

October 29, 1976

Docket No.: 50-247

Consolidated Edison Company  
of New York, Inc.  
ATTN: Mr. William J. Cahill, Jr.  
Vice President  
4 Irving Place  
New York, New York 10003

Gentlemen:

Our staff met with your representatives at our offices in Bethesda, Maryland, on October 26, 1976, to discuss your submittal which proposed a steam generator inspection program for Indian Point Unit No. 2. This program was proposed as a result of the failure of a steam generator tube at Surry Unit No. 2. The failure at Surry Unit No. 2 appears to be due to a combination of intergranular stress corrosion and high stress in the inner row of U-bends resulting from tube support plate material movement at the center of the tube support plate which causes flow slot "hourglassing." This tube support plate material movement appears to be a result of stresses in the tube support plate as a result of tube "denting" which in turn appears to be the result of the expansion of precipitate and corrosion products deposited in the tube support plate annuli where the tubes pass through the tube support plate.

Indian Point Unit No. 2 has experienced similar denting, although not yet as extensive as at Surry Unit No. 2.

At our meeting your representatives informed us that Indian Point Unit No. 2 will be removed from power operation on October 29, 1976. Your submittal stated that you have planned after shutdown an extensive inspection and analysis program. Based on these inspections, you will then determine whether any further action is required with respect to repair of the unit.

Your letter of October 26, 1976, stated that you would not return Indian Point Unit No. 2 to power operation until the concurrence of the NRC is received by the Consolidated Edison Company. We find your proposed actions acceptable as follows:

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Consolidated Edison Co.  
of New York, Inc.

- (a) Indian Point Unit No. 2 will be shut down not later than November 1, 1976, and the condition of the tubes and support plates will be inspected as necessary to ascertain the potential for excessive stress in the steam generator tube U-bends or other conditions that may be conducive to intergranular stress corrosion of steam generator tubes.
- (b) Based on conditions observed, Consolidated Edison will propose a program of repair. The Plant shall not resume power operation until: (1) the proposed repair for that unit has been approved in writing by the NRC, (2) all tubes required to be plugged by such criteria have been properly plugged, and (3) the unit is otherwise properly prepared to resume power operation.

The foregoing are deemed by the NRC staff to be minimum requirements to ensure that your facility does not operate with reduced integrity of the primary system pressure boundary.

Sincerely,  
Original Signed by

Karl R. Goller, Assistant Director  
for Operating Reactors  
Division of Operating Reactors

cc: See next page

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