UNITED STATES
NUCLEAR REGULATORY COMMISSION
OFFICE OF INSPECTION AND ENFORCEMENT
WASHINGTON, D.C. 20555

SSINS No.: 6870
Accessions No.:
7912190652

January 11, 1980

IE Bulletin No. 80-01

OPERABILITY OF ADS VALVE PNEUMATIC SUPPLY

On January 10, 1980, the NRC was informed by Philadelphia Electric Company that engineering evaluation for Peach Bottom 2 and 3 has disclosed that the Automatic Depressurization System (ADS) pneumatic supply (either nitrogen or air) may not be operable for all possible events because of a combination of misapplication of check valve, a lack of leak testing of the accumulator system backing up each ADS valve operator and questions about the continued operability of the pneumatic supply in a seismic event. Attached is a simplified schematic of the pneumatic supply. The check valve nearest to the accumulator is a PAL, three-quarter inch, stainless steel, socket welded check valve with a hard seat (valve identification-B-1376 on the upper flange). Plant information at Peach Bottom shows substantial supports for the pneumatic supply inside the drywell, but seismic qualification has not been verified. The licensee has stated that the pneumatic supply is not seismically qualified outside the drywell.

Unit 2 was shutdown on 1/10/80 because of questions of ADS operability and Unit 3 has been provided a seismically qualified nitrogen supply at the containment penetration pending confirmation of seismic qualification of piping inside Unit 2 containment. The licensee is changing their valve to one with a soft seat to reduce leakage.

Actions to be taken by Licensees of GE BWR facilities with an operating license which use a pneumatic operator for ADS function:

1. Determine if your facility has installed hard-seat check valves to isolate the ADS accumulator system from the pneumatic supply system.

2. Determine if periodic leak tests have been performed on your ADS accumulator systems to assure emergency pneumatic supply for the FSAR-required number and duration of valve operations.

3. Review seismic qualifications of the ADS pneumatic supply system:

   (a) from accumulator system isolation check valve to ADS valve operator,

   (b) from isolation valve outside containment up to ADS accumulator check valve.

4. Based upon determination of items 1, 2 and 3 above, evaluate operability of the ADS for the conditions under which it is required to be operable including a seismic event. If operability cannot be established adhere to appropriate Technical Specification action statement.

5. Provide an immediate notification to the NRC in the event the ADS is found to be inoperable.

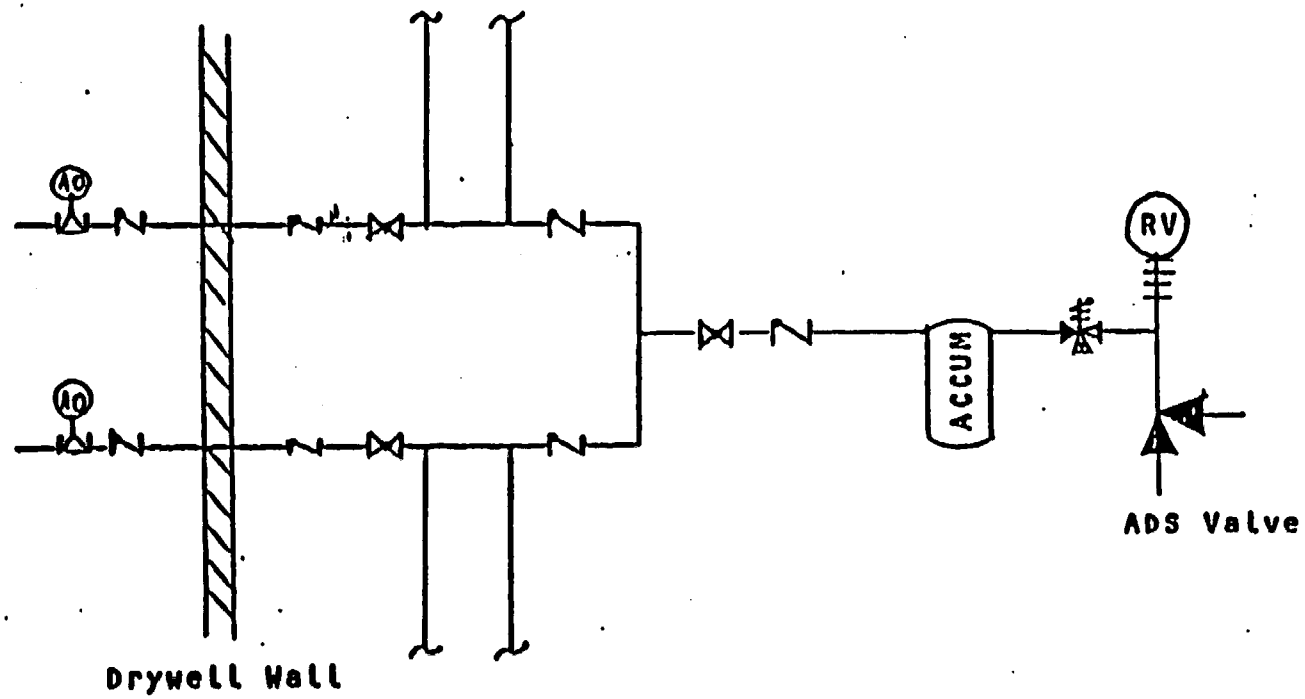
6. Provide a response in writing by January 18, 1980, for those facilities which use a pneumatic operator for ADS function.

Reports should be submitted to the Director of the appropriate NRC Regional Office and a copy should be forwarded to the U.S. Nuclear Regulatory Commission, Office of Inspection and Enforcement, Division of Reactor Operations Inspection, Washington, D.C. 20555.

Approved by GAO, B180225 (R0072); clearance expires July 31, 1980. Approval was given under a blanket clearance specifically for identified generic problems.

Attachment:
Sketch of ADS pneumatic supply

$N_2$, Air Supply To ADS Valves



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Enclosure

RECENTLY ISSUED
IE BULLETINS

| Bulletin No. | Subject | Date Issued | Issued To |
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| 79-01B | Environmental Qualification of Class IE Equipment | 1/14/80 | All power reactor facilities with an OL |
| 79-28 | Possible Malfunction of Namco Model EA 180 Limit Switches at Elevated Temperatures | 12/7/79 | All power reactor facilities with an OL or a CP |
| 79-27 | Loss Of Non-Class-1-E Instrumentation and Control Power System Bus During Operation | 11/30/79 | All power reactor facilities holding OLs and to those nearing licensing |
| 79-26 | Boron Loss From BWR Control Blades | 11/20/79 | All BWR power reactor facilities with an OL |
| 7[illegible]25 | Failures of Westinghouse BFD Relays In Safety-Related Systems | 11/2/79 | All power reactor facilities with an OL or CP |
| 79-17 (Rev. 1) | Pipe Cracks In Stagnant Borated Water System At PWR Plants | 10/29/79 | All PWR's with an OL and for information to other power reactors |
| 79-24 | Frozen Lines | 9/27/79 | All power reactor facilities which have either OLs or CPs and are in the late stage of construction |
| 79-23 | Potential Failure of Emergency Diesel Generator Field Exciter Transformer | 9/12/79 | All Power Reactor Facilities with an Operating License or a construction permit |
| 79-14 (Supplement 2) | Seismic Analyses For As-Built Safety-Related Piping Systems | 9/7/79 | All Power Reactor Facilities with an OL or a CP |

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| 80-14 | Degradation of Scram Discharge Volume Capability | 6/12/80 | All BWR's with an OL |
| 80-13 | Cracking In Core Spray Spargers | 5/12/80 | All BWR's with an OL |
| 80-12 | Decay Heat Removal System Operability | 5/9/80 | Each PWR with an OL |
| 80-11 | Masonry Wall Design | 5/8/80 | All power reactor facilities with an OL, except Trojan |
| 80-10 | Contamination of Nonradioactive System and Resulting Potential for Unmonitored, Uncontrolled Release to Environment | 5/6/80 | All power reactor facilities with an OL or CP |
| 80-09 | Hydramotor Actuator Deficiencies | 4/17/80 | All power reactor operating facilities and holders of power reactor construction permits |
| 80-08 | Examination of Containment Liner Penetration Welds | 4/7/80 | All power reactors with a CP and/or OL no later than April 7, 1980 |
| 80-07 | BWR Jet Pump Assembly Failure | 4/4/80 | All GE BWR-3 and BWR-4 facilities with an OL |
| 79-03A | Longitudinal Weld Defects In ASME SA-312 Type 304 Stainless Steel Pipe | 4/4/80 | All power reactor facilities with an OL or CP |
| 80-06 | Engineered Safety Feature (ESF) Reset Controls | 3/13/80 | All power reactor facilities with an OL |
| 80-05 | Vacuum Condition Resulting In Damage To Chemical Volume Control System (CVCS) Holdup Tanks | 3/10/80 | All PWR power reactor facilities holding OLs and to those with a CP |