NIAGARA MOHAVIK POWER CORPORATION/300 ERIE BOULEVARD WEST, SYRACUSE, NY. 13202/TELEPHONE (315) 474-1511

June 25, 1981

Office of Inspection and Enforcement Region I Attention: Mr. Elden J. Brunner, Acting Director Division of Resident and Project Inspection U. S. Nuclear Regulatory Commission 631 Park Avenue King of Prussia, PA 19406

Dear Mr. Brunner:

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

Attached is the final report of the 10 CFR 50.55(e) deficiency regarding the possible future movement of the Radwaste Building geologic feature. This deficiency was initially reported to the Region I Office of Inspection and Enforcement on December 4, 1979.

Very truly yours,

NIAGARA MOHAWK POWER CORPORATION

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Gerald K. Rhode Vice President System Project Management

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

Mr. B. J. Youngblood, Chief Licensing Branch No. 1 Division of Licensing Office of Nuclear Reactor Regulation U. S. Nuclear Regulatory Commission Washington, D. C. 20555 TE27 s'/, POOR ORIGINAL

NIAGARA MOHAWK POWER CORPORATION

Nine Mile Point Unit 2

Docket No. 50-410

Final 50.55(e) Report for Potential Deficiency Including Movement of the Radwaste Building Geologic Feature

Description of Deficiency

In December, 1979, the geologic investigation of the Radwaste geologic feature (thrust structure) concluded that although it was not believed that the feature was capable of generating earthquake type movement, some small rock adjustments may occur over the forty-year plant life. This could result in redesign of certain Unit 2 structures and systems.

Conclusion

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The geologic investigation of the Radwaste geologic feature has concluded that possible future movements of the feature would amount to no more than a small fraction of an inch ($\leq 1/4$ inch). However, a conservative allowance of one inch horizontal movement will be used for design purposes.

In addition, the possible settlement of the brecciated material in the Radwaste geologic feature has been investigated. It is our judgment, based on this investigation, that differential settlement resulting from compression of the breccia zone under the loading imposed by the Radwaste Building will be less than 1/10 of an inch. The Radwaste Building has been designed for this potential settlement.

Analysis of the Safety Implications

The potential movement of the Radwaste geologic feature was not included in the original design criteria for safety related structures. Therefore, this condition is determined to be reportable under 10 CFR 50.55(e) since it could have adversely affected the safety of operations of plant had it remained uncorrected.

Corrective Action

All affected safety related structures will be designed to conservatively allow for a maximum horizontal movement of one inch. The Radwaste Building has been designed for the potential settlement of the brecciated material in the Radwaste geologic feature.

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