



NO.	REFERENCE DRAWING	REVISION	DATE
1	REACTOR PROTECTION SYSTEM	NI-C7-100-1	7/26/61
2	CONTROL ROD DRIVE P.C.D.	NI-C11-100-2	7/26/61
3	REACTOR PROTECTION SYSTEM	NI-C7-100-1	7/26/61
4	HYDRAULIC CONTROL UNIT	NI-C11-100-2	7/26/61
5	SCRAM P.C.D.	NI-C7-100-2	9/8/61
6	REACTOR MAN CONTROL ELEMENTARY	NI-C11-100-3	7/26/61
7	LOGIC DIAG. CRD HYDRAULIC	J-47-D	-
8	SCRAM DISCHARGE VOLUME PIPING	NI-C11-100-3	9/8/61

- NOTES:**
1. THE CE INCL. NUMBER FOR THIS SYSTEM IS CE
 2. ALL HIGH POINTS SHALL BE LOCATED OUTSIDE THE PRIMARY CONTAINMENT.
 3. PIPING AND VALVES BY OTHERS WILL BE PURCHASED BY THE BEST CONTRACTOR PIPING VALVES & INSTRUMENTATION BY OTHERS WILL ALSO BE SPECIFIED BY THE BEST CONTRACTOR. MITOSER, SOFTLENSERS, REGULATORS AND ASSOCIATED SMALL PIPES TO BE SUPPLIED BY BECHTEL.
 4. NUMBER DRAWN REFLECTS ASSIGNED NUMBER FOR EACH HEAD.
 5. BLOCK TYPE NEEDLE VALVE (ANGLE PATERN).
 6. EACH HCU IS IDENTIFIED BY THE APPROPRIATE CONTROL ROD WHICH HAS BEEN ASSIGNED A COORDINATE NUMBER THAT DEFINES THE LOCATION OF THE ROD WITHIN THE CORE. ALL COORDINATE NUMBER CONSIST OF FOUR DIGITS: TWO FOR ROW AND TWO FOR COLUMN. ROWS ARE ASSIGNED ODD NUMBERS AND COLUMNS ASSIGNED EVEN NUMBERS.
 7. THIS PIPING IS PURCHASED BY GE. IDENTIFICATION OF PIPING IS PROVIDED FOR INFORMATION ONLY.
 8. VACUUM BREAKER TO BE AT HIGH POINT OF VENT LINE.
 9. DELETED
 10. EQUIPMENT ON THIS P&ID IDENTIFIED WITH AN # 15 G.E. SYMBOL EXCEPT FOR 25, 0PT OF INSTR. VAL. INSTR. LINES WHICH ARE SUPPLIED BY H-27.
 11. DRYWELL PENETRATIONS ARE 1" SCH. 80 PIPE.
 12. PART OF ROD STATUS DISPLAY.
 13. ALARM BY COMPUTER REQUIRED.
 14. POWER TO SOLENOIDS BY GROUP 1, 2, 3 & 4 ARE RPS POWER DIVISIONS W, X, Y & Z RESPECTIVELY. SEE ELEMENTARY DIAGRAM, REF. 3 FOR LOGIC CHANNELS.
 15. DELETED
 16. TE & ZS ARE INTEGRAL PARTS OF CRD UNIT & THE COORDINATES FOR THE CRD LOCATION WILL BE USED AS TE ZS INSTRUMENT NUMBER.
 17. CRD INSERT & WITHDRAWAL PIPING WILL BE SCHEDULE 80S.
 18. THIS P&ID CONTAINS PORTIONS OF SYSTEM BY CONTROL ROD DRIVE HYDRAULIC SUPPLY.

PRO APERTURE CARD
P APERTURE CARD

NO.	REVISION	DATE	BY	CHKD.
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BECHTEL
SAN FRANCISCO
SULLY BROS. ELECTRIC AND GAS COMPANY
HOPE CREEK GENERATOR STATION
P. & I. D.
CONTROL ROD DRIVE
HYDRAULIC - PART B
NOV 56 M-47-1 5 Q

RIDS

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