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PHILADELPHIA ELECTRIC COMPANY

2301 MARKET STREET

P.O. BOX 8699

PHILADELPHIA, PA. 19101

(215) 841-5001

SHIELDS L. DALTROFF
VICE PRESIDENT
ELECTRIC PRODUCTION

May 1, 1979

Re: Docket Nos. 50-277
50-278

IE Bulletin: 79-04

Mr. Boyce H. Grier, Director
Office of Inspection and Enforcement
Region I
United States Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, PA 19406

Dear Mr. Grier:

This letter is in response to IE Bulletin 79-04, forwarded to us on March 30, 1979, concerning the possible use of incorrect weights for Velan Engineering Corporation swing check valves in seismic analyses. The "Action to be Taken by Licensees" and our responses are treated sequentially.

Action to be Taken by Licensee

1. List all Seismic Category I piping systems (or portions thereof) where 3, 4, or 6 inch diameter Velan swing check valves are installed or are scheduled to be installed.

Response

Two 4" Velan swing check valves are installed on each unit in the Control Rod Drive (CRD) return line and serve as the inboard and outboard containment isolation valves.

2. Verify for all those systems identified in Item 1 above that correct check valve weights were used in the piping analysis. Explain how and when the correct valve weights were determined.

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Response

The CRD return line piping between the drywell penetration and the reactor was seismically analyzed using 200 lbs. as the weight for the inboard isolation valve. This is not the correct weight.

We do not have documentation for the seismic analysis of piping from the outboard side of the drywell penetration through and including the outboard isolation valve.

During the investigation of this Bulletin, the actual valve weights were confirmed to be 135 lbs.

3. If incorrect valve weights were used, explain what actions have been taken or are planned to re-evaluate the piping systems affected.

Response

A seismic re-analysis has been completed for the CRD return line inboard isolation valve piping using the correct valve weight of 135 lbs. The results of the analysis are satisfactory.

A seismic analysis is currently being performed for the CRD return line outboard isolation valve piping using the correct valve weight of 135 lbs.

4. Specify for all the affected systems identified in Item 1 whether modifications were or are required to the piping systems or their supports because of changes in valve weight. Also, include the basis for this determination. For those systems in which the actual valve weight is greater than the design weight, provide a summary of stresses and loads and their allowable limits for the piping and its supports.

Response

No modifications are required to the inboard CRD return piping. The basis for this determination is the results of the seismic analysis of the piping using the actual valve weight of 135 lbs.

The seismic analysis of the outboard CRD piping is expected to be satisfactory. However, if the analysis indicates modifications to be warranted, they will be completed in an expeditious manner.

5. Identify the analytical technique including identification of any computer codes used to determine the stresses indicated in Item 4.

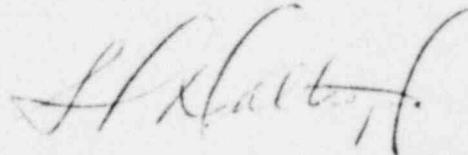
Response

The seismic re-analysis of the inboard CRD piping was completed using Code ME-632, the code used for the original analysis.

The seismic analysis being performed on the outboard CRD piping uses Code ME-101 (Linear Elastic Analysis of Pipe, a Bechtel Program).

A complete written response addressing those incomplete portions of Items 2,3, and 4 in reference to the CRD return line outboard isolation valve piping will be submitted to you on or before May 31, 1979.

Very truly yours,



cc: United States Nuclear Regulatory Commission
Office of Inspection and Enforcement
Division of Reactor Operations Inspection
Washington, DC 20555