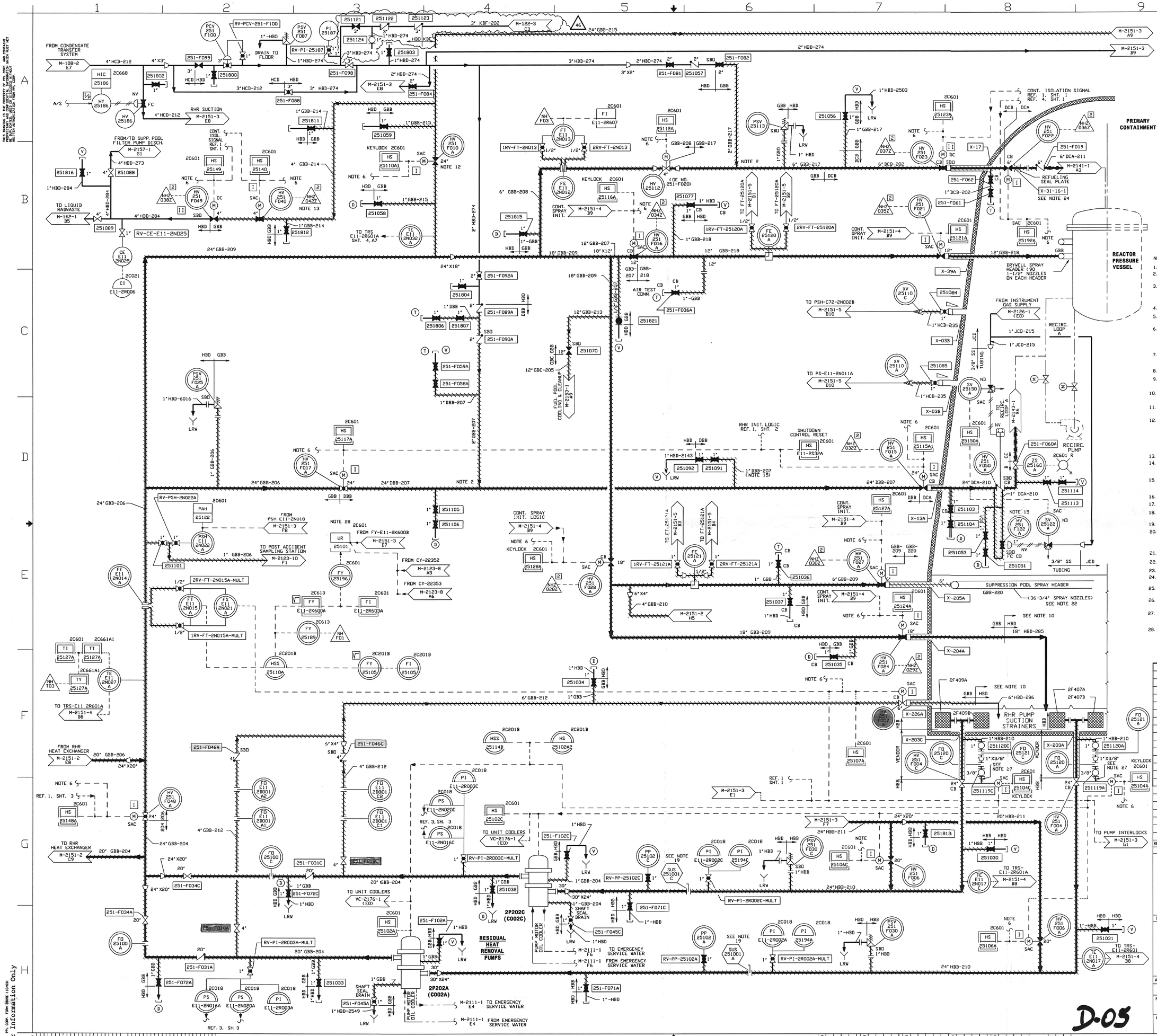


NOTES:

1. THE GE MPL NUMBER FOR THIS SYSTEM IS E11.
2. FILLING LINE FROM CONDENSATE SYSTEM SHOULD BE CONNECTED TO HGH POINT OF DISCHARGE PIPING
3. L. P. C. I. MODE OF OPERATION IS INITIATED BY HIGH DRYWELL PRESSURE(PS-2N011A, B, C, D) CO-INCIDENT WITH LOW REACTOR PRESSURE(PS-2N021A, B, C, D) OR REACTOR LOW LEVEL(LIS-2N031A, B, C, D).
4. L. P. C. I. = LOW PRESSURE COOLANT INJECTION.
5. FOR INTERLOCKING REQUIREMENTS & AUTO VALVE ACTUATION SEE GE FUNCTIONAL CONTROL DIAGRAM REF. 1.
6. TABLE "A", SHT. 3 LIST THE SWITCHES WHICH ARE INVOLVED IN REMOTE SHUTDOWN. ONLY THE CONTROL ROOM SWITCHES ARE SHOWN ON THE DRAWING. REFER TO TABLE "A" FOR REMOTE PANEL SWITCHES AND SELECTOR SWITCHES.
7. M. O. V. TEST FUNCTION IS SHOWN ON ELEMENTARY DIAGRAM REV. 16 SHEET 1 AND FCD TEST SWITCHES MOUNTED ON PANEL 2C601.
8. NOTE REMOVED
9. ALL FLOODING DETECTOR LEVEL SWITCHES ARE SEISMICALLY QUALIFIED.
10. THE PORTION OF THE PIPE DESIGNATED WITH AN ARROW IS SEISMICALLY ANALYSED.
11. ALARMS 25101A, B ARE ENERGIZED BY TE-2N004A, B OR TE-2N005A, B ONLY.
12. VALVES 2F010A AND 2F010B SHALL BE PERMANENTLY CLOSED(POWER DISCONNECTED) UNLESS REACTOR IS IN THE COLD SHUTDOWN CONDITION. HOWEVER, ONE VALVE CAN BE TEMPORARILY ENERGIZED AND OPENED PROVIDED THE OTHER VALVE REMAINS DE-ENERGIZED AND CLOSED FOR PURPOSES OF SYSTEM FLUSHING.
13. NOTE REMOVED.
14. WHERE SLOPE ARE INDICATED FOR G.E. INSTRUMENT LINES A MINIMUM OF 1/2" PER FOOT SHALL BE PROVIDED PER REF. NO. 22.
15. 1"DBB-207 VENT LINE BRANCH OFF AS CLOSE TO HV-2F015A AS PRACTICAL. TWO VENT VALVES AND DRAIN FUNNEL SHOULD BE AS CLOSE AS PRACTICAL.
16. NOTE DELETED.
17. REFER TO J-141 FOR ISOLATION SIGNALS.
18. NOTE REMOVED.
19. SUS REPLACED BY RING SPACERS.
20. THE RHR STEAM CONDENSING MODE HAS BEEN ISOLATED PER DCP86-7034. CONTROL EQUIPMENT HAS BEEN REMOVED FROM THE CONTROL PANEL. PIPING AND INSTRUMENTATION ARE ABANDONED IN THE FIELD.
21. THESE COMPONENTS HAVE BEEN FUNCTIONALLY DISABLED.
22. ONE NOZZLE PLUGGED, REFERENCE NCR 84-450.
23. NOTE REMOVED.
24. SEE DWG. C-290 SH. 1 DETAIL 4 AND SPJBD2099-1 SH. 1 FOR RHR HEAD SPRAY TEST PIPING.
25. PSV VALVE REMOVED AND REPLACED WITH A BLIND FLG. ASSEMBLY, REFERENCE DETAIL "A" ON HBB220-1.
26. PSV VALVE REMOVED AND REPLACED WITH A BLIND FLG. ASSEMBLY, REFERENCE DETAIL "A" ON GBB205-1 AND GBB205-2.
27. VENT LINE FROM VALVE BONNET STUFFING BOX TO PENETRATION. THIS IS CONTAINMENT BOUNDARY PIPING.
28. RECORDER PURCHASED AS "Q" TO RESOLVE AN ELECTRICAL SEPARARTION ISSUE ASSOCIATED WITH THE RECORDER CLASS 1E POWER SOURCE. RECORDER FUNCTION IS NOT SAFETY RELATED. REF. DCP 179480.

| REF NO | AE DRAWING NO. | PPL DRAWING NO. (GE NO) |
|---|---|---|
| 22 | | (22A4019) |
| 21 | M-2152 | E105952 |
| 20 | M-2149 | E105949 |
| 19 | M-2126 | E162798 |
| 18 | M-162 | E106267 |
| 17 | M1-821-98 | |
| 16 | | (791E418AE) |
| 15 | M-2155 | E105955 |
| 14 | M-2150 | E105950 |
| 13 | M-2143 | E105948 |
| 12 | M-2142 | E105942 |
| 11 | M-2123 | E162647 |
| 10 | M-2111 | E161640 |
| 9 | M-108 | E106213 |
| 8 | M-2112 | E162641 |
| 7 | M-2153 | E105953 |
| 6 | M-100 | E106205 |
| 5 | M-2144 | E105944 |
| 4 | | (22A1441AK) |
| 3 | M1-821-92 | (761E279AE) |
| 2 | M1-C72-2 | (729E611AE) |
| 1 | M1-E11-51 | (729E630) |

REFERENCE DRAWINGS

| REV | DESCRIPTION | APPROVED |
|---|---|---|
| 46 | INCORP. IDCN 29, DCP 556789 | DRAWING APPROVAL ATTACHED TO NIMS MEDIA AS 'APPROVAL HISTORY' |

# SUSQUEHANNA S. E. S.
## UNIT 2
## P&ID
## RESIDUAL HEAT REMOVAL

| AREA | N/A | ELEV | N/A | SCALE | NONE |
|---|---|---|---|---|---|

**PPL CORP.**

| PPL DRAWING NO. | SHEET NO. | REV. NO. |
|---|---|---|
| E105951 | 1 OF 5 | 46 |
| AE DRAWING NO. M-2151 | SHEET NO. 1 OF 5 | |

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