

CO Inquiry Report 50-220/71-03

Subject: Niagara Mohawk Power Corporation

License No.: DPR-17

Facility: Nine Mile Point (BWR)

Title: Main Steam Turbine Vibration Problem

Prepared by: R. L. Spessard
R. L. Spessard, Reactor Inspector

9/29/71
Date

A. Date and Manner AEC was Informed:

September 24, 1971, during the weekly telephone contact with Mr. Al Burt, Station Superintendent, to obtain plant status information.

B. Description of Particular Event:

1. On September 18, 1971, while performing an orderly shutdown of the plant with the generator at about 30 MWe, the main steam turbine experienced abnormal vibrations and subsequently tripped on overspeed resulting in a reactor scram from 28 MWe.
2. There were no reported pressure or reactor vessel water level transients associated with this occurrence.
3. Investigation of this matter revealed that the turbine tripped at 1910 rpm versus an overspeed trip setpoint of 1980 rpm. Mr. Burt believes this anomaly to be associated with the turbine vibration. The leading edges of 5 blades on the last stage of the "B" turbine (low pressure) appear to have pieces missing. The longitudinal dimension of the missing pieces was reported to be in the range of 1/4 - 3/8 inch and the breaks appear to be new.

C. Action by Licensee:

The licensee's investigation to determine the cause and magnitude of this problem is continuing. Mr. Burt stated, that he does not consider this matter to be reportable in writing to DRL under the provisions of the Technical Specifications.

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