

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) EDWIN I. HATCH, UNIT 1										DOCKET NUMBER (2) 0 5 0 0 0 3 2 1 1 0 F 0 3					PAGE (3) 1 1 0 F 0 3	
TITLE (4) Reactor Scram following a high vibration turbine trip																
EVENT DATE (5)			LER NUMBER (6)				REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)						
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES				DOCKET NUMBER(S)			
0 2	1	1 8	4	8 4	0 0 1	0 0	0 3	0 9	8 4					0 5 0 0 0		
OPERATING MODE (9)		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § (Check one or more of the following) (11)														
1		20.402(b)				20.406(c)				<input checked="" type="checkbox"/> 50.73(a)(2)(iv)				73.71(b)		
POWER LEVEL (10)		20.406(a)(1)(i)				50.36(e)(1)				50.73(a)(2)(v)				73.71(c)		
0 6 10		20.406(a)(1)(ii)				50.36(e)(2)				50.73(a)(2)(vii)				OTHER (Specify in Abstract below and in Text, NRC Form 356A)		
		20.406(a)(1)(iii)				50.73(a)(2)(i)				50.73(a)(2)(viii)(A)						
		20.406(a)(1)(iv)				50.73(a)(2)(ii)				50.73(a)(2)(viii)(B)						
		20.406(a)(1)(v)				50.73(a)(2)(iii)				50.73(a)(2)(ix)						
LICENSEE CONTACT FOR THIS LER (12)																
NAME										TELEPHONE NUMBER						
Steven B. Tipps, Superintendent of Regulatory Compliance										9 1 2 3 1 6 1 7 1 7 8 5 1						
COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)																
CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC		CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC						
SUPPLEMENTAL REPORT EXPECTED (14)												EXPECTED SUBMISSION DATE (15)		MONTH	DAY	YEAR
<input type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE)												<input checked="" type="checkbox"/> NO				

ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)

Following a load reduction transient due to the B recirculation pump trip and a subsequent control rod exchange the unit was being brought to full load. During a megawatt increase from 310 MWe to 465 MWe the turbine tripped on high turbine vibration and initiated a reactor scram. The unit was brought to cold shutdown to investigate turbine problems.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED OMB NO. 3150-0104

EXPIRES: 8/31/85

FACILITY NAME (1) EDWIN I. HATCH, UNIT 1	DOCKET NUMBER (2) 0 5 0 0 0 3 2 1 8 4 - 0 0 1 - 0 0 0 3	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			

TEXT (If more space is required, use additional NRC Form 366A's) (17)

CAUSE(S) OF THE EVENTS(S):

The Reactor Scram was caused by a high turbine vibration trip at greater than 30% reactor power. An investigation revealed that the high turbine vibration was due to bucket and finger damage to both of the 13th stages of the "A" low pressure turbine (i.e., the 13th stage on the turbine end and the 13th stage on the generator end). The damage is thought to be due to water induction into the turbine.

IMMEDIATE CORRECTIVE ACTION(S):

The unit was brought to cold shutdown to investigate the turbine damage.

SUPPLEMENTAL CORRECTIVE ACTION(S):

The turbine was placed back in service without the 13th stages.

SCHEDULED (FUTURE) CORRECTIVE ACTION(S):

The 13th stages will be replaced at a later date.

ACTION(S) TO PREVENT RECURRENCE (IF DIFFERENT FROM CORRECTIVE ACTIONS):

N/A

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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EDWIN I. HATCH, UNIT 1	0 5 0 0 0 3 2 1	8 4	— 0 0 1	— 0 0	0 2	OF	0 3

TEXT (If more space is required, use additional NRC Form 366A's) (17)

REQUIREMENT FOR REPORT:

This 30-day report is required by 10CFR 50.73 (a)(2)(iv) due to this event resulting in the automatic actuation of the Reactor Protection System (RPS).

PLANT CONDITIONS AT THE TIME OF THE EVENT(S):

The unit was ramping from approximately 973 MWt to rated reactor power. At 1461 MWt (i.e., approximately 60% reactor power) the reactor scrambled.

DETAILED DESCRIPTION OF THE EVENT(S):

Following a load reduction transient due to a trip of the "B" reactor recirculation pump on 02/10/84 and a subsequent control rod sequence exchange completed on 02/11/84, the generator load was being increased from approximately 310 MWe to approximately 465 MWe when the turbine tripped on high vibration. This in turn caused an unplanned reactor scram.

SUMMARY ASSESSMENT OF ACTUAL AND POTENTIAL SAFETY CONSEQUENCES AND IMPLICATIONS:

There was no actual or potential safety consequences or implications because personnel and equipment performed effectively resulting in normal plant shutdown.

STATUS OF REDUNDANT OR BACKUP SUBSYSTEMS AND/OR SYSTEMS:

N/A

JUSTIFICATION FOR CONTINUED OPERATION:

The unit was shutdown.

IF REPETITIVE:NUMBER OF PREVIOUS LER:

This is a non-reptitive event.

WHY CORRECTIVE ACTION DID NOT PREVENT RECURRENCE:

N/A

IMPACT TO OTHER SYSTEMS AND/OR UNIT:

There was no impact to any other systems nor to the other unit.

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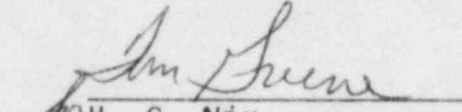
Edwin I. Hatch Nuclear Plant

March 9, 1984
GM-84-187

PLANT E. I. HATCH
Licensee Event Report
Docket No. 50-321

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

Attached is Licensee Event Report No. 50-321/1984-01. This report is required by 10 CFR50.73 (a)(2)(iv).


H. C. Nix
General Manager

HCN/SBT/djs

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