Duke Power
A Duke Energy Company

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U. S. Nuclear Regulatory Commission
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Subject: Duke Energy Corporation
Catawba Nuclear Station, Unit 1
Docket No. 50-413
Steam Generator Tube Inspection Report

Pursuant to Technical Specifications 5.6.8 a. and 5.6.8 b., please find attached the steam generator tube inspection conducted during the Unit 1 End of Cycle 12 (1EOC12) refueling outage.

The following provides the quantity of tubes inspected and tubes removed from service by plugging:

Steam Generator	Tubes Inspected Full Length	Tubes Inspected Partial Length	Tubes Removed by Plugging
A	Not examined this cycle	N/A	N/A
B	5316	0	0
C	5317	0	0
D	Not examined this cycle	N/A	N/A

Attachments 1 and 2 identify tubes with imperfections in steam generators B and C, respectively. The location and size of the imperfections are also provided.

Any questions concerning this report may be directed to Kay Nicholson at 803-831-3237.

Sincerely,

Gary R. Peterson

Attachment

xc: L. A. Reyes, Regional Administrator, Region II
C. P. Patel, NRR Project Manager
D. J. Roberts, Senior Resident Inspector

A001

Attachment #1 List of Imperfections

QUERY: QueryM1

ROW	COL	VOLTS	DEG	CHN	IND	%TW	LOCATION		EXT	EXT	PROBE	CAL#	COMMENT1	COMMENT2	LEG
11	34	8.25	188	1	DNT		FB5	+1.46	TEH	TEC	560UL	109			COLD
		2.95	157	1	DNT		FB5	+1.76	09H	09C	5202C	135			COLD
19	82	0.35	68	1	NQI		CBH	+6.59	TEH	TEC	560UL	41			COLD
32	9	0.34	101	6	ADI		06C	+5.86	TEH	TEC	560UL	95			COLD
		0.43	91	3	VOL		06C	+5.64	07C	06C	5402C	129			COLD
33	54	0.15	81	6	HNI		03H	+25.78	TEH	TEC	560UL	115			COLD
35	136	8.74	183	P 1	DNT		FB6	+2.24	TEH	TEC	560UL	67			COLD
37	24	0.36	168	1	HNI		03C	+23.51	TEH	TEC	560UL	99			COLD
40	9	0.35	98	6	ADI		04C	+8.31	TEH	TEC	560UL	95			COLD
		0.16	101	6	ADI		04C	+6.93	TEH	TEC	560UL	95			COLD
65	72	0.28	92	6	HNI		05H	+5.16	TEH	TEC	560UL	119			COLD
		0.39	97	6	HNI		05H	+30.80	TEH	TEC	560UL	119			COLD
69	70	0.22	83	6	HNI		04H	+12.63	TEH	TEC	560UL	119			COLD
		0.35	101	6	HNI		04H	+14.42	TEH	TEC	560UL	119			COLD
		0.31	106	6	HNI		04H	+16.41	TEH	TEC	560UL	119			COLD
		0.25	105	6	HNI		07H	+26.33	TEH	TEC	560UL	119			COLD
71	28	0.67	95	6	ADI		06C	+33.15	TEH	TEC	560UL	75			COLD
		0.49	94	3	VOL		06C	+32.81	07C	06C	5402C	129			COLD
71	84	0.25	91	6	ADI		03C	+15.58	TEH	TEC	560UL	31			COLD
76	53	0.31	67	6	ADI		03C	+16.08	TEH	TEC	560UL	79			COLD
76	105	0.27	76	6	HNI		FB8	+6.77	TEH	TEC	560UL	35			COLD
79	24	0.17	146	1	HNI		FB1	+10.83	TEH	TEC	560UL	71			COLD
79	76	0.36	66	6	HNI		04H	+21.86	TEH	TEC	560UL	27			COLD
80	105	0.30	80	6	HNI		07H	+35.18	TEH	TEC	560UL	37			COLD
		0.17	166	1	HNI		08H	+3.83	TEH	TEC	560UL	37			COLD
95	64	0.21	66	6	HNI		02H	+19.14	TEH	TEC	560UL	85			COLD
102	39	0.52	72	6	ADI		01H	+18.47	TEH	TEC	560UL	79			COLD
103	78	0.31	68	6	ADI		05H	+37.19	TEH	TEC	560UL	27			COLD
		0.21	270	3	VOL		05H	+37.49	05H	06H	5402C	14			HOT

Total Tubes : 19
Total Records: 29

Attachment #2 List of Imperfections

QUERY: QueryM1

ROW	COL	VOLTS	DEG	CHN	IND	%TW	LOCATION		EXT	EXT	PROBE	CAL#	COMMENT1	COMMENT2	LEG
5	132	0.67	99	6	HNI		05C	+27.11	CBC	TEC	560UL	1			COLD
19	40	0.84	73	6	HNI		07H	+22.77	TEH	TEC	560UL	73			COLD
20	131	0.42	66	1	NQI		CBC	+5.05	TEH	TEC	560UL	123			COLD
29	10	4.17	14	1	HNI		TSC	+0.94	TEH	TEC	560UL	85			COLD
44	109	12.75	181	1	DNT		08H	+12.69	TEH	TEC	560UL	135			COLD
		6.50	8	3	DNT		08H	+12.51	08H	09H	5202C	14			HOT
46	9	0.93	69	6	ADI		01C	+29.72	TEH	TEC	560UL	85			COLD
		0.50	82	6	ADI		02C	+22.20	TEH	TEC	560UL	85			COLD
63	44	0.18	0	P 2	NQI		FB4	-1.62	TEH	TEC	560UL	75	WAR		COLD
		0.11	0	P 2	TWD	4	FB4	-1.68	09H	TEC	560UW	157	WAR		COLD
		0.15	0	P 3	TWD	5	FB4	-2.06	FB4	FB4	5202C	12	WAR		HOT
67	88	1.01	95	6	HNI		07C	+29.62	TEH	TEC	560UL	143			COLD
		0.96	96	6	HNI		07C	+24.84	TEH	TEC	560UL	143			COLD
72	61	0.19	113	P 1	NQI		FB5	+1.69	TEH	TEC	560UL	31	WAR		COLD
		0.13	0	P 2	TWD	5	FB5	+1.69	09H	TEC	560UW	157	WAR		COLD
		0.28	0	P 3	TWD	5	FB5	+1.80	FB5	FB5	5202C	169	WAR		COLD
74	87	0.22	99	P 1	NQI		FB4	-1.61	TEH	TEC	560UL	109	WAR		COLD
		0.24	0	P 2	TWD	10	FB4	-1.60	09H	TEC	560UW	157	WAR		COLD
		0.23	0	P 3	TWD	8	FB4	-1.56	FB4	FB4	5202C	12	WAR		HOT
75	76	0.37	156	P 1	NQI		FB5	+1.07	TEH	TEC	560UL	115	WAR		COLD
		0.21	0	P 2	TWD	9	FB5	+1.07	09H	TEC	560UW	157	WAR		COLD
		0.53	0	P 3	TWD	11	FB5	+1.15	FB5	FB5	5202C	167	WAR		COLD
76	61	0.26	110	P 1	NQI		FB5	+1.45	TEH	TEC	560UL	31	WAR		COLD
		0.27	0	P 2	TWD	11	FB5	+1.45	09H	TEC	560UW	157	WAR		COLD
		0.38	0	P 3	TWD	8	FB5	+1.72	FB5	FB5	5202C	169	WAR		COLD
79	62	0.23	105	P 1	NQI		FB4	-1.60	TEH	TEC	560UL	31	WAR		COLD
		0.36	0	P 2	TWD	15	FB4	-1.60	09H	TEC	560UW	157	WAR		COLD
		0.44	0	P 3	TWD	14	FB4	-1.42	FB4	FB4	5202C	12	WAR		HOT
79	66	0.20	136	P 1	NQI		FB8	+0.73	TEH	TEC	560UL	29	WAR		COLD
		0.08	0	P 2	TWD	3	FB8	+0.74	09H	TEC	560UW	157	WAR		COLD
		0.34	0	P 3	TWD	6	FB8	+0.88	FB8	CBC	5202C	169	WAR		COLD
80	81	0.16	0	P 1	NQI		FB4	-1.08	TEH	TEC	560UL	109	WAR		COLD
		0.20	0	P 2	TWD	9	FB4	-1.07	09H	TEC	560UW	157	WAR		COLD
		0.26	0	P 3	TWD	7	FB4	-1.86	FB4	FB4	5202C	12	WAR		HOT
83	76	0.26	144	P 1	NQI		FB5	-0.59	TEH	TEC	560UL	115	WAR		COLD
		0.37	0	P 2	TWD	15	FB5	-0.59	09H	TEC	560UW	157	WAR		COLD
		0.65	0	P 3	TWD	14	FB5	-0.91	FB5	FB5	5202C	167	WAR		COLD
85	64	0.19	139	P 1	NQI		FB5	-0.70	TEH	TEC	560UL	29	WAR		COLD
		0.17	0	P 2	TWD	7	FB5	-0.70	09H	TEC	560UW	157	WAR		COLD
		0.18	0	P 3	TWD	4	FB5	-0.61	FB5	FB5	5202C	169	WAR		COLD
85	76	0.47	154	P 1	NQI		FB5	-1.22	TEH	TEC	560UL	113	WAR		COLD
		0.25	0	P 2	TWD	10	FB5	-1.22	09H	TEC	560UW	157	WAR		COLD
		0.40	0	P 3	TWD	9	FB5	-1.16	FB5	FB5	5202C	167	WAR		COLD
86	61	0.22	137	P 1	NQI		FB5	-0.90	TEH	TEC	560UL	31	WAR		COLD
		0.20	0	P 2	TWD	8	FB5	-0.91	09H	TEC	560UW	157	WAR		COLD
		0.39	0	P 3	TWD	7	FB5	-1.08	FB5	FB5	5202C	169	WAR		COLD
86	77	0.16	109	P 1	NQI		FB8	+0.69	TEH	TEC	560UL	113	WAR		COLD
		0.20	0	P 2	TWD	8	FB8	+0.69	09H	TEC	560UW	157	WAR		COLD
		0.22	0	P 3	TWD	5	FB8	+0.42	FB8	FB8	5202C	167	WAR		COLD
90	87	0.36	141	P 1	NQI		FB5	+1.47	TEH	TEC	560UL	109	WAR		COLD
		0.28	0	P 2	TWD	12	FB5	+1.49	09H	TEC	560UW	157	WAR		COLD
		0.47	0	P 3	TWD	10	FB5	+1.60	FB5	FB5	5202C	167	WAR		COLD
90	115	0.25	79	6	HNI		02H	+13.13	TEH	TEC	560UL	93			COLD
91	40	1.17	14	1	HNI		02C	+4.45	TEH	TEC	560UL	51			COLD
91	62	0.16	103	P 1	NQI		FB5	+0.45	TEH	TEC	560UL	31	WAR		COLD
		0.23	0	P 2	TWD	10	FB5	+0.47	09H	TEC	560UW	157	WAR		COLD
		0.13	0	P 2	TWD	6	FB5	-0.77	09H	TEC	560UW	157	WAR		COLD
		0.21	0	P 3	TWD	4	FB5	-0.68	FB5	FB5	5202C	169	WAR		COLD
		0.31	0	P 3	TWD	7	FB5	+0.93	FB5	FB5	5202C	169	WAR		COLD
92	87	0.26	116	P 1	NQI		FB5	-1.66	TEH	TEC	560UL	111	WAR		COLD
		0.23	0	P 2	TWD	10	FB5	-1.66	09H	TEC	560UW	157	WAR		COLD
		0.41	0	P 3	TWD	9	FB5	-1.67	FB5	FB5	5202C	167	WAR		COLD
94	63	0.33	110	P 1	NQI		FB6	-1.87	TEH	TEC	560UL	31	WAR		COLD
		0.17	0	P 2	TWD	7	FB6	-1.87	09H	TEC	560UW	157	WAR		COLD
		0.23	0	P 3	TWD	5	FB6	-1.75	FB6	FB6	5202C	169	WAR		COLD
96	55	0.82	13	1	HNI		09H	+13.19	TEH	TEC	560UL	45			COLD

Attachment #2 List of Imperfections

QUERY: QueryM1

ROW	COL	VOLTS	DEG	CHN	IND	%TW	LOCATION		EXT	EXT	PROBE	CAL#	COMMENT1	COMMENT2	LEG
96	87	0.16	95	P 1	NQI		FB5	+1.66	TEH	TEC	560UL	111	WAR		COLD
		0.23	0	P 2	TWD	10	FB5	+1.67	08H	TEC	560UW	157	WAR		COLD
		0.27	0	P 3	TWD	6	FB5	+1.75	FB5	FB5	5202C	167	WAR		COLD
98	87	0.21	138	P 1	NQI		FB5	-1.71	TEH	TEC	560UL	109	WAR		COLD
		0.13	0	P 2	TWD	6	FB5	-1.46	09H	TEC	560UW	157	WAR		COLD
		0.18	0	P 3	TWD	4	FB5	-1.87	FB5	FB5	5202C	167	WAR		COLD
100	49	0.34	94	6	HNI		04H	+7.56	TEH	TEC	560UL	49			COLD
		0.92	15	1	HNI		TSH	+0.98	TEH	TEC	560UL	49			COLD
100	87	0.16	99	P 1	NQI		FB4	+1.72	TEH	TEC	560UL	111	WAR		COLD
		0.28	0	P 2	TWD	12	FB4	+1.71	09H	TEC	560UW	157	WAR		COLD
		0.25	0	P 3	TWD	8	FB4	+1.23	FB4	FB4	5202C	12	WAR		HOT
101	78	0.16	145	P 1	NQI		FB5	-0.72	TEH	TEC	560UL	113	WAR		COLD
		0.14	0	P 2	TWD	6	FB5	-0.74	09H	TEC	560UW	157	WAR		COLD
		0.20	0	P 3	TWD	4	FB5	-0.80	FB5	FB5	5202C	167	WAR		COLD
102	77	0.11	53	P 1	NQI		FB4	-0.60	TEH	TEC	560UL	113	WAR		COLD
		0.29	0	P 2	TWD	12	FB4	-0.59	09H	TEC	560UW	157	WAR		COLD
		0.32	0	P 3	TWD	10	FB4	-1.26	FB4	FB4	5202C	12	WAR		HOT
102	83	0.14	73	P 1	NQI		FB5	-1.84	TEH	TEC	560UL	111	WAR		COLD
		0.20	0	P 2	TWD	8	FB5	-1.84	09H	TEC	560UW	157	WAR		COLD
		0.26	0	P 3	TWD	6	FB5	-1.72	FB5	FB5	5202C	167	WAR		COLD
102	87	0.25	118	P 1	NQI		FB5	-1.74	TEH	TEC	560UL	109	WAR		COLD
		0.29	0	P 2	TWD	12	FB5	-1.75	09H	TEC	560UW	157	WAR		COLD
		0.47	0	P 3	TWD	10	FB5	-1.73	FB5	FB5	5202C	167	WAR		COLD
106	69	0.14	101	P 1	NQI		FB6	+1.72	TEH	TEC	560UL	25	WAR		COLD
		0.13	0	P 2	TWD	5	FB6	+1.72	09H	TEC	560UW	157	WAR		COLD
		0.24	0	P 3	TWD	8	FB6	+1.69	FB6	FB6	5202C	169	WAR		COLD
117	66	0.24	69	6	ADI		TSC	+17.54	TEH	TEC	560UL	25			COLD

Total Tubes : 37
Total Records: 93