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AUTH.NAME AUTHOR AFFILIATION
KOBER,R.W. Rochester Gas & Electric Corp.
RECIP.NAME RECIPIENT AFFILIATION
MURLEY,T.E. Region 1, Office of Director

SUBJECT: Submits 1985 steam generator inservice insp results & corrective actions.Two tubes in Steam Generator A had tube sheet crevice indications in inlet.Summary rept will be submitted within 12 months.

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Rochester 05000244

Office of Director

Review of operator inservice insp results x corrective action tubes in steam Generator A had tube crevice indications in inlet. Summary rept will be submitted within 12 months.

Inservice Inspection/Testing

05000244

ROCHESTER GAS AND ELECTRIC CORPORATION • 89 EAST AVENUE, ROCHESTER, N.Y. 14649-0001

ROGER W. KOBER
VICE PRESIDENT
ELECTRIC & STEAM PRODUCTION

TELEPHONE
AREA CODE 716 546-2700

March 27, 1985

Dr. Thomas E. Murley
Regional Administrator
US Nuclear Regulatory Commission
Region I
631 Park Avenue
King of Prussia, PA 19406

Subject: 1985 Steam Generator Inservice Inspection Results and Corrective Action
R.E. Ginna Nuclear Power Plant
Docket No. 50-244

Dear Dr. Murley:

In accordance with Section 6.9.3.4 of the Ginna Station Technical Specifications and Appendix B, Paragraph 5.7.2, of the Ginna Station Quality Assurance Manual, we are notifying you of your 1985 Steam Generator Inservice Inspection Results and Corrective Actions. A more complete summary report will be developed and sent to you within the next twelve months. These two reports fulfill the specific steam generator reporting requirements and no other reports will be submitted under 10CFR50.73.

A planned multifrequency examination was conducted on the A and B Steam Generators during March 8-22, 1985 during Ginna's Refueling and Maintenance Outage. This examination, for both steam generators, consisted of examining all the tubes in both the inlets and outlets to at least the first tube support plate with approximately 25 percent of the tubes being examined for their full length.

The results of these examinations are tabulated in Attachments 1 through 4, which represent the list of tubes with a greater than 20 percent indications including crevice indications. Attachment 5 provides the nomenclature for understanding Attachments 1-4. In summary, the A Steam Generator had two (2) tubes that were found to have tube sheet crevice indications in the inlet and one (1) tube had an outside diameter defect above the plugging limit in the U-bend area. The B Steam Generator had sixty nine (69) tube sheet crevice indications in the inlet and one (1) tube in the outlet, with an outside diameter defect at the second tube support plate, which was above the plugging limit.

As part of our evaluation of this year's results, a review of last year's examination data was performed for each crevice corrosion indication. Eighteen (18) of the seventy one (71) indications, including both steam generators, were identified during this review that were present last year. The reason these indications were not identified last year is that their signal amplitude was inadequate to make a positive interpretation of an actual signal. However, after knowing where the indication was found during this examination because of greater signal amplitude due to growth, a positive identification could be made from last year's examination data.

DATE March 27, 1985
TO Dr. Thomas E. Murley

The cause of the inlet tube sheet crevice corrosion indications is intergranular attack and stress corrosion cracking of the mil-annealed Inconel 600. This form of corrosion is the result of the tube sheet crevices having an alkaline environment. This crevice environment has developed over the years as deposits and active species like sodium and phosphate, have reacted, changing a neutral or inhibited crevice into the aggressive environment that presently exist. Tube sheet crevice flushing with boric acid is being performed to alter this crevice environment.

The U-bend indication in the A Steam Generator was probably a manufacturing associated defect in a tube which had never been examined at the U-bend until this year. The defect at the second support plate in the B Steam Generator outlet is wastage, most probably associated with acid phosphate or sulphate attack which occured a number of years ago, prior to switching to AVT.

The corrective action for defective tubes identified during this outage was either sleeving or plugging. Sleeving was accomplished utilizing brazed or explosively welded tubesheet sleeves. Plugging was accomplished with an explosively welded plug or a mechanically rolled plug which is removable for future tube recovery by sleeving. The A Steam Generator was repaired by use of two tubesheet sleeves and one explosive plug. Repairs for the tubes in the B Steam Generator were accomplished as follows:

10 Tubes	36" Brazed Sleeves
56 Tubes	20.75" Tubesheet Sleeves
3 Tubes	Rolled Plugs
1 Tube	Explosively Plugged

Additionally, one tube in the A Steam Generator, R30C59, that was plugged in 1978, was found not to have a plug in its outlet. Apparently there had been a tube sheet marking error when this tube was plugged because the tube next to it R30C60 was plugged in the outlet and not the inlet. This had not been seen before this year because a complete outlet examination was not performed in the interim. This tube had been plugged in 1978 because the Intercontrol Interpreters had called an internal diameter defect greater than 40 percent through-wall. The ZETEC Interpreters had ignored the indication as a permability variation. At that time, a conservative approach was taken and the tube was removed from service. However, current data interpretation would now call this indication a permability variation and leave it in service. Therefore, this tube not being plugged on both ends was not a primary system integrity issue. Because this tube (R30C59) and tube (R30C60) had each been explosively plugged at one end, the open end on both tubes was plugged to eliminate any future concern for the integrity of these tubes.

A complete examination summary report similar to the report sent to you on March 6, 1985 will be prepared and sent to you within the next twelve months.

Sincerely,

Roger W. Kober

Roger W. Kober

xc: Director, Inspection and Enforcement

ATTACHMENT 1

PLANT	UNIT#	S/G	LEG	REEL	TO	REEL	DATE
GINNA	1	A	HOT	1		4	03/08/85

LIST OF >20% INDICATIONS A S/G INLET

SG	ROW	COL	VOLTS	DEG	%	CH#	LOCATION	INDEX
11	007	020	03.16	156	021	1	HTS +0002.3	00032-31
11	009	021	02.89	145	032	1	HTS +0002.1	00095-31
11	010	021	01.02	152	025	1	HTS +0002.4	00135-08
11	011	021	04.29	151	026	1	HTS +0001.8	00163-19
11	015	021	03.94	152	025	1	HTS +0001.8	00210-27
11	017	021	02.83	153	024	1	HTS +0001.1	00267-29
11	015	022	03.47	154	023	1	HTS +0002.1	00308-11
11	014	022	03.43	155	022	1	HTS +0002.3	00331-11
11	012	022	03.69	155	022	1	HTS +0002.0	00380-37
11	011	022	01.60	150	027	1	HTS +0002.6	00435-17
11	010	022	01.66	152	025	1	HTS +0003.3	00477-24
11	013	023	08.96	146	031	1	HTS +0002.9	00528-26
11	014	023	04.27	150	027	1	HTS +0003.2	00581-26
11	021	023	03.61	157	020	1	HTS +0000.2	00645-37
11	013	024	05.57	148	029	1	HTS +0002.8	00710-27
11	012	024	05.03	157	020	1	HTS +0002.9	00765-27
11	012	025	04.15	152	025	1	HTS +0002.4	00820-27
11	013	025	05.13	142	035	1	HTS +0002.5	00867-19
11	014	025	08.37	149	028	1	HTS +0003.0	00923-36
11	017	025	06.72	148	029	1	HTS +0002.9	00989-29
11	023	026	02.07	155	022	1	HTS +0001.2	01043-24
11	021	026	03.34	154	023	1	HTS +0002.4	01081-13
			02.78	144	033	1	HTS +0001.6	01102-07
11	009	026	04.08	154	023	1	HTS +0001.1	01121-11
11	017	027	03.29	151	026	1	HTS +0002.4	01166-33
			04.41	155	022	1	HTS +0004.4	01233-33
11	018	027	06.87	148	029	1	HTS +0002.7	01285-18
11	024	028	05.20	157	020	1	HTS +0001.2	01325-21
11	023	028	03.27	153	024	1	HTS +0002.4	01368-21
11	015	029	04.17	153	024	1	HTS +0003.0	01408-18
11	024	030	04.68	152	025	1	HTS +0001.9	01466-39
11	023	030	04.27	148	029	1	HTS +0001.3	01526-20
11	023	031	06.23	146	031	1	HTS +0001.2	01567-20
			04.83	149	028	1	HTS +0002.4	01608-20
11	024	031	04.89	151	026	1	HTS +0001.5	01649-20
11	026	032	04.27	155	022	1	HTS +0000.7	01688-18
11	024	032	07.51	152	025	1	HTS +0001.5	01732-25
11	023	032	06.24	147	030	1	HTS +0000.0	01783-25
11	022	032	09.32	147	030	1	HTS +0001.7	01834-25
11	020	032	04.40	146	031	1	HTS +0004.5	01906-46
11	022	033	08.12	153	024	1	HTS +0001.9	01978-25
11	023	033	06.83	153	024	1	HTS +0001.9	02029-25
11	025	034	07.07	150	027	1	HTS +0001.9	02089-34
11	023	034	03.19	147	030	1	HTS +0002.2	02166-42
11	021	035	04.75	157	020	1	HTS +0002.6	02231-22

 LIST OF DATA STORED ON DISK

ATTACHMENT 1

PLANT	UNIT#	S/G	LEG	REEL	TO	REEL	DATE
GINNA	1	A	HOT	4		5	03/08/85

SG	ROW	COL	VOLTS	DEG	%	CH#	LOCATION			INDEX
11	023	035	04.68	156	021	1	HTS	+0002.2		00017-16
11	025	035	04.12	149	028	1	HTS	+0001.4		00050-16
11	026	035	04.12	156	021	1	HTS	+0001.6		00095-28
11	027	036	04.74	153	024	1	HTS	+0001.5		00142-18
11	026	036	05.11	145	032	1	HTS	+0001.4		00179-18
11	021	037	06.17	153	024	1	HTS	+0001.6		00216-18
11	022	037	04.13	154	023	1	HTS	+0001.5		00253-18
11	025	037	05.97	157	020	1	HTS	+0001.4	(RG&E)	00290-18
			04.40	153	024	1	HTS	+0002.4		00327-18
11	026	037	05.36	153	024	1	HTS	+0002.1		00384-38
11	028	038	02.94	147	030	1	HTS	+0001.8		00438-15
11	027	038	03.22	145	032	1	HTS	+0001.7		00469-15
11	025	038	06.04	150	027	1	HTS	+0002.0		00513-28
11	024	038	04.30	151	026	1	HTS	+0001.3		00570-28
11	025	039	04.01	152	025	1	HTS	+0001.7		00627-28
11	026	039	06.84	157	020	1	HTS	+0002.4		00684-28
11	018	040	01.09	149	028	1	HTS	+0002.5	(RG&E)	00731-18
11	024	040	01.08	151	026	1	HTS	+0001.8		00756-06
11	027	040	06.54	153	024	1	HTS	+0002.2		00786-23
11	028	040	05.47	156	021	1	HTS	+0002.3		00837-27
11	028	041	05.43	150	027	1	HTS	+0002.4		00892-27
11	026	041	03.97	152	025	1	HTS	+0002.0		00934-14
11	025	041	06.31	150	027	1	HTS	+0001.8		00963-14
11	026	042	04.44	155	022	1	HTS	+0001.9		00992-14
11	029	042	05.26	156	021	1	HTS	+0001.6		01037-30
11	028	043	05.45	154	023	1	HTS	+0002.1		01087-19
11	027	043	02.89	151	026	1	HTS	+0002.2		01121-14
11	027	044	03.94	157	020	1	HTS	+0002.0		01162-26
11	029	044	05.10	145	032	1	HTS	+0001.1		01217-28
11	029	045	06.84	148	029	1	HTS	+0001.1		01257-11
11	028	045	04.19	155	022	1	HTS	+0002.0		01280-11
11	012	045	03.26	149	028	1	HTS	+0002.0		01324-32
11	025	046	05.24	151	026	1	HTS	+0001.2		01374-17
11	026	046	05.30	145	032	1	HTS	+0001.3		01409-17
11	031	047	04.44	157	020	1	HTS	+0000.9		01446-19
11	030	047	05.38	153	024	1	HTS	+0001.1		01485-19
11	026	048	05.08	155	022	1	HTS	+0000.9		01528-23
11	030	048	04.64	157	020	1	HTS	+0001.3		01586-34
11	028	049	05.77	154	023	1	HTS	+0001.5		01629-08
			06.13	151	026	1	HTS	+0000.4		01646-08
11	026	049	03.86	156	021	1	HTS	+0001.6		01663-08
11	027	051	01.75	156	021	1	HTS	+0001.8		01724-17
11	019	051	05.11	153	024	1	HTS	+0001.7		01759-17
11	012	072	02.85	157	020	1	HTS	+0001.5		00033-32
11	021	072	01.33	042	099	1	HTS	-0017.3		00077-11
11	012	073	06.61	154	023	1	HTS	+0000.9		00113-24
11	008	074	03.49	152	025	1	HTS	+0001.1		00161-23
11	021	040	00.78	094	072	1	HTS	-0017.3		00201-05

LIST OF DATA STORED ON DISK

ATTACHMENT 1

PLANT	UNIT#	S/G	LEG	REEL	TO	REEL	DATE
GINNA STATION	1	A	INLET	7		8	03/11/85

SG	ROW	COL	VOLTS	DEG	%	CH#	LOCATION	INDEX
11	013	052	03.08	154	023	1	HTS +0001.8	00021-20
11	029	053	03.08	155	022	1	HTS +0000.9	00059-17
11	019	053	01.72	154	023	1	HTS +0001.5	00091-14
11	017	054	01.97	152	025	1	HTS +0002.6	00143-37
11	019	058	05.42	157	020	1	HTS +0001.7	00220-39
11	019	060	06.17	156	021	1	HTS +0002.6	00300-40
11	021	061	02.19	154	023	1	HTS +0001.7	00351-10
11	020	061	03.57	157	020	1	HTS +0001.9	00386-24
11	019	061	03.83	154	023	1	HTS +0001.6	00435-24
11	017	061	03.73	155	022	1	HTS +0002.1	00485-25
11	016	061	03.20	156	021	1	HTS +0001.9	00536-25
11	015	062	04.36	157	020	1	HTS +0002.0	00587-25
11	019	062	04.25	157	020	1	HTS +0001.9	00638-25
11	020	062	02.78	156	021	1	HTS +0001.5	00689-25
11	019	063	05.35	154	023	1	HTS +0001.7	00740-25
11	019	064	06.54	156	021	1	HTS +0001.4	00793-27
11	013	066	05.46	156	021	1	HTS +0001.6	00837-16
11	015	066	05.03	153	024	1	HTS +0001.5	00870-16
11	018	066	04.50	151	026	1	HTS +0001.7	00903-16
11	009	067	05.95	154	023	1	HTS +0000.8	00940-20
11	016	068	04.45	153	024	1	HTS +0002.2	01005-44
11	016	069	01.89	156	021	1	HTS +0001.9	01063-13
11	012	069	04.88	155	022	1	HTS +0001.7	01090-13
11	009	069	02.53	147	030	1	HTS +0001.3	01112-08
11	009	070	04.34	155	022	1	HTS +0001.7	01138-17

Gary L. Henry 3/23/85
GARY L. HENRY DATE
BABCOCK & WILCOX LEVEL II

Timothy F. Snell 3-23-85
TIMOTHY F. SNELL DATE
RG&E LEVEL II

Albert E. Curtis III 3/23/85
ALBERT E. CURTIS III DATE
MANAGER, MATERIALS ENGINEERING
LEVEL III EXAMINER

 LIST OF DATA STORED ON DISK

ATTACHMENT 2

PLANT	UNIT#	S/G	LEG	REEL	TO	REEL	DATE
GINNA STATION	1	A	OUTLET	14		18	03/17/85

LIST OF >20% INDICATIONS A S/G OUTLET

SG	ROW	COL	VOLTS	DEG	%	CH#	LOCATION		INDEX
12	021	007	00.96	142	035	1	#6 TSP C+0049.6		00220-13
12	022	007	02.48	133	043	1	#6 TSP C+0038.2		00254-20
12	020	039	03.40	149	028	1	CTS +0002.5		00025-24
12	021	039	03.79	152	025	1	CTS +0002.2		00074-24
12	021	040	03.68	154	023	1	CTS +0002.1		00124-25
12	020	045	07.18	008	023	5	CTS -0016.4	ID	00018-17
12	021	045	12.05	010	025	1	CTS -0016.4	ID	00053-17
12	022	045	12.84	010	029	5	CTS -0016.5	ID	00088-17
12	029	045	05.13	009	026	5	CTS -0001.8	ID	00122-05
12	020	046	14.93	008	023	5	CTS -0016.3	ID	00152-24

Gary L Henry 3/23/85

GARY L. HENRY DATE
BABCOCK & WILCOX LEVEL II

Timothy F Snell 3-23-85

TIMOTHY F. SNELL DATE
RG&E LEVEL II

Albert E. Curtis III 3/23/85

ALBERT E. CURTIS III DATE
MANAGER, MATERIALS ENGINEERING
LEVEL III EXAMINER

 LIST OF DATA STORED ON DISK

ATTACHMENT 3

PLANT	UNIT#	S/G	LEG	REEL	TO	REEL	DATE
GINNA STATION	1	B	HOT				03/23/85

SG	ROW	COL	VOLTS	DEG	%	CH#	LOCATION		INDEX
							LIST OF CREVICE AND >20% TWD INDICATIONS		
21	9	5	3.27	69	85	1	HTS - 18.3		16-15
21	9	6	1.91	73	83	1	HTS - 17.8		44-12
21	4	9	1.57	169	<20	1	HTS - 17.4		
21	8	12	1.37	139	33	1	HTS - 17.9		77-20
21	15	16	2.12	77	83	1	HTS - 18.5		149-10
21	10	18	5.36	149	25	1	HTS + 1.0		
21	29	19	2.30	95	68	1	HTS - 15.4		177-17
21	13	24	7.97	153	23	1	HTS + 1.2		218-23
21	17	25	10.43	150	26	1	HTS + 1.3		260-18
21	24	26	9.47	151	25	1	HTS + 1.2		301-22
21	19	26	9.73	147	28	1	HTS + 1.2		347-23
21	18	26	14.99	155	21	1	HTS + 1.3		394-23
21	17	26	9.65	148	27	1	HTS + 1.3		441-23
21	2	28	12.20	56	>40	M 2	HTS - 17.6		
21	19	29	10.63	156	20	1	HTS + 1.4		485-20
21	38	29	2.65	70	83	1	HTS - 18.4		520-14
21	30	32	2.05	82	76	1	HTS - 17.8		542- 7
21	18	33	1.50	155	<20	1	HTS - 13.1		569- 6
21	19	34	1.61	98	66	1	HTS - 7.8		585- 9
21	13	34	1.52	85	75	1	HTS - 6.1		609-14
21	2	34			SQR		HTS - 16.5		
21	30	35	1.98	45	97	1	HTS - 18.3		634-10
21	20	36	0.89	139	33	1	HTS - 9.1	(RG&E)	654- 9
21	34	36			SQR		HTS - 18.7		
21	41	38	4.76	62	88	1	HTS - 18.8		677-13
21	20	39	19.82	46	>40	M 2	HTS - 11.1		751-60
21	38	39	2.70	49	95	1	HTS - 18.4		830-18
21	42	40	1.34	134	40	1	HTS - 18.3		857- 8
21	16	41	1.74	57	92	1	HTS - 5.8		874- 8
			2.29	49	96	1	HTS - 9.9		891- 8
21	23	41	4.27	147	27	1	HTS + 1.5		929-29
21	24	41	4.67	153	21	1	HTS + 1.4		988-29
21	38	42	2.46	55	93	1	HTS - 18.0		1027- 9
21	21	42	10.57	54	>40	M 2	HTS - 8.7		1071-34
21	34	43			SQR		HTS - 18.3		
21	39	44	1.34	96	68	1	HTS - 17.4		1118-12
21	37	44	0.93	120	52	1	HTS - 17.2		1138- 7
			1.41	130	44	1	HTS - 17.6		1153- 7
			1.45	44	98	1	HTS - 18.4		1169- 8
21	16	45	0.91	116	55	1	HTS - 5.2	(RG&E)	1192-14
21	9	47	1.47	77	80	1	HTS - 17.8		1221-14
21	29	48	6.47	50	>40	M 2	HTS - 7.1	(RG&E)	1284-48
21	31	48			SQR		HTS - 17.3		
21	13	49	7.40	51	>40	M 2	HTS - 9.2	(RG&E)	1387-54
21	24	49	2.05	70	84	1	HTS - 17.8		1457-15

 LIST OF DATA STORED ON DISK

ATTACHMENT 3

PLANT	UNIT#	S/G	LEG	REEL	TO	REEL	DATE
GINNA STATION	1	B	HOT				03/23/85

SG	ROW	COL	VOLTS	DEG	%	CH#	LOCATION	INDEX
21	27	49			SQR		HTS - 18.1	
21	19	51	1.11	148	29	1	HTS - 15.2	1482- 9
21	30	53	1.20	112	58	1	HTS - 17.4	1509-17
21	30	54	0.74	127	47	1	HTS - 17.8	1536- 9
21	1	54	1.63	88	74	1	HTS - 18.5	1553- 7
21	21	55			SQR		HTS - 4.9	1587-26
21	23	55			SQR		HTS - 12.0 (RG&E)	1640-26
21	34	55			SQR		HTS - 17.6	1693-26
21	23	56	1.56	69	85	1	HTS - 13.4 (RG&E)	1728- 8
21	34	59	0.74	79	79	1	HTS - 17.9	1749-12
21	35	59	1.28	107	61	1	HTS - 17.9	1769- 7
21	35	60			SQR		HTS - 18.2	1790-13
21	34	61	1.80	133	41	1	HTS - 17.6	1817-13
21	35	62	7.80	84	>40	M 2	HTS - 16.9 (RG&E)	1875-44
21	33	64	2.26	72	83	1	HTS - 14.2	1948-28
21	35	66			DS	1	HTS - 18.1	2006-29
21	32	67			DS		HTS - 17.9	2065-29
21	28	68			SQR		HTS - 8.8 (RG&E)	2140-45
21	31	70	1.81	75	81	1	HTS - 16.9	2201-15
21	31	71	2.32	81	78	1	HTS - 16.8	2228-11
21	32	71	3.51	81	78	1	HTS - 18.1	2252-12
21	31	72	3.05	78	79	1	HTS - 17.6	2282-17
21	30	72	0.84	87	74	1	HTS - 17.6	2312-12
21	28	72	1.96	50	95	1	HTS - 17.7	2337-12
21	8	73	10.91	45	>40	M 2	HTS - 14.3	2374-24
21	18	74	7.75	52	>40	M 2	HTS - 17.5	2415-16
21	3	75	5.50	67	>40	M 2	HTS - 17.8	2448-16
21	19	75	6.30	71	>40	M 2	HTS - 16.3	2516-51
21	21	75			SQR		HTS - 17.8	2591-23
21	24	75	2.91	48	95	1	HTS - 17.8	2631-16
21	18	76	1.36	46	96	1	HTS - 15.6	2673-25
21	29	78	4.61	63	88	1	HTS - 18.1	2716-17
21	14	79	4.42	78	80	1	HTS - 16.6	2754-20
21	27	79	1.94	46	96	1	HTS - 18.4	2787-12
21	28	79	6.48	42	>40	M 2	HTS - 17.8	2812-12
21	7	81			SQR		HTS - 17.1	2845-20
21	19	85	2.84	43	98	1	HTS - 18.2	2886-20

T. A. Richards 3/23/85
TODD A. RICHARDS DATE
BABCOCK & WILCOX LEVEL III

Timothy F. Snell 3-23-85
TIMOTHY F. SNELL DATE
RG&E LEVEL II

Albert E. Curtis III 3/23/85
ALBERT E. CURTIS III DATE
MANAGER, MATERIALS ENGINEERING
RG&E LEVEL III EXAMINER

 LIST OF DATA STORED ON DISK

ATTACHMENT 4

PLANT	UNIT#	S/G	LEG	REEL	TO	REEL	DATE
GINNA STATION	1	B	COLD				03/23/85

LIST OF CREVICE AND >20% TWD INDICATIONS

SG	ROW	COL	VOLTS	DEG	%	CH#	LOCATION				INDEX
22	18	6	1.57	117	37	M 1	#2 TSP	C+	0.0		25-24
22	24	8	2.02	125	25	M 1	#1 TSP	C+	0.0		68-18
22	21	8	2.95	118	40	M 1	#2 TSP	C+	0.0		105-18
22	4	28	3.31	10	25	1	CTS	+	7.0	ID	280-34
22	22	26	2.71	16	<40	1	CTS	-	10.1	ID	
22	42	31	2.17	141	32	1	CTS	+	15.0		337-22

T.A. Richards 3/23/85
TODD A. RICHARDS DATE
BABCOCK & WILCOX LEVEL III

Timothy F. Snell 3-23-85
TIMOTHY F. SNELL DATE
RG&E LEVEL II

Albert E. Curtis III 3/23/85
ALBERT E. CURTIS III DATE
MANAGER, MATERIALS ENGINEERING
LEVEL III EXAMINER

 LIST OF DATA STORED ON DISK

ATTACHMENT 5

List of > 20% Indications and Crevice Indication Nomenclature

Top of List Information

SG - Steam Generator and Leg (ie: 1 = A, 2 = B and 1 = Inlet, 2 = Outlet)

ROW - Row number from the tube identification.

COL - Column number from the tube identification.

VOLTS - Amplitude of measured indication signal.

% - Percent through wall from O.D. based on measured signal.

CH# - Channel from which indication was determined.

LOCATION - Location of indication relative to tube sheet or support plate

INDEX - Location of tube data on magnetic tape.

Information under %

<20 - Measurable indication less than 20% through wall (IGA-SCC).

>40 - Absolute indication measured from absolute mix where depth determination cannot be performed because there is not a calibration curve (IGA only).

SQR - Multiple indications interferring with a depth determination (IGA-SCC).

DS - Distorted roll transition indication that cannot be confirmed or measured.

XX - The measured percent through wall of the deepest penetration (SCC) within an IGA patch or area.

Information Under CH#

1 - Indication determined and measured with 400 KHz differential for final interpretation.

M2 - Indication determined with absolute mix, depth cannot be accurately determined, but based upon amplitude is felt to be above 40% IGA.

Information Under LOCATION

HTS - Secondary face of inlet tube sheet

TSP - Tube Support Plate

CTS - Secondary face of outlet tube sheet

-XX.X - Depth below the secondary face of the tube sheet or support plates where the indication is located.

+XX.X - Height above the secondary face of the tube sheet or support plates where the indication is located.

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