



Southern California Edison Company

SAN ONOFRE NUCLEAR GENERATING STATION

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U. S. Nuclear Regulatory Commission
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Washington, D. C. 20555

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

Reference: Letter from M. O. Medford (SCE) to Mr. G. W. Knighton (USNRC) dated
April 5, 1985

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 inservice inspection of steam generator tubes at San Onofre Unit 3.

Eddy current inspection of the steam generator tubing was completed on May 25, 1988. A total of 2151 tubes (11.6% of the tubes in service) in two steam generators were inspected full length and 177 tubes were removed from service by mechanical plugging.

In Steam Generator E-088, 959 tubes were inspected. Two tubes found to be defective due to the wear mechanism previously described in the reference were plugged. Therefore, as provided for in Technical Specification 4.4.4.2, a C-2 program expansion was performed. Seventy-five tubes were preventively plugged due to the wear mechanism previously described in the reference.

In Steam Generator E-089, 1192 tubes were inspected. Four tubes found to be defective due to the wear mechanism previously described in the reference were plugged. Therefore, as provided for in Technical Specification 4.4.4.2, a C-2 program expansion was performed. Ninety-six tubes were preventively plugged due to the wear mechanism previously described in the reference.

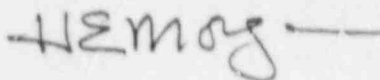
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As required by Surveillance Requirement 4.4.4.5(b), complete results of the recently completed inservice inspection of steam generator tubing are provided in the enclosures. Enclosure 1 provides the steam generator internal location reference guide.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

If you require any additional information, please so advise.

Sincerely,

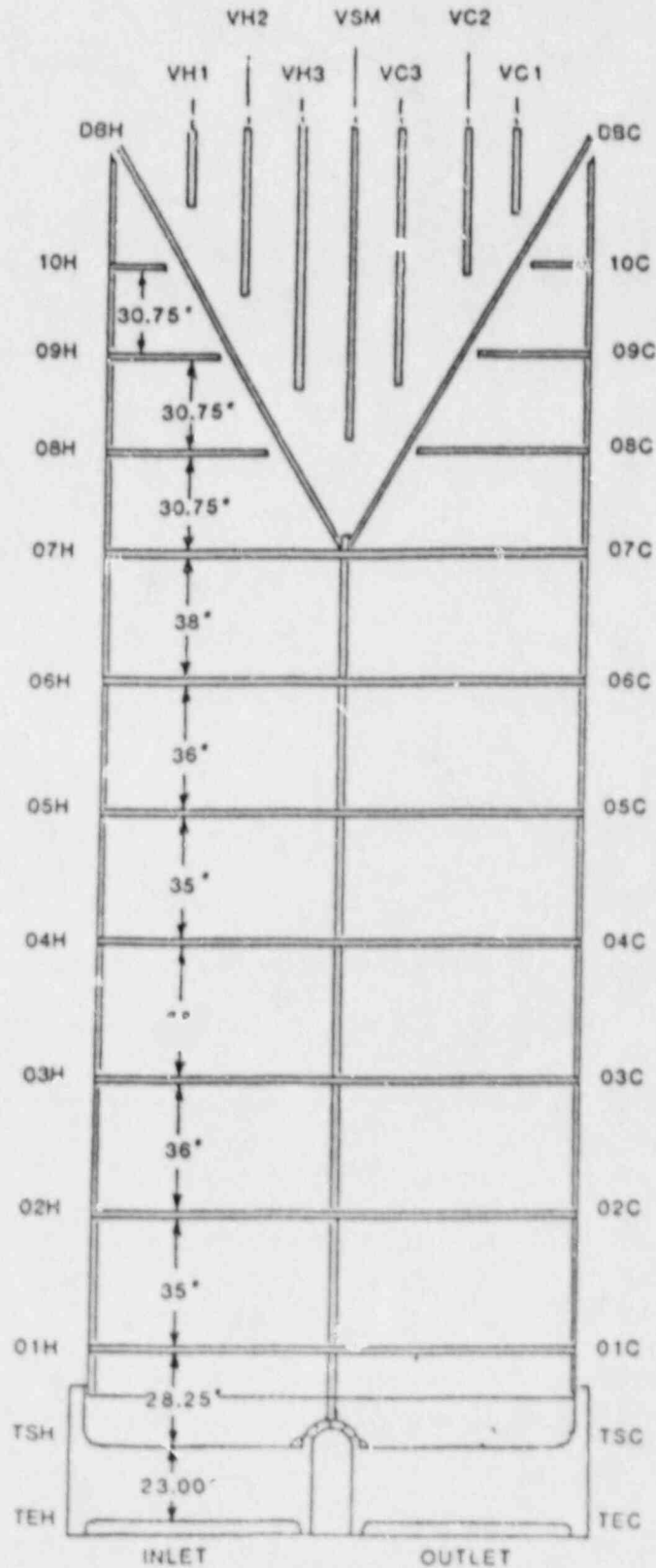


- Enclosures: 1 Combustion Engineering Model 3410 Steam Generator Tube Support Drawing and Clarification of Tubing/Support Interfaces
- 2 List of Eddy Current Indications, Steam Generator E-088
- 3 List of Tubes Plugged, Steam Generator E-088
- 4 List of Eddy Current Indications, Steam Generator E-089
- 5 List of Tubes Plugged, Steam Generator E-089

cc: J. B. Martin (Regional Administrator, USNRC Region V)
F. R. Huey (USNRC Senior Resident Inspector, Units 1, 2, and 3)
H. Rood (Project Manager, SONGS 2/3, USNRC, NRR)
Institute of Nuclear Power Operations (INPO)

Enclosure 1

CE MODEL 3410 TUBE SUPPORT DRAWING



Enclosure 1

CLARIFICATION OF TUBING/SUPPORT INTERFACES
 ABOVE THE 7TH FULL EGGRATE 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
51-62	08H	DBH	VH3, VSM, VC3	DBC	08C
49-50	08H	DBH	VSM	DBC	08C
19-48		DBH	VSM	DBC	
1-18		DBH		DBC	

Enclosure 2

LIST OF EDDY CURRENT INDICATIONS

San Onofre Unit 3 Steam Generator E-088

<u>Row</u>	<u>Column</u>	<u>Indication(% through-wall)</u>	<u>Location</u>
43	81	78	DBH+1.4
45	81	49	DBH+1.4
46	88	43	DBC+1.5
44	94	38	DBH+1.9
43	95	38	DBH+1.7
43	97	38	DDH+1.7
46	84	35	DBC-1.5
47	85	32	DBH+1.7
49	85	32	DBH-1.7
50	98	32	DBH-2.0
37	75	30	DBH+1.7
45	93	30	DBH+1.7
47	83	29	DBC+1.4
47	91	29	DBH-1.7
37	75	28	VSM+0.9
42	80	28	DBC+1.5
45	93	28	DBH-1.8
37	73	27	VSM+0.9
47	89	27	DBH+2.0
32	72	26	DBH-2.0
40	76	26	DBH-1.7
45	83	26	DBC+1.6
48	88	25	DBC+1.5
43	97	25	DBC+1.5
45	97	24	DBC+1.7

Enclosure 2

LIST OF EDDY CURRENT INDICATIONS

San Onofre Unit 3 Steam Generator E-088

<u>Row</u>	<u>Column</u>	<u>Indication(% through-wall)</u>	<u>Location</u>
94	54	24	VH2+4.6
138	90	23	O1C+12.0
45	93	23	DBC+1.3
45	95	23	DBH+1.7
39	99	23	DBH-1.7
127	129	22	TSC+7.8
45	97	22	DBH+2.0
49	91	22	DBH-1.7
55	91	22	O5H+10.7
104	80	22	O7H+24.3
38	76	21	DBH-1.8
47	89	21	DBC+1.7
128	98	21	O1H+24.3
38	102	21	VSM-0.8
50	90	20	DBH-1.7
48	72	20	VSM-0.8
14	16	<20	O2C+10.1
21	19	<20	O2C+7.2
2	38	<20	O3C+3.5
27	45	<20	O3H-11.3
2	48	<20	O4H-5.0
122	56	<20	VH1+8.2
47	57	<20	O7C-1.4
20	68	<20	DBC-1.5
43	69	<20	VSM-0.8

Enclosure 2

LIST OF EDDY CURRENT INDICATIONS

San Onofre Unit 3 Steam Generator E-088

<u>Row</u>	<u>Column</u>	<u>Indication(% through-wall)</u>	<u>Location</u>
123	69	<20	02H+12.2
36	70	<20	01C+3.9
33	71	<20	DBH-1.6
40	72	<20	VSM-1.0
39	73	<20	VSM+1.0
35	75	<20	DBH+1.9
37	75	<20	DBH-1.8
36	76	<20	DBH-1.9
41	77	<20	VSM-0.6
43	77	<20	DBH-1.5
42	78	<20	DBH-2.0
43	79	<20	DBH-1.7
49	79	<20	DBC-1.6
42	80	<20	DBH-1.7
44	80	<20	DBH-1.6
45	81	<20	VSM-0.6
47	81	<20	DBH+1.5
147	81	<20	DBC+1.2
44	82	<20	VSM+0.8
46	82	<20	VSM-0.8
50	82	<20	DBH-1.4
47	83	<20	VSM+0.9
50	84	<20	DBH-1.3
50	84	<20	DBC-1.1
51	85	<20	03C+18.6

Enclosure 2

LIST OF EDDY CURRENT INDICATIONS

San Onofre Unit 3 Steam Generator E-088

<u>Row</u>	<u>Column</u>	<u>Indication(% through-wall)</u>	<u>Location</u>
52	86	<20	DBH-1.7
46	90	<20	DBC-1.8
56	90	<20	DBH-1.7
125	91	<20	03H+3.5
46	92	<20	DBH+1.7
50	92	<20	DBH-1.7
45	93	<20	DBC-1.5
61	93	<20	04C+23.7
46	94	<20	DBH+1.9
46	94	<20	DBC+1.5
45	95	<20	DBC+1.4
47	95	<20	DBH+1.6
49	95	<20	DBH-1.6
41	97	<20	DBH-1.9
41	97	<20	DBC+1.9
41	97	<20	DBC-1.3
44	98	<20	VSM-0.7
46	98	<20	DBC+1.9
48	98	<20	DBH-2.0
41	99	<20	DBH-2.0
41	99	<20	DBC+1.6
43	99	<20	DBC-1.5
47	99	<20	DBC+1.9
107	99	<20	VC3+0.8
38	100	<20	DBH-1.7

Enclosure 2

LIST OF EDDY CURRENT INDICATIONS

San Onofre Unit 3 Steam Generator E-088

<u>Row</u>	<u>Column</u>	<u>Indication(% through-wall)</u>	<u>Location</u>
42	100	<20	DBH-1.9
37	101	<20	DBC-1.9
40	102	<20	DBH-2.0
43	103	<20	06C+3.7
32	104	<20	DBH-1.7
46	114	<20	TSC+12.3
80	126	<20	VH3+0.8
80	126	<20	VC3+0.8
98	152	<20	02C+22.6
5	159	<20	03H+10.4
23	167	<20	05H+16.2
47	95	<20	DBC-1.8

Enclosure 3

LIST OF TUBES PLUGGED

San Onofre Unit 3 Steam Generator E-088

<u>Row</u>	<u>Column</u>	<u>Reason</u>
43	81	78% Indication at Location DBH+1.4
45	81	49% Indication at Location DBI+1.4
20	68	Preventive Maintenance
35	75	Preventive Maintenance
40	76	Preventive Maintenance
40	78	Preventive Maintenance
41	79	Preventive Maintenance
48	82	Preventive Maintenance
46	84	Preventive Maintenance
49	85	Preventive Maintenance
47	89	Preventive Maintenance
47	91	Preventive Maintenance
50	92	Preventive Maintenance
48	94	Preventive Maintenance
49	95	Preventive Maintenance
45	97	Preventive Maintenance
50	98	Preventive Maintenance
47	99	Preventive Maintenance
42	100	Preventive Maintenance
36	102	Preventive Maintenance
49	89	Preventive Maintenance
31	71	Preventive Maintenance
37	75	Preventive Maintenance
39	77	Preventive Maintenance

Enclosure 3

LIST OF TUBES PLUGGED

San Onofre Unit 3 Steam Generator E-088

<u>Row</u>	<u>Column</u>	<u>Reason</u>
42	78	Preventive Maintenance
42	80	Preventive Maintenance
47	81	Preventive Maintenance
50	82	Preventive Maintenance
48	84	Preventive Maintenance
52	86	Preventive Maintenance
46	90	Preventive Maintenance
49	91	Preventive Maintenance
45	93	Preventive Maintenance
43	95	Preventive Maintenance
44	96	Preventive Maintenance
44	98	Preventive Maintenance
39	99	Preventive Maintenance
36	100	Preventive Maintenance
37	101	Preventive Maintenance
38	102	Preventive Maintenance
33	71	Preventive Maintenance
36	76	Preventive Maintenance
41	77	Preventive Maintenance
41	79	Preventive Maintenance
44	80	Preventive Maintenance
44	82	Preventive Maintenance
45	83	Preventive Maintenance

Enclosure 3

LIST OF TUBES PLUGGED

San Onofre Unit 3 Steam Generator E-088

<u>Row</u>	<u>Column</u>	<u>Reason</u>
50	84	Preventive Maintenance
46	88	Preventive Maintenance
50	91	Preventive Maintenance
46	92	Preventive Maintenance
44	94	Preventive Maintenance
45	95	Preventive Maintenance
41	97	Preventive Maintenance
46	98	Preventive Maintenance
41	99	Preventive Maintenance
38	100	Preventive Maintenance
39	101	Preventive Maintenance
40	102	Preventive Maintenance
32	.	Preventive Maintenance
38	76	Preventive Maintenance
43	77	Preventive Maintenance
43	79	Preventive Maintenance
46	82	Preventive Maintenance
47	83	Preventive Maintenance
47	85	Preventive Maintenance
48	88	Preventive Maintenance
56	90	Preventive Maintenance
48	92	Preventive Maintenance
46	94	Preventive Maintenance
47	95	Preventive Maintenance

Enclosure 3

LIST OF TUBES PLUGGED

San Onofre Unit 3 Steam Generator E-088

<u>Row</u>	<u>Column</u>	<u>Reason</u>
43	97	Preventive Maintenance
48	98	Preventive Maintenance
43	99	Preventive Maintenance
40	100	Preventive Maintenance
34	102	Preventive Maintenance
32	104	Preventive Maintenance

Enclosure 4

LIST OF EDDY CURRENT INDICATIONS

San Onofre Unit 3 Steam Generator E-089

<u>Row</u>	<u>Column</u>	<u>Indication(% through-wall)</u>	<u>Location</u>
42	96	54	DBH-1.9
47	85	54	DBH+1.9
43	79	51	DBC+1.4
44	80	51	DBC+1.3
43	81	43	DBH+2.0
41	77	40	DBC-0.8
42	80	40	DBC+1.8
48	90	40	DBC+1.1
43	77	37	DBC+1.5
42	78	37	DBH+1.7
41	79	36	DBH+1.4
46	92	36	DBH-1.4
32	104	35	DBC+1.5
41	79	33	VSM-0.6
49	85	33	DBH+1.8
54	86	33	DBH-2.0
45	93	33	DBC+1.4
43	97	33	VSM-0.8
41	77	33	DBH+1.8
46	102	32	VSM-0.8
41	97	32	DBC-1.2
43	79	32	DBH+1.8
41	75	32	DBC+1.3
49	81	32	DBC-1.0

Enclosure 4

LIST OF EDDY CURRENT INDICATIONS

San Onofre Unit 3 Steam Generator E-0C9

<u>Row</u>	<u>Column</u>	<u>Indication(% through-wall)</u>	<u>Location</u>
47	91	31	DBH+1.9
135	57	30	09H+11.9
120	54	29	09H+8.5
45	83	29	DBC-1.4
37	101	29	DBC+1.4
142	110	29	06C+22.6
138	94	28	TSH+19.2
30	4	27	04C-3.6
41	79	27	DBH-1.7
33	103	27	DBH+1.7
122	132	27	04C+25.3
46	138	27	05C+12.2
43	97	26	DBH-1.7
36	100	26	DBH+1.7
143	87	26	VH1+9.0
46	88	26	DBH+1.9
51	91	26	DBH-2.0
39	77	26	DBC+1.7
35	76	25	DBH-1.8
46	86	25	DBH-1.8
48	88	25	DBH+1.8
117	131	25	06H+31.9
133	97	24	06C+15.0
131	101	24	06H+9.2

Enclosure 4

LIST OF EDDY CURRENT INDICATIONS

San Onofre Unit 3 Steam Generator E-089

<u>Row</u>	<u>Column</u>	<u>Indication(% through-wall)</u>	<u>Location</u>
46	84	24	DBH+2.1
41	77	24	DBH-1.4
42	76	24	DBC+1.5
103	65	23	05H+9.7
38	76	23	DBC+1.4
44	80	23	DBH-1.9
108	80	23	07H+23.1
50	86	23	DBH-1.9
44	98	23	DBC+1.3
41	101	23	VSM+0.9
136	120	23	02C-5.2
135	57	22	VC1+8.8
129	65	22	VC3+8.0
42	70	22	VSM-0.9
59	71	22	VSM+2.1
50	76	22	DBC-1.0
123	77	22	03C+25.3
44	82	22	DBC-1.1
45	83	22	DBH+1.9
44	98	22	DBH+1.8
40	76	21	DBC+1.1
103	65	21	05H+2.7
59	71	20	VSM+1.5
44	78	20	DBH+1.6

Enclosure 4

LIST OF EDDY CURRENT INDICATIONS

San Onofre Unit 3 Steam Generator E-089

<u>Row</u>	<u>Column</u>	<u>Indication(% through-wall)</u>	<u>Location</u>
46	96	20	DBH-1.7
135	101	20	05C+23.8
115	103	20	09H+19.1
104	28	<20	VH2-1.1
80	34	<20	03C+17.0
101	35	<20	03H+12.2
104	36	<20	04C+15.0
118	38	<20	08H+10.3
122	44	<20	07C+8.7
48	46	<20	06H+12.3
121	49	<20	06H+22.9
120	54	<20	10H-1.8
135	57	<20	10H+1.4
135	57	<20	VC1+21.2
103	65	<20	VH2+5.3
129	65	<20	05C+8.2
129	65	<20	VH2-1.3
35	73	<20	DBH+1.9
34	74	<20	DBH+1.7
36	74	<20	DBH+1.60
62	74	<20	01H+27.6
35	75	<20	DBH-1.9
35	75	<20	DBC+1.6
37	75	<20	DBH-1.7

Enclosure 4

LIST OF EDDY CURRENT INDICATIONS

San Onofre Unit 3 Steam Generator E-089

<u>Row</u>	<u>Column</u>	<u>Indication(% through-wall)</u>	<u>Location</u>
37	75	<20	DBC-1.3
39	75	<20	DBC+1.6
41	75	<20	VSM-0.5
41	75	<20	VSM
43	75	<20	DBC+1.7
36	76	<20	DBH+1.8
36	76	<20	VSM
42	76	<20	DBH+1.8
44	76	<20	DBH+1.7
46	76	<20	DBC-1.3
48	76	<20	DBC-1.9
43	77	<20	DBH+1.8
45	77	<20	DBH+1.8
45	77	<20	DBC+1.6
40	78	<20	DBH+2.0
40	78	<20	DBC-0.9
40	78	<20	DBC+1.3
42	78	<20	DBC-0.8
41	79	<20	DBC+1.6
41	79	<20	DBC-0.6
43	79	<20	VSM-0.6
49	79	<20	DBC-1.2
42	80	<20	DBH+1.8
46	80	<20	DBH+1.8

Enclosure 4

LIST OF EDP CURRENT INDICATIONS

San Onofre Unit 3 Steam Generator E-089

<u>Row</u>	<u>Column</u>	<u>Indication(% through-wall)</u>	<u>Location</u>
46	80	<20	DBC+1.5
50	80	<20	DBH-1.9
49	81	<20	DBH-1.8
44	82	<20	DBH-1.9
44	82	<20	DSH+2.0
48	82	<20	DBC-0.9
49	83	<20	DBC-1.5
113	83	<20	CSH+4.8
49	85	<20	DBC-1.4
53	85	<20	DBC-1.3
139	85	<20	O9H+18.7
46	86	<20	DBC-1.8
47	87	<20	DBC+1.8
46	88	<20	DBC-1.4
50	88	<20	DBC-1.7
47	89	<20	DBC+0.9
53	89	<20	DBH-2.2
48	90	<20	DBH+1.6
50	90	<20	DBC-1.0
49	91	<20	DBH-1.8
49	91	<20	DBC-0.7
48	92	<20	DBH-1.9
48	92	<20	DBH-1.2
52	92	<20	DBH-1.4

Enclosure 4

LIST OF EDDY CURRENT INDICATIONS

San Onofre Unit 3 Steam Generator E-089

<u>Row</u>	<u>Column</u>	<u>Indication(% through-wall)</u>	<u>Location</u>
112	92	<20	U5C+6.8
44	94	<20	DBH-1.4
50	94	<20	DBC-1.1
49	95	<20	DBH+1.9
42	96	<20	DBH+1.5
42	96	<20	DBC-1.3
44	96	<20	DBH+1.7
46	96	<20	DBH-1.7
50	96	<20	VSM-0.7
140	96	<20	02C+34.9
43	97	<20	DBC-1.3
43	97	<20	VSM+0.8
47	97	<20	DBC+1.4
55	97	<20	03H+4.0
133	97	<20	07C+6.8
42	98	<20	DBH-1.9
42	98	<20	DBH+1.9
44	98	<20	VSM+0.9
46	98	<20	DBH-1.9
48	98	<20	DBH+2.0
39	99	<20	DBH-1.7
41	99	<20	DBH+1.7
42	98	<20	DBC+1.4
41	99	<20	DBC+1.5

Enclosure 4

LIST OF EDDY CURRENT INDICATIONS

San Onofre Unit 3 Steam Generator E-089

<u>Row</u>	<u>Column</u>	<u>Indication(% through-wall)</u>	<u>Location</u>
47	99	<20	DBH-1.7
47	99	<20	DBC+1.5
93	99	<20	01H+18.5
125	99	<20	04K+26.5
36	100	<20	DBC-1.2
38	100	<20	DBC-1.3
37	101	<20	VSM+0.8
34	102	<20	DBH+1.8
34	102	<20	DBC-1.1
14	102	<20	VSM-0.6
31	105	<20	DBC-1.2
37	105	<20	VSM+0.8
129	105	<20	02H+13.4
94	106	<20	03H+29.2
136	106	<20	TSC+23.5
144	106	<20	TSC+13.4
125	107	<20	VH3+7.9
125	107	<20	VH3+13.5
125	107	<20	VSM+8.0
64	108	<20	03H+12.5
120	110	<20	06H+10.9
138	110	<20	04H+31.6
123	111	<20	09H+26.5
73	115	<20	05C+6.2

Enclosure 4

LIST OF EDDY CURRENT INDICATIONS

San Onofre Unit 3 Steam Generator E-082

<u>Row</u>	<u>Column</u>	<u>Indication(% through-wall)</u>	<u>Location</u>
124	118	<20	01C+6.6
108	128	<20	05H+20.2
46	138	<20	04C+0.0
19	139	<20	01H+15.4
9	151	<20	06H+28.8
39	155	<20	06C+36.2
20	156	<20	05C+16.6
20	156	<20	04C+3.6
20	156	<20	04C+2.6
42	164	<20	02C+26.2

Enclosure 5

LIST OF TUBES PLUGGED

San Onofre Unit 3 Steam Generator E-089

<u>Row</u>	<u>Column</u>	<u>Reason</u>
42	96	54% Indication at Location DBH-1.9
47	85	54% Indication at Location DBH+1.9
43	79	51% Indication at Location DBC+1.4
44	80	51% Indication at Location DBC+1.3
43	81	Preventive Maintenance
35	73	Preventive Maintenance
37	75	Preventive Maintenance
36	76	Preventive Maintenance
44	76	Preventive Maintenance
39	77	Preventive Maintenance
40	78	Preventive Maintenance
47	79	Preventive Maintenance
46	80	Preventive Maintenance
47	81	Preventive Maintenance
48	82	Preventive Maintenance
46	84	Preventive Maintenance
51	85	Preventive Maintenance
50	86	Preventive Maintenance
49	87	Preventive Maintenance
50	88	Preventive Maintenance
53	89	Preventive Maintenance
49	91	Preventive Maintenance
52	92	Preventive Maintenance

Enclosure 5

LIST OF TUBES PLUGGED

Sar. Onofre Unit 3 Steam Generator E-089

<u>Row</u>	<u>Column</u>	<u>Reason</u>
44	94	Preventive Maintenance
49	95	Preventive Maintenance
41	97	Preventive Maintenance
44	98	Preventive Maintenance
41	99	Preventive Maintenance
36	100	Preventive Maintenance
33	103	Preventive Maintenance
34	74	Preventive Maintenance
39	75	Preventive Maintenance
38	76	Preventive Maintenance
46	76	Preventive Maintenance
41	77	Preventive Maintenance
42	78	Preventive Maintenance
49	79	Preventive Maintenance
48	80	Preventive Maintenance
49	81	Preventive Maintenance
45	83	Preventive Maintenance
48	84	Preventive Maintenance
53	85	Preventive Maintenance
52	86	Preventive Maintenance
51	87	Preventive Maintenance
47	89	Preventive Maintenance
48	90	Preventive Maintenance

Enclosure 5

LIST OF TUBES PLUGGED

San Onofre Unit 3 Steam Generator E-089

<u>Row</u>	<u>Column</u>	<u>Reason</u>
51	91	Preventive Maintenance
45	93	Preventive Maintenance
46	94	Preventive Maintenance
43	97	Preventive Maintenance
46	98	Preventive Maintenance
43	99	Preventive Maintenance
38	100	Preventive Maintenance
32	104	Preventive Maintenance
36	74	Preventive Maintenance
41	75	Preventive Maintenance
40	76	Preventive Maintenance
48	76	Preventive Maintenance
43	77	Preventive Maintenance
44	78	Preventive Maintenance
42	80	Preventive Maintenance
50	80	Preventive Maintenance
44	82	Preventive Maintenance
47	83	Preventive Maintenance
46	86	Preventive Maintenance
54	86	Preventive Maintenance
46	88	Preventive Maintenance
49	89	Preventive Maintenance
50	90	Preventive Maintenance

Enclosure 5

LIST OF TUBES PLUGGED

San Onofre Unit 3 Steam Generator E-089

<u>Row</u>	<u>Column</u>	<u>Reason</u>
46	92	Preventive Maintenance
47	93	Preventive Maintenance
48	94	Preventive Maintenance
44	96	Preventive Maintenance
47	97	Preventive Maintenance
48	98	Preventive Maintenance
45	99	Preventive Maintenance
37	101	Preventive Maintenance
31	105	Preventive Maintenance
35	75	Preventive Maintenance
43	75	Preventive Maintenance
42	76	Preventive Maintenance
50	76	Preventive Maintenance
45	77	Preventive Maintenance
46	82	Preventive Maintenance
49	83	Preventive Maintenance
49	85	Preventive Maintenance
48	86	Preventive Maintenance
47	87	Preventive Maintenance
48	88	Preventive Maintenance
51	89	Preventive Maintenance
47	91	Preventive Maintenance
48	92	Preventive Maintenance

Enclosure 5

LIST OF TUBES PLUGGED

San Onofre Unit 3 Steam Generator E-089

<u>Row</u>	<u>Column</u>	<u>Reason</u>
49	93	Preventive Maintenance
50	94	Preventive Maintenance
46	96	Preventive Maintenance
42	98	Preventive Maintenance
39	99	Preventive Maintenance
47	99	Preventive Maintenance
34	102	Preventive Maintenance
41	79	Preventive Maintenance