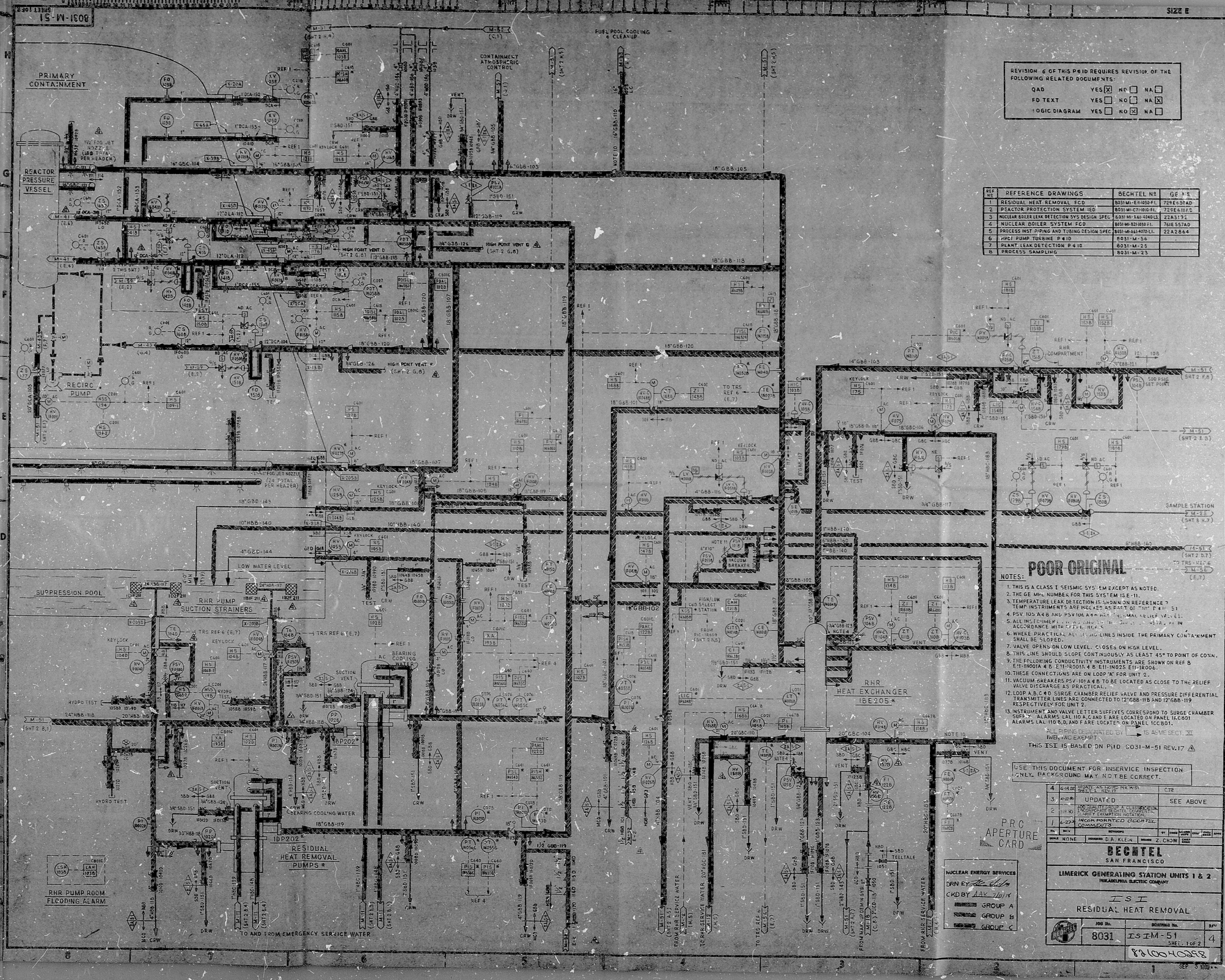
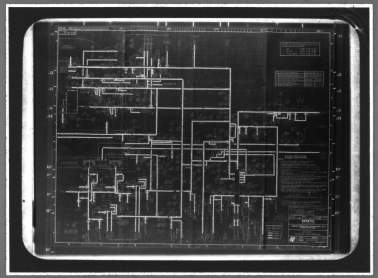

8031-M-51
SHEET 1 OF 2
SIZE E
PRIMARY CONTAINMENT
REACTOR PRESSURE VESSEL
RECIRC PUMP
FUEL POOL COOLING & CLEANUP
CONTAINMENT ATMOSPHERIC CONTROL
HIGH POINT VENT D (SHT 2 G,8)
HIGH POINT VENT E (SHT 2 G,8)
SUPPRESSION POOL
RHR PUMP SUCTION STRAINERS
LOW WATER LEVEL
BEARING COOLING WATER
RHR PUMP ROOM FLOODING ALARM
RESIDUAL HEAT REMOVAL PUMPS
TO AND FROM EMERGENCY SERVICE WATER
RHR HEAT EXCHANGER
RHR COMPARTMENT
SAMPLE STATION
PRC APERTURE CARD
REVISION 6 OF THIS P&ID REQUIRES REVISION OF THE FOLLOWING RELATED DOCUMENTS:
QAD YES [X] NO [ ] NA [ ]
FD TEXT YES [ ] NO [ ] NA [X]
LOGIC DIAGRAM YES [ ] NO [X] NA [ ]
REF NO | REFERENCE DRAWINGS | BECHTEL NO | GE NO
1 | RESIDUAL HEAT REMOVAL FCD | 8031-M1-E11-1030-F1 | 729E630AD
2 | REACTOR PROTECTION SYSTEM IED | 8031-M1-C71-1010-F1 | 729E611AD
3 | NUCLEAR BOILER LEAK DETECTION SYS DESIGN SPEC | 8031-M1-X61-1040-L1 | 22A3194
4 | NUCLEAR BOILER SYSTEM FCD | 8031-M1-B21-1030-F1 | 761E557AD
5 | PROCESS INST PIPING AND TUBING DESIGN SPEC | 8031-M1-X61-1070-L1 | 22A2864
6 | HPCI PUMP TURBINE P&ID | 8031-M-56 | |
7 | PLANT LEAK DETECTION P&ID | 8031-M-25 | |
8 | PROCESS SAMPLING | 8031-M-23 | |
POOR ORIGINAL
NOTES:
1. THIS IS A CLASS I SEISMIC SYSTEM EXCEPT AS NOTED.
2. THE GE MPL NUMBER FOR THIS SYSTEM IS E-11.
3. TEMPERATURE LEAK DETECTION IS SHOWN ON REFERENCE 7. TEMP INSTRUMENTS ARE INDEXED AS PART OF THIS P&ID 51
4. PSV 105 A&B AND PSV 106 A&B ARE MAIN STEAM RELIEF VALVES.
5. ALL INSTRUMENT [illegible] IN ACCORDANCE WITH TYPICAL [illegible]
6. WHERE PRACTICAL ALL [illegible] LINES INSIDE THE PRIMARY CONTAINMENT SHALL BE SLOPED.
7. VALVE OPENS ON LOW LEVEL. CLOSES ON HIGH LEVEL.
8. THIS LINE SHOULD SLOPE CONTINUOUSLY AS LEAST 45° TO POINT OF CONN.
9. THE FOLLOWING CONDUCTIVITY INSTRUMENTS ARE SHOWN ON REF 8 E11-1R001A & B, E11-1R001A & B, E11-1N002S, E11-1R006.
10. THESE CONNECTIONS ARE ON LOOP "A" FOR UNIT 2.
11. VACUUM BREAKERS PSV-101 A & B TO BE LOCATED AS CLOSE TO THE RELIEF VALVE DISCHARGE AS PRACTICAL.
12. LOOP A, B, C & D SURGE CHAMBER RELIEF VALVE AND PRESSURE DIFFERENTIAL TRANSMITTER LINES ARE CONNECTED TO 12"GBB-118 AND 12"GBB-119 RESPECTIVELY FOR UNIT 2.
13. INSTRUMENT AND VALVE LETTER SUFFIXES CORRESPOND TO SURGE CHAMBER SUFFIX. ALARMS LAL 110 A, C AND E ARE LOCATED ON PANEL 1CC601 ALARMS LAL 110 B, D, AND F ARE LOCATED ON PANEL 1CC801.
ALL PIPING DESIGNATED ISI IS ASME SECT. XI
IWB, IWC EXEMPT.
THIS ISI IS BASED ON P&ID 8031-M-51 REV. 17
USE THIS DOCUMENT FOR INSERVICE INSPECTION ONLY. BACKGROUND MAY NOT BE CORRECT.
4 | 6-14-82 | UPDATE AS NOTED PER M-51 SHT 2 | CJR
3 | 10-22-81 | UPDATED | SEE ABOVE
2 | 11-11-80 | ADD QUALITY GROUP & ASME SECTION XI INDICATIONS, REVISE PIPING DESIGNATIONS, SEISMIC EXEMPTION NOTATION.
1 | 6-27-79 | INCORPORATED BECHTEL COMMENTS
NUCLEAR ENERGY SERVICES
DRN BY
CKD BY
GROUP A
GROUP B
GROUP C
SCALE NONE
DESIGNED D.A. KLEIN
DRAWN Z. CHOW
BECHTEL
SAN FRANCISCO
LIMERICK GENERATING STATION UNITS 1 & 2
PHILADELPHIA ELECTRIC COMPANY
ISI
RESIDUAL HEAT REMOVAL
JOB No. 8031
DRAWING No. ISIM-51
SHEET 1 OF 2
REV 4
8310040858
SEP 8 1983

RIDS

8210040298



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