



- SYMBOLS**
- DUCTWORK & DIRECTION OF FLOW.
  - AIR MOVEMENT WITHOUT DUCTS.
  - COOLING COIL.
  - HEATING COIL.
  - V.D. VOLUME DAMPER.
  - B.D. BACKWARD DRAFT DAMPER.
  - A.O. AIR OPERATED DAMPER.
  - M.D. MOTOR DAMPER.
  - F.D. FIRE DAMPER.
  - S.D. SPLITTER DAMPER.
  - ROLL FILTER.
  - AIR CHANGE PER HOUR.
  - OUTSIDE AIR.
  - INLET CONTROL VANES.

- NOTES:**
- ALL INDICATING LAMPS ON VALVES TO BE ON VENTILATION PANEL BOARD IN MAIN CONTROL ROOM.
  - ALL ITEM NUMBERS TO BE PREFIXED BY 2T41 TO COMPLETE MPL LISTING UNLESS SHOWN OTHERWISE.
  - TWO UPSCALE TRIPS ON CHANNEL "A" OF REFUELING FLOOR AREA RADIATION EXHAUST MONITORS SHALL:
    - (1) SHUT DOWN THE REFUELING FLOOR SUPPLY AND EXHAUST FANS AND CLOSE REFUELING FLOOR SUPPLY AND EXHAUST ISOLATION VALVES
    - (2) INITIATE STANDBY GAS TREATMENT SYSTEM AND OPEN AO-F001A AND F003A (REF. 1) ANY ONE UPSCALE TRIP SHALL ALARM ANY ONE DOWNSCALE TRIP SHALL ALARM
  - TWO UPSCALE TRIPS ON CHANNEL "B" OF REFUELING FLOOR AREA RADIATION EXHAUST MONITORS SHALL:
    - (1) SHUT DOWN THE REFUELING FLOOR SUPPLY AND EXHAUST FANS AND CLOSE REFUELING FLOOR SUPPLY AND EXHAUST ISOLATION VALVES
    - (2) INITIATE STANDBY GAS TREATMENT SYSTEM AND OPEN AO-F001B AND F003B (REF. 1) ANY ONE UPSCALE TRIP SHALL ALARM ANY ONE DOWNSCALE TRIP SHALL ALARM
  - LOSS OF COOLANT ACCIDENT (LOCA) - DRYWELL HIGH PRESSURE OR RPV WATER LEVEL 2 SIGNALS SHALL:
    - (1) SHUT DOWN THE REFUELING FLOOR SUPPLY AND EXHAUST FANS AND CLOSE REFUELING FLOOR SUPPLY AND EXHAUST ISOLATION VALVES
    - (2) INITIATE STANDBY GAS TREATMENT SYSTEM AND OPEN AO-F001A & B AND F003A & B (REF. 1)
  - ALL SUPPLY AND EXHAUST DUCT ARE SEISMIC CLASS 1 AND SHALL MEET THE QUALITY ASSURANCE REQUIREMENTS.
  - \* INDICATES INSTRUMENT SUPPLIED WITH THE ASSOCIATED CONTRACTOR
  - # INDICATES INSTRUMENT SUPPLIED BY HVAC CONTRACTOR.
  - ALL DRAINS FROM FILTER TRAINS & COOLING COILS SHALL BE ROUTED TO THE NEAREST DRAIN.
  - FOR FIRE PROTECTION TO THE CARBON FILTER SEE REFERENCE 5.
  - HIGH RADIATION IN THE UNIT 1 OR UNIT 2 REACTOR BLDG. EXHAUST : SEE NOTE 1 AND 2 IN REF. 6.
  - SUPPLY AIR FAN (2T41-C002A OR B) LOW FLOW ALARM.

**REFERENCES:**

REF	MPL NO.	SSN
1.	STANDBY GAS TREATMENT PROCESS FLOW & P&ID.	2746-1010 H-26078
2.	PIPING AND INSTRUMENT SYMBOLS	A42-1010 S-15051
3.	NUCLEAR BOILER SYSTEM P&ID.	2B21-1010 H-26000, 1
4.	PROCESS RADIATION MONITORING SYSTEM IED	2D11-1010 H-26011, 12,13
5.	FIRE PROTECTION TO FILTER TRAINS IN REACTOR, RADWASTE & TURBINE BUILDINGS P&ID	H-21342
6.	REACTOR BUILDING VENTILATION SYSTEM P&ID	2T41-1010 H-26067
7.	PLANT HEATING SYSTEM P&ID.	2P61-1020 H-26065
8.	FIRE PROTECTION SYS. P&ID	2T43-1010 H-21017
9.	DIGITAL INPUT SIGNALS TO THE ERF COMPUTER SYSTEM IED SHEET 8 OF 15.	X75-1010 H-16410
10.	DIGITAL INPUT SIGNALS TO THE 2X75-1010 ERF COMPUTER SYSTEM IED SHEET 8 OF 15.	H-26177
11.	REFUELING FLOOR VENT P&ID (UNIT 1)	1T41 H-16014
12.	STANDBY GAS TREATMENT P&ID (UNIT 1)	1T46 H-16020 H-16174

**BOUNDARY DIAGRAM NO.: 2T41-B01-02**  
**FUNCTION(S) NO.: 2T41-01**  
 PREPARED BY: ED DAVIDSON  
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 REVIEWED BY: ALEX MORRISON  
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**LICENSE RENEWAL DOCUMENT**

MPL NO. 2T41-1010 ACAD14 HL26072

**SOUTHERN COMPANY**

**LICENSE RENEWAL SCREENING FOR INFORMATION ONLY**

EDWIN I. HATCH NUCLEAR PLANT UNIT No. 2  
 REACTOR BUILDING REFUELING FLOOR VENTILATION SYSTEM P&ID.

DATE	SCALE	LOCATION	DOCUMENT NUMBER	REVISION
10-502	None		HL-26072	A

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