



Wisconsin Electric POWER COMPANY
231 W. MICHIGAN, P.O. BOX 2046, MILWAUKEE, WI 53201

PDR

May 25, 1979

Mr. James G. Keppler, Director
Office of Inspection and Enforcement,
Region III
U. S. NUCLEAR REGULATORY COMMISSION
799 Roosevelt Road
Glen Ellyn, Illinois 60137

Dear Mr. Keppler:

DOCKET NOS. 50-266 AND 50-301
POINT BEACH NUCLEAR PLANT, UNIT NOS. 1 AND 2
RESPONSE TO IE BULLETIN NO. 79-04

My letter to you of May 2, 1979, provided a list of Seismic Category 1 piping systems in which 1500 lb. Velan check valves are installed and indicated the piping systems for which re-analysis was required. Re-analysis of these piping systems has been completed and we have determined that modifications to piping systems or pipe supports are not required. A summary of results is provided in the enclosure to this letter.

Piping systems were re-analyzed using Bechtel Power Corporation computer code ME-101 and valve weights provided in IE Bulletin No. 79-04. Pipe support loads from this analysis were compared to original design loads to ensure that each support was acceptable. In all cases, pipe support loads were less than design.

This completes our response to IE Bulletin No. 79-04.

Very truly yours,

Executive Vice President

Sol Burstein

Enclosure

6-1 1979

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POINT BEACH UNIT 1
VELAN ENGINEERING CORPORATION
VALVE LIST (1500 LB. ANSI RATING)

| SYSTEM | LINE NO. | VALVE ID | VALVE SIZE (In.) | VALVE WEIGHT USED (LBS.) | UPSET* CONDITIONS | | FAULTED** CONDITIONS | | PIPE SUPPORT LOADS |
|---|--------------|-------------|------------------------|-----------------------------------|----------------------|-------------------------------|----------------------|-------------------------------|-----------------------|
| | | | | | PIPE STRESS (PSI) | ALLOWABLE (1.2Sh) (PSI) | PIPE STRESS (PSI) | ALLOWABLE (1.8Sh) (PSI) | |
| Charging Pump Discharge to Regenerative Heat Exchanger | 3-CH-2502R-3 | 370 | 3 | 85 | 7,950 | 22,200 | 9,498 | 33,300 | Acceptable |
| Residual Heat Removal Heat Exchanger to Reactor Pressure Vessel | 6-SI-2501R-4 | 853A | 6 | 450 | 10,33 | 19,080 | 11,464 | 28,620 | Acceptable |
| | | 853C | 6 | 450 | 10,33 | 19,080 | 11,464 | 28,620 | Acceptable |
| Residual Heat Removal Heat Exchanger to Reactor Pressure Vessel | 6-SI-2501R-5 | 853D | 6 | 450 | 11,759 | 21,720 | 17,320 | 32,580 | Acceptable |
| Hot Leg Loop B Injection | 6-RC-2501R-6 | 877A | 6 | 450 | 6,565 | 20,400 | 6,226 | 30,600 | Acceptable |
| Hot Leg Loop B Injection | 6-RC-2501R-9 | 877B | 6 | 450 | 6,565 | 20,400 | 6,226 | 30,600 | Acceptable |
| Safety Injection Pump Discharge to Injection Line | 6-SI-1501R-1 | 889A | 6 | 450 | 12,044 | 18,600 | 17,609 | 27,900 | Acceptable |
| | | 889B | 6 | 450 | 12,044 | 18,600 | 17,609 | 27,900 | Acceptable |

* Summation of OBE, Weight and Pressure Stress

**Summation of SCE, Weight and Pressure Stress

POINT BEACH UNIT 2
VELAN ENGINEERING CORPORATION
VALVE LIST (1500 LB. NIST RATING)

| SYSTEM | LINE NO. | VALVE ID | VALVE SIZE (IN.) | VALVE WEIGHT USED (LBS.) | UPSET* CONDITIONS | | FAULTED** CONDITIONS | | PIPE SUPPORT LOADS |
|---|---------------|----------|------------------|--------------------------|-------------------|------------------------------------|----------------------|-----------------------------------|--------------------|
| | | | | | PIPE STRESS (PSI) | ALLOWABLE (1.25 σ_b) (PSI) | PIPE STRESS (PSI) | ALLOWABLE (1.8 σ_b) (PSI) | |
| Charging Line to Loop A Cold Leg | 3-RC-2501R-12 | 295 | 3 | 85 | 5,482 | 19,080 | 5,830 | 28,620 | Acceptable |
| Charging Pump Discharge to Regenerative Heat Exchanger | 3-CH-2502R-3 | 370 | 3 | 85 | 5,282 | 22,560 | 6,706 | 33,840 | Acceptable |
| Residual Heat Removal Heat Exchanger to Reactor Pressure Vessel | 6-SI-2501R-4 | 853A | 6 | 450 | 15,168 | 17,880 | 22,984 | 26,820 | Acceptable |
| | | 853C | 6 | 450 | 14,092 | 17,880 | 21,863 | 26,820 | Acceptable |
| Residual Heat Removal Heat Exchanger to Reactor Pressure Vessel | 6-SI-2501R-5 | 853D | 6 | 450 | 14,499 | 19,080 | 18,550 | 28,620 | Acceptable |
| Reactor Pressure Vessel Safety Injection Line | 6-SI-601R-2 | 853B | 6 | 450 | 14,499 | 19,080 | 18,550 | 28,620 | Acceptable |
| Hot Leg Loop B Injection | 6-RC-2501R-6 | 877A | 6 | 450 | 6,565 | 20,400 | 6,226 | 30,600 | Acceptable |
| Hot Leg Loop B Injection | 6-RC-2501R-9 | 877B | 6 | 450 | 6,565 | 20,400 | 6,226 | 30,600 | Acceptable |
| Safety Injection Pump Discharge to Injection Line | 6-SI-1501R-1 | 889A | 6 | 450 | 11,492 | 18,600 | 16,414 | 27,900 | Acceptable |
| | | 889B | 6 | 450 | 11,492 | 18,600 | 16,414 | 27,900 | Acceptable |

* Summation of OBE, Weight and Pressure Stress

** Summation of SSE, Weight and Pressure Stress

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