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April 5, 1978

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Director, Nuclear Reactor Regulation
Att: Mr Dennis L Ziemann, Chief
Operating Reactors Branch No 2
US Nuclear Regulatory Commission
Washington, DC 20555

DOCKET 50-255 - LICENSE DPR-20 -
PALISADES PLANT - REVISION OF
STEAM GENERATOR TUBE DENT DATA

Consumers Power transmitted by letters dated March 1 and March 3, 1978, reports related to the 1978 inspection of the Palisades Plant steam generators.

An error detected in the computer program which generated listings on steam generator tube dent magnitude has resulted in a need to revise the two reports. The first report transmitted on March 1 and entitled "Report of Eddy Current Testing Data Evaluation and Tube Repairing" has two revisions - Table 4 and Attachment 3. Both revisions are attached. The second report transmitted on March 3 and entitled "Investigation for Steam Generator Support Plate Cracking at Palisades During February 1978" required changes to Tables 1 through 6. Revised tables are attached. Also, two values stated in the report change - in the first paragraph of Page 2, 1.6 mils changes to 1.4 mils and 2.0 mils changes to 1.8 mils.

The result of these revisions does not change the conclusions previously reached or impact on Consumers Power's request for Technical Specifications changes related to the Palisades Plant steam generator operating allowance.

David P Hoffman
Assistant Nuclear Licensing Administrator

CC: JGKeppler, USNRC

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1/40

Table 4

NOTE (1)	A Steam Generator		B Steam Generator	
	Hot Leg	Cold Leg	Hot Leg	Cold Leg
Number of Tubes Examined	1865	114	1430	75
Number of Tubes Dented	908	34	1075	65
Number of Points Included in Calculation of Mean Dent Magnitude (2)	5798	293	6350	231
Mean Dent Magnitude (3)	1.1	1.4	0.8	1.8
Standard Deviation of Mean Dent Magnitude	1.1	1.7	0.9	2.2
Number of Points Included in Calculation of Mean Dent Increase from 1976 to 1978 (4)	6956	163	6155	31
Mean Dent Magnitude Increase from 1976 to 1978 (3)	0.2	0.5	0.2	1.4
Standard Deviation of Mean Dent Magnitude Increase	1.0	1.7	0.9	1.8

NOTES: (1) Dents measured as amount of reduction in tube radius in mils.

(2) Undented locations not considered.

(3) Saturated dent signals assumed to be 5.8 mils.

(4) The sample size is limited to those locations evaluated as greater than zero in 1976 or 1978.

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ATTACHMENT 3

RESULTS OF EDDY CURRENT INSPECTION OF DENT DEPTH AND DISTRIBUTION.

Symbol Definitions

- O - Indicates No Dent
- X - Indicates Saturated Dent Indication (Assume 5.8 Mils.)
- N - Indicates No Support Plate Intersection

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TABLE 1
PALISADES A GENERATOR MAGNITUDE DISTRIBUTION FOR 1/78 - HOT LEG
V 1

FEB 20 1978

DENT MAGNITUDE (Mils)	TS	1	2	3	4	5	6	7	1E	8	2E	9	10	11	12	13	14	HL	CL	TOTAL
0	0	9	889	265	130	615	616	788	1839	23	1834	20	521	301	252	12	6	0	0	8120
<=.2	0	3	67	4	1	31	26	24	0	1	0	0	10	5	2	1	0	0	0	175
<=.4	0	2	277	79	68	144	133	133	0	0	0	5	85	61	28	1	0	0	0	1016
<=.5	0	1	206	89	47	88	60	72	1	1	3	3	80	56	37	2	0	0	0	746
<=.7	0	1	206	160	129	122	76	54	4	0	4	3	126	113	57	6	3	0	0	1064
<=.8	0	1	78	68	57	39	13	18	0	0	2	3	71	50	34	3	2	0	0	439
<=.9	0	1	48	107	95	48	24	23	0	0	4	8	82	78	47	4	1	0	0	570
<=1.1	0	0	30	35	49	13	5	8	1	0	0	1	55	34	29	2	4	0	0	266
<=1.2	0	0	15	75	72	22	6	7	1	0	0	1	49	43	56	2	2	0	0	351
<=1.3	0	1	3	35	36	12	2	8	0	0	1	0	33	21	20	1	0	0	0	173
<=1.5	0	1	5	53	77	12	6	5	0	0	0	5	31	22	36	3	0	0	0	256
<=1.7	0	0	1	15	18	1	0	1	0	0	0	0	13	9	17	0	0	0	0	75
<=1.9	0	0	1	37	36	6	0	2	1	0	0	0	21	26	27	1	0	0	0	158
<=2.2	0	0	0	12	18	2	0	1	0	0	0	0	6	7	9	0	0	0	0	55
<=2.5	0	0	1	22	34	2	1	1	0	0	0	0	8	10	12	1	2	0	0	94
<=2.7	0	0	0	14	14	3	0	1	0	0	0	0	6	5	16	0	1	0	0	60
<=3.0	0	0	0	25	19	2	0	2	0	0	0	1	2	6	6	1	1	0	0	65
X *	0	0	1	68	71	3	0	15	1	0	0	1	13	24	30	6	2	0	0	235
TOTAL	0	11	939	898	841	550	352	375	9	2	14	31	691	570	463	34	18	0	0	5798
AVERAGE	-	0.6	0.6	1.4	1.6	0.7	0.6	0.8	1.5	0.4	0.8	1.1	1.0	1.2	1.5	1.9	1.9	-	-	1.1
NO SUPPORT	0	1831	23	684	880	682	883	684	3	1823	3	1800	638	979	1137	1806	1828	0	0	15684

Mean Dent Magnitude 1.1 mils

Standard Deviation 1.1 mils

* Assume 5.8 mils

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TABLE 2
PALISADES A GENERATOR MAGNITUDE DISTRIBUTION FOR 1/78 - COLD LEG

Rev 1

DENT MAGNITUDE (Mils)	TS	1	2	3	4	5	6	7	1E	8	2E	9	10	11	12	13	14	HL	CL	TOTAL
0	0	0	20	5	32	35	59	43	104	0	104	2	42	34	13	1	0	0	0	494
<=.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<=.2	0	0	6	2	2	2	4	0	0	0	0	0	1	5	0	0	0	0	0	22
<=.4	0	0	6	2	6	0	2	0	0	0	1	2	1	4	0	0	0	0	0	24
<=.5	0	0	13	7	14	2	7	1	2	0	0	1	3	8	0	0	0	0	0	58
<=.6	0	0	5	4	2	0	0	2	1	0	1	2	2	1	0	0	0	0	0	20
<=.7	0	0	9	4	6	4	1	0	1	0	0	0	2	1	0	0	0	0	0	28
<=.8	0	0	5	3	1	0	2	0	1	0	0	0	1	1	0	0	0	0	0	14
<=.9	0	0	5	4	4	1	4	0	0	0	0	1	1	5	1	0	0	0	0	26
<=1.0	0	0	1	1	1	1	1	0	0	0	0	0	1	0	0	0	0	0	0	6
<=1.1	0	0	8	4	3	0	3	1	1	0	1	0	0	1	0	0	0	0	0	22
<=1.2	0	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	4
<=1.3	0	0	5	1	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	8
<=1.4	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2
<=1.5	0	0	4	1	2	0	1	0	0	0	0	0	0	1	0	0	0	0	0	9
<=1.6	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
<=1.7	0	0	5	1	2	0	1	0	0	0	2	0	0	1	0	0	0	0	0	12
X *	0	0	11	10	10	2	0	0	0	0	1	0	0	1	0	0	0	0	0	35
TOTAL	0	0	87	45	55	12	28	4	6	0	6	7	12	30	1	0	0	0	0	293
AVERAGE	-	-	1.5	1.9	1.7	1.5	.8	.7	.7	-	1.9	0.7	0.6	0.8	0.9	-	-	-	-	1.4
NO SUPPORT	0	108	3	60	22	62	22	63	0	108	0	99	55	46	94	107	108	0	0	957

Mean Dent Magnitude 1.4 mils

Standard Deviation 1.7 mils

* Assume 5.8 mils.

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TABLE 3
PALISADES B. GENERATOR DE MAGNITUDE DISTRIBUTION FOR 1/78 - HOT LEG

Rev 1

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DENT MAGNITUDE (Mils)	TS	1	2	3	4	5	6	7	1E	8	2E	9	10	11	12	13	14	HL	CL	TOTAL
0	0	4	228	72	16	246	230	213	1457	43	1454	12	362	182	149	44	8	0	0	4720
<=.2	0	12	189	23	4	162	117	146	0	6	0	3	158	95	41	7	0	0	0	963
<=.4	0	9	348	111	20	156	156	223	0	4	0	12	194	145	98	9	1	0	0	1486
<=.5	0	2	229	66	31	102	74	103	1	3	1	3	103	81	67	5	1	0	0	872
<=.7	0	6	170	94	62	86	57	89	0	1	0	2	57	63	62	3	1	0	0	753
<=.8	0	7	105	73	52	43	33	46	0	2	0	5	30	29	37	4	0	0	0	466
<=.9	0	3	55	92	61	52	28	33	0	0	1	2	34	22	30	4	0	0	0	417
<=1.1	0	2	26	59	58	27	17	22	0	0	0	1	13	11	16	2	0	0	0	254
<=1.2	0	3	26	74	74	20	8	19	0	0	1	1	11	7	27	2	1	0	0	274
<=1.3	0	4	9	55	55	9	4	16	0	0	0	0	7	7	8	1	0	0	0	175
<=1.5	0	0	7	55	45	8	10	11	0	0	0	0	3	3	10	0	0	0	0	152
<=1.7	0	0	6	38	30	4	1	3	0	0	0	0	0	3	1	0	0	0	0	86
<=1.9	0	3	4	32	43	6	2	2	0	0	0	0	1	2	5	1	1	0	0	102
<=2.2	0	0	0	11	33	1	1	3	0	0	0	0	0	2	3	0	1	0	0	55
<=2.5	0	0	2	21	30	2	2	2	0	0	0	0	0	1	1	0	0	0	0	61
<=2.7	0	0	1	16	24	0	0	0	0	0	0	0	1	2	2	0	0	0	0	46
<=3.0	0	0	1	10	24	3	1	0	0	0	0	0	2	0	1	1	0	0	0	43
X *	0	0	1	32	82	8	0	11	0	0	0	0	5	2	3	1	0	0	0	145
TOTAL	0	51	1179	862	728	689	511	729	1	16	3	29	619	475	412	40	6	0	0	6350
AVERAGE	-	0.7	0.6	1.2	1.8	0.6	0.6	0.6	0.5	0.4	0.9	0.6	0.5	0.6	0.7	0.8	1.1	-	-	0.8
NO SUPPORT	0	1407	47	518	709	519	711	511	1	1403	5	1413	473	797	893	1370	1440	0	0	12217

Mean Dent Magnitude 0.8 mils

Standard Deviation 0.9 mils

* Assume 5.8 mils

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TABLE 4
PALISADES B GENERATOR D MAGNITUDE DISTRIBUTION FOR 1/78 - COLD LEG

Rev 1

DENT MAGNITUDE (Mils)	TS	1	2	3	4	5	6	7	1E	8	2E	9	10	11	12	13	14	HL	CL	TOTAL
0	0	4	12	6	3	27	30	31	74	7	74	0	32	21	15	3	0	0	0	339
<=.1	0	1	5	0	1	1	5	0	0	0	0	4	2	2	4	0	0	0	0	25
<=.2	0	0	15	2	0	4	2	1	0	0	0	2	5	6	0	0	0	0	0	37
<=.4	0	1	8	2	0	1	2	0	0	0	0	0	0	1	1	0	0	0	0	16
<=.5	0	1	8	1	1	1	4	0	0	0	0	0	1	1	1	1	0	0	0	20
<=.6	0	0	4	0	0	0	1	0	0	0	0	1	2	0	0	0	0	0	0	8
<=.7	0	1	5	1	4	0	3	1	0	0	0	0	0	2	0	0	0	0	0	17
<=.8	0	0	1	0	1	2	0	0	0	0	0	0	0	0	1	0	0	0	0	5
<=.9	0	0	4	1	3	2	1	2	0	0	0	0	0	0	0	0	0	0	0	13
<=1.0	0	0	1	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	3
<=1.1	0	0	1	1	1	1	0	1	0	0	0	0	0	1	1	0	0	0	0	7
<=1.2	0	0	2	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	4
<=1.3	0	0	1	3	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	6
<=1.4	0	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0	3
<=1.5	0	0	0	0	1	2	1	1	0	0	0	0	0	0	0	0	0	0	0	5
<=1.6	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
<=1.7	0	0	2	3	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	7
X *	0	0	3	19	28	0	0	1	0	0	0	0	0	0	2	0	0	0	0	53
TOTAL	0	4	60	35	45	14	20	9	0	0	0	7	11	14	11	1	0	0	0	231
AVERAGE	-	0.4	0.8	3.6	4.0	0.7	0.5	1.5	-	-	-	0.2	0.4	0.4	1.4	0.5	-	-	-	1.8
NO SUPPORT	0	67	3	34	27	34	25	35	1	68	1	68	32	40	49	71	75	0	0	630

Mean Dent Magnitude 1.8 mils

Standard Deviation 2.2 mils

* Assume 5.8 mils.

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TABLE 1
PALISADES A GENERATOR MAGNITUDE DISTRIBUTION FOR 1/78 - HOT LEG
1

FEB 20 1978

DENT MAGNITUDE (Mils)	TS	1	2	3	4	5	6	7	1E	8	2E	9	10	11	12	13	14	HL	CL	TOTAL
0	0	9	889	265	130	615	616	788	1839	23	1834	20	521	301	252	12	6	0	0	8120
<=.2	0	3	67	4	1	31	26	24	0	1	0	0	10	5	2	1	0	0	0	175
<=.4	0	2	277	79	68	144	133	133	0	0	0	5	85	61	28	1	0	0	0	1016
<=.5	0	1	206	89	47	88	60	72	1	1	3	3	80	56	37	2	0	0	0	746
<=.7	0	1	206	160	129	122	76	54	4	0	4	3	126	113	57	6	3	0	0	1064
<=.8	0	1	78	68	57	39	13	18	0	0	2	3	71	50	34	3	2	0	0	439
<=.9	0	1	48	107	95	48	24	23	0	0	4	8	82	78	47	4	1	0	0	570
<=1.1	0	0	30	35	49	13	5	8	1	0	0	1	55	34	29	2	4	0	0	266
<=1.2	0	0	15	75	72	22	6	7	1	0	0	1	49	43	56	2	2	0	0	351
<=1.3	0	1	3	35	36	12	2	8	0	0	1	0	33	21	20	1	0	0	0	173
<=1.5	0	1	5	53	77	12	6	5	0	0	0	5	31	22	36	3	0	0	0	256
<=1.7	0	0	1	15	18	1	0	1	0	0	0	0	13	9	17	0	0	0	0	75
<=1.9	0	0	1	37	36	6	0	2	1	0	0	0	21	26	27	1	0	0	0	158
<=2.2	0	0	0	12	18	2	0	1	0	0	0	0	6	7	9	0	0	0	0	55
<=2.5	0	0	1	22	34	2	1	1	0	0	0	0	8	10	12	1	2	0	0	94
<=2.7	0	0	0	14	14	3	0	1	0	0	0	0	6	5	16	0	1	0	0	60
<=3.0	0	0	0	25	19	2	0	2	0	0	0	1	2	6	6	1	1	0	0	65
X *	0	0	1	68	71	3	0	15	1	0	0	1	13	24	30	6	2	0	0	235
TOTAL	0	11	939	898	841	550	352	375	9	2	14	31	691	570	463	34	18	0	0	5798
AVERAGE	-	0.6	0.6	1.4	1.6	0.7	0.6	0.8	1.5	0.4	0.8	1.1	1.0	1.2	1.5	1.9	1.9	-	-	1.1
NO SUPPORT	0	1831	23	684	880	682	883	684	3	1823	3	1800	638	979	1137	1806	1828	0	0	15684

Mean Dent Magnitude 1.1 mils

Standard Deviation 1.1 mils

* Assume 5.8 mils

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TABLE 2
PALISADES A GENERATOR MAGNITUDE DISTRIBUTION FOR 1/78 - COLD LEG
Rev 1

DENT MAGNITUDE (Mils)	TS	1	2	3	4	5	6	7	1E	8	2E	9	10	11	12	13	14	HL	CL	TOTAL
0	0	0	20	5	32	35	59	43	104	0	104	2	42	34	13	1	0	0	0	494
<=.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<=.2	0	0	6	2	2	2	4	0	0	0	0	0	1	5	0	0	0	0	0	22
<=.4	0	0	6	2	6	0	2	0	0	0	1	2	1	4	0	0	0	0	0	24
<=.5	0	0	13	7	14	2	7	1	2	0	0	1	3	8	0	0	0	0	0	58
<=.6	0	0	5	4	2	0	0	2	1	0	1	2	2	1	0	0	0	0	0	20
<=.7	0	0	9	4	6	4	1	0	1	0	0	0	2	1	0	0	0	0	0	28
<=.8	0	0	5	3	1	0	2	0	1	0	0	0	1	1	0	0	0	0	0	14
<=.9	0	0	5	4	4	1	4	0	0	0	0	1	1	5	1	0	0	0	0	26
<=1.0	0	0	1	1	1	1	1	0	0	0	0	0	1	0	0	0	0	0	0	6
<=1.1	0	0	8	4	3	0	3	1	1	0	1	0	0	1	0	0	0	0	0	22
<=1.2	0	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	4
<=1.3	0	0	5	1	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	8
<=1.4	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2
<=1.5	0	0	4	1	2	0	1	0	0	0	0	0	0	1	0	0	0	0	0	9
<=1.6	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
<=1.7	0	0	5	1	2	0	1	0	0	0	2	0	0	1	0	0	0	0	0	12
X *	0	0	11	10	10	2	0	0	0	0	1	0	0	1	0	0	0	0	0	35
TOTAL	0	0	87	45	55	12	28	4	6	0	6	7	12	30	1	0	0	0	0	293
AVERAGE	-	-	1.5	1.9	1.7	1.5	.8	.7	.7	-	1.9	0.7	0.6	0.8	0.9	-	-	-	-	1.4
NO SUPPORT	0	108	3	60	22	62	22	63	0	108	0	99	55	46	94	107	108	0	0	957

Mean Dent Magnitude 1.4 mils

Standard Deviation 1.7 mils

* Assume 5.8 mils.

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TABLE 3
PALISADES B GENERATOR DE MAGNITUDE DISTRIBUTION FOR 1/78 - HOT LEG

Rev 1

FEB 20 1978

DENT MAGNITUDE (Mils)	TS	1	2	3	4	5	6	7	1E	8	2E	9	10	11	12	13	14	HL	CL	TOTAL
0	0	4	228	72	16	246	230	213	1457	43	1454	12	362	182	149	44	8	0	0	4720
<=.2	0	12	189	23	4	162	117	146	0	6	0	3	158	95	41	7	0	0	0	963
<=.4	0	9	348	111	20	156	156	223	0	4	0	12	194	145	98	9	1	0	0	1486
<=.5	0	2	229	66	31	102	74	103	1	3	1	3	103	81	67	5	1	0	0	872
<=.7	0	6	170	94	62	86	57	89	0	1	0	2	57	63	62	3	1	0	0	753
<=.8	0	7	105	73	52	43	33	46	0	2	0	5	30	29	37	4	0	0	0	466
<=.9	0	3	55	92	61	52	28	33	0	0	1	2	34	22	30	4	0	0	0	417
<=1.1	0	2	26	59	58	27	17	22	0	0	0	1	13	11	16	2	0	0	0	254
<=1.2	0	3	26	74	74	20	8	19	0	0	1	1	11	7	27	2	1	0	0	274
<=1.3	0	4	9	55	55	9	4	16	0	0	0	0	7	7	8	1	0	0	0	175
<=1.5	0	0	7	55	45	8	10	11	0	0	0	0	3	3	10	0	0	0	0	152
<=1.7	0	0	6	38	30	4	1	3	0	0	0	0	0	3	1	0	0	0	0	86
<=1.9	0	3	4	32	43	6	2	2	0	0	0	0	1	2	5	1	1	0	0	102
<=2.2	0	0	0	11	33	1	1	3	0	0	0	0	0	2	3	0	1	0	0	55
<=2.5	0	0	2	21	30	2	2	2	0	0	0	0	0	1	1	0	0	0	0	61
<=2.7	0	0	1	16	24	0	0	0	0	0	0	0	1	2	2	0	0	0	0	46
<=3.0	0	0	1	10	24	3	1	0	0	0	0	0	2	0	1	1	0	0	0	43
X *	0	0	1	32	82	8	0	11	0	0	0	0	5	2	3	1	0	0	0	145
TOTAL	0	51	1179	862	728	689	511	729	1	16	3	29	619	475	412	40	6	0	0	6350
AVERAGE	-	0.7	0.6	1.2	1.8	0.6	0.6	0.6	0.5	0.4	0.9	0.6	0.5	0.6	0.7	0.8	1.1	-	-	0.8
NO SUPPORT	0	1407	47	518	709	519	711	511	1	1403	5	1413	473	797	893	1370	1440	0	0	12217

Mean Dent Magnitude 0.8 mils

Standard Deviation 0.9 mils

* Assume 5.8 mils

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April 5, 1978

TABLE 4
PALISADES B GENERATOR MAGNITUDE DISTRIBUTION FOR 1/78 - COLD LEG

Rev 1

DENT MAGNITUDE (Mils)	TS	1	2	3	4	5	6	7	1E	8	2E	9	10	11	12	13	14	HL	CL	TOTAL
0	0	4	12	6	3	27	30	31	74	7	74	0	32	21	15	3	0	0	0	339
<=.1	0	1	5	0	1	1	5	0	0	0	0	4	2	2	4	0	0	0	0	25
<=.2	0	0	15	2	0	4	2	1	0	0	0	2	5	6	0	0	0	0	0	37
<=.4	0	1	8	2	0	1	2	0	0	0	0	0	0	1	1	0	0	0	0	16
<=.5	0	1	8	1	1	1	4	0	0	0	0	0	1	1	1	1	0	0	0	20
<=.6	0	0	4	0	0	0	1	0	0	0	0	1	2	0	0	0	0	0	0	8
<=.7	0	1	5	1	4	0	3	1	0	0	0	0	0	2	0	0	0	0	0	17
<=.8	0	0	1	0	1	2	0	0	0	0	0	0	0	0	1	0	0	0	0	5
<=.9	0	0	4	1	3	2	1	2	0	0	0	0	0	0	0	0	0	0	0	13
<=1.0	0	0	1	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	3
<=1.1	0	0	1	1	1	1	0	1	0	0	0	0	0	1	1	0	0	0	0	7
<=1.2	0	0	2	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	4
<=1.3	0	0	1	3	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	6
<=1.4	0	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0	3
<=1.5	0	0	0	1	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	5
<=1.6	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
<=1.7	0	0	2	3	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	7
X *	0	0	3	19	28	0	0	1	0	0	0	0	0	0	2	0	0	0	0	53
TOTAL	0	4	60	35	45	14	20	9	0	0	0	7	11	14	11	1	0	0	0	231
AVERAGE	-	0.4	0.8	3.6	4.0	0.7	0.5	1.5	-	-	-	0.2	0.4	0.4	1.4	0.5	-	-	-	1.8
NO SUPPORT	0	67	3	34	27	34	25	35	1	68	1	68	32	40	49	71	75	0	0	630

Mean Dent Magnitude 1.8 mils

Standard Deviation 2.2 mils

* Assume 5.8 mils.

April 5, 1978

TABLE 5

Rev 1

STEAM GENERATOR A

Dent Growth Rate

HOT LEG:

Sample Size: 6956

Mean Growth Rate 0.2 mils for cycle

Standard Deviation 1.0 mils

As above (positive growth only) 0.9 mils for cycle

Standard Deviation 1.2 mils

COLD LEG:

Sample Size: 163

Mean Growth Rate 0.5 mils for cycle

Standard Deviation 1.7 mils

As above (positive growth only) 1.8 mils for cycle

Standard Deviation 1.9 mils

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TABLE 6

Rev 1

STEAM GENERATOR B

Dent Growth Rate

HOT LEG:

Sample Size: 6155

Mean Growth Rate 0.2 mils for cycle

Standard Deviation 0.9 mils

As above (positive growth only) 0.7 mils for cycle

Standard Deviation 1.0 mils

COLD LEG:

Sample Size: 31

Mean Growth Rate 1.4 mils for cycle

Standard Deviation 1.8 mils

As above (positive growth only) 1.4 mils for cycle

Standard Deviation 1.8 mils

April 5, 1978