

Consolidated Edison Company of New York, Inc.
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Telephone (212) 460-3819

November 22, 1976

Re: Indian Point Station
Unit No. 3
Docket No. 50-286

Mr. James P. O'Reilly, Director
Region 1, Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, Pennsylvania

Dear Mr. O'Reilly

Our letter dated August 2, 1976 responded to the actions requested by IE Bulletin No. 76-06 relative to Safety related diaphragm operated relief valves. Item 3 of our letter stated that we would contact the two valve vendors involved for recommendations relative to diaphragm service life and shelf life. These contacts were made and the vendors responded as follows:

Valves PCV-455C and PCV-456

The diaphragms associated with these valves were fabricated from Buna-R material which has an operating life of approximately 100,000 - 200,000 cycles in normal operations at about 80°F. As the ambient temperature to which these valves are subjected to is on the order of 150°F the number of operating cycles could be reduced somewhat. The shelf life of the diaphragms is five (5) years when stored in a relaxed position.

Since the ambient temperature to which these diaphragms are subjected to is somewhat higher than the vendors normal design operating temperature, we

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plan to change out the diaphragms at the next refueling outage to a material that is currently in use on the comparable Unit No. 2 valves. The replacement diaphragms will be fabricated from silicone coated dacron and are rated for a sustained temperature of 250°F and intermittent temperature of not greater than 300°F for one half hour. The approximate shelf life of these diaphragms will be 8 - 10 years when stored in a relaxed position and the operating life at an ambient temperature of 250°F or less will be about 100,000 cycles.

Valves PCV 1134 - 1137

The diaphragms associated with these valves were fabricated from Buna Rycar 1051 with a nylon mesh insert with a temperature limit during operation of 250°F. Shelf life of the diaphragms is indefinite when kept in cool, dry, dark storage. The operating life expectancy could be 40 years under optimum conditions down to perhaps 2 years under very severe conditions

Our evaluation of the environmental conditions to which the above diaphragms are exposed indicate that the diaphragm materials installed are presently satisfactory and that no further action beyond the replacement of the diaphragms associated with PCV-455C and PCV-456 at the next refueling outage is warranted.

Very truly yours

