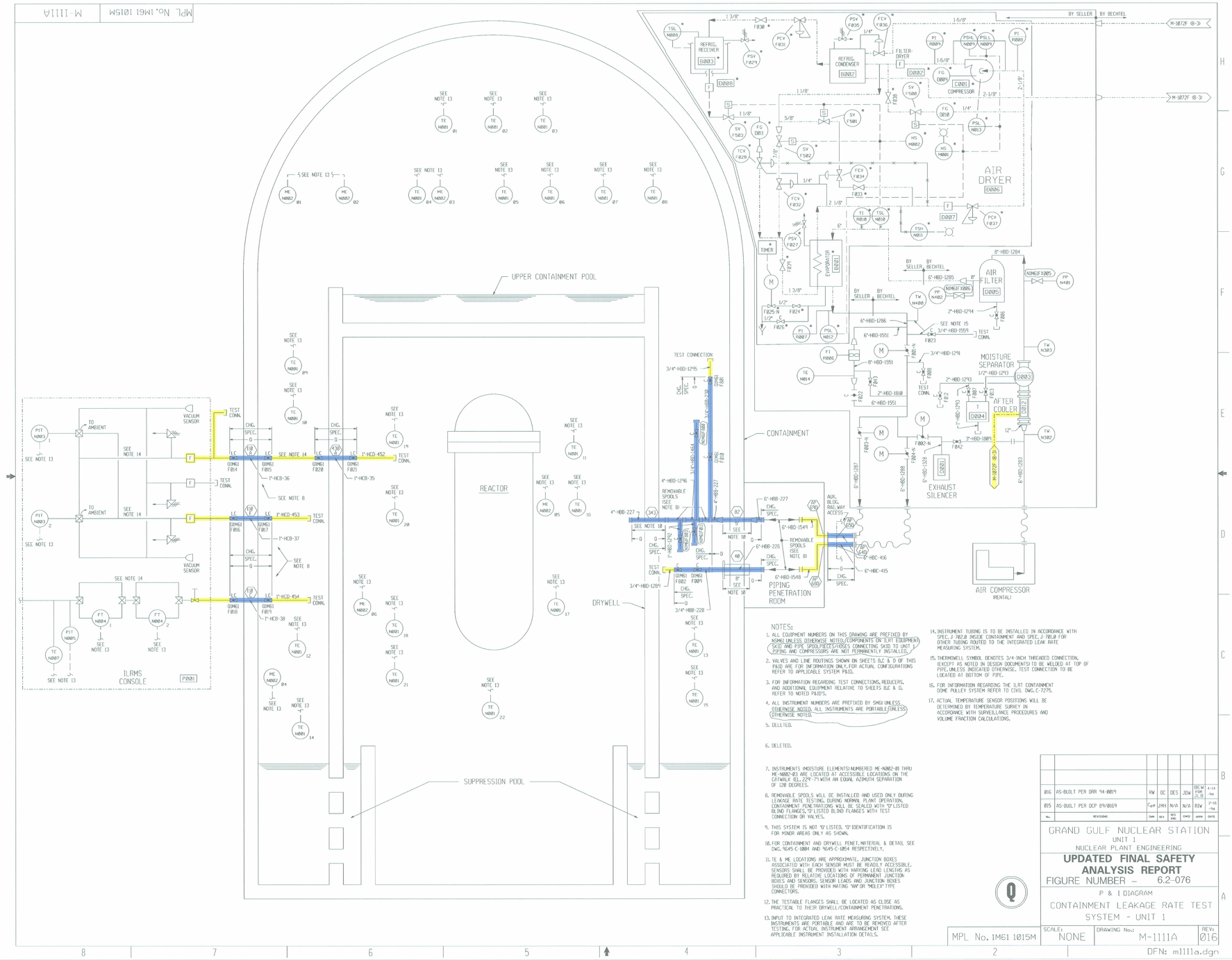
MPL No. 1M61 1015M | M-1111A



NOTES:

1. ALL EQUIPMENT NUMBERS ON THIS DRAWING ARE PREFIXED BY N5M61 UNLESS OTHERWISE NOTED/COMPONENTS ON ILRT EQUIPMENT SKID AND PIPE SPOOLPIECES/PIECES CONNECTING SKID TO UNIT 1 PIPING AND COMPRESSORS ARE NOT PERMANENTLY INSTALLED.
2. VALVES AND LINE ROUTINGS SHOWN ON SHEETS B,C & D OF THIS P&ID ARE FOR INFORMATION ONLY. FOR ACTUAL CONFIGURATIONS REFER TO APPLICABLE SYSTEM P&ID.
3. FOR INFORMATION REGARDING TEST CONNECTIONS, REDUCERS, AND ADDITIONAL EQUIPMENT RELATIVE TO SHEETS B,C & D, REFER TO NOTED P&IDTS.
4. ALL INSTRUMENT NUMBERS ARE PREFIXED BY 5M61 UNLESS OTHERWISE NOTED. ALL INSTRUMENTS ARE PORTABLE UNLESS OTHERWISE NOTED.
5. DELETED.
6. DELETED.
7. INSTRUMENTS (MOISTURE ELEMENTS) NUMBERED ME-N082-01 THRU ME-N082-08 ARE LOCATED AT ACCESSIBLE LOCATIONS ON THE CATWALK (EL. 229'-7") WITH AN EQUAL AZIMUTH SEPARATION OF 120 DEGREES.
8. REMOVABLE SPOOLS WILL BE INSTALLED AND USED ONLY DURING LEAKAGE RATE TESTING. DURING NORMAL PLANT OPERATION, CONTAINMENT PENETRATIONS WILL BE SEALED WITH "S" LISTED BLIND FLANGES. "S" LISTED BLIND FLANGES WITH TEST CONNECTION OR VALVES.
9. THIS SYSTEM IS NOT "D" LISTED. "S" IDENTIFICATION IS FOR MINOR AREAS ONLY AS SHOWN.
10. FOR CONTAINMENT AND DRYWELL PENET. MATERIAL & DETAIL SEE DWG. 1645-C-1004 AND 1645-C-1054 RESPECTIVELY.
11. TE & ME LOCATIONS ARE APPROXIMATE. JUNCTION BOXES ASSOCIATED WITH EACH SENSOR MUST BE READILY ACCESSIBLE. SENSORS SHALL BE PROVIDED WITH VARYING LEAD LENGTHS AS REQUIRED BY RELATIVE LOCATIONS OF PERMANENT JUNCTION BOXES AND SENSORS. SENSOR LEADS AND JUNCTION BOXES SHOULD BE PROVIDED WITH MATING "AMP OR "MOLEX" TYPE CONNECTORS.
12. THE TESTABLE FLANGES SHALL BE LOCATED AS CLOSE AS PRACTICAL TO THEIR DRYWELL/CONTAINMENT PENETRATIONS.
13. INPUT TO INTEGRATED LEAK RATE MEASURING SYSTEM. THESE INSTRUMENTS ARE PORTABLE AND ARE TO BE REMOVED AFTER TESTING. FOR ACTUAL INSTRUMENT ARRANGEMENT SEE APPLICABLE INSTRUMENT INSTALLATION DETAILS.
14. INSTRUMENT TUBING IS TO BE INSTALLED IN ACCORDANCE WITH SPEC. J-7812.8 INSIDE CONTAINMENT AND SPEC. J-7812.0 FOR OTHER TUBING ROUTED TO THE INTEGRATED LEAK RATE MEASURING SYSTEM.
15. THERMOWELL SYMBOL DENOTES 3/4-INCH THREADED CONNECTION, (EXCEPT AS NOTED IN DESIGN DOCUMENTS) TO BE WELDED AT TOP OF PIPE, UNLESS INDICATED OTHERWISE. TEST CONNECTION TO BE LOCATED AT BOTTOM OF PIPE.
16. FOR INFORMATION REGARDING THE ILRT CONTAINMENT DOME PULLEY SYSTEM REFER TO CIVIL DWG. C-7275.
17. ACTUAL TEMPERATURE SENSOR POSITIONS WILL BE DETERMINED BY TEMPERATURE SURVEY IN ACCORDANCE WITH SURVEILLANCE PROCEDURES AND VOLUME FRACTION CALCULATIONS.

NO.	REVISIONS	DWN	HCK	RES ENG	CHKD	APPR	DATE
015	AS-BUILT PER DRR 94-0019	RW	OC	DES	JDW	BEW FOR JLB	4-14-94
015	AS-BUILT PER DCP 89/0169	CWH	JWH	N/A	N/A	RJW	2-16-94

GRAND GULF NUCLEAR STATION
UNIT 1
NUCLEAR PLANT ENGINEERING

UPDATED FINAL SAFETY ANALYSIS REPORT
FIGURE NUMBER – 6.2-076

P & I DIAGRAM
CONTAINMENT LEAKAGE RATE TEST SYSTEM - UNIT 1

MPL No. 1M61 1015M | SCALE: NONE | DRAWING No.: M-1111A | REV: 016

DFN: m1111a.dgn

COMPONENTS SUBJECT TO AMR
- CONTAINMENT PENETRATIONS AMM07
- NON-SAFETY RELATED SYSTEMS & COMPONENTS AFFECTING SAFETY RELATED SYSTEMS AMM20

NO	DATE	DESCRIPTION	BY	ENG	CHK	APP
0	10-13-2011					

REVISIONS
LRA-M-1111A
CAD FILE: m1111a.DGN
RASTER FILE: