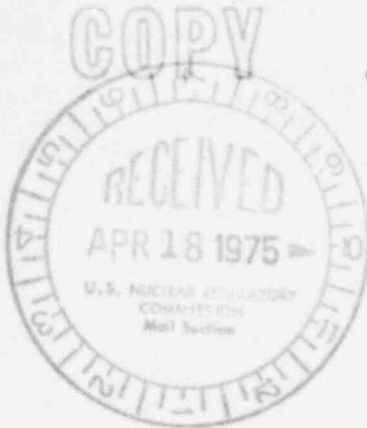




Consumers  
Power  
Company

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

April 16, 1975



Division of Reactor Licensing  
US Nuclear Regulatory Commission  
Washington, DC 20555

Re: Docket 50-255  
License DPR-20  
Palisades Plant  
AO-75-7

Gentlemen:

Attached is Abnormal Occurrence Report AO-75-7 which covers the release of heated water at a rate and temperature which exceeded the Technical Specifications limits. There were no safety implications associated with this occurrence.

Yours very truly,

Ralph B. Sewell (Signed)

DAB/ce

Ralph B. Sewell  
Nuclear Licensing Administrator

CC: JGKeppler, USNRC

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incident*

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ABNORMAL OCCURRENCE REPORT  
Palisades Plant

1. Report No: AO-75-7, Docket 50-255
- 2a. Report Date: April 16, 1975
- 2b. Occurrence Date: April 6, 1975
3. Facility: Palisades Plant, Covert, Michigan
4. Identification of Occurrence: Plant discharge effluent heat rate and discharge temperature increase greater than 0.5 billion Btu/hour and 5°F, respectively.
5. Condition Prior to Occurrence: Plant was in the hot standby/operating condition.
6. Description of Occurrence: From 0130 to approximately 0500 on April 6, 1975, the plant was discharging heat at a rate of 1.42 billion Btu/hour and at a temperature 38°F above the lake inlet temperature. This occurrence was the result of action taken to reduce the hot well temperature in order to avoid thermal shocking of the condenser tubes. Water from the cooling tower basin and/or dilution pumps was slowly introduced to the condenser and allowed to drain to the lake through the mixing basin.
7. Apparent Cause of Occurrence: The cause of this occurrence appears to be associated with plant procedure problems and the beginning operation of our newly installed closed cycle cooling system.
8. Analysis of Occurrence: There were no safety implications associated with this occurrence. An analysis of the mixing zone was made using ANL/ES-5 (April 1971) which showed that the mixing zone area was within the limits specified by the Michigan Water Resources Commission NPDES Permit for the plant. In addition, there were no observed adverse effects upon fish and other biological damage is considered unlikely to have occurred.
9. Corrective Action:
  - a. The discharge heat rate was reduced below the Technical Specifications limit when the "A" cooling tower was placed in service.
  - b. A study of the closed cycle cooling system has been initiated. This study will include this and other operational problems which have been observed. The results of the study will be available at the plant for review by members of the NRC staff.
10. Failure Data: N/A.

This occurrence is similar to AO-75-6.