

Peter Zarakas
Vice President

Consolidated Edison Company of New York, Inc.
4 Irving Place, New York, NY 10003
Telephone (212) 460-3000

January 2, 1980

Re: Indian Point Unit No. 2
Docket No. 50-247

Director of Nuclear Reactor Regulation
ATTN: Mr. A. Schwencer, Chief
Operating Reactors Branch No. 1
Division of Operating Reactors
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Mr. Schwencer:

In accordance with Mr. William J. Cahill's December 28, 1979 letter to you, additional information regarding the relationship of turbine load and backpressure in operating Indian Point 2 is being provided for your consideration.

Westinghouse performed a series of calculations utilizing the same calculational techniques identified in their December 20, 1979 letter to the NRC. These calculations show that for Indian Point 2 the ratio of the computed crack depth to the critical crack size (a/a_{cr}) does not exceed 1.0 by January 15, 1980 provided the unit load does not exceed 700Mwe at 3.5" Hga or 800Mwe at 5.5"Hga. Operation within these parameters will limit the overspeed to 118% of design. Westinghouse has advised us that for operation at other loads a linear relationship between backpressure and load can be assumed to keep the same overspeed. These calculations also took credit for operation of the low pressure steam dump system and the governing system. Westinghouse also advised us not to operate at turbine backpressures greater than 5.5"Hga.

Figure 1 which is a graphical representation of the results of these calculations is being used by the plant operators to control the output of the unit.

Very truly yours,


Peter Zarakas
Vice President

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Figure 1

