

# LICENSEE EVENT REPOF.

CONTROL BLOCK:

[PLEASE PRINT ALL REQUIRED INFORMATION]

01	ARARKI	00-000000-00	411111	03							
7	8	9	14	15	25	26	30	31	32		
01	CONT	L	L	050-0313	012277	021577					
7	8	57	58	59	60	61	88	69	74	75	80

**EVENT DESCRIPTION**

02	During steady-state power (37% FP), a surveillance test was performed on	80
03	a steam driven emergency feedwater pump. After the pump was shutdown, the	80
04	pump bearings started to smoke. The redundant system was operable. An	80
05	investigation of the pump bearings indicated the thrust and sleeve bearings were	80
06	bad. The thrust bearing and sleeve were replaced. (50-313/77-3)	80

07	CH	E	PUMPIXX	N	T147	N				
7	8	9	10	11	12	17	43	44	47	48

**CAUSE DESCRIPTION**

08	A Terry Steam Turbine Co. Governor End Bearing, Part No. E-1607-24	80
09	and main ball thrust bearing, Part No. E-1607-80 started to smoke	80
10	after a surveillance test was performed. Bearings were replaced.	80

11	E	037	N/A	b	N/A				
7	8	9	10	12	13	44	45	46	80

12	Z	Z	N/A	N/A			
7	8	9	10	11	44	45	80

**PERSONNEL EXPOSURES**

13	000	Z	N/A			
7	8	9	11	12	16	80

**PERSONNEL INJURIES**

14	000	N/A			
7	8	9	11	12	80

**OFFSITE CONSEQUENCES**

15	N/A		
7	8	9	80

**LOSS OR DAMAGE TO FACILITY**

16	Z	N/A		
7	8	9	10	80

**PUBLICITY**

17	N/A		
7	8	9	80

**ADDITIONAL FACTORS**

18	N/A		
7	8	9	80

19		80
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1. Reportable Occurrence Report No. 50-313/77-3
2. Report Date: 2/15/77                      3. Occurrence Date: 1/22/77
4. Facility: Arkansas Nuclear One-Unit 1  
Russellville, Arkansas
5. Identification of Occurrence: Bearing failures of steam driven emergency feedwater pump P-7A.

6. Conditions Prior to Occurrence:

Steady-State Power	<u>    X    </u>	Reactor Power	<u>  950  </u>	MWth
Hot Standby	<u>          </u>	Net Output	<u>  290  </u>	MWe
Cold Shutdown	<u>          </u>	Percent of Full Power	<u>  37  </u>	%
Refueling Shutdown	<u>          </u>	Load Changes During Routine Power Operation	<u>          </u>	
Routine Startup Operation	<u>          </u>			
Routine Shutdown Operation	<u>          </u>			
Other (specify)				

7. Description of Occurrence:

At approximately 0650 hours on January 22, 1977, a surveillance test was performed on the steam driven emergency feedwater pump (P-7A). After the pump was shut down, the pump bearings started to smoke. An investigation of the pump bearings indicated that the thrust and sleeve bearings were bad.

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8. Designation of Apparent Cause of Occurrence:

Design	_____	Procedure	_____
Manufacture	_____	Unusual Service Condition Including Environmental	_____
Installation/ Construction	_____	Component Failure (See Failure Data)	<u>    X    </u>
Operator	_____		
Other (specify)			

9. Analysis of Occurrence:

Since emergency feedwater pump P-7B was operable and has the capability necessary for cooldown, there was no hazard to the health and safety of the public.

10. Corrective Action:

A thrust bearing and sleeve bearing were replaced. A test was performed which indicated the pump's operation was satisfactory.

11. Failure Data:

Terry Steam Turbine Company

1 Governor End Bearing Part No. E-1608-24

1 Main Ball Thrust Bearing Part No. E-1608-80