



NIAGARA MOHAWK POWER CORPORATION / 300 ERIE BOULEVARD WEST, SYRACUSE, N.Y. 13202 / TELEPHONE (315) 474-1511

May 14, 1984
(NMP2L 0053)

Mr. R. W. Starostecki, Director
U. S. Nuclear Regulatory Commission
Region I
Division of Project and Resident Programs
631 Park Avenue
King of Prussia, PA 19406

Re: Nine Mile Point Unit 2
Docket No. 50-410

Dear Mr. Starostecki:

Enclosed is a final report in accordance with 10CFR50.55(e) for the problem concerning the reactor building roof design. This problem was reported via telecon to Mr. L. Norrholm of your staff on December 9, 1983 and was followed by an interim report on January 9, 1984.

Very truly yours,

C. V. Mangan, Vice President
Nuclear Engineering & Licensing

CVM/TL:rla

Enclosure

xc: Director of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Mr. R. Gramm, Resident Inspector

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NIAGARA MOHAWK POWER CORPORATION
NINE MILE POINT - UNIT 2
DOCKET NO. 50-410

Final Report for a Problem
Concerning Reactor Building
Roof Design

Description of the Problem

The reactor building roof deck was designed, fabricated, and erected as a Quality Assurance Category III structure. The reactor building integrity must be maintained during and following an accident and/or seismic event.

Analysis of Safety Implications

During normal operating conditions and following an accident and/or seismic event, the reactor building integrity must be maintained to provide means for a controlled elevated release to the atmosphere. To accomplish this, the reactor building must be maintained at a negative pressure with respect to the outside atmosphere. If the integrity of the reactor building roof cannot be ensured in an accident and/or seismic event, there is a possibility that airborne radioactive materials would be released to the atmosphere through the roof area. However, it has been determined that even if this problem were to have remained uncorrected, it would not have adversely affected the safe operation of the plant for the reasons discussed below.

The reactor building roof deck design, material, fabrication, installation, and inspection attributes have been re-evaluated in detail and the requirements for Quality Assurance Category I and Quality Assurance Category III would be the same in all these areas with the exception of the inspection frequency. For Quality Assurance Category III installations, quality control inspections were required on a weekly basis while Quality Assurance Category I applications require daily inspections. In addition to the above, in accordance with PSAR Section 13.6.3.35, the secondary containment negative pressure test will be performed prior to startup which will provide confirmation of the air infiltration rate into the reactor building. Consequently, assurance exists that the integrity of the as-built reactor building roof deck would be maintained during and following an accident and/or seismic event.

Corrective Action

The reactor building roof deck classification has been upgraded to QA Category I.