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

August 14, 1975



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

DOCKET 50-255, LICENSE DPR-20,
PALISADES PLANT, UE-75-9

Attached is Unusual Event Report No. 75-9 covering high cylinder and exhaust temperatures associated with the operation of a Palisades diesel generator.

David A. Bixel (Signed)

David A. Bixel
Assistant Nuclear Licensing Administrator

CC: JGKeppler, USNRC

*50-255
Inquiry*

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UNUSUAL EVENT REPORT
Palisades Nuclear Plant

1. Report Number: UE-75-9, Docket 50-255
- 2a. Report Date: August 14, 1975
- 2b. Occurrence Date: August 4, 1975
3. Facility: Palisades Plant, Covert, Michigan
4. Identification of Occurrence: Diesel Generator 1-1 high cylinder and exhaust temperatures.
5. Conditions Prior to Occurrence: Plant operating at steady-state power of 60%.
6. Description of Occurrence: During the monthly testing of Diesel Generator - 1-1 (August 4, 1975) cylinder temperatures reached approximately 1100°F after 15 to 20 minutes of operation. The diesel generator was fully loaded at 2.5 MWe. Typical operating temperatures are 950° to 1000°F with temperatures as high as 1200°F considered acceptable although not desirable. The diesel generator load test was terminated and the unit declared inoperable in accordance with Palisades Technical Specification 3.7 (i).
7. Designation of the Apparent Cause of the Occurrence: Failure of a bellows support bracket resulted in an exhaust manifold bellows failure. This failure caused a decreased exhaust flow to the turbosupercharger (which resulted in a low air intake manifold pressure) and an increase of about 100°F in the cylinder temperatures.
8. Analysis of Occurrence: The Palisades Technical Specification permits the diesel generator to be out of service for a limited period of time. In addition, if the diesel would have been required it would have been placed in service and would perform its design function.
9. Corrective Action: The bellows support bracket was repaired and new exhaust manifold bellows installed. In addition, the diesel generator testing procedures are being reviewed with respect to acceptable cylinder wall temperatures.
10. Failure Data: No previous failure of this type have been recorded.