



Consumers
Power
Company

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and President

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April 14, 1983

Mr James R Tourtellotte, Chairman
Regulatory Reform Task Force
US Nuclear Regulatory Commission
Washington, DC 20555

Attached is information you requested in your letter of February 8, 1983. This information regarding the cost to Consumers Power Company for backfitting the Palisades Plant (Docket 50-255) has been tabulated as you requested. There are three tables: Category 1 - Imposed by NRC Regulations/Orders; Category 2 - Imposed by NRC Bulletins and Post - TMI requirements as defined in NUREG-0737; and Category 3, those initiated by Consumers Power Company for the continued safe operation of our plant.

Please notify us if you need further information.

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PDR REVGP NRGREG
PDR

OC040483-NL01

Backfitting Cost Experience For Consumers Power Company's Palisades Plant

Palisades Plant - 1 Unit

The Palisades Plant is a first generation Combustion - Engineering pressurized water reactor with a thermal rating of 2530 MW and an electrical rating of 810 MW.

The construction permit was received in March, 1967, the provisional operating license in March 1971 and the first generation of electricity occurred December 31, 1971. The total cost was \$149,046,000. Cooling towers for closed cycle cooling and a rad-waste building for zero rad-waste effluent were mandated by a settlement agreement with an intervenor group. These added \$42,559,000 to the construction cost of the Palisades Plant. Using the above costs, the cost per kilowatt in 1971-72 would be \$238/KWe. Using the State of Michigan Bureau of Labor Statistics, inflation factors etc of 2.6, the 1982 value of an equivalent plant of this 810 Mwe size would be \$618/KWe excluding any backfitting costs.

PALISADES PLANT
CATEGORY (1)
IMPOSED BY NRC (RULE OR ORDER)

Electrical Equipment Qualification	\$ 20,800,000
Security Upgrades	5,430,000
Fire Protection Mods	<u>6,000,000</u>
Total	\$ 32,230,000

PALISADES PLANT
CATEGORY (2)
IMPOSED BY NRC - POST TMI & OTHER BULLETINS

PCS Hi-Point Vents	\$ 1,500,000
Shielding Evaluation & Mods	3,100,000
Control Room Vent System Upgrade	28,800,000
Containment Isolation Upgrades	4,500,000
AFW System Upgrade	21,900,000
Inadequate Core Cooling Instrument	6,900,000
Auxiliary Building Addition	10,200,000
Electrical System Expansion	2,400,000
Critical Function Monitor System	7,000,000
Effluent Radiation Assessment System	9,600,000
Anchor Bolt Inspection & Mods	25,700,000
Struct. Eval. & Upgrade Block Walls	3,400,000
High Energy Line Break Mods	2,700,000
S-G Wide Range Level Indication	1,110,000
Long-Term Cooling Mods	<u>6,720,000</u>
Total	\$135,530,000

PALISADES PLANT
CATEGORY (3)
INITIATED BY CONSUMERS POWER COMPANY

S-G Replacement (Costs to date)	\$ 22,700,000
Station Battery (Upgrade)	1,500,000
Spent Fuel Storage Racks	5,000,000
Parking Lot Expansion	850,000
Warehouse	3,700,000
Plant Support Building	3,100,000
Turbine Rotor (Upgrade)	9,050,000
Radwaste Solidification System	15,500,000
Moisture-Separator Reheater (Upgrade)	1,800,000
Main Condenser Tube Replacement (Upgrade)	1,700,000
Feedwater Purity System	12,600,000
Boric Acid-Heat Tracing System	2,400,000
Dilution Water Mods	1,200,000
HPSI Pump Mods	500,000
Fuel Analyses For Increase Power	1,100,000
S-G Sleeving Repair Equipment	2,000,000
Miscellaneous	<u>10,260,000</u>
Total	\$ 94,960,000