



Southern California Edison Company

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November 27, 1995

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U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D.C. 20555

Subject: Docket No. 50-362
Special Report, Steam Generator Tubes Inservice Inspection
San Onofre Nuclear Generating Station, Unit 3

Reference: PWR Steam Generator Examination Guidelines, Revision 3,
Electric Power Research Institute (EPRI) Report
Number NP-6201, dated November 1992.

Pursuant to Surveillance Requirement 4.4.4.5(b) of Appendix A, Technical Specifications to Facility Operating License NPF-15, this report is being submitted to the Commission following the completion of an inservice inspection of steam generator tubes at San Onofre Unit 3.

Eddy current inspection of the steam generator tubing was completed on August 17, 1995. A total of 18,086 tubes (100% of the tubes in service) in two steam generators were inspected full length and 31 tubes were removed from service by mechanical plugging. This inspection significantly exceeded the inspection requirements of Surveillance Requirements 4.4.4.0 through 4.4.4.2.

The planned inspection programs for both steam generators were fully consistent with industry recommendations in the "PWR Steam Generator Examination Guidelines". The programs included inspection of the full length of all tubes with the bobbin probe, and inspection of all tubes with a rotating probe at the inlet top-of-tubesheet location. Further, they included inspection of 20% of the tubing with a rotating probe at the outlet top-of-tubesheet location, and full length profilometry of all tubes adjacent to tie rods.

In Steam Generator E-088, 9047 tubes were inspected full length. Fourteen tubes were preventively plugged due to degradation at a vertical strap support. Two tubes were preventively plugged due to degradation at an eggcrate support. One tube was found to exhibit distortion of the eddy current signal at the tube expansion transition at the inlet top-of-tubesheet location and was preventively plugged.

One tube in E-088 had a non-quantifiable indication by bobbin probe at the diagonal support on the inlet side of the tube, and was plugged. Rotating probe testing of the indication in this tube indicated volumetric (i.e., no specific axial or circumferential aspect) degradation.

030001

9512060146 951127
PDR ADDCK 05000362
PDR

A047

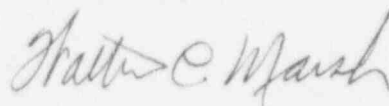
Also in E-088, two tubes had a non-quantifiable indication, and one tube had a less than 20% indication, by bobbin probe, in the vicinity of or between the ninth eggcrate support and the diagonal support on the inlet side of the tube. In subsequent testing of these tubes and surrounding tubes, by a rotating probe, two additional tubes with a similar single volumetric indication at a similar location were identified. All five of these tubes were plugged.

In Steam Generator E-089, 9039 tubes were inspected full length. One tube was found by a rotating probe to have a circumferential indication at the inlet top-of-tubesheet location and was plugged. One tube was found to be defective due to a 49% throughwall indication above the lowest eggcrate support on the outlet side of the tube, and was plugged. One tube was found to be defective due to a 44% throughwall indication at a diagonal support on the inlet side of the tube, and was plugged. Two tubes were found by rotating probe to have a single volumetric indication at the outlet top-of-tubesheet and were plugged. Three tubes were preventively plugged due to degradation at a vertical strap support.

As required by Surveillance Requirement 4.4.4.5(b), complete results of the recently completed inservice inspection of steam generator tubing are provided in the enclosures. Enclosure 1 provides the steam generator internal location reference guide. The eddy current indication locations listed in the remaining enclosures are based upon this guide. Enclosure 2 provides a list of abbreviations used to describe the indications from rotating probe testing in the remaining enclosures. Enclosures 3 and 5 provide a list of eddy current testing indications, including tube identification, indication depth for bobbin probe indications, indication description for rotating probe indications, and the axial location of the indication in the tube. Enclosures 4 and 6 provide a list of tubes plugged after completion of the inservice inspection.

If you require any additional information, please so advise.

Sincerely,



Enclosures (6)

cc: L. J. Callan, Regional Administrator, NRC Region IV
J. E. Dyer, Director, Division of Reactor Projects, NRC Region IV
K. E. Perkins, Jr., Director, Walnut Creek Field Office, NRC Region IV
J. A. Sloan, NRC Senior Resident, San Onofre Units 1, 2 & 3
M. B. Fields, NRC Project Manager, San Onofre Units 2 and 3
Institute of Nuclear Power Operations (INPO)

Enclosure 1

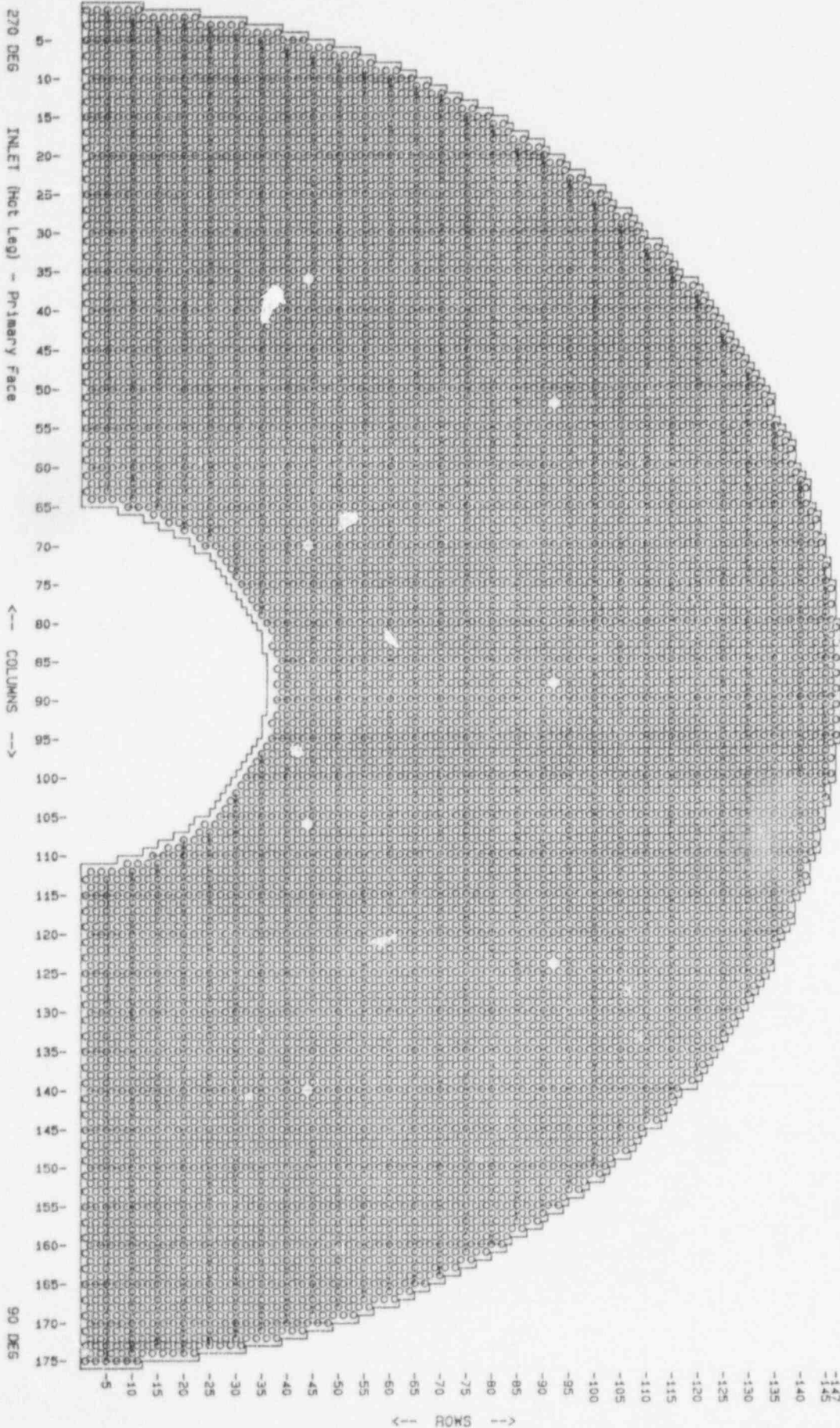
CLARIFICATION OF TUBING/SUPPORT INTERFACES

ABOVE THE 7TH FULL EGGCRATE SUPPORT

<u>ROW(S)</u>	<u>TUBING/SUPPORT INTERFACES</u>					
120-147	08H,09H,10H, DBH, VH1, VH2, VH3, VSM, VC3, VC2, VC1, DBC, 10C, 09C, 08C					
115-119	08H,09H DBH, VH1, VH2, VH3, VSM, VC3, VC2, VC1, DBC 09C, 08C					
84-114	08H,09H DBH VH2, VH3, VSM, VC3, VC2 DBC 09C, 08C					
83	08H DBH VH2, VH3, VSM, VC3, VC2 DBC 08C					
51-82	08H DBH VH3, VSM, VC3, DBC 08C					
49-50	08H DBH VSM DBC 08C					
19-48	DBH VSM DBC					
1-18	DBH DBC					

COMBUSTION ENGINEERING MODEL 3410 STEAM GENERATOR TUBESHEET MAP

TOTAL TUBES : 9350



270 DEG INLET (Hot Leg) - Primary Face

<--- COLUMNNS --->

90 DEG

↑ ROWS ↓

-5
-10
-15
-20
-25
-30
-35
-40
-45
-50
-55
-60
-65
-70
-75
-80
-85
-90
-95
-100
-105
-110
-115
-120
-125
-130
-135
-140
-145
-147

Enclosure 2

LIST OF ABBREVIATIONS USED TO DESCRIBE THE INDICATIONS
FROM ROTATING PROBE TESTING

<u>Abbreviation</u>	<u>Explanation of the Abbreviation</u>
SCI	Single Circumferential Indication
MCI	Multiple Circumferential Indications
SAI	Single Axial Indication
MAI	Multiple Axial Indications
SVI	Single Volumetric Indication (i.e., no specific axial or circumferential aspect)

ENCLOSURE (3)
 CUMULATIVE REPORT

07/95, SOUTHERN CALIFORNIA EDISON, SAN ONOFRE, UNIT 3

STEAM GENERATOR : 88
 OUTAGE DATA SET : CURRENT
 SELECTION VARIABLES: Percent

PAGE: 1 OF 5
 DATE: 08/25/95
 TIME: 08:32:31

ROW	COL	EXAM DATE	HEAT#	LEG	EXAM EXTENT PROGRAM	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
43	5	07/95		C	TEC-TEH	TEC-TEH		00034	580UL	04C-	0.14	0.23	0	<20	P	2
37	7	07/95		C	TEC-TEH	TEC-TEH		00034	580UL	05H+	3.40	0.70	154	<20		1
78	26	07/95		C	TEC-TEH	TEC-TEH		00057	580UL	VC3+	1.02	0.53	0	28	P	2
86	28	07/95		C	TEC-TEH	TEC-TEH		00057	580UL	VSM-	1.17	0.19	0	<20	P	2
89	29	07/95		C	TEC-TEH	TEC-TEH		00078	580UL	VH2+	0.30	0.43	0	20	P	2
80	30	07/95		C	TEC-TEH	TEC-TEH		00056	580UL	TSC+	2.15	0.43	155	<20		1
102	30	07/95		C	TEC-TEH	TEC-TEH		00078	580UL	08C-	0.97	0.48	0	21	P	2
104	30	07/95		C	TEC-TEH	TEC-TEH		00056	580UL	VH2-	0.71	0.67	0	25	P	2
		07/95		H	TEH-TEC	TEH-TEC		00114	580UL	VH2+	0.41	0.77	0	34	P	2
		07/95		C	TEC-TEH	TEC-TEH		00056	580UL	VC2+	0.86	0.25	0	<20	P	2
75	31	07/95		C	TEC-TEH	TEC-TEH		00078	580UL	VH3+	0.89	0.30	0	<20	P	2
76	34	07/95		C	TEC-TEH	TEC-TEH		00058	580UL	VH3+	0.82	0.46	0	23	P	2
114	34	07/95		C	TEC-TEH	TEC-TEH		00058	580UL	DBC-	1.83	0.49	0	22	P	2
97	35	07/95		C	TEC-TEH	TEC-TEH		00059	580UL	01H+	12.14	0.95	153	<20		1
82	36	07/95		C	TEC-TEH	TEC-TEH		00059	580UL	VH3-	0.12	0.46	0	26	P	2
112	38	07/95		C	TEC-TEH	TEC-TEH		00078	580UL	VC2-	0.24	0.61	0	26	P	2
81	43	07/95		C	TEC-TEH	TEC-TEH		00058	580UL	VH3-	0.63	0.54	0	24	P	2
60	44	07/95		C	TEC-TEH	TEC-TEH		00042	580UL	VC3+	1.25	0.26	0	<20	P	2
27	45	07/95		C	TEC-TEH	TEC-TEH		00051	580UL	02H+	25.36	1.01	158	<20		1
49	45	07/95		C	TEC-TEH	TEC-TEH		00042	580UL	08H+	1.56	0.44	0	<20	P	2
86	46	07/95		C	TEC-TEH	TEC-TEH		00061	580UL	08H+	2.43	0.38	0	24	P	2
71	47	07/95		C	TEC-TEH	TEC-TEH		00054	580UL	VSM-	0.93	0.52	0	25	P	2
89	47	07/95		C	TEC-TEH	TEC-TEH		00060	580UL	VSM+	0.98	0.16	0	<20	P	2
76	48	07/95		C	TEC-TEH	TEC-TEH		00060	580UL	VSM-	0.81	0.34	0	21	P	2
		07/95		C	TEC-TEH	TEC-TEH		00060	580UL	VSM+	0.93	0.34	0	21	P	2
		07/95		C	TEC-TEH	TEC-TEH		00060	580UL	VC3+	1.02	0.20	0	<20	P	2
94	48	07/95		C	TEC-TEH	TEC-TEH		00061	580UL	VH2+	0.83	0.45	0	27	P	2
98	48	07/95		C	TEC-TEH	TEC-TEH		00061	580UL	VC2+	0.76	0.26	0	<20	P	2
113	49	07/95		C	TEC-TEH	TEC-TEH		00060	580UL	DBH+	1.78	0.31	0	<20	P	2
106	50	07/95		C	TEC-TEH	TEC-TEH		00061	580UL	VH2+	0.80	0.39	0	24	P	2
		07/95		C	TEC-TEH	TEC-TEH		00061	580UL	VH3+	0.80	0.20	0	<20	P	2
131	51	07/95		C	TEC-TEH	TEC-TEH		00073	580UL	DBC+	1.85	0.45	0	25	P	2
126	52	07/95		C	TEC-TEH	TEC-TEH		00072	580UL	VH1+	1.12	0.15	0	<20	P	2
126	54	07/95		C	TEC-TEH	TEC-TEH		00072	580UL	VH1-	0.85	0.36	0	<20	P	2
128	56	07/95		H	TEH-TEC	TEH-TEC		00114	580UL	VH1+	0.75	0.66	0	32	P	2
112	58	07/95		C	TEC-TEH	TEC-TEH		00062	580UL	VH2-	0.72	0.35	0	<20	P	2
		07/95		C	TEC-TEH	TEC-TEH		00062	580UL	VH2+	0.96	0.36	0	<20	P	2
		07/95		C	TEC-TEH	TEC-TEH		00062	580UL	VH3+	0.96	0.41	0	<20	P	2
126	58	07/95		C	TEC-TEH	TEC-TEH		00072	580UL	VH1-	0.91	0.58	0	24	P	2
25	59	07/95		C	TEC-TEH	TEC-TEH		00051	580UL	TSH+	9.93	0.36	149	<20		1
73	61	07/95		C	TEC-TEH	TEC-TEH		00063	580UL	VSM+	1.06	0.28	0	<20	P	2
137	61	07/95		C	TEC-TEH	TEC-TEH		00072	580UL	VC1-	0.73	0.48	0	21	P	2
140	62	07/95		C	TEC-TEH	TEC-TEH		00072	580UL	09H+	0.84	0.29	0	<20	P	2
81	65	07/95		C	TEC-TEH	TEC-TEH		00062	580UL	VSM+	0.94	0.51	0	24	P	2
141	65	07/95		C	TEC-TEH	TEC-TEH		00074	580UL	DBC+	1.90	0.49	0	<20	P	2

CUMULATIVE REPORT
07/95, SOUTHERN CALIFORNIA EDISON, SAN ONOFRE, UNIT 3

STEAM GENERATOR : 88
OUTAGE DATA SET : CURRENT
SELECTION VARIABLES: Percent

PAGE: 2 OF 5
DATE: 08/25/95
TIME: 08:32:31

ROW	COL	EXAM DATE	HEAT#	LEG	EXAM EXTENT PROGRAM	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
118	66	07/95		C	TEC-TEH	TEC-TEH		00063	580UL	06H+	3.03	1.18		149	<20	1
126	66	07/95		C	TEC-TEH	TEC-TEH		00074	580UL	VH1-	0.76	0.37		0	<20	P 2
142	66	07/95		C	TEC-TEH	TEC-TEH		00074	580UL	DBH+	1.95	0.40		0	<20	P 2
		07/95		C	TEC-TEH	TEC-TEH		00074	580UL	VH1+	0.90	0.43		0	<20	P 2
		07/95		C	TEC-TEH	TEC-TEH		00074	580UL	DBC+	1.91	0.45		0	<20	P 2
97	67	07/95		C	TEC-TEH	TEC-TEH		00063	580UL	09H+	0.98	0.72		0	33	P 2
141	67	07/95		C	TEC-TEH	TEC-TEH		00074	580UL	DBH-	0.91	0.25		0	<20	P 2
82	68	07/95		C	TEC-TEH	TEC-TEH		00065	580UL	VH3-	1.00	0.14		0	<20	P 2
110	68	07/95		C	TEC-TEH	TEC-TEH		00065	580UL	VH2-	0.81	0.21		0	<20	P 2
43	69	07/95		C	TEC-TEH	TEC-TEH		00054	580UL	VSM-	0.84	0.24		0	<20	P 2
81	69	07/95		C	TEC-TEH	TEC-TEH		00064	580UL	VC3+	0.73	0.50		0	20	P 2
91	69	07/95		C	TEC-TEH	TEC-TEH		00065	580UL	08H+	0.77	0.21		0	<20	P 2
103	69	07/95		H	09H-DBH	DBH-DBH		00127	600PP	DBH+	1.53	0.18		0	SV1	5
		07/95		C	TEC-TEH	TEC-TEH		00065	580UL	DBH+	1.56	0.21		0	<20	P 2
		07/95		H	09H-DBH	09H-DBH		00122	600RC	DBH+	1.86	0.67		0	SV1	4
100	70	07/95		H	09H-09H	09H-09H		00118	600RC	09H+	15.93	0.7		0	SV1	4
102	70	07/95		H	09H-DBH	09H-DBH		00122	600RC	09H+	15.30	0.87		0	SV1	4
104	70	07/95		C	TEC-TEH	TEC-TEH		00064	580UL	VC3-	0.96	0.59		0	23	P 2
142	70	07/95		C	TEC-TEH	TEC-TEH		00074	580UL	DBC+	2.08	0.42		0	<20	P 2
144	70	07/95		C	TEC-TEH	TEC-TEH		00074	580UL	DBC+	2.01	0.63		0	20	P 2
77	71	07/95		C	TEC-TEH	TEC-TEH		00064	580UL	VH3+	0.80	0.59		0	23	P 2
105	71	07/95		H	09H-DBH	09H-DBH		00122	600RC	DBH+	2.14	0.60		0	SV1	4
44	72	07/95		C	TEC-TEH	TEC-TEH		00054	580UL	VSM-	0.93	0.32		0	<20	P 2
138	72	07/95		C	TEC-TEH	TEC-TEH		00074	580UL	02C-	0.80	0.59		0	<20	P 2
144	72	07/95		C	TEC-TEH	TEC-TEH		00074	580UL	VH2-	0.90	0.25		0	<20	P 2
37	73	07/95		H	TEH-TEC	TEH-TEC		00114	580UL	VSM+	0.61	0.73		0	33	P 2
39	73	07/95		C	TEC-TEH	TEC-TEH		00052	580UL	VSM+	1.04	0.29		0	<20	P 2
81	73	07/95		C	TEC-TEH	TEC-TEH		00064	580UL	VSM-	0.90	0.42		0	<20	P 2
97	73	07/95		C	TEC-TEH	TEC-TEH		00064	580UL	08H+	0.69	0.42		0	<20	P 2
99	73	07/95		C	TEC-TEH	TEC-TEH		00065	580UL	09H+	0.83	0.47		0	26	P 2
		07/95		H	09H-09H	09H-DBH		00118	600RC	09H+	12.17	0.39		0	SV1	1
94	74	07/95		C	TEC-TEH	TEC-TEH		00067	580UL	09H-	0.37	0.26		0	<20	P 2
130	74	07/95		C	TEC-TEH	TEC-TEH		00074	580UL	VH1-	0.94	0.17		0	<20	P 2
132	74	07/95		C	TEC-TEH	TEC-TEH		00075	580UL	VH1-	0.91	0.32		0	20	P 2
138	74	07/95		C	TEC-TEH	TEC-TEH		00074	580UL	VH1-	0.91	0.74		0	23	P 2
39	75	07/95		C	TEC-TEH	TEC-TEH		00052	580UL	VSM+	1.04	0.32		0	<20	P 2
75	75	07/95		C	TEC-TEH	TEC-TEH		00067	580UL	VSM-	0.86	0.23		0	<20	P 2
93	75	07/95		C	TEC-TEH	TEC-TEH		00066	580UL	09H-	0.26	0.25		0	<20	P 2
95	75	07/95		C	TEC-TEH	TEC-TEH		00067	580UL	09H+	0.62	0.29		0	<20	P 2
138	76	07/95		C	TEC-TEH	TEC-TEH		00074	580UL	VH1-	0.23	0.24		0	<20	P 2
144	76	07/95		C	TEC-TEH	TEC-TEH		00074	580UL	04H-	1.00	0.40		0	<20	P 2
146	76	07/95		C	TEC-TEH	TEC-TEH		00074	580UL	DBH+	1.81	0.40		0	<20	P 2
77	77	07/95		C	TEC-TEH	TEC-TEH		00066	580UL	VH3+	0.85	0.35		0	<20	P 2
146	78	07/95		C	TEC-TEH	TEC-TEH		00074	580UL	DBC+	2.00	0.43		0	<20	P 2
47	79	07/95		C	TEC-TEH	TEC-TEH		00052	580UL	VSM+	0.79	0.30		0	<20	P 2

CUMULATIVE REPORT
07/95, SOUTHERN CALIFORNIA EDISON, SAN ONOFRE, UNIT 3

STEAM GENERATOR : 88
OUTAGE DATA SET : CURRENT
SELECTION VARIABLES: Percent

PAGE: 3 OF 5
DATE: 08/25/95
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ROW	COL	EXAM DATE	HEAT#	LEG	PROGRAM	EXAM EXTENT ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
133	79	07/95		C	TEC-TEH	TEC-TEH		00075	580UL	VH1- 1.04	0.30		0	<20	P	2
146	80	07/95		C	TEC-TEH	TEC-TEH		00074	580UL	DBC+ 1.86	0.25		0	<20	P	2
75	81	07/95		C	TEC-TEH	TEC-TEH		00069	580UL	VH3+ 0.83	0.45		0	24	P	2
136	82	07/95		C	TEC-TEH	TEC-TEH		00074	580UL	VH1+ 0.82	0.46		0	<20	P	2
102	84	07/95		C	TEC-TEH	TEC-TEH		00069	580UL	DBH+ 1.61	0.17		0	<20	P	2
114	84	07/95		C	TEC-TEH	TEC-TEH		00068	580UL	DBH+ 1.95	0.44		0	<20	P	2
51	85	07/95		C	TEC-TEH	TEC-TEH		00125	580UL	03C+ 18.43	0.81	158	<20			1
106	86	07/95		C	TEC-TEH	TEC-TEH		00069	580UL	VH3- 0.65	0.21		0	<20	P	2
134	86	07/95		C	TEC-TEH	TEC-TEH		00075	580UL	VH1- 0.91	0.85		0	34	P	2
47	87	07/95		C	TEC-TEH	TEC-TEH		00125	580UL	DBH+ 1.78	0.14		0	<20	P	2
		07/95		C	TEC-TEH	TEC-TEH		00125	580UL	VSM- 0.63	0.16		0	<20	P	2
		07/95		C	TEC-TEH	TEC-TEH		00125	580UL	DBC+ 2.04	0.29		0	<20	P	2
50	88	07/95		C	TEC-TEH	TEC-TEH		00125	580UL	DBC- 1.50	0.21		0	<20	P	2
138	88	07/95		C	TEC-TEH	TEC-TEH		00118	580UL	VH1- 0.80	0.38		0	<20	P	2
147	89	07/95		C	TEC-TEH	TEC-TEH		00118	580UL	DBC- 1.95	0.56		0	26	P	2
138	90	07/95		C	TEC-TEH	TEC-TEH		00118	580UL	VH1- 0.78	0.88		0	24	P	2
		07/95		C	TEC-TEH	TEC-TEH		00118	580UL	01C+ 12.42	2.27	155	<20			1
81	91	07/95		C	TEC-TEH	TEC-TEH		00110	580UL	VC3- 0.03	1.05		0	36	P	1
134	92	07/95		H	TEH-TEC	TEH-TEC		00114	580UL	VH1- 0.85	0.93		0	37	P	2
146	92	07/95		C	TEC-TEH	TEC-TEH		00118	580UL	10C+ 0.80	0.28		0	<20	P	2
51	93	07/95		C	TEC-TEH	TEC-TEH		00125	580UL	DBH- 1.41	0.35		0	<20	P	2
75	93	07/95		C	TEC-TEH	TEC-TEH		00111	580UL	VSM+ 0.99	0.24		0	<20	P	2
77	93	07/95		H	TEH-TEC	TEH-TEC		00114	580UL	VSM+ 0.54	0.69		0	33	P	2
79	93	07/95		C	TEC-TEH	TEC-TEH		00111	580UL	VH3+ 1.19	0.28		0	<20	P	2
		07/95		C	TEC-TEH	TEC-TEH		00111	580UL	VSM+ 0.94	0.47		0	21	P	2
		07/95		C	TEC-TEH	TEC-TEH		00111	580UL	VC3- 0.81	0.33		0	<20	P	2
136	94	07/95		C	TEC-TEH	TEC-TEH		00119	580UL	VH1- 0.97	0.65		0	31	P	2
144	96	07/95		C	TEC-TEH	TEC-TEH		00119	580UL	VH1+ 0.86	0.43		0	25	P	2
82	98	07/95		C	TEC-TEH	TEC-TEH		00111	580UL	VH3- 0.79	0.32		0	<20	P	2
94	98	07/95		C	TEC-TEH	TEC-TEH		00111	580UL	02H- 1.21	0.24		0	21	P	2
46	100	07/95		C	TEC-TEH	TEC-TEH		00094	580UL	DBH+ 1.82	0.33		0	<20	P	2
92	100	07/95		C	TEC-TEH	TEC-TEH		00110	580UL	09H- 0.84	0.50		0	25	P	2
43	101	07/95		C	TEC-TEH	TEC-01H		00094	580UL	VSM- 0.65	0.44		0	<20	P	2
79	101	07/95		C	TEC-TEH	TEC-TEH		00111	580UL	VH3- 0.84	0.40		0	<20	P	2
		07/95		C	TEC-TEH	TEC-TEH		00111	580UL	VH3+ 0.87	0.40		0	<20	P	2
		07/95		C	TEC-TEH	TEC-TEH		00111	580UL	VSM- 0.82	0.25		0	<20	P	2
134	102	07/95		C	TEC-TEH	TEC-TEH		00117	580UL	VH2+ 0.63	0.29		0	<20	P	2
135	103	07/95		C	TEC-TEH	TEC-TEH		00117	580UL	VH1- 0.81	0.46		0	21	P	2
		07/95		C	TEC-TEH	TEC-TEH		00117	580UL	VH1+ 0.90	0.53		0	23	P	2
		07/95		C	TEC-TEH	TEC-TEH		00117	580UL	VH2- 0.78	0.43		0	20	P	2
126	104	07/95		C	TEC-TEH	TEC-TEH		00117	580UL	VH1- 0.92	0.29		0	<20	P	2
134	104	07/95		C	TEC-TEH	TEC-TEH		00117	580UL	VH1- 0.82	0.17		0	<20	P	2
142	104	07/95		C	TEC-TEH	TEC-TEH		00117	580UL	DBH+ 1.84	0.27		0	<20	P	2
91	105	07/95		C	TEC-TEH	TEC-TEH		00111	580UL	09H- 0.21	0.28		0	25	P	2
105	105	07/95		C	TEC-TEH	TEC-TEH		00114	580UL	VH2- 0.45	0.14		0	<20	P	2

CUMULATIVE REPORT
07/95, SOUTHERN CALIFORNIA EDISON, SAN ONOFRE, UNIT 3

STEAM GENERATOR : 88
OUTAGE DATA SET : CURRENT
SELECTION VARIABLES: Percent

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DATE: 08/25/95
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ROW	COL	EXAM DATE	HEAT#	LEG	PROGRAM	EXAM EXTENT ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
38	106	07/95		C	TEC-TEH	TEC-TEH		00093	580UL	VSM+ 1.02	0.18		0	<20	P	2
134	106	07/95		C	TEC-TEH	TEC-TEH		00117	580UL	VH1- 1.09	0.29		0	<20	P	2
111	107	07/95		C	TEC-TEH	TEC-TEH		00115	580UL	VH2- 1.18	0.37		0	20	P	2
94	108	07/95		C	TEC-TEH	TEC-TEH		00111	580UL	09H+ 0.24	0.30		0	25	P	2
136	108	07/95		C	TEC-TEH	TEC-TEH		00117	580UL	VH1- 0.79	0.35		0	<20	P	2
		07/95		C	TEC-TEH	TEC-TEH		00117	580UL	VH1+ 0.64	0.25		0	<20	P	2
75	109	07/95		H	TEH-TEC	TEH-TEC		00114	580UL	VSM- 0.96	0.46		0	26	P	2
		07/95		C	TEC-TEH	TEC-TEH		00111	580UL	VSM- 0.89	0.48		0	26	P	2
		07/95		C	TEC-TEH	TEC-TEH		00111	580UL	VSM+ 0.76	0.40		0	29	P	2
143	109	07/95		C	TEC-TEH	TEC-TEH		00116	580UL	VH2- 0.89	0.32		0	<20	P	2
73	111	07/95		C	TEC-TEH	TEC-TEH		00110	580UL	VSM+ 0.66	0.58		0	24	P	2
48	112	07/95		C	TEC-TEH	TEC-TEH		00094	580UL	VSM+ 0.79	0.49		0	21	P	2
84	112	07/95		C	TEC-TEH	TEC-TEH		00108	580UL	09H+ 1.62	0.33		0	<20	P	2
92	112	07/95		C	TEC-TEH	TEC-TEH		00108	580UL	09H+ 0.31	0.49		0	<20	P	2
81	113	07/95		C	TEC-TEH	TEC-TEH		00108	580UL	VSM- 0.74	0.68		0	23	P	2
139	115	07/95		C	TEC-TEH	TEC-TEH		00116	580UL	VH1+ 0.98	0.27		0	<20	P	2
128	116	07/95		C	TEC-TEH	TEC-TEH		00117	580UL	VH1+ 0.82	0.16		0	<20	P	2
123	121	07/95		C	TEC-TEH	TEC-TEH		00117	580UL	VH1- 0.82	0.28		0	<20	P	2
112	122	07/95		C	TEC-TEH	TEC-TEH		00114	580UL	04C- 1.04	0.29		0	<20	P	2
78	124	07/95		C	TEC-TEH	TEC-TEH		00107	580UL	VH3+ 0.83	0.22		0	<20	P	2
		07/95		C	TEC-TEH	TEC-TEH		00107	580UL	VC3+ 0.83	0.16		0	<20	P	2
134	124	07/95		C	TEC-TEH	TSC-TEH		00116	580UL	06H- 0.84	0.26		0	<20	P	2
35	125	07/95		C	TEC-TEH	TEC-TEH		00089	580UL	VSM+ 0.56	0.21		0	<20	P	2
81	125	07/95		H	TEH-TEC	TEH-TEC		00114	580UL	VH3+ 1.01	0.60		0	30	P	2
		07/95		C	TEC-TEH	TEC-TEH		00106	580UL	VC3+ 0.85	0.41		0	<20	P	2
80	126	07/95		C	TEC-TEH	TEC-TEH		00106	580UL	VH3+ 0.66	0.99		0	35	P	2
		07/95		C	TEC-TEH	TEC-TEH		00106	580UL	VC3+ 0.87	0.43		0	<20	P	2
82	126	07/95		C	TEC-TEH	TEC-TEH		00107	580UL	VH3+ 0.97	0.45		0	24	P	2
		07/95		C	TEC-TEH	TEC-TEH		00107	580UL	VSM- 0.70	0.47		0	24	P	2
		07/95		H	TEH-TEC	TEH-TEC		00114	580UL	VC3- 0.59	0.61		0	31	P	2
		07/95		H	TEH-TEC	TEH-TEC		00114	580UL	VC3+ 0.81	0.63		0	31	P	2
76	128	07/95		C	TEC-TEH	TEC-TEH		00106	580UL	VC3- 0.81	1.03		0	35	P	2
82	128	07/95		C	TEC-TEH	TEC-TEH		00107	580UL	VH3- 0.79	0.59		0	28	P	2
3	129	07/95		C	TSC-07H	TEC-07H		00082	580UL	03C+ 21.99	1.13	148	<20			1
83	129	07/95		C	TEC-TEH	TEC-TEH		00107	580UL	VH2+ 0.85	0.57		0	27	P	2
108	130	07/95		C	TEC-TEH	TEC-TEH		00114	580UL	VH2+ 0.87	0.24		0	<20	P	2
		07/95		H	TEH-TEC	TEH-TEC		00114	580UL	VH3- 0.92	0.76		0	34	P	2
		07/95		C	TEC-TEH	TEC-TEH		00114	580UL	VC3- 0.51	0.38		0	<20	P	2
77	131	07/95		C	TEC-TEH	TEC-TEH		00106	580UL	VH3- 0.80	0.39		0	<20	P	2
112	132	07/95		C	TEC-TEH	TEC-TEH		00114	580UL	VC3- 0.62	0.53		0	20	P	2
106	134	07/95		C	TEC-TEH	TEC-TEH		00117	580UL	VH2- 1.05	0.51		0	25	P	2
44	136	07/95		H	TEH-TEC	TEH-TEC		00114	580UL	02H- 1.19	0.66		0	32	P	2
		07/95		C	TEC-TEH	TEC-TEH		00097	580UL	02H- 1.00	0.48		0	25	P	2
104	136	07/95		C	TEC-TEH	TEC-TEH		00103	580UL	VH2- 0.92	0.30		0	<20	P	2
67	137	07/95		C	TEC-TEH	TEC-TEH		00103	580UL	03H- 1.50	0.28		0	<20	P	2

CUMULATIVE REPORT
07/95, SOUTHERN CALIFORNIA EDISON, SAN ONOFRE, UNIT 3

STEAM GENERATOR : 88
OUTAGE DATA SET : CURRENT
SELECTION VARIABLES: Percent

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DATE: 08/25/95
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ROW	COL	EXAM DATE	HEAT#	LEG	PROGRAM	EXAM EXTENT ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
22	138	07/95		C	TEC-TEH	TEC-TEH		00086	580UL	02H+ 0.15	0.43		0	<20	P	2
80	140	07/95		C	TEC-TEH	TEC-TEH		00102	580UL	VC3- 1.05	0.42		0	20	P	2
		07/95		C	TEC-TEH	TEC-TEH		00102	580UL	VC3+ 0.81	0.33		0	<20	P	2
16	142	07/95		C	TEC-TEH	TEC-TEH		00086	580UL	05H+ 1.29	0.41		0	<20	P	2
80	142	07/95		C	TEC-TEH	TEC-TEH		00101	580UL	VH3- 0.99	0.30		0	21	P	2
		07/95		C	TEC-TEH	TEC-TEH		00101	580UL	VH3+ 0.42	0.38		0	25	P	2
		07/95		C	TEC-TEH	TEC-TEH		00101	580UL	VSM- 0.73	0.33		0	23	P	2
		07/95		C	TEC-TEH	TEC-TEH		00101	580UL	VC3- 0.78	0.24		0	<20	P	2
		07/95		C	TEC-TEH	TEC-TEH		00101	580UL	VC3+ 0.57	0.22		0	<20	P	2
57	143	07/95		C	TEC-TEH	TEC-TEH		00096	580UL	05H- 0.86	0.40		0	<20	P	2
106	144	07/95		H	TEH-TEC	TEH-TEC		00114	580UL	VH2- 0.47	0.68		0	32	P	2
		07/95		C	TEC-TEH	TEC-TEH		00100	580UL	VH3+ 1.20	0.45		0	21	P	2
94	146	07/95		C	TEC-TEH	TEC-TEH		00101	580UL	VH3- 0.93	0.24		0	<20	P	2
38	148	07/95		C	TEC-TEH	TEC-TEH		00098	580UL	03H- 0.93	0.47		0	22	P	2
72	148	07/95		C	TEC-TEH	TEC-TEH		00101	580UL	VH3+ 0.63	0.23		0	<20	P	2
43	149	07/95		C	TEC-TEH	TEC-TEH		00099	580UL	VSM+ 0.95	0.30		0	<20	P	2
89	151	07/95		C	TEC-TEH	TEC-TEH		00100	580UL	VC3+ 0.77	0.30		0	<20	P	2
68	156	07/95		C	TEC-TEH	TEC-TEH		00101	580UL	05C+ 0.99	0.22		0	<20	P	2
28	158	07/95		C	TEC-TEH	TEC-TEH		00085	580UL	VSM+ 0.68	0.28		0	<20	P	2
74	160	07/95		C	TEC-TEH	TEC-TEH		00100	580UL	08C- 0.31	0.46		0	<20	P	2
79	161	07/95		C	TEC-TEH	TEC-TEH		00100	580UL	08H+ 2.12	0.34		0	<20	P	2
70	164	07/95		C	TEC-TEH	TEC-TEH		00100	580UL	08H+ 1.27	0.48		0	<20	P	2
9	175	07/95		C	TEC-TEH	TEC-TEH		00080	580UL	06C+ J.87	0.37		0	<20	P	2

NUMBER OF TUBES SELECTED FROM CURRENT OUTAGE: 164
NUMBER OF DATA RECORDS SELECTED FROM CURRENT OUTAGE: 203

NO TREND ANALYSIS REQUESTED

DATA SELECTION CRITERIA:

Percent: MAI, MCI, SAI, SCI, SVI, MVI, 0 to 100%

REPORT OPTIONS:

Only examination results matching criteria are included

Enclosure 4

LIST OF TUBES PLUGGED

San Onofre Unit 3 Steam Generator E-088

<u>Row</u>	<u>Column</u>	<u>Reason</u>
101	25	Preventive Maintenance
104	30	Preventive Maintenance
128	56	Preventive Maintenance
97	67	Preventive Maintenance
103	69	Preventive Maintenance
100	70	Preventive Maintenance
102	70	Preventive Maintenance
105	71	Preventive Maintenance
37	73	Preventive Maintenance
99	73	Preventive Maintenance
134	86	Preventive Maintenance
81	91	Preventive Maintenance
134	92	Preventive Maintenance
77	93	Preventive Maintenance
136	94	Preventive Maintenance
46	96	Preventive Maintenance
81	125	Preventive Maintenance
80	126	Preventive Maintenance
82	126	Preventive Maintenance

Enclosure 4

LIST OF TUBES PLUGGED

San Onofre Unit 3 Steam Generator E-088

<u>Row</u>	<u>Column</u>	<u>Reason</u>
76	128	Preventive Maintenance
108	130	Preventive Maintenance
44	136	Preventive Maintenance
106	144	Preventive Maintenance

ENCLOSURE (5)
CUMULATIVE REPORT

07/95, SOUTHERN CALIFORNIA EDISON, SAN ONOFRE, UNIT 3

STEAM GENERATOR : 89
OUTAGE DATA SET : CURRENT
SELECTION VARIABLES: Percent

PAGE: 1 OF 3
DATE: 08/25/95
TIME: 08:36:34

ROW	COL	EXAM DATE	HEAT#	LEG	EXAM EXTENT PROGRAM	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
1	1	07/95		H	TSH-TSH	TSH-TSH		00002	600PP	TSH+	0.16	1.39	76	36	5	
		07/95		H	TSH-TSH	TSH-TSH		00025	600PP	TSH+	0.24	1.22	83	36	1	
27	3	07/95		C	TEC-TEH	TEC-TEH		00106	580UL	TSH+	10.24	0.91	160	<20	1	
42	6	07/95		C	TEC-TEH	TEC-TEH		00110	580UL	VSM-	0.19	0.17	0	<20	P 2	
		07/95		C	TEC-TEH	TEC-TEH		00110	580UL	VSM+	0.96	0.76	0	29	P 2	
61	9	07/95		C	TEC-TEH	TEC-TEH		00110	580UL	VSM+	1.87	1.25	153	<20	1	
50	10	07/95		C	TEC-TEH	TEC-TEH		00111	580UL	VSM-	0.70	1.36	0	39	P 2	
51	11	07/95		C	TEC-TEH	TEC-TEH		00111	580UL	03C-	1.10	0.29	0	<20	P 2	
71	13	07/95		C	TEC-TEH	TEC-TEH		00094	580UL	VH3-	0.63	0.53	0	<20	P 2	
80	16	07/95		C	TEC-TEH	TEC-TEH		00091	580UL	DBC+	2.22	0.52	0	<20	P 2	
50	18	07/95		C	TEC-TEH	TEC-TEH		00110	580UL	VSM-	0.72	0.33	0	<20	P 2	
82	18	07/95		C	TEC-TEH	TEC-TEH		00090	580UL	DBC+	0.82	0.62	0	27	P 2	
65	19	07/95		C	TEC-TEH	TEC-TEH		00110	580UL	01C+	6.30	0.70	113	49	1	
		07/95		C	01C-02C	01C-02C		00128	600PP	01C+	6.40	0.26	58	SAI	P 2	
75	19	07/95		C	TEC-TEH	TEC-TEH		00091	580UL	VC3+	0.16	0.53	0	<20	P 2	
73	21	07/95		C	TEC-TEH	TEC-TEH		00090	580UL	DBH-	0.69	0.41	0	21	P 2	
119	43	07/95		C	TEC-TEH	TEC-TEH		00087	580UL	TSC+	5.46	0.35	149	<20	1	
88	46	07/95		C	TEC-TEH	TEC-TEH		00084	580UL	DBC-	1.75	0.21	0	<20	P 2	
66	52	07/95		C	TEC-TEH	TEC-TEH		00110	580UL	02H-	1.21	0.31	0	<20	P 2	
113	53	07/95		C	TEC-TEH	TEC-TEH		00076	580UL	06C+	25.48	0.38	146	23	1	
77	59	07/95		C	TEC-TEH	TEC-TEH		00085	580UL	VSM-	0.55	1.27	0	32	P 2	
		07/95		C	TEC-TEH	TEC-TEH		00085	580UL	VC3+	0.92	0.66	0	21	P 2	
		07/95		C	TEC-TEH	TEC-TEH		00121	580UL	VC3+	0.79	0.71	0	21	P 2	
124	60	07/95		C	TEC-TEH	TEC-TEH		00093	580UL	03H-	1.05	0.61	0	<20	P 2	
77	61	07/95		C	TEC-TEH	TEC-TEH		00085	580UL	VSM+	0.90	0.91	0	26	P 2	
78	62	07/95		C	TEC-TEH	TEC-TEH		00085	580UL	VC3-	0.77	0.57	0	<20	P 2	
141	63	07/95		C	TEC-TEH	TEC-TEH		00092	580UL	DBH+	2.01	0.41	0	<20	P 2	
50	64	07/95		C	TEC-TEH	TEC-TEH		00113	580UL	VSM+	0.81	0.58	0	23	P 2	
129	65	07/95		C	TEC-TEH	TEC-TEH		00092	580UL	VH2-	1.18	0.35	0	<20	P 2	
142	68	07/95		C	TEC-TSC	TEC-TSC		00133	600PP	TSC-	0.28	0.31	0	SV1	4	
130	72	07/95		C	TEC-TEH	TEC-TEH		00092	580UL	VH1+	0.67	0.33	0	<20	P 2	
77	75	07/95		C	TEC-TEH	TEC-TEH		00083	580UL	VH3-	0.77	0.63	0	21	P 2	
100	78	07/95		C	TEC-TEH	TEC-TEH		00080	580UL	DBH-	0.56	0.53	0	24	P 2	
125	79	07/95		C	TEC-TEH	TEC-TEH		00092	580UL	VH1+	1.14	0.84	0	25	P 2	
129	79	07/95		C	TEC-TEH	TEC-TEH		00092	580UL	VH1+	0.98	0.60	0	20	P 2	
108	80	07/95		C	TEC-TEH	TEC-TEH		00080	580UL	03H+	15.39	0.89	142	24	1	
		07/95		C	TEC-TEH	TEC-TEH		00080	580UL	07H+	23.22	1.08	147	20	1	
108	82	07/95		C	TEC-TEH	TEC-TEH		00080	580UL	03C-	0.78	0.24	0	<20	P 2	
147	83	07/95		C	TEC-TEH	TEC-TEH		00094	580UL	VH2+	0.65	0.22	0	<20	P 2	
139	85	07/95		C	TEC-TEH	TEC-TEH		00094	580UL	VH3+	0.94	0.20	0	<20	P 2	
147	85	07/95		C	TEC-TEH	TEC-TEH		00094	580UL	DBH-	1.93	0.58	0	26	P 2	
		07/95		C	TEC-TEH	TEC-TEH		00131	580UL	DBH-	2.00	1.09	0	24	P 2	
56	86	07/95		C	TEC-TEH	TEC-TEH		00125	580UL	DBH-	2.00	0.32	0	<20	P 2	
126	86	07/95		C	TEC-TEH	TEC-TEH		00094	580UL	VH1+	0.76	0.40	0	<20	P 2	
138	86	07/95		C	TEC-TEH	TEC-TEH		00094	580UL	VH1-	0.91	0.82	0	25	P 2	

CUMULATIVE REPORT
07/95, SOUTHERN CALIFORNIA EDISON, SAN ONOFRE, UNIT 3

STEAM GENERATOR : 89
OUTAGE DATA SET : CURRENT
SELECTION VARIABLES: Percent

PAGE: 2 OF 3
DATE: 08/25/95
TIME: 08:36:34

ROW	COL	EXAM DATE	HEAT#	LEG	EXAM EXTENT PROGRAM	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
		07/95		C	TEC-TEH	TEC-TEH		00121	580UL	VH1-	0.83	0.86		0	24	P 2
		07/95		C	TEC-TEH	TEC-TEH		00094	580UL	VH2-	0.91	0.97		0	28	P 2
		07/95		C	TEC-TEH	TEC-TEH		00121	580UL	VH2-	0.83	0.95		0	26	P 2
		07/95		C	TEC-TEH	TEC-TEH		00094	580UL	VH2+	0.88	0.71		0	23	P 2
		07/95		C	TEC-TEH	TEC-TEH		00121	580UL	VH2+	0.83	0.76		0	22	P 2
135	87	07/95		C	TEC-TEH	TEC-TEH		00094	580UL	VH2+	1.48	0.72		0	29	P 2
54	88	07/95		C	TEC-TEH	TEC-TEH		00125	580UL	DBC-	1.55	0.41		0	20	P 2
146	90	07/95		C	TEC-TEH	TEC-TEH		00099	580UL	VH3-	0.80	0.39		0	<20	P 2
147	91	07/95		C	TEC-TEH	TEC-TEH		00099	580UL	VH2+	0.65	0.41		0	<20	P 2
54	94	07/95		C	TEC-TEH	TEC-TEH		00059	580UL	DBC-	1.57	0.42		0	<20	P 2
82	94	07/95		C	TEC-TEH	TEC-TEH		00071	580UL	VH2-	0.03	0.31		0	<20	P 2
132	94	07/95		C	TEC-TEH	TEC-TEH		00098	580UL	VH2-	1.00	0.65		0	25	P 2
		07/95		C	TEC-TEH	TEC-TEH		00121	580UL	VH2-	0.98	0.69		0	21	P 2
128	96	07/95		C	TEC-TEH	TEC-TEH		00098	580UL	VC2-	0.76	0.41		0	<20	P 2
		07/95		C	TEC-TEH	TEC-TEH		00121	580UL	VC2-	0.62	0.29		0	<20	P 2
144	96	07/95		C	TEC-TEH	TEC-TEH		00098	580UL	VH2-	0.62	0.63		0	25	P 2
		07/95		C	TEC-TEH	TEC-TEH		00121	580UL	VH2-	0.88	0.79		0	23	P 2
50	98	07/95		C	TEC-TEH	TEC-TEH		00059	580UL	DBH-	1.73	0.87		0	<20	P 2
139	99	07/95		C	TEC-TEH	TEC-TEH		00098	580UL	VH2-	0.94	0.41		0	<20	P 2
45	101	07/95		C	TEC-TEH	TEC-TEH		00058	580UL	DBC+	1.69	0.29		0	<20	P 2
83	101	07/95		C	TEC-TEH	TEC-TEH		00070	580UL	VSM+	1.21	0.29		0	<20	P 2
127	101	07/95		C	TEC-TEH	TEC-TEH		00098	580UL	07C+	1.52	1.76	164	<20		1
143	101	07/95		C	TEC-TEH	TEC-TEH		00098	580UL	VH2-	0.69	0.42		0	<20	P 2
38	102	07/95		C	TEC-TEH	TEC-TEH		00052	580UL	DBC-	2.12	0.23		0	<20	P 2
122	102	07/95		C	TEC-TEH	TEC-TEH		00074	580UL	01H+	1.14	0.50		0	21	P 2
55	103	07/95		C	TEC-TEH	TEC-TEH		00059	580UL	VC3+	1.07	0.54		0	<20	P 2
129	103	07/95		C	TEC-TEH	TEC-TEH		00099	580UL	VC2+	4.96	1.53	148	21		1
135	103	07/95		C	TEC-TEH	TEC-TEH		00098	580UL	VH1+	0.72	0.54		0	24	P 2
143	103	07/95		C	TEC-TEH	TEC-TEH		00098	580UL	VH1-	0.66	0.30		0	<20	P 2
46	104	07/95		C	TEC-TEH	TEC-TEH		00059	580UL	VSM-	0.82	0.36		0	<20	P 2
37	105	07/95		C	TEC-TEH	TEC-TEH		00053	580UL	VSM-	0.66	0.76		0	22	P 2
129	109	07/95		C	TEC-TEH	TEC-TEH		00098	580UL	10H-	0.50	0.34		0	<20	P 2
121	113	07/95		C	TEC-TEH	TEC-TEH		00072	580UL	VH1-	0.86	0.58		0	<20	P 2
141	113	07/95		C	TEC-TEH	TEC-TEH		00098	580UL	DBH+	1.89	0.40		0	<20	P 2
44	114	07/95		C	TEC-TEH	TEC-TEH		00056	580UL	VSM-	1.22	0.41		0	<20	P 2
102	114	07/95		C	TEC-TEH	TEC-TEH		00072	580UL	05H+	31.74	0.40	154	<20		1
136	114	07/95		C	TEC-TEH	TEC-TEH		00098	580UL	VC1+	1.52	0.77		0	28	P 2
		07/95		C	TEC-TEH	TEC-TEH		00098	580UL	DBC+	1.30	0.52		0	22	P 2
140	114	07/95		C	TEC-TEH	TEC-TEH		00098	580UL	DBH-	1.76	2.17		0	44	P 2
		07/95		C	TEC-TEH	TEC-TEH		00121	580UL	DBH-	1.82	2.17		0	42	P 2
		07/95		C	TEC-TEH	TEC-TEH		00098	580UL	DBH+	1.85	1.72		0	41	P 2
		07/95		C	TEC-TEH	TEC-TEH		00121	580UL	DBH+	1.85	1.67		0	37	P 2
83	115	07/95		C	TEC-TEH	TEC-TEH		00068	580UL	VSM+	1.32	0.22		0	<20	P 2
117	117	07/95		C	TEC-TEH	TEC-TEH		00072	580UL	06H+	8.15	0.70	155	<20		1
41	123	07/95		C	TEC-TEH	TEC-TEH		00057	580UL	VSM+	0.67	0.94		0	<20	P 2

CUMULATIVE REPORT
07/95, SOUTHERN CALIFORNIA EDISON, SAN GONFRE, UNIT 3

STEAM GENERATOR : 89
OUTAGE DATA SET : CURRENT
SELECTION VARIABLES: Percent

PAGE: 3 OF 3
DATE: 08/25/95
TIME: 08:36:34

ROW	COL	EXAM DATE	HEAT#	LEG	EXAM EXTENT PROGRAM	ACTUAL	EXP	CAL	PROBE	LOCATION	VOLTS	MIL	DEG	%	CH	CHNG
50	128	07/95		C	TEC-TEH	TEC-TEH		00055	580UL	03C+	0.92	0.82		0	21	P 2
103	131	07/95		C	TEC-TEH	TEC-TEH		00071	580UL	VH2-	1.09	0.48		0	21	P 2
46	138	07/95		C	TEC-TEH	TEC-TEH		00045	580UL	04C-	0.19	0.45		0	<20	P 2
106	138	07/95		C	TEC-TEH	TEC-TEH		00067	580UL	VH2-	1.01	0.61		0	24	P 2
31	139	07/95		H	TSH-TSH	TSH-TSH		00115	600RC	TSH-	0.20	0.23		0	SC1	P 1
119	139	07/95		C	TEC-TEH	TEC-TEH		00066	580UL	10C+	0.07	0.69		0	27	P 2
106	142	07/95		C	TEC-TEH	TEC-TEH		00066	580UL	VH2-	0.80	0.45		0	<20	P 2
43	145	07/95		C	TEC-TEH	TEC-TEH		00043	580UL	VSM+	0.60	0.42		0	<20	P 2
47	145	07/95		C	TEC-TEH	TEC-TEH		00043	580UL	VSM+	0.95	0.34		0	<20	P 2
73	145	07/95		C	TEC-TEH	TEC-TEH		00066	580UL	VC3-	0.86	0.37		0	<20	P 2
42	146	07/95		C	TEC-TEH	TEC-TEH		00043	580UL	VSM+	0.69	0.39		0	<20	P 2
46	146	07/95		C	TEC-TEH	TEC-TEH		00043	580UL	VSM+	0.91	0.67		0	<20	P 2
76	146	07/95		C	TEC-TEH	TEC-TEH		00067	580UL	VH3+	0.77	0.91		0	24	P 2
73	147	07/95		C	TEC-TEH	TEC-TEH		00121	580UL	VH3+	1.08	0.75		0	27	P 2
		07/95		C	TEC-TEH	TEC-TEH		00066	580UL	VH3+	0.83	0.60		0	24	P 2
		07/95		C	TEC-TEH	TEC-TEH		00121	580UL	VSM-	0.93	0.99		0	27	P 2
		07/95		C	TEC-TEH	TEC-TEH		00066	580UL	VSM-	0.73	0.73		0	28	P 2
75	147	07/95		C	TEC-TEH	TEC-TEH		00067	580UL	VC3+	0.74	0.81		0	22	P 2
77	147	07/95		C	TEC-TEH	TEC-TEH		00066	580UL	VSM-	0.61	0.56		0	23	P 2
101	149	07/95		C	TEC-TEH	TEC-TEH		00062	580UL	VH2+	0.89	0.45		0	<20	P 2
79	153	07/95		C	TEC-TEH	TEC-TEH		00100	580UL	VC3+	0.94	1.22		0	35	P 2
81	153	07/95		C	TEC-TEH	TEC-TEH		00100	580UL	VH3+	0.00	0.19		0	<20	P 2
77	155	07/95		C	TEC-TEH	TEC-TEH		00060	580UL	VH3+	0.64	0.35		0	<20	P 2
87	157	07/95		C	TEC-TEH	TEC-TEH		00061	580UL	03H-	1.31	0.74		0	<20	P 2
78	160	07/95		C	TEC-TEH	TEC-TEH		00060	580UL	VH3-	0.98	0.63		0	<20	P 2

NUMBER OF TUBES SELECTED FROM CURRENT OUTAGE: 93
NUMBER OF DATA RECORDS SELECTED FROM CURRENT OUTAGE: 115

NO TREND ANALYSIS REQUESTED

DATA SELECTION CRITERIA:

Percent: MAI, MCI, SAI, SCI, SVI, MVI, 0 to 100%

REPORT OPTIONS:

Only examination results matching criteria are included

Enclosure 6

LIST OF TUBES PLUGGED

San Onofre Unit 3 Steam Generator E-089

<u>Row</u>	<u>Column</u>	<u>Reason</u>
50	10	Preventive Maintenance
65	19	49% Indication at OIC + 6.3
77	59	Preventive Maintenance
142	68	Preventive Maintenance
141	69	Preventive Maintenance
140	114	44% Indication at DBH + 1.7
31	139	Preventive Maintenance
79	153	Preventive Maintenance