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Swet

May 9, 1988

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

E.C. Wenzinger, Chief
Projects Branch No. 2
Division of Reactor Projects
U.S. Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, PA 19406-1498

Subject: Motor-Operated Valve (MOV) Switch Settings, IE Bulletin (IEB) 85-03 - Request for Additional Information

This letter is in response to your April 7, 1988 request for additional information regarding IE Bulletin 85-03. Attached are our responses to your request for additional information.

If you have any questions please contact Jude G. Del Percio, Manager, Regulatory Affairs.

Very truly yours

Stephen B. Bram

cc: Document Control Desk
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Attachment

Consolidated Edison Company of New York, Inc.
Indian Point Unit No. 2
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ADDITIONAL INFORMATION REQUESTED

1. Has water hammer due to valve closure been considered in the determination of pressure differentials? If not, explain.

   RESPONSE

   Valve closure time is too long to produce water hammer; typical minimum closure times are about 10 seconds. Further, closing these valves does not produce the conditions necessary for water hammer - sudden confinement of a flowing fluid. In all cases, either confinement is lacking or flowing fluid is lacking.

2. If MOVATS is planned for application to some MOVs which are not included in its data base, commit to and describe an alternate method for determining the extra thrust necessary to overcome pressure differentials for these valves.

   RESPONSE

   Of the thirteen (13) valves in question seven (7) were not included in the MOVATS data base. In order to offset this limitation all 13 valves involved were stroke tested. The seven (7) valves previously noted were stroke tested with full Delta P applied.

   In addition to the completed stroke tests, Con Edison initiated an independent engineering analysis of all thirteen (13) for comparison and validation against the MOVATS date base. The results of Con Edison's engineering analysis were reconciled with MOVATS and documented in our February 26, 1988 submittal. The test and analysis was completed prior to the end of January 1988 and produced data for valves not on the MOVATS data base.

3. The proposed program for action items b, c and d of the bulletin is incomplete. Provide the following details as a minimum:

   (a) commitment to a training program for setting switches, maintaining valve operators, using signature testing equipment and interpreting signatures.

   RESPONSE

   Training on the use of signature testing equipment for setting switches and maintaining valve operators as well as interpreting signatures will be provided to appropriate individuals prior to the use of this equipment in the 1989 refueling outage. This training will supplement the existing courses on MOV's in the Maintenance Training Program.

(b) Commitment to justify continued operation of a valve determined to be inoperable.

RESPONSE

All valves initially tested were found to be operable, therefore, continued valve operation was not in question.

Subsequent to initial testing any valve found to be inoperable would require an evaluation to determine the appropriate course of action, given the plant configuration and system(s) involved.

(c) Consideration of pipe break conditions as required by the bulletin.

RESPONSE

The "Maximum Operating Delta P" reflects the maximum differential pressure that could be developed under the worst case operating mode. This assumes 0 psig downstream of the valve and encompasses the pipe break condition contained in the bulletin.

(d) Stroke testing to meet bulletin requirements.

RESPONSE

All thirteen designated valves were stroke tested with seven of the 13 valves stroke tested with full Delta P applied. The stroke testing was completed by December 1987.