

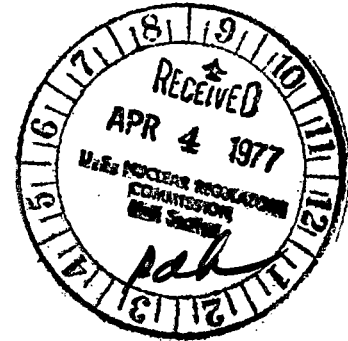
Consumers
Power
Company

General Offices: 212 West Michigan Avenue, Jackson, Michigan 49201 • Area Code 517 788-0550

March 31, 1977

REGULATORY DOCKET FILE COPY

Director of Nuclear Reactor Regulation
Att: Mr Albert Schwencer, Chief
Operating Reactor Branch No 1
US Nuclear Regulatory Commission
Washington, DC 20555



DOCKET 50-255 - LICENSE DPR-20 -
PALISADES PLANT - ASLB PRAIRIE
ISLAND HEARINGS

In response to a request telecopied to us on March 17, 1977 for information related to the Palisades Plant steam generator operating experience, the attached Table I was provided by telecopy on March 21, 1977. The following submittals should also be referenced for more detail relating to Palisades steam generator operating history:

<u>Date</u>	<u>Title</u>
1-29-73	First SG Leak
3- 6-73	Results of Repairs to SG
7-23-73	Leakage on SG
8- 8-73	Leakage From B-SG
9-21-73	Schedule of Activities During SG Repairs
12-21-73	Update on SG Repairs
1-15-74	Requesting Withholding Information
1-29-74	Nonproprietary Information on SG for Public Document Room
2-15-74	CEN-2 (P) SG Report (Proprietary)
3-20-74	More Information on SG Tube Exam/Report
3-27-74	Further Information on SG Tests and Numerical Value for Fatigue Endurance Limit
6-14-74	AO-10-74 Re SG Primary-to-Secondary Leakage on May 5, 1974
6-26-74	More Information on AO-10-74
7- 5-74	SG Status Report
7- 9-74	Eddy Current Inspection - Preliminary Report
7-22-74	Battelle Report - Tube Plugging Criteria
7-26-74	Corrected Page to Eliminate CE Proprietary Information
8- 1-74	Status of SG Repairs
8-20-74	Technical Specifications Change Request
8-28-74	Request to Operate Plant at Certain Levels
11- 7-74	Conclusion of Flushing Report
12-13-74	Technical Specifications Change Request - Augmented Inservice Inspection Program for SG

Date	Title
1- 3-75	Eddy Current Testing During December 1974 "A" SG
1-31-75	Additional Information With Regard to the "Palisades Plant 'A' SG Eddy Current Testing - December 1974"
2- 6-75	Comparison Data Taken in June 1975 Versus Data Taken in December 1974
3-10-75	Eddy Current Inspection of Palisades SG and Technical Specifications Change
3-25-75	Additional Eddy Current Test Results
6-24-75	Results of an Overcheck Performed on the February 1975 Eddy Current
8- 5-75	Proposed Technical Specifications Change, Steam Generators Inspection Interval Extension
8- 6-75	Correction to Proposed Technical Specifications Change Submitted 8-5-75
8-14-75	Correction to 8-5-75 Letter Requesting Steam Generator Inspection Interval Extension
2-12-76	Report on "Analysis to Determine Allowable Tube Wall Degradation for Palisades SG"
2-17-76	SG Flushing Report Number 13 for Palisades Plant
3- 1-76	Tube Burst and Leakage Test Report
3- 9-76	March 1976 ECT Report and Technical Specifications Change
3-12-76	Notice of Issuance of Amendment to Provisional Operating License
3-18-76	Tube Wall Degradation Analysis Questions
3-22-76	Corrections to March 1976 ECT Report
3-22-76	Corrections to Tube Wall Degradation Analysis
4- 6-76	Corrections to Tube Wall Degradation Analysis
12-22-76	CENC-42 (P) SG Tube Repair Slewing

David P. Hoffman /ms

David P Hoffman
Assistant Nuclear Licensing Administrator

CC: JGKepler, USNRC

TABLE I

CONSUMERS POWER COMPANY

PALISADES PLANT

Docket No. 50-255

License No. DPR-20

a. Significant operating history

1. OL date - 3-24-71 (12-31-71 First Power)
2. Full power operation - First Achieved - April 1973
3. Major period(s) of downtime (nonrefueling) - 2 Years for S/G Repairs

b. Materials of construction for major secondary system components

1. SG tubes - Inconel 600
2. SG tube sheet - Carbon Steel
3. SG tube support plates - Carbon Steel
4. Condenser tubes - Originally - Admiralty; Currently - 90-10 CuNi
5. Other - _____

c. Operational history of secondary water treatment

1. Period of use of phosphates - 12/71 Through 8/74
2. Period of use of AVT - Since 9/74
3. Period of use of condensate demineralization - None
4. Other - _____

d. Condenser cooling water - typical chemical composition

Closed Cycle Mechanical Draft Cooling Towers
 Sodium (Na) - 20 ppm Conductivity - 800 mmhos
 Calcium (Ca) - 125 ppm ph - 7.7 to 8.0
 Magnesium (Mg) - 35 ppm 'M' Alkalinity - 80

e. History of significant condenser tube leakage

Condenser Retubed in Late 1974 (Finished 12/74)

1. Date discovered - Nine Occasions Since July 1976
2. How discovered - Sodium Analyzer and S/G Blowdown Analysis
(Na⁺, Ca⁺, Mg⁺⁺)
3. Leakage associated - _____

f. Denting history

1. Date discovered - February 1976
2. How discovered - Eddy Current Testing
3. Leakage associated (gpm) - None

g. Steam Generator Tube plugging history

1. Dates - 2/73, 8/73 Through 8/74, 2/75, 2/76
2. Number of tubes - 1925 in "A" Steam Generator. 1744 in "B" Steam Generator

h. Operating restrictions imposed on the plant due to degraded SG conditions -

Only Restrictions Involved Are the Increased Frequency of Eddy Current Inspections