

TMI DOCUMENTS

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THREE MILE ISLAND NUCLEAR STATION  
UNIT #2 OPERATING PROCEDURE 2104-5.11

## CIRCULATING WATER PUMP HOUSE HEATING AND VENTILATION

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Unit 1 Staff Recommends Approval

Approval N/A Date \_\_\_\_\_  
Cognizant Dept. Head

Unit 2 Staff Recommends Approval

Approval N/A Date \_\_\_\_\_  
Cognizant Dept. Head

Unit 1 PORC Recommends Approval

\_\_\_\_\_  
Chairman of PORC

PORC comments of N/A included  
(date)

By \_\_\_\_\_ Date \_\_\_\_\_

Unit 2 PORC Recommends Approval

J. F. Helms Date 8/20/75  
Chairman of PORC

PORC comments of \_\_\_\_\_ included  
(date)

By no comments Date \_\_\_\_\_

Approval J. P. Miller Date 8/20/75  
Station Superintendent/  
Unit Superintendent 186 297 TMI-55-A 11-74

THREE MILE ISLAND NUCLEAR STATION  
UNIT #2 OPERATING PROCEDURE 2104-5.11  
CIRCULATING WATER PUMP HOUSE HEATING AND VENTILATION

1.0 References

1.1 Drawings Applicable for Operation

1.1.1 B&R #2047, Heating and Ventilation, Circ. Water Pump  
House

1.2 Operating Procedures Applicable for Operation

1.2.1 Circulating Water System, 2104-3.6

1.3 Manufacturers Instruction Manual

1.3.1 Buffalo Forge Manual - Fan Coil Unit (63.05)

1.3.2 Chromalox Manual - Unit Heaters (63.19)

1.4 System Descriptions

1.4.1 H&V Circulating Water Pump House (Index No. 40)

1.4.2 Circulating Water System (Index No. 15)

2.0 Limits and Precautions

2.1 The MANUAL-OFF-AUTO switches controlling the roof ventilator fans should be left in the AUTO position to insure that the fans will start whenever the associated circulating water pump is started and thermostat setpoint is reached.

3.0 Prerequisites

INITIAL EACH STEP

\_\_\_\_ 3.1 Check power available to BUS 2-51 and the following breakers  
closed:

Unit DR2 AH-E-22A

Unit DR3 AH-E-22C

Unit DR4	AH-E-22E
Unit GR4	AH-C-21A
Unit GR5	AH-C-21C
Unit GR6	AH-C-21E
Unit GR3	AH-C-22C

\_\_\_\_3.2 Check power available to BUS 2-61 and the following breakers  
closed:

Unit BS2	AH-E-22B
Unit BS3	AH-E-22D
Unit BS4	AH-E-22F
Unit AS2	AH-C-21B
Unit AS3	AH-C-21D
Unit AS4	AH-C-23
Unit AS5	AH-C-22A
Unit AS6	AH-C-22B
Unit BS5	AH-C-22D
Unit FS3	AH-E-29
Unit GS3	MP-2-61

\_\_\_\_3.3 Check power available to panel MP-2-61 and the following  
breakers closed:

Brkr. 5	AH-C-21B control power
Brkr. 6	AH-C-22A control power
Brkr. 7	AH-C-21D control power
Brkr. 8	AH-C-22D control power
Brkr. 9	AH-C-23 control power
Brkr. 10	AH-C-22C control power

Brkr. 11	AH-C-22B control power
Brkr. 12	AH-C-21E control power
Brkr. 13	AH-C-21A control power
Brkr. 15	AH-C-21C control power
Brkr. 16	Control panel 321 power
Brkr. 27	D5080A and D5080B
Brkr. 29	D5081A
Brkr. 30	D5081B
Brkr. 31	D5081C
Brkr. 32	D5081D
Brkr. 33	D5081E
Brkr. 34	D5081F

#### 4.0 Procedure

##### 4.1 Startup

\_\_\_\_ 4.1.1 At the CW H&V control panel No. 321, set each exhaust fan  
MANUAL-OFF-AUTO switch to AUTO.

_____ AH-E-22A	_____ AH-E-22D
_____ AH-E-22B	_____ AH-E-22E
_____ AH-E-22C	_____ AH-E-22F
	_____ AH-E-29

\_\_\_\_ 4.1.2 Set each local unit heater control switch to AUTO mounted  
on the MCC compartment.

_____ AH-C-22A	Loading Platform
_____ AH-C-22B	Loading Platform
_____ AH-C-21A	Pump Room,
_____ AH-C-21B	Pump Room

_____	AH-C-21C	Pump Room
_____	AH-C-21D	Pump Room
_____	AH-C-21E	Pump Room
_____	AH-C-23	Pump Room
_____	AH-C-22C	Electrical Equip. Room
_____	AH-C-22D	Electrical Equip. Room

If heating is required, any or all of the electric heaters are started by turning the local thermostat selector switch to AUTO and setting the thermostat to the desired temperature.

- \_\_\_\_\_ 4.1.3 In the electrical equipment room, set the local MANUAL-OFF-AUTO thermostat switch for AH-E-29 to AUTO.

#### 4.2 Normal Operation

During normal operation, the exhaust fans AH-E-22A thru F operates whenever the associated CW pump is running and the room temperature exceeds 100°F. The associated intake damper also opens. When the pump motor shuts down, or the room temperature drops below 100°F, the associated exhaust fan stops and intake damper closes. Exhaust fan AH-E-29 will operate whenever electrical equipment room temperature exceeds 75°F. The unit heaters will start if ambient temperature falls below the associated thermostat setpoint.

#### 4.3 Shutdown

- \_\_\_\_\_ 4.3.1 To shut down pump room exhaust fans turn each fan selector switch at panel 321 to OFF.
- \_\_\_\_\_ 4.3.2 The unit heaters are shut down by turning the thermostat selector switch to OFF. The unit heater control switches are also turned OFF.

4.3.3

The electrical equipment room exhaust fan AH-E-29 is shut down by turning the thermostat selector switch to OFF.