



- GENERAL NOTES:
1. DE-ENERGIZES ON HIGH DIFFERENTIAL PRESSURE (TORUS HIGH VACUUM).
 2. ALL SOLENOID VALVES ARE OPERATED BY AC POWER UNLESS NOTED AS DC.
 3. DRYWELL AND TORUS EXHAUST TO STANDBY GAS TREATMENT SYSTEM IS A CLASS 1 SYSTEM.
 4. EACH TE REPRESENTS A DUAL ELEMENT RTD, ONE ELEMENT PROVIDING INPUT TO THE TEMPERATURE RECORDER (TR), AND ONE ELEMENT WIRED TO PROVIDE INPUT TO THE COMPUTER. FOR COMPUTER INPUT NUMBERS SEE TABLE 3.
 5. ALL VALVES AND INSTRUMENTATION ARE SUPPLIED BY REDTEL OR BECO EXCEPT AS NOTED OR AS DESIGNATED BY + (C & I PROVIDED) OR * (PROVIDED WITH ASSOCIATED EQUIPMENT).
 6. MANUAL SWITCHES FOR AO-5043A AND AO-5043B CAN OVERRIDE ALL AUTOMATIC SIGNALS SUCH THAT UPON CONTAINMENT ISOLATION INITIATION, THEIR RESPECTIVE SWITCHES CAN BE MANUALLY PLACED IN EMERGENCY OPEN CONDITION ALLOWING BLEED THROUGH F0506B AS REQUIRED PROVIDING VALVE WITH EXTENSION OPERATOR S-45-2 IS PRIOR CLOSED BY ADMINISTRATIVE PROCEDURE.
 7. LOCATE PRESSURE GAGE SENSING LINE AS NEAR CONTAINMENT AS POSSIBLE.
 8. RE1001-607A & B ARE LOCATED OUTSIDE TORUS AT ELEVATION (-) 2'-3" AND NO PENETRATIONS ARE INVOLVED. APPROXIMATE AZIMUTH: RE1001-607A, 228°; RE1001-607B, 125°.
 9. SEE PADS M239 SHEET 1 THRU 3 FOR SAMPLING.
 10. VALVE 45-HO-237 MAY ONLY BE OPENED FOR LIFT OR IRT.
 11. PTD-5067A AND PTD-5067B LOW SIDE ARE VENTED TO REACTOR BUILDING.
 12. THERE ARE TWO SETS OF INDICATING LIGHTS FOR THIS VALVE ON CS04.

- SYSTEM INTENDED FUNCTION BOUNDARY
- COMPONENTS SUBJECT TO AMR
- HIGH PRESSURE COOLANT INJECTION SYSTEM AMRM-05
 - STANDBY GAS TREATMENT SYSTEM AMRM-07
 - PRIMARY CONTAINMENT ATMOSPHERIC CONTROL SYSTEM AMRM-08
 - INSTRUMENT AIR SYSTEM AMRM-16
 - PRIMARY CONTAINMENT PENETRATIONS AMRM-20

TABLE 1

| OPERATOR | SOLENOID VALVE | POSITION SWITCH | POSITION SWITCH | COMPUTER POINT NO. | PENETRATION NUMBER |
|----------|----------------|-----------------|-----------------|--------------------|--------------------|
| X-201A | AO-5045A | ZS-5045A1 | ZS-5045A2 | ZS-5045A3 | X-203A |
| X-201B | AO-5045B | ZS-5045B1 | ZS-5045B2 | ZS-5045B3 | X-203B |
| X-201C | AO-5045C | ZS-5045C1 | ZS-5045C2 | ZS-5045C3 | X-203C |
| X-201D | AO-5045D | ZS-5045D1 | ZS-5045D2 | ZS-5045D3 | X-203D |
| X-201E | AO-5045E | ZS-5045E1 | ZS-5045E2 | ZS-5045E3 | X-203E |
| X-201F | AO-5045F | ZS-5045F1 | ZS-5045F2 | ZS-5045F3 | X-203F |
| X-201G | AO-5045G | ZS-5045G1 | ZS-5045G2 | ZS-5045G3 | X-203G |
| X-201H | AO-5045H | ZS-5045H1 | ZS-5045H2 | ZS-5045H3 | X-203H |
| X-201I | AO-5045I | ZS-5045I1 | ZS-5045I2 | ZS-5045I3 | X-203I |
| X-201J | AO-5045J | ZS-5045J1 | ZS-5045J2 | ZS-5045J3 | X-203J |
| X-201K | AO-5045K | ZS-5045K1 | ZS-5045K2 | ZS-5045K3 | X-203K |

TABLE 2

| MOISTURE ELEMENT | MOISTURE POINT NO. | COMPUTER POINT NO. |
|------------------|--------------------|--------------------|
| ME-5051B | MT-5051B | DRY024 |
| ME-5051C | MT-5051C | DRY026 |
| ME-5051D | MT-5051D | DRY028 |
| ME-5051E | MT-5051E | DRY030 |
| ME-5051F | MT-5051F | DRY032 |
| ME-5051G | MT-5051G | DRY034 |
| ME-5051H | MT-5051H | DRY036 |
| ME-5051I | MT-5051I | DRY038 |
| ME-5051J | MT-5051J | DRY040 |
| ME-5051K | MT-5051K | DRY042 |

TABLE 3

| TEMPERATURE ELEMENT | COMPUTER POINT NUMBER | TEMPERATURE RECORDER |
|---------------------|-----------------------|----------------------|
| TE-5050B | DRY004 | TR-5050 |
| TE-5050C | DRY006 | |
| TE-5050D | DRY008 | |
| TE-5050E | DRY010 | |
| TE-5050F | DRY012 | |
| TE-5050G | DRY014 | |
| TE-5050H | DRY016 | |
| TE-5050I | DRY018 | |
| TE-5050J | DRY020 | |
| TE-5050K | DRY022 | |
| TE-5050L | DRY024 | |
| TE-5050M | DRY026 | |
| TE-5050N | DRY028 | |
| TE-5050O | DRY030 | |
| TE-5050P | DRY032 | |
| TE-5050Q | DRY034 | |
| TE-5050R | DRY036 | |
| TE-5050S | DRY038 | |
| TE-5050T | DRY040 | |

41100-1928 FSAR FIGURE 5.4-1 (REV 16) AMM/MECH/M227SH1.DWG

ENTERTY NUCLEAR GENERATION COMPANY
PILGRIM STATION
PLYMOUTH, MA

P&ID
CONTAINMENT ATMOSPHERIC CONTROL SYSTEM

M227 SH 1 58

NO. DATE DESCRIPTION BY ENG CHK APP REVISIONS

LRA-M-227-SH-01-0

CR FILE
LRA-M-227-SH-01-E58.DGN

ENTER FILE
M227SH1-CALS_58.CAL

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