

6/9/76

Docket No. 50-220

Niagara Mohawk Power Corporation
ATTN: Mr. Gerald K. Rhode
Vice President - Engineering
300 Erie Boulevard West
Syracuse, New York 13202

Gentlemen:

We have completed our initial review of your request by letter dated May 19, 1976, to revise the Nine Mile Point Unit No. 1 Technical Specification related to Assembly Averaged Power-Void Relationships. In order for us to complete our review, we request the following additional information:

Provide a quantitative explanation of how exposure dependent "B" values are calculated. Include examples which show how different values of "B" were calculated for two different exposures of the same fuel. The examples should show (1) the relationships (equations) assumed, and (2) the source and numerical values of all terms in the relationships for:

1. Maximum Average Planar Linear Heat Generation Rate (MAPLHGR) and Average Heat Generation Rate (\dot{q}) (i.e., assumed peaking factors).
2. Dryout Time (i.e., h_g , h_{1n} , flow, average density, \dot{q}).
3. "B" values (i.e., void fraction, peaking factor, power).

In addition, demonstrate how "B" values are calculated to assure conservatism when using the dryout times assumed in the ECCS analysis.

If you have any questions regarding the requested information, we would be pleased to meet with you.

Sincerely,

George Lear, Chief
Operating Reactors Branch #3
Division of Operating Reactors

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