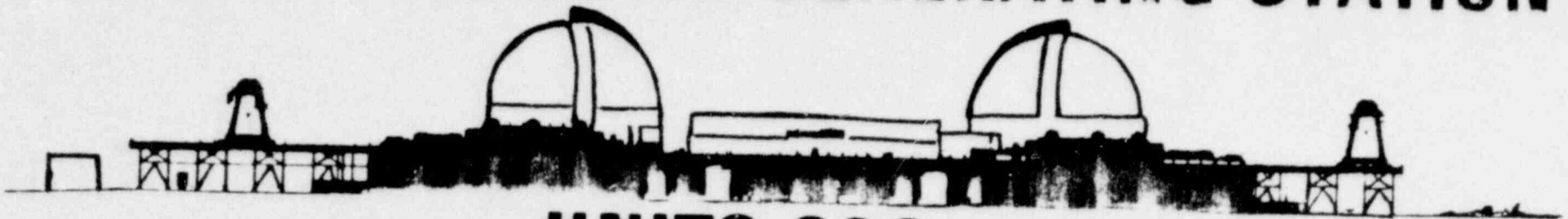


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SAN ONOFRE NUCLEAR GENERATING STATION



UNITS 2&3

UNIT 2 - CONTAINMENT SAFE
SHUTDOWN CIRCUIT ROUTING

DATE 11-26-80

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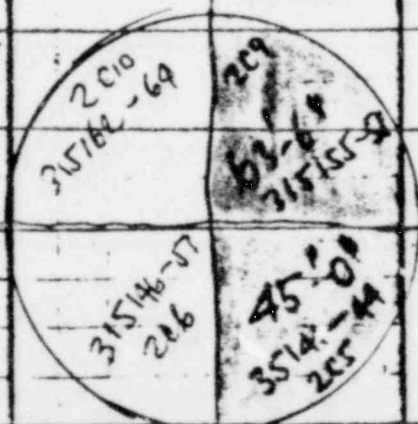


SIGNATURE J.M. DATE 11/26/80 CHECKED GA DATE 12/2/80

PROJECT SONGS 2#3 JOB NO. _____

SUBJECT CONTAINMENT SAFE SHUT DOWN CIRCUITS SHEET 1 OF 5 SHEETS

CIRCUIT NUMBER	SERVICE	ROUTE		SYSTEM	
		FROM	TO		
2A-R-L121-18 (1-1)	PRESSURIZER E087 PRESSURE TRANSM SIGNAL	2A-C3-J-P10	2A-B3-R- PT0102-1	REACTOR COOLANT SYSTEM 1201	30'-0" SE
2A-R-L121-1C (1-2)	LOOP 1 HOT LEG TEMPER ELEMENT SIGNAL	2A-C3-J-P10	2A-B3-R- TE0112-1		30'-0" SW
2A-R-L121-04 (1-3)	LOOP 1A COLD LEG TEMP ELEMENT SIGNAL	2A-C3-J-P10	2A-B3-R- TE9178-1		30'-0" SE
2A-R-L121-08 (1-4)	LOOP 2 HOT LEG TEMPER ELEMENT SIGNAL	2A-C3-J-P10	2A-B3-R TEC122-1		30'-0" NW
2A-R-L121-02 (1-5)	LOOP 2A COLD LEG TEMP ELEMENT SIGNAL	2A-C3-J-P10	2A-B3-R TE9179-1		30'-0" NW
2A-R-L124-09 (1-6)	PRESSURIZER E087 LEVEL TRANSM SIGNAL	2A-C3-J-P10	2A-B3-R- LT-0110-1		30'-0" SE
2A-R-L121-23 (1-9)	STEAM GENERATOR 1 E089 PRESSURE TRANSM SIGNAL	2A-C3-J-P10	2A-B4-S- PT1013-1	MAIN STEAM SYSTEM 1301	45'-0" SW
2A-R-L121-50 (1-10)	STEAM GENERATOR E088 LEVEL TRANSMITTER SIGNAL	2A-C3-J-P10	2A-B4-R- LT.1123-1		45'-0" NE
2A-R-L121-32 (1-11)	STEAM GENERATOR E089 LEVEL TRANSM SIGNAL	2A-C3-J-P10	2A-B4-R LT 1113		45'-0" SW
2A-R-L121-28 (1-12)	STEAM GENERATOR 2 E089 PRESSURE TRANSM SIGNAL	2A-C3-J-P10	2A-B4-S PT 1023-1		45'-0" NE
NW		PENETR - 45'-0" SW	PENETR.		FANS
SEQUENCE SW-NW- SE-NE					
2					





SIGNATURE J.M. DATE 11/26/80 CHECKED _____ DATE _____
 PROJECT SONGS 2 & 3 JOB NO. _____
 SUBJECT CONTAINMENT SAFE SHUT DOWN CIRCUITS SHEET 4 OF 5 SHEETS

CIRCUIT NUMBER	SERVICE	ROUTE		SYSTEM	
		FROM	TO		
28-R-428-04 (2-1)	PRESSURIZER E087 LEVEL TRANSM. SIGNAL	28-441-P89	28-B3-R LT-0110-2	REACTOR COOLANT SYSTEM 1201	30'-0" SE
28-R-425-24 (2-2)	STEAM GENERATOR E088 PRESS TRANSM SIGNAL		28-B4-S PT-1023-2	MAIN STEAM SYSTEM 1301	45'-0" NW
28-R-425-80 (2-3)	STEAM GENERATOR E088 LEVEL TRANSM SIGNAL		28-B4-S LT-1123-2		45'-0" NW
28-R-425-32 (2-4)	STEAM GENERATOR E089 LEVEL TRANSM SIGNAL		28-B4-S LT-1113-2		45'-0" SE
28-R-425-22 (2-5)	STEAM GENERATOR E089 PRESS TRANSM SIGNAL		28-B4-S PT-1013-2		45'-0" SE
28-R-425-02 (2-6)	LOOP 1B COLD LEG TEMP ELEM SIGNAL		28-B3-R TE-9178-2	REACTOR COOLANT SYSTEM 1201	30'-0" SW
28-R-425-08 (2-7)	LOOP 1 HOT LEG TEMP ELEM SIGNAL		28-B3-R TE-0112-2		30'-0" SW
28-R-425-10 (2-8)	LOOP 2 HOT LEG TEMP. ELEM. SIGNAL		28-B3-R TE-0122-2		30'-0" NW
28-R-425-04 (2-9)	LOOP 2B COLD LEG TEMPER ELEM. SIGNAL		28-B3-R TE-9179-2		30'-0" NW
28-R-425-17 (2-10)	PRESSURIZER E087 PRESS TRANSM. SIGNAL		28-B3-R PT-0102-2		30'-0" SE
		63'-6" SE			
<p style="text-align: center;">STEAM GENERATOR REACTOR COOLANT PRESSURIZER</p>					

SIGNATURE J.M. DATE 11/26/80 CHECKED _____ DATE _____

PROJECT SONGS 2#3 JOB NO. _____

SUBJECT CONTAINMENT SAFE SHUT DOWN CIRCUITS SHEET 3 OF 5 SHEETS

CIRCUIT NUMBER	SERVICE	ROUTE		SYSTEM	
		FROM	TO		
2C-R-L129-08 (1-22)	LOOP 1 - HOT LEG TEMPER ELEM SIGNAL	2C-CA-1-P54	2C-B3-R TE 0112-3	REACTOR COOLANT SYSTEM 1201	30'-0" SE
2C-R-L129-02 (1-23)	LOOP 1A - COLD LEG TEMPER ELEMENT SIG	↓	2C-B3-R TE 9178-3		30'-0" SE
2C-R-L129-10 (1-24)	LOOP 2 - HOT LEG TEMPER. ELEM SIGNAL	↓	2C-B3-R TE 0122-3		30'-0" NW
2C-R-L129-04 (1-25)	LOOP 2A - COLD LEG TEMPER ELEMENT SIG	↓	2C-B3-R TE 9179-3		30'-0" NW
2C-R-L129-18 (1-26)	PRESSURIZER E087 PRESS TRANSM SIGNAL	↓	2C-B3-R PT-0102-3		30'-0" SE
2C-R-L129-23 (1-27)	STEAM GENER E089 - PRESSURE TRANSM. SIGNAL	↓	2C-B4-S PT-1013-3	MAIN STEAM #1301	45'-0" SE
2C-R-L129-36 (1-28)	STEAM GENER E089 - LEVEL TRANSM. SIGNAL	↓	2C-B4-S LT-1113-3		45'-0" SE
2C-R-L129-34 (1-29)	STEAM GENER E088 LEVEL TRANSM SIGNAL	↓	2C-B4-S LT-1123-3	35163	45'-0" NE
2C-R-L129-25 (1-30)	STEAM GENER E088 PRESSURE TRANSM SIGNAL	↓	2C-B4-S PT-10233	↓ ↓	45'-0" NE
		63'6" SW			
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SIGNATURE J.M. DATE 11/26/80 CHECKED _____ DATE _____

PROJECT SONGS 2#3 JOB NO. _____

SUBJECT CONTAINMENT SAFE SHUT DOWN CIRCUITS SHEET 2 OF 5 SHEETS

CIRCUIT NUMBER	SERVICE	ROUTE		SYSTEM	
		FROM	TO		
2D-R-L133-18 (1-13)	PRESSURIZER E087 PRESSURE TRANSM SIGNAL	2D C31-P46	2D B3-R- PT0102-4	REACTOR COOLANT SYSTEM 1201	30'-0" SE
2D-R-L133-02 (1-14)	LOOP 1B COLD LEG TEMPER ELEM SIGNAL	2D C31-P46	2D-B3-R- TE 9178-4		30'-0" SW
2D-R-L133-08 (1-15)	LOOP 1- HOT LEG TEMPER ELEM SIG.	↓	2D-B3-R- TE 0112-4		30'-0" SE
2D-R-L133-10 (1-16)	LOOP 2- HOT LEG TEMPER. ELEM SIG.	↓	2D-B3-R TE 0122-4		30'-0" NW
2D-R-L133-04 (1-17)	LOOP 2B COLD LEG TEMPER ELEM SIGNAL	↓	2D-B3-R TE 9179-4		30'-0" NE
2D-R-L133-36 (1-18)	STEAM GENERATOR E089 LEVEL TRANSM SIGNAL	↓	2D B4-S LT-1113-4	MAIN STEAM SYSTEM # 1301	45'-0" SE
2D-R-L133-25 (1-19)	STEAM GENERATOR E089 PRESS TRANSM SIGNAL	↓	2D B4-S PT-1013-4		45'-0" SE
2D-R-L133-34 (1-20)	STEAM GENERATOR E088 LEVEL TRANSM. SIGNAL	↓	2D B4-S LT-1123-4		45'-0" NW
2D-R-L133-23 (1-21)	STEAM GENERATOR E088 PRESS TRANSM SIGNAL	↓	2D B4-S PT 1023-4		45'-0" NW
					45'-0" SE
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 PROJECT SONGS 2#3 JOB NO. _____
 SUBJECT CONTAINMENT SAFE SHUT DOWN CIRCUITS SHEET 5 OF 5 SHEETS

CIRCUIT NUMBER	SERVICE	ROUTE		SYSTEM	LOCATION
		FROM	TO		
3 (E-1)	POWER FEED EMERG FAN E-399	2A-3-B-P11	2A-B5-B-E-399	HVAC CONTAINMENT	63'-6" SW
5 (E-2)	POWER FEED EMERG FAN E-401	2A-3-B-P09	2A-B5-B-E-401	↓	63'-6" NW
7 (E-3)	POWER FEED EMERG FAN E-400	2B-4-B-P84	2B-B5-B-E-400		63'-6" SE
9 (E-4)	POWER FEED EMERG FAN E-402	2E-4-B-P93	2B-B5-B-E-402		63'-6" NE
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