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THREE MILE ISLAND NUCLEAR STATION
UNIT #2 EMERGENCY PROCEDURE 2202-2.3

LOSS OF INSTRUMENT AIR AND SERVICE AIR

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THREE MILE ISLAND NUCLEAR STATION

UNIT #2 EMERGENCY PROCEDURE 2202-2.3

LOSS OF INSTRUMENT AIR AND SERVICE AIR

1.0 SYMPTOMS

1.1 Instrument Air Compressor Trouble Alarm.

1.2 Service Air Compressors Trouble Alarm.

1.3 Low readings on Instrument Air and Service Air Receiver Pressure Indicators on Panel 17.

2.0 IMMEDIATE ACTION

2.1 Automatic Action

2.1.1 The SA & IA compressor in AUTO will start when IA/SA pressure drops to 100 psig.

2.1.2 SA-V358 closes at 70 psig isolating the Service Air System.

2.2 Manual Actions

2.2.1 Verify running or start all IA and SA compressors.

2.2.2 If Instrument Air pressure drops to 60 psig and continues to decrease:

2.2.2.1 Trip the Reactor and Turbine and carry out the immediate actions of 2202-1.1 and 2203-2.2.

CAUTION: Immediately isolate affected OTSG's atmospheric dump valve by closing the installed Manual valve (MS-V1A or MS-V1B) if a primary to secondary leak is detected.

2.2.2.2 Manually set MU-V32 for 40 gpm seal injection flow.

2.2.3 If, with all Instrument Air and Service Air compressors running, Instrument Air pressure is being maintained at ≥ 70 psig, CLOSE SA-V357 to isolate the Instrument Air System from the Service Air System.

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NOTE: If Instrument Air pressure increases after closing SA-V357, the leak is in the Service Air System.

3.0 FOLLOW UP ACTION

3.1 Attempt to locate and isolate the leak in the air system.

3.2 If Instrument Air pressure has continued to decrease below 60 psig:

3.2.1 Manually OPEN MU-V224A and/or 224B, (Inlet to Makeup and Purificaiton demineralizer filters).

3.2.2 Manually OPEN VA-V4A, B and/or C to the running Condenser Vacuum pump.

3.2.3 Manually OPEN Feedwater and Main Steam Penetration Cooling valves (AH-V91, 92, 93, and 94).

3.2.4 Trip the Reactor Building Normal Cooling Water pumps (RB-P-1A and 1B).

3.2.5 Trip the Control Building River Water Booster pumps (NR-P-2A and 2B).

3.2.6 Initiate Reactor Building Emergency Cooling per 2104-5.1.

3.3 If Instrument Air pressure is being maintained >60 psig.

3.3.1 Locate and isolate the leak.

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TMI DOCUMENTS

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