

PDR



Portland General Electric Company

Bart D. Withers Vice President

March 24, 1983

Mr. James R. Tourtellotte
Chairman
Regulatory Reform Task Force
U.S. Nuclear Regulatory Commission
Washington DC 20555

Dear Mr. Tourtellotte:

Backfitting Costs for the Trojan Nuclear Plant

Your letter to W. J. Lindblad of February 8, 1983 was forwarded to me for action. The backfitting costs since the initial startup and operation of the Trojan Nuclear Plant in 1975 have been compiled and tabulated. The attached tables list those items that were required by the NRC as backfitting items and those required as the result of the TMI accident. A summary of the costs that are associated with backfit items that have been initiated as a result of our own needs is also provided. We hope this information adequately responds to your request.

Sincerely,

A handwritten signature in dark ink, appearing to read 'B. Withers'.

Bart D. Withers
Vice President
Nuclear

Attachments

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TROJAN NUCLEAR PLANT
PORTLAND GENERAL ELECTRIC COMPANY

The Trojan Nuclear Plant is a single unit PWR with a capacity of 1080 MWe(net). An operating license was received November 21, 1975, and commercial operation began in May 1976. The actual cost through December 1976 of \$452 million (including AFDC) includes very few additions after the commercial operation date.

The cost* for backfitting Trojan through December 1982 has been \$106 million. These costs can be allocated as \$40 million for NRC-imposed backfitting, other than TMI lessons learned; \$24 million for TMI lessons learned backfitting; and \$42 million for utility-initiated backfitting. A detailed listing of backfitting costs through December 1982 (excluding AFDC) is attached.

Approximately \$8 million is anticipated to be spent in 1983 for backfitting costs to satisfy NRC requirements.

While a portion of the backfitting costs are utility initiated, approximately 60 percent of the backfitting costs for Trojan are a result of NRC regulatory requirements.

* These costs do not include AFDC (Allowance for Funds During Construction) which for PGE is approximately 7.9 percent.

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TROJAN
OTHER REGULATORY COSTS
Through December 31, 1982
(Excluding AFDC)

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<u>RDC</u>	<u>Job</u>	<u>Title</u>	<u>Expenditures</u> <u>(\$000)</u>
		<u>Fire Protection</u>	
76-560	7554	Fire Protection	<u>\$ 7,092.9</u>
		<u>Security</u>	
80-074	4990	Install Lighting	14.8
80-088	4989	Replace Printer	608.7
77-079	7860	Security Upgrade	<u>8,992.5</u>
			<u>\$ 9,616.0</u>
		<u>IE Bulletin 79-01B, Environmental</u> <u>Qualification of Electrical Equipment</u>	
78-081	3837	Replace Transmitters	334.8
80-090	5428	Replace Transmitters	42.6
80-103	5430	Modify Limitorque Valve Operators	8.9
80-109	5413	Replace RTDs	4.0
80-112	5413	Replace Limit Switches	27.2
81-060	5408	Reterminate Fan Motors	8.5
81-074	5411	Modify/Replace Terminals	9.5
81-084	5409	Modify Indication	<u>22.5</u>
			<u>\$ 458.0</u>
		<u>Others</u>	
78-058	3520	Control Building Seismic Support Structure	8,151.7
80-005	4560	Add Under-Voltage Protection	110.6
79-064	3874	Add Limit Switch	165.2
80-035	4518	Modify double wythe Walls	3,302.5
79-091	4106	Piping Supports, Modify	3,611.8
80-025	4772	Reroute Oily Water Separator	530.2
79-037	4247	Replace MS and Turbine Pressure Indicator	205.3
79-075	3877	Inspect Seismic Piping (79-014)	4,408.7
81-081	5456	Modify Chlorine Discharge Monitor	66.9
80-092	5469	Replace Recording Accelerograph	110.4
76-114	7050	Rerack Spent Fuel Pool (first time)	<u>2,038.5</u>
			<u>\$22,701.8</u>
		<u>Total Other Regulatory Costs</u>	<u>\$39,868.7</u>

TROJAN
TMI COSTS
THROUGH DECEMBER 31, 1982
(Excluding AFDC)

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<u>RDC</u>	<u>Job</u>	<u>Title</u>	<u>Expenditures</u> <u>(\$000)</u>
77-139	3192	Electric AFW Pump	791.4
77-175	3302	Reroute Drains From Gas RW Compressors	634.6
79-054	3885	Control Circuitry Mod, Containment Isol.	101.0
79-055	3883	Interlocks Containment Sump	180.6
79-057	4252	Add Containment Area Rad. Monitors	334.9
79-061	3956	Replace Oper. Main FW Isol. and Bypass Valves	539.1
79-063	3931	AFW Pump Low Suction Press Trip	353.7
79-064	3874	AFW System Manual Valve Indication	166.0
79-068	4255	Cross-Connect, WGDT to Containment	435.7
79-092	4269	Containment Press. Trans. Mod.	997.2
79-098	4354	RCS Subcooling Margin Monitors	191.5
79-099	4385	AFW Flow Inst. Power Supply Mod.	495.5
79-105	4394	Post-Accident Sampling Mod.	1,104.5
79-107	4407	RWST Overflow Lines	15.9
79-109	4758	Rad. Monitors Main Steam Line	400.5
80-001	4538	Increase Range PRM-1, PRM-6	205.0
80-003	4514	Turb. AFW Pump AC, Independent	353.1
80-008	4589	Shield CVCS Lines	162.5
80-009	4479	Rad. Shield, WGST Cubicle North Wall	16.1
80-010	4507	Remote Man. Oper. RHR Vavles	86.1
80-039	4542	TSC Computer	4,861.7
80-040	4567	Install TSC	4,052.8
80-054	4617	Guard Pipe Diesel AFW Discharge	89.1
80-061	4778	Relocate Discharge Elec. AFW Pump	921.7
80-071	4798	Relocate Various Components	13.0
80-073	4965	Modify MSIVS	28.3
80-111	5083	Reactor Vessel Level	1,834.2
80-118	5189	Auto Close H ₂ Vent Valves	20.5
81-026	5441	Iodine Grab Sample Mod. PRM 1, 2, 6	64.3
81-045/ -046	5444	Add SO ₂ , NH ₃ Detectors Control Room Vent System	88.6
-	4397	Radiological Emergency Response Plan, Sirens and Communication System	2,477.0
80-101	5066	Containment Water Level Instrumentation	472.4
81-053	5446	Modify H ₂ Analysis System	605.3
79-087	4396	Reactor Vessel Head Vent System	601.5
Total TMI Costs			<u>\$23,695.3</u>