

SEP 8 1971

Docket No. 50-220

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	<i>Herald Busley</i>

Niagara Mohawk Power Corporation
 ATTN: Thomas J. Brosnan
 Vice President and Chief Engineer
 300 Erie Boulevard West
 Syracuse, New York 13202

Gentlemen:

It has been of interest in the nuclear industry that in some reactors fueled with UO₂, power changes may be followed by an increase in the iodine content in the primary coolant. Data taken at the Tsuruga power reactor from April to May 1970 indicate that following shutdown of the reactor, the I-131 concentration in the primary coolant increased temporarily by a factor of one hundred or more. In order to understand this phenomenon better, we request that you obtain measurements at the Nine Mile Point Nuclear Station of primary coolant samples, taken at a frequency consistent with changing operating parameters, e.g., variation in power level and primary coolant cleanup. Samples taken from just before shutdown until the iodine content in the primary system levels off would also be important.

We plan to discuss this potential problem at a meeting in our Bethesda office on September 23, 1971. We request that you send a representative and provide any pertinent data you might have.

Sincerely,

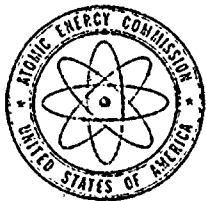
Original signed by
 F. Schroeder

ff Peter A. Morris, Director
 Division of Reactor Licensing

cc: Arvin E. Upton, Esquire
 LeBoeuf, Lamb, Leiby and MacRae
 1821 Jefferson Place, N. W.
 Washington, D. C. 20036

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UNITED STATES
ATOMIC ENERGY COMMISSION
WASHINGTON, D.C. 20545

SEP 8 - 1971

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Niagara Mohawk Power Corporation
ATTN: Thomas J. Brosnan
Vice President and Chief Engineer
300 Erie Boulevard West
Syracuse, New York 13202

Gentlemen:

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Sincerely,

A handwritten signature in cursive script, appearing to read "Peter A. Morris", is written over a horizontal line.

Peter A. Morris, Director
Division of Reactor Licensing

cc: Arvin E. Upton, Esquire
LeBoeuf, Lamb, Leiby and MacRae
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