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D. Muller, Chief, PWR 1, Division of Reactor Licensing

INDIAN POINT 2 - HYDROLOGY COMMENTS - CONSOLIDATED EDISON COMPANY  
DOCKET NO. 50-247

Attached are our hydrology comments to be incorporated  
with our previous comments sent to you.

P. W. Howe, Chief  
Site, Environmental & Radiation  
Safety Group  
Division of Reactor Licensing

Enclosure:  
Indian Point 2 - Hydrology  
Comments.

cc w/enclosure:  
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DATE ▶	8/10/70	8/ /70				

CONSOLIDATED EDISON COMPANY

INDIAN POINT 2

HYDROLOGY

The safety related components of the Indian Point Unit No. 2 are protected against flooding up to elevation 15.25 feet MSL. The design protection elevation of 15.25 feet MSL will provide adequate protection against the severe floods for each of the following hypothetical flood conditions: (1) The probable maximum flood peak discharge of 1,100,000 cubic feet per second (cfs) resulting from probable maximum precipitation occurring over the total basin, 12,650 square mile area above plant site; (2) The flooding caused by Ashokan Dam failure concurrent with a major river basin flood (peak discharge 705,000 cfs) and an infrequent storm surge, resulting in a 15 foot MSL elevation (including wave action); and (3) The probable maximum hurricane concurrent with high spring tide in the Hudson River. The above three separate extreme hypothetical floods were the most severe conditions of several investigated, and all three resulted in about the same maximum water surface elevation of about 15 foot MSL. We conclude that the safety of the plant at elevation 15.25 feet MSL will not be compromised during any of these extreme flood conditions.