

TS 5.6.4
TRM 6.2
TS 5.6.8



Serial: RNP-RA/02-0174

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United States Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555

H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2
DOCKET NO. 50-261/LICENSE NO. DPR-23

MONTHLY OPERATING REPORT

Ladies and Gentlemen:

In accordance with the H. B. Robinson Steam Electric Plant (HBRSEP), Unit No. 2, Technical Specifications (TS) Section 5.6.4, "Monthly Operating Reports," and HBRSEP, Unit No. 2, Technical Requirements Manual (TRM) Section 6.2, "Monthly Operating Report," Carolina Power & Light Company submits the enclosed report of operating statistics and shutdown experience for the month of October 2002.

Attachment I provides the Monthly Operating Report in accordance with TS Section 5.6.4 and TRM 6.2. Attachment II provides the Steam Generator Tube Inspection Report information required by TS Section 5.6.8.b.

If you have any questions concerning this matter, please contact me.

Sincerely,

C. T. Baucom
Supervisor – Licensing/Regulatory Programs

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Attachments

- I. Monthly Operating Report
- II. Steam Generator Tube Inspection Report

c: NRC Resident Inspector, HBRSEP
L. A. Reyes, NRC, Region II
R. Subbaratnam, NRC, NRR

MONTHLY OPERATING REPORT

DOCKET NO. 050-0261

UNIT H. B. ROBINSON STEAM ELECTRIC PLANT (HBRSEP), UNIT NO. 2

DATE 11/01/02

COMPLETED BY TOM FREEMAN

TELEPHONE (843) 857-1403

REPORTING PERIOD: OCTOBER 2002

- 1. DESIGN ELECTRICAL RATING (NET MWE): 700.0
- 2. MAX DEPENDABLE CAPACITY (NET MWE): 683.0

	THIS MONTH	YR TO DATE	CUMULATIVE
3. NUMBER OF HOURS REACTOR CRITICAL	264.00	6815.00	210622.59
4. HOURS GENERATOR ON LINE	264.00	6815.00	207333.26
5. UNIT RESERVE SHUTDOWN HOURS	0.00	0.00	23.20
6. NET ELEC. ENERGY GENERATED (MWH)	174514.00	4783565.00	135114914.00

DOCKET NO. 050-0261
 UNIT NAME HBRSEP, UNIT NO. 2
 DATE 11/01/02
 COMPLETED BY TOM FREEMAN
 TELEPHONE (843) 857-1403

REPORTING PERIOD: OCTOBER 2002

No.	Date	Type F Forced S Scheduled	Duration (Hours)	Reason ¹	Method of Shutting Down the Reactor or Reducing Power ²	Cause / Corrective Actions / Comments
02.005	10/11/02	S	481	C	1	Shutdown for Refueling Outage 21.

- ¹
 Reason:
 A-Equipment Failure (Explain)
 B-Maintenance or Test
 C-Refueling
 D-Regulatory Restriction
 E-Operator Training & License Examination
 F-Administrative
 G-Operational Error (Explain)
 H-Other (Explain)

- ²
 Method:
 1-Manual
 2-Manual Scram
 3-Automatic Scram
 4-Continuation
 5-Other (Explain)

SUMMARY: The unit was operated at or near full power until 2200 hours on October 11, 2002, when the unit power reduction was started for Refueling Outage 21. There were no challenges to the pressurizer safety valves during the month.

STEAM GENERATOR TUBE INSPECTION REPORT

This report summarizes the Steam Generator (SG) Inspection Program and the results of the examination that was performed at the H. B. Robinson Steam Electric Plant (HBRSEP), Unit No. 2, during Refueling Outage (RO) 21, as required by the HBRSEP, Unit No. 2, Technical Specifications Section 5.6.8, "Steam Generator Tube Inspection Report."

1. Number and Extent of Tubes Inspected

The SG Inspection Program included the use of multi-frequency Bobbin Coil, and Motorized Rotating Pancake Coil or Plus Point Coil (RPC) probes. RPC examinations were performed in SGs A, B, and C on approximately 20% of the inlet (hot leg) side historical manufacturing buff marks, dents, and on suspect bobbin indications (diagnostics). RPC examinations were also performed on 50% of the u-bend region of row 1 and 2. SGs A, B, and C had approximately 50% of open tubes tested with a Bobbin Coil probe, and 50% of the hot leg top-of-tubesheet (TTS) area tested with RPC probes.

SG	Inspection	Number Of Tubes
A	Cold Leg RPC Special Interest	46
A	Cold Leg Bobbin	1871
A	Hot Leg Bobbin Rows 1 and 2	93
A	Hot Leg RPC Special Interest	111
A	Hot Leg RPC Top of Tubesheet	1313
A	Hot Leg RPC Rows 1 and 2 U-bend RPC	93
B	Cold Leg RPC Special Interest	25
B	Cold Leg Bobbin	1806
B	Cold Leg RPC Rows 1 and 2 U-bend RPC	30
B	Hot Leg Bobbin Rows 1 and 2	139
B	Hot Leg RPC Special Interest	107
B	Hot Leg RPC Top of Tubesheet	1522
B	Hot Leg RPC Rows 1 and 2 U-bend RPC	65
C	Cold Leg RPC Special Interest	20
C	Cold Leg Bobbin	1709
C	Hot Leg Bobbin Rows 1 and 2	133
C	Hot Leg RPC Special Interest	57
C	Hot Leg RPC Top of Tubesheet	1522
C	Hot Leg RPC Rows 1 and 2 U-bend RPC	84

2. Location and Wall Thickness Penetration

Location definitions:

CTS	Cold leg top-of-tubesheet
HTS	Hot leg top-of-tubesheet
FBH	Flow distribution baffle on hot leg side
02A	Anti-vibration bar 2
03A	Anti-vibration bar 3
04A	Anti-vibration bar 4
02C	Cold leg second support plate
02H	Hot leg second support plate
03C	Cold leg third support plate
03H	Hot leg third support plate
06C	Cold leg sixth support plate
06H	Hot leg sixth support plate

SG	Tube Identification (Row and Column)	Location	% Depth
A	R37C50	HTS/0.04	41
A	R38C50	HTS/0.07	41
A	R37C51	HTS/0.04	37
A	R4C39	03C/-0.88	37
A	R23C14	HTS/0.05	26
A	R33C41	HTS/0.04	26
A	R34C41	HTS/0.13	25
A	R41C53	HTS/0.08	29
A	R15C35	02C/+51.00	20
A	R24C54	03H/-0.75	20
A	R1C1	CTS/13.72	10
A	R7C1	CTS/0.68	14
A	R1C2	CTS/13.74	11
A	R11C2	CTS/0.55	11
A	R1C3	CTS/15.66	13
A	R13C3	CTS/0.48	12
A	R1C4	CTS/15.78	20
A	R16C4	CTS/0.41	10
A	R1C5	CTS/15.54	7
A	R1C6	CTS/15.57	11
A	R23C7	CTS/0.71	11
A	R26C9	CTS/0.62	13
A	R33C15	CTS/0.54	9
A	R37C20	HTS/0.64	15

SG	Tube Identification (Row and Column)	Location	% Depth
A	R40C25	CTS/0.47	14
A	R42C30	CTS/0.47	13
		HTS/0.62	11
A	R43C33	CTS/0.56	10
A	R44C36	CTS/0.60	14
A	R43C37	CTS/0.55	10
		CTS/1.75	10
A	R45C41	CTS/0.62	19
A	R45C47	CTS/2.74	13
		CTS/6.74	11
A	R45C52	CTS/0.49	17
		CTS/3.72	8
A	R44C57	CTS/0.59	21
		HTS/0.70	12
		HTS/1.20	14
A	R43C60	CTS/0.56	17
A	R42C63	CTS/0.61	11
		HTS/0.66	13
A	R40C68	HTS/0.68	16
		HTS/0.75	15
A	R36C74	HTS/0.64	12
A	R31C80	CTS/0.55	11
A	R26C84	CTS/0.61	13
A	R23C86	CTS/0.62	13
A	R19C87	CTS/7.62	12
A	R1C89	HTS/15.54	13
A	R11C91	CTS/0.67	12
A	R7C92	CTS/0.61	9
B	R1C1	CTS/9.62	15
		CTS/12.71	18
		CTS/12.75	16
		CTS/13.10	25
		CTS/15.26	16
B	R2C1	CTS/10.07	17
		CTS/11.52	16
B	R6C1	CTS/0.49	15
B	R7C1	CTS/0.63	14
		CTS/1.14	15
		CTS/12.47	19
B	R11C2	CTS/0.48	17
B	R16C4	CTS/0.44	15
B	R23C7	HTS/0.94	16

SG	Tube Identification (Row and Column)	Location	% Depth
B	R26C9	HTS/0.54	17
B	R7C16	CTS/15.94	17
B	R34C18	FBH/0.60	20
B	R37C20	HTS/0.60	20
B	R40C25	CTS/0.51	21
B	R1C27	CTS/16.33	41
B	R2C42	CTS/1.50	24
B	R34C43	HTS/0.01	20
B	R5C48	CTS/1.46	22
		CTS/1.71	27
B	R5C49	CTS/1.78	28
B	R24C65	02H/0.36	30
B	R1C67	06C/-0.53	22
		06C/-0.62	10
		06C/0.56	7
B	R33C78	CTS/0.62	18
B	R26C84	CTS/0.69	20
B	R1C92	CTS/8.55	15
		CTS/9.62	16
		CTS/10.92	24
		CTS/10.92	16
		CTS/11.86	16
		HTS/1.94	13
		HTS/2.82	17
		HTS/14.12	14
B	R2C92	CTS/10.66	15
C	R45C41	06H/-0.98	50
C	R7C1	CTS/0.64	15
C	R44C38	HTS/0.48	16
C	R34C50	HTS/-0.03	14
C	R34C51	HTS/0.05	7
C	R44C57	HTS/0.58	16
		HTS/1.18	15
C	R33C78	HTS/0.66	18
C	R3C91	HTS/0.32	23
C	R37C45	03A/0.0	6
		04A/0.0	4
		03A/0.15	6
		04A/0.02	4
C	R35C61	02A/-0.21	5
		03A/0.13	3

SG	Tube Identification (Row and Column)	Location	% Depth
C	R38C62	02A/-0.23	3
		03A/-0.31	11
C	R31C13	06C/-0.44	5
		06C/+0.63	6

The facility had zero primary-to-secondary leakage at the time the refueling outage was commenced.

3. Identification of Tubes Plugged

Steam Generator	Tube	Comments
A	R37C50	Wear is at top of tubesheet at hot leg side due to transient loose part. No loose part was determined to be present. This tube was last examined during Refueling Outage (RO) 19 in 1999 and there has been a slight change in the indication. The indication depth is below plugging limit required by the Technical Specifications. The indication was bounded by inspection of the surrounding tubes. The tube was preventatively plugged.
A	R38C50	Wear is at top of tubesheet at hot leg side due to transient loose part. No loose part was determined to be present. This tube was last examined in 1999 (RO-19) and there has been a slight change in the indication. The indication depth is below plugging limit required by the Technical Specifications. The indication was bounded by inspection of the surrounding tubes. The tube was preventatively plugged.
A	R37C51	Wear is at top of tubesheet at hot leg side due to transient loose part. No loose part was determined to be present. This tube was last examined in 1996 (RO-17) and there was no indication present. The indication depth is below plugging limit required by the Technical Specifications. The indication was bounded by inspection of the surrounding tubes. The tube was preventatively plugged.

Steam Generator	Tube	Comments
A	R4C39	Indication is attributed to mechanical wear. No loose part was determined to be present. This tube was last examined in 1996 (RO-17) and there was no indication present. The indication depth is below plugging limit required by the Technical Specifications. The tube was preventatively plugged.
B	R1C27	Peripheral tube in blowdown lane with mechanical wear. The cause of this indication was attributed to impact by maintenance equipment. The indication correlates with equipment insertion down the blowdown lane. The indication depth is below plugging limit required by the Technical Specifications. The tube was preventatively plugged.
B	R34C43	Indication is attributed to wear due to loose part. The loose part was determined to be still present. The indication was bounded by examining surrounding tubes, with no other indications found. The indication depth is below plugging limit required by the Technical Specifications. The tube was preventatively plugged and staked.
B	R24C65	Indication is attributed to wear at the flow distribution baffle on hot leg side. No loose part was determined to be present. This tube was last examined in 1998 (RO-18) and there was no indication present. The indication depth is below plugging limit required by the Technical Specifications. The tube was preventatively plugged.
C	R45C41	Wear is below the 6 th support plate on the hot leg side and is indicative of transient loose part wear. No loose part was determined to be present. This tube was last examined in 2001 (RO-20) and there was no indication present. Adjacent tubes were examined, with no indications or loose parts found.