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THREE MILE ISLAND NUCLEAR STATION
UNIT #2 EMERGENCY PROCEDURE 2202-2.8
LOSS OF ONE AUXILIARY TRANSFORMER

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Cognizant Dept. Head

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Unit 1 PORC Recommends Approval
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Unit 2 PORC Recommends Approval
RPNewman Date 7/18/78
Chairman of PORC

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THREE MILE ISLAND NUCLEAR STATION
UNIT #2 EMERGENCY PROCEDURE 2202-2.8
LOSS OF ONE AUXILIARY TRANSFORMER

1.0 SYMPTOMS

1.1 The following alarms may annunciate on Panel 18:

1.1.1 Loss of Auxiliary Transformer 2A-

18.F11 Bus 4/8 Differential

18.B6 2A Aux. Transf. Sudden Pressure

18.C6 2A Aux. Transf. Voltage Loss

1.1.2 Loss of Auxiliary Transformer 2B-

18.F11 Bus 4/8 Differential

18.E6 2B Aux. Transf. Sudden Pressure

18.F6 2B Aux. Transf. Voltage Loss

1.2 All 4KV and 7KV busses have fast transferred to the energized Aux. Transf.

1.3 The 230KV Bus 4 or Bus 8 voltmeters on Panel 6 indicated zero volts.

2.0 IMMEDIATED ACTION

2.1 Automatic Action

2.1.1 The following pumps will trip and the starting of the appropriate back-up pumps will be blocked upon loss of either Aux. Transf. in accordance with Attachment 1.

2.1.2 The ICS will runback unit load to approximately 50% after a condensate booster/feedwater pump trip.

2.2 Manual Action

2.2.1 Verify that the appropriate pumps have tripped or have not started in accordance with Attachment I. If pumps have not tripped automatically, manually trip the appropriate pumps.

2.2.2 Verify that the ICS has initiated a runback to approximately 50% power. If not, manually initiate runback to 50% power.

3.0 FOLLOW-UP ACTION

3.1 Ensure that E.S. busses 2-1E/2-2E voltage is maintained at $\geq$ 3,700 volts as indicated on Panel 6 voltmeters. If necessary, trip an additional CWP or Heater Drain Pump and adjust the operating power level accordingly.

3.2 Attempt to restore the inoperative Aux. Transf. as soon as possible.

3.3 Comply with the T.S. 3.8.1.1 or T.S.3.8.1.2 Action Statements.

ATTACHMENT I

Emergency Tripping of Pumps upon Loss of One Aux. Transf.

1. If CW-P-1A, CW-P-1B, and CW-P-1C are all running, CW-P-1A will trip after a time delay of 15 sec. after loss of one Aux. Transf.
2. If CW-P-1D, CW-P-1E, and CW-P-1F are all running, CW-P-1D will trip after a time delay of 15 sec. after loss of one Aux, Transf.
3. If CO-P-2A and CO-P-2C are running, CO-P-2A will be tripped and locked out. Also, the interlocked tripping of CO-P-1A will be blocked.
4. If CO-P-2B and CO-P-2C are running, CO-P-2B will be tripped and locked-out. Also, the interlocked tripping of CO-P-1B will be blocked.
5. If CO-P-2A and CO-P-2B are running, CO-P-2B will be tripped and locked-out. Also, the interlocked tripping of CO-P-1B will be blocked.
6. If HD-P-1A and HD-P-1C are running, HD-P-1A will be tripped and locked-out. Also, the interlocked starting of back-up pump HD-P-1B will be blocked.
7. If HD-P-1B and HD-P-1C are running, HD-P-1B will be tripped and locked-out. Also, the interlocked starting of back-up pump HD-P-1A will be blocked.
8. If HD-P-1A and HD-P-1B are running, HD-P-1B will be tripped and locked-out. Also the interlocked starting of back-up pump HD-P-1C will be blocked.