BOSTON Edison COMPANY

NUCLEAR OPERATIONS DEPARTMENT

PILGRIM NUCLEAR POWER STATION

Procedure No. 8.7.1.10

PRESSURE TEST ADS ACCUMULATOR SYSTEM INTEGRITY

List of Effective Pages

Attachments

Approved Charles Mott
ORC Chairman

Date May 13 1983

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Enclosure No. 2

I. PURPOSE

The purpose of this procedure is to provide detailed instructions for the performance of a Pressure Test of the ADS Accumulator Systems to assure emergency pneumatic supply for the FSAR required number and duration of valve operations.

II. DISCUSSION

3 As required by BECo letter #80-11, dated January 18, 1980 "Response to I&E Bulletin 80-01". Engineering evaluation for Peach Bottom 2 and 3 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 pressure 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. The test frequency is to be during 3 refueling outage not to exceed every two years.

III. REFERENCE MATERIAL

A. P&ID M-252

B. P&ID M-220, Sheet 2

C. Design Specification 6498-M-18

D. M18AC - 28.1 - Ingersoll - Rand Co. Vertical Air Receiver

E. M.18-41-2BC - Certificate of Shop Inspection

IV. PREREQUISITES

A. Obtain Watch Engineers permission to start test.

B. Instrument Air System Operable.

C. All modifications to Air Lines/Check Valves Completed.

D. Radiation Work Permit and Maintenance Request approved.

E. Communications established as required.

F. Insure the Accumulators including any fittings attached to them are leak tight against normal system air pressure when "snooped".

V. APPARATUS

A. Four (4) Calibrated Temperature Indicators
B. Four (4) Pressure Gauges (0-160 psig)
C. Timing Device
D. Data Sheets
E. Four (4) new Flange Gaskets
F. Snoop

VI. PRECAUTIONS

A. Be aware that radiological and personal safety hazards exist with all work performed in the drywell no matter how minor.

B. Allow accumulator pressure and temperature to stabilize before starting this test.

VII. PROCEDURE

A. Tag the accumulators out of service securing air to each and draining them down.

NOTE: An M.R. should be written for the test to include Green (Testing) Tags for drains and air supply valves to the accumulators.

B. Issue an MR to have a calibrated pressure gage (0-100 psig or equivalent) and a temperature indicator installed on each accumulator (typical accumulator arrangement shown on page 8.7.1.10B-1).

C. Repressurize the accumulators with Station Instrument Air System, to 84 psig.

D. Close RV 9084, SV 203A and drain valve (typical for all four accumulators).

E. Close the one-inch manual air supply valves from the instrument air header.

F. Uncouple the bolted flanges located at each accumulator check valve inlet.

G. Read and record accumulator pressures and temperatures on Data Sheet (Attachment A-1) at the beginning of the test.

H. Read and record accumulator pressures and temperatures on Data Sheet (Attachment A-1) at the end of the 4 hour test.

I. Recouple bolted flanges installing new flange gaskets.

J. Open the one-inch manual air supply valves from the instrument air header and snoop bolted flanges for leaks.

K. Compare results of Step G to Acceptance Criteria and notify Watch Engineer of any discrepancies.

VIII. ACCEPTANCE CRITERIA

3| A. Seat leakage shall not drop each accumulator's pressure below 70 PSI, in four hours.

B. NED shall be advised of a failure of a valve test to meet their criteria.

IX. ATTACHMENTS

A. ADS Accumulator System Pressure Test Data

B. Relief Valve Accumulators Diagram.

ADS ACCUMULATOR SYSTEM PRESSURE TEST DATA

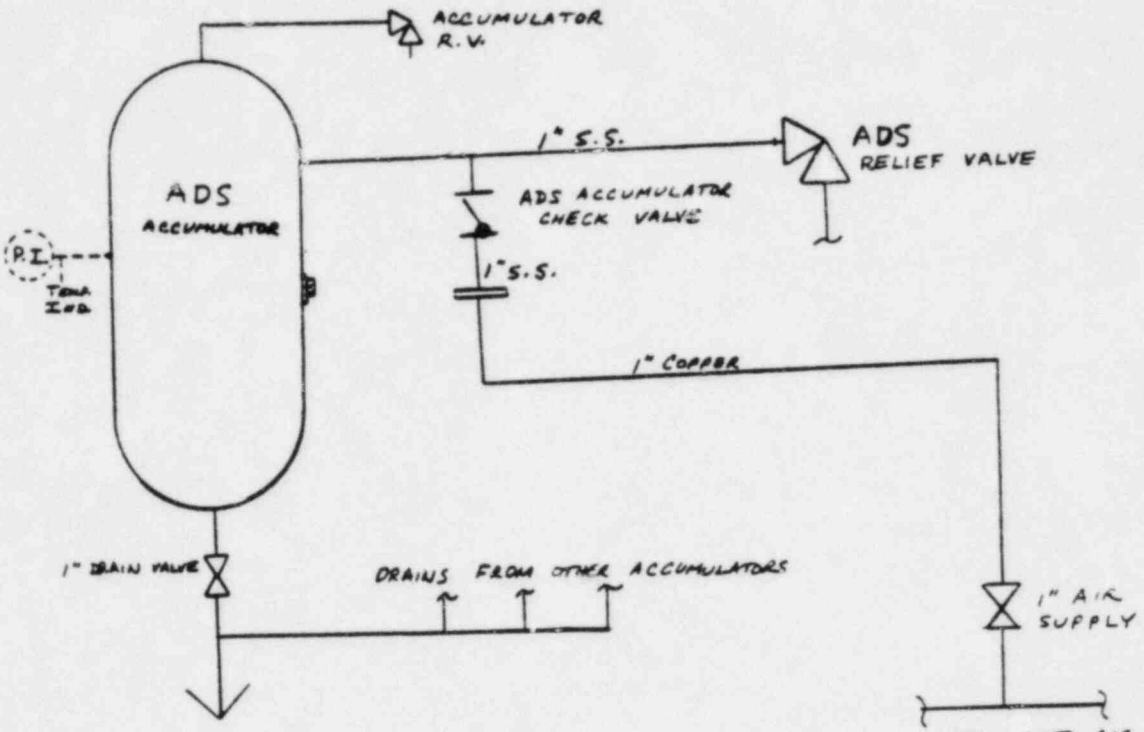
I. Obtain Data and Record in Table

Parameter	T-221-A	T-221-B	T-221-C	T-221-D	Exact Time	Initials
Beginning of Test Data						
Pressure						
Temperature						
End of Test Data						
Pressure						
Temperature						

II. Results compared to Acceptance Criteria of Section VIII and discrepancies identified in accordance with Station Procedure 1.3.24, FAILURE and MALFUNCTION REPORTS.

Verified By: _____
Performance Engineer/STA

RELIEF VALVE ACCUMULATORS



TYPICAL OF FOUR