



**Consumers  
Power  
Company**

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

April 14, 1975

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

Re: Docket 50-255  
License DPR-20  
Palisades Plant  
AO-75-6

Gentlemen:

Attached is Abnormal Occurrence Report AO-75-6 which covers the release of heated water at a rate which exceeded the Technical Specifications limits. There were no safety implications associated with this occurrence.

Yours very truly,

Ralph B. Sewell (Signed)

DAB/map

Ralph B. Sewell  
Nuclear Licensing Administrator

CC: JGKeppler,  
USNRC

*50-255  
included*

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ABNORMAL OCCURRENCE REPORT  
Palisades Plant

1. Report No: AO-75-6, Docket 50-255
- 2a. Report Date: April 14, 1975
- 2b. Occurrence Date: April 4, 1975
3. Facility: Palisades Plant, Covert, Michigan
4. Identification of Occurrence: Plant discharge effluent heat rate greater than 0.5 billion Btu/hour.
5. Condition Prior to Occurrence: Plant was operating at about 550 MW<sub>t</sub> (25% power).
6. Description of Occurrence: From essentially 0500 April 3, 1975 to approximately 1300 on April 4, 1975, the plant was discharging heat at the rate of 1.14 billion Btu/hour from the mixing basin outfall. This discharge rate was the result of diverting dilution water through half of the main condenser which had not been placed in service. Termination of this method of cooling reduced the discharge heat rate to below the Technical Specification limit.
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 use of dilution water for condenser cooling was terminated.
  - 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.