577	
1999	69,026		1,615		4,068		442		75,151	
2000	62,327		1,676		4,257		1,986		70,246	
2001	2,624		1,907		4,515		3,451		12,497	
2002			1,097		4,682		3,149		8,928	
2003			992		4,851		2,818		8,661	
2004			455		5,020		2,131		7,606	
2005			472		5,189		1,244		6,905	
2006			490		5,356		231		6,077	
2007			509		5,519		17		6,045	
2008			528		5,676		2		6,206	
2009			548		5,826				6,374	



**Trojan Nuclear Plant**  
**Actual Versus Projected Costs Through September 30, 1996**  
**Based on the Decommissioning Cost Estimate**  
**(Nominal \$ x 1000)**

Year	NRC Decommissioning Expenditures		Nonradiological Decommissioning Expenditures		Spent Fuel Management Expenditures		Financing Activity Expenditures		Combined Expenditures	
	Projected	Actual	Projected	Actual	Projected	Actual	Projected	Actual	Projected	Actual
2010			569		5,967				6,536	
2011			591		6,094				6,685	
2012			613		6,325				6,938	
2013			637		6,565				7,202	
2014			661		6,815				7,476	
2015			686		7,074				7,760	
2016			712		7,343				8,055	
2017			739		7,622				8,361	
2018			26,557		53,903				80,460	
2019			35,224						35,224	
2020			827						827	
2021			2,069						2,069	
2022			2,129						2,129	
2023			8,318						8,318	
Total	240,213	28,197	95,561	6	267,401	32,286	15,787	-	618,962	60,489



#### IV. SCHEDULE OF ACTIVITIES

Transition Period activities continued on schedule during the third quarter of 1996.

Decontamination and removal activities, which are providing experience and information helpful to planning, continued with the removal of the Positive Displacement Pump.

Various components and structures were removed associated with configuring the plant for decontamination, packaging, and ease of movement of materials during full scale decommissioning. These included removing an area cooler and knockout panels on lower elevations of the Auxiliary Building. Work commenced on a new access through the north wall of the Auxiliary Building.

Component removal inside the Containment Building continued with removal of Reactor Coolant System piping and surrounding interferences. The primary purpose of component removals in the Containment is to reduce general area radiation levels. The reactor coolant pumps will be removed, packaged as their own shipping containers, and shipped to the U.S. Ecology site near Hanford, Washington, during the fourth quarter of 1996.

Licensing activities continued in support of the Independent Spent Fuel Storage Installation (ISFSI) schedule. Responses to the State of Oregon's questions on the 10 CFR Part 72 license application submittal and the 10 CFR Part 50 License amendment submittal were completed. A radiation release survey commenced for that portion of the site on which the ISFSI will be located.

Design and analysis activities associated with shipment of the reactor vessel and the reactor internals as one package continued. A revision to the Decommissioning Plan will be submitted for EFSC approval during the fourth quarter of 1996.

The diesel fuel oil tanks were excavated and removed during the third quarter.

