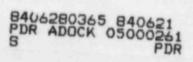
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\*Baxter Fluid Power (Anker-Holth)



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LICENSEE EVENT	REPORT	(LER) TEXT	CONTINUATION
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U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OM8 NO. 3150-0104 EXPIRES 8/31/85

FACILITY NAME (1)	DOCKET NUMBER (2)								T	LER NUMBER (6)							PAGE (3)			
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H. B. Robinson SEG Plant, Unit 2	0	5	0	10	10	12	16	11	8	4	_	010		3-	0 [1	012	OF	0	12	
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The twelve Anker-Holth snubbers (Model #21.12620.008 500 KIP Load Rating) were sent off-site for functional testing and refurbishment. This was the first time since commercial operation that the entire snubber assemblies were functionally tested. Previous inspection/testing which occurred at refueling intervals involved visual inspections for piston settings, reservoir level, seal leakage, and general external condition. The control valve block for the 'A' steam generator snubber bank was tested satisfactorily in 1982 due to a 1981 change to Technical Specifications which required the valve testing.

While in the test stand under conditions simulating expected loading conditions, the following anomalies were observed:

- 1. Two snubbers, 2011 and 2014, did not lockup because they were low on fluid.
- 2. The rear monoball bearing failed while snubber 2011 was under a load of 412,000 pounds force, and the monoball hole was subsequently deformed. The design load for these snubbers is 470,000 pounds force.
- 3. Snubber 2008 did not meet the lockup velocity requirement of 1 to 10 inches per hour. The tension and compression lockup velocities were 5.75 inches per minute and 4.7 inches per minute, respectively. Snubber 2008 did not meet the bleed rate requirement of 3 to 6 inches per hour. The tension and compression bleed rates were 0.25 inches per minute at 200,000 pounds force.

## Actions In Progress

NRC Form 366A

- 1. The cause of the low fluid levels in snubbers 2011 and 2014 is being investigated.
- 2. The snubber manufacturer, Baxter Fluid Power (Anker-Holth) has submitted a 10CFR21 report on the failure of the rear monoball bearing on snubber 2011. Subsequent to manufacturing, the bearing rating had been revised downward to less than the snubber design load. The consequences of the snubbers possibly failing at less than design load is being investigated.
- The requirements for lockup velocities and bleed rates are being investigated to determine if these may be too restrictive based on present industry standards.

Prior to declaring these steam generator snubbers operable, the snubbers' valve blocks, tubing, and reservoirs will be filled with fluid, and the snubbers will be functionally tested to verify proper operation and structural integrity.



Carolina Power & Light Company

H. B. ROBINSON STEAM ELECTRIC PLANT POST OFFICE BOX 790 HARTSVILLE, SOUTH CAROLINA 29550

JUN 2 1 1984

Robinson File No: 13510C

Serial: RSEP/84-429

United States Nuclear Regulatory Commission Document Control Desk Washington, D. C. 20555

> H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2 DOCKET NO. 50-261 LICENSE NO. DPR-23 LICENSEE EVENT REPORT 84-003

Dear Sir:

In accordance with 10CFR50.73, Licensee Event Report, the enclosed Licensee Event Report is submitted. This report fulfills the requirements for a written report within thirty (30) days of a reportable event and is in accordance with the format set forth in NUREG-1022, September, 1983.

Very truly yours,

Ellorgo R. E. Morgan

General Manager H. B. Robinson SEG Plant

CLW/pam

Enclosure

cc: J. P. O'Reilly S. P. Weise INPO

