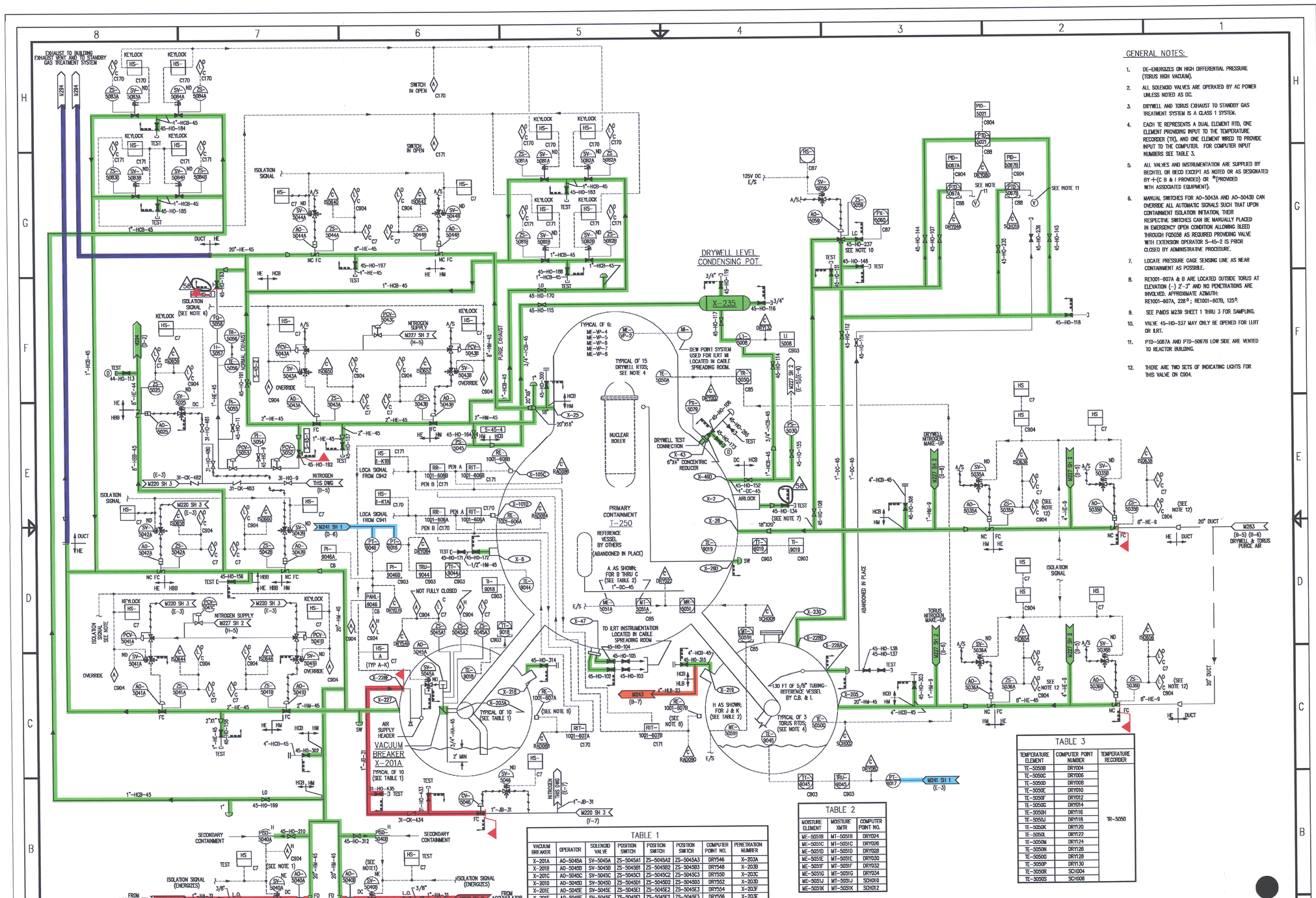

GENERAL NOTES:

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 BECHTEL OR BECO EXCEPT AS NOTED OR AS DESIGNATED BY -H-(C B & 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 FO5058 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 P&IDS M239 SHEET 1 THRU 3 FOR SAMPLING.
10. VALVE 45-HO-237 MAY ONLY BE OPENED FOR LLRT OR ILRT.
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 C904.

TABLE 1

VACUUM BREAKER	OPERATOR	SOLENOID VALVE	POSITION SWITCH	POSITION SWITCH	POSITION SWITCH	COMPUTER POINT NO.	PENETRATION NUMBER
X-201A	AO-5045A	SV-5045A	ZS-5045A1	ZS-5045A2	ZS-5045A3	DRY546	X-203A
X-201B	AO-5045B	SV-5045B	ZS-5045B1	ZS-5045B2	ZS-5045B3	DRY548	X-203B
X-201C	AO-5045C	SV-5045C	ZS-5045C1	ZS-5045C2	ZS-5045C3	DRY550	X-203C
X-201D	AO-5045D	SV-5045D	ZS-5045D1	ZS-5045D2	ZS-5045D3	DRY552	X-203D
X-201E	AO-5045E	SV-5045E	ZS-5045E1	ZS-5045E2	ZS-5045E3	DRY554	X-203E
X-201F	AO-5045F	SV-5045F	ZS-5045F1	ZS-5045F2	ZS-5045F3	DRY556	X-203E
X-201G	AO-5045G	SV-5045G	ZS-5045G1	ZS-5045G2	ZS-5045G3	DRY558	X-203G
X-201H	AO-5045H	SV-5045H	ZS-5045H1	ZS-5045H2	ZS-5045H3	DRY560	X-203H
X-201J	AO-5045J	SV-5045J	ZS-5045J1	ZS-5045J2	ZS-5045J3	DRY562	X-203J
X-201K	AO-5045K	SV-5045K	ZS-5045K1	ZS-5045K2	ZS-5045K3	DRY564	X-203K

NOTES:

A. POSITION SWITCHES ZS-5045A1 THRU ZS-5045K1 HAVE ONE ALARM COMMON TO ALL AND AN INDICATING LIGHT (CLOSED) FOR EACH POSITION SWITCH MOUNTED ON PANEL C7.

B. POSITION SWITCHES ZS-5045A2 THRU ZS-5045K2 HAVE AN ALARM ON PANEL C905 COMMON TO ALL.

C. SOLENOID VALVES SV-5045A THRU SV-5045K ARE OPERATED BY HAND SWITCHES ON PANEL C7.

D. POSITION SWITCHES ZS-5045A3 THRU ZS-5045A3 HAVE INDICATING LIGHTS (OPEN) ON PANEL C7.

TABLE 2

MOISTURE ELEMENT	MOISTURE XMTR	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-5051J	MT-5051J	SCH010
ME-5051K	MT-5051K	SCH012

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	DRY116	
TE-5050J	DRY118	
TE-5050K	DRY120	
TE-5050L	DRY122	
TE-5050M	DRY124	
TE-5050N	DRY126	
TE-5050O	DRY128	
TE-5050P	DRY130	
TE-5050R	SCH004	
TE-5050S	SCH006	

COMPONENTS SUBJECT TO AMR

- HIGH PRESSURE COOLANT INJECTION SYSTEM AMRM-05
- STANDBY GAS TREATMENT SYSTEM AMRM-07
- PRIMARY CONTAINMENT ATMOSPHERE CONTROL SYSTEM AMRM-08
- INSTRUMENT AIR SYSTEM AMRM-16
- PRIMARY CONTAINMENT PENETRATIONS AMRM-20

NO.	DATE	DESCRIPTION	BY	ENG	CHK	APP
0	10-17-05					

REVISIONS

NO	DATE	REVISIONS	BY	ENG	CHK	APP
E51	6/04/00	REVISED FOR PR 98.0584.01 PER DCN01633	DOC	–	DMM	DLJ
E50	4/04/00	REVISED PER DCN 97-09223	CTS	–	AEJ	DLJ
E49	4/04/00	ELECTRONIC CONVERSION PER DCN 97-00037	CTS	–	AJB	DLJ
58	8/05	INCORPORATED ERN 05-08280	LOC	–	DLJ	NA
E57	10/03	REVISED PER DCN 03-15495	TEB	–	AEJ	MJB
E56	4/03	REVISED FOR CB-PNP-2002-08652 PER DCN 14465	CTS	–	TEB	MJB
E55	5/01	REVISED FOR FRN 00-01-67 & 67A PER DCN 10514	CTS	–	AEJ	DLJ
E54	6/98	B. REVISED FOR PDC 98-41 PER DCN 08203	TEB	–	AJB	DLJ
		A. REVISED FOR PDC 96-19 PER DCN 08201		–	AJB	DLJ
E53	2/98	REVISED FOR PR 96.0583.01 PER DCN 04884	CTS	–	AEJ	DLJ
E52	5/88	REVISED PER DCN 98-03130	CTS	–	AJB	DLJ

EPIC SYSTEM ELEMENTARY DIAGRAM — M228A2
TITLE OF REFERENCE DRAWINGS — DWG NUMBER

SCALE: NONE | DESIGNED: BECHTEL | DRAWN: T E BAKER | E

Entergy Nuclear Generation Company
PILGRIM STATION
PLYMOUTH, MA

TITLE: P&ID CONTAINMENT ATMOSPHERIC CONTROL SYSTEM

Q [X] Non Q

DRAWING NO. M227 SH 1 | REV 58

CAD FILE: LRA-M-227-SH-01-0
LRA-M-227-SH-01_E58.DGN
MICRO FILE: M227SH1-CALS_58.CAL

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

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