

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Catawba Nuclear Station, Unit 1	DOCKET NUMBER (2) 0 5 0 0 0 4 1 3	PAGE (3) 1 OF 01
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TITLE (4)
Auto Start of Motor Driven Auxiliary Feedwater Pumps

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)										
1	0	12	8	4	-	0	1	7	-	0	0	1	1	6	8	4	0	5	0	0	0
												0	5	0	0	0					

OPERATING MODE (9) 4	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § (Check one or more of the following) (11)									
POWER LEVEL (10) 0 0 0	<input type="checkbox"/> 20.402(b)	<input type="checkbox"/> 20.406(c)	<input checked="" type="checkbox"/> 50.73(a)(2)(iv)	<input type="checkbox"/> 73.71(b)						
	<input type="checkbox"/> 20.406(a)(1)(i)	<input type="checkbox"/> 50.36(e)(1)	<input type="checkbox"/> 50.73(a)(2)(v)	<input type="checkbox"/> 73.71(e)						
	<input type="checkbox"/> 20.406(a)(1)(ii)	<input type="checkbox"/> 50.36(e)(2)	<input type="checkbox"/> 50.73(a)(2)(vi)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)						
	<input type="checkbox"/> 20.406(a)(1)(iii)	<input type="checkbox"/> 50.73(a)(2)(i)	<input type="checkbox"/> 50.73(a)(2)(vii)							
	<input type="checkbox"/> 20.406(a)(1)(iv)	<input type="checkbox"/> 50.73(a)(2)(ii)	<input type="checkbox"/> 50.73(a)(2)(viii)(A)							
	<input type="checkbox"/> 20.406(a)(1)(v)	<input type="checkbox"/> 50.73(a)(2)(iii)	<input type="checkbox"/> 50.73(a)(2)(viii)(B)							
	<input type="checkbox"/> 20.406(a)(1)(vi)	<input type="checkbox"/> 50.73(a)(2)(iv)	<input type="checkbox"/> 50.73(a)(2)(ix)							

LICENSEE CONTACT FOR THIS LER (12)		TELEPHONE NUMBER	
NAME Roger W. Ouellette, Assistant Engineer-Licensing		AREA CODE 7 0 4 3 7 3 - 7 5 3 0	

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)										
CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPROS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPROS	

SUPPLEMENTAL REPORT EXPECTED (14)			EXPECTED SUBMISSION DATE (15)		
<input checked="" type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE)	<input type="checkbox"/> NO		MONTH	DAY	YEAR
			1	2	0 1 8 4

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

On October 21, 1984, at 0635 hours, Motor Driven Auxiliary Feedwater (CA) Pumps 1A and 1B started due to a trip signal on both Main Feedwater (CF) Pump Turbines. Unit 1 was in Mode 4 (Hot Shutdown) with the CA System in standby alignment in preparation for entering into Mode 3 (Hot Standby).

Work was being conducted on Valve 1CA-151 (S/G 1C BYP to CA Nozzle). To allow for this work, the Nuclear Control Operator (NCO) was feeding Steam Generator (S/G) 1C by the main feedwater nozzle through valve 1CF-051 (S/G 1C CF CONT. ISOL). Prior to shift turnover, the NCO started feeding S/G 1C through its normal alignment by closing 1CF-051 and feeding into the CA nozzle through valve CA-151. Shortly after this, the temporary air supply was removed from 1CA-151. At this point, valve 1CA-151 failed closed, isolating S/G 1C. Twenty minutes later S/G 1C had a Low Level Deviation (5% low level) Alarm. The NCO immediately opened valve 1CF-051, feeding water quickly to the main feedwater nozzle through Throttle Valve 1CF-048 (S/G 1C CF BYP CTRL). Both Main Feedwater Pumps were reset and windmilling when flow to the Main Feed Nozzle was aligned. Feeding water rapidly into S/G 1C appears to have put the Condensate (CM) System and CF in a pressure transient, developing low suction pressure at the CF Pumps. The low suction pressure alarm initiated the CF Pump Turbine Trip Signal, causing the Motor Driven CA Pumps to auto start.

The cause of the incident is tentatively unknown. A follow-up report will be issued no later than 12/1/84. Additional investigative testing is being performed and will be evaluated prior to issuance of the follow-up report.

DUKE POWER COMPANY

P.O. BOX 33189
CHARLOTTE, N.C. 28242

HAL B. TUCKER
VICE PRESIDENT
NUCLEAR PRODUCTION

TELEPHONE
(704) 373-4531

November 16, 1984

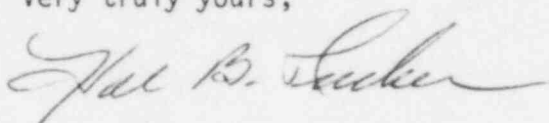
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Washington, D. C. 20555

Subject: Catawba Nuclear Station, Unit 1
Docket No. 50-413

Gentlemen:

Pursuant to 10 CFR 50.73 Section (a) (1) and (d), attached is Licensee Event Report 413/84-17 concerning the auto start of motor driven auxiliary feedwater pumps. This event was considered to be of no significance with respect to the health and safety of the public.

Very truly yours,



Hal B. Tucker

RWO:s1b

Attachment

cc: Mr. James P. O'Reilly, Regional Administrator
U. S. Nuclear Regulatory Commission
Region II
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30323

INPO Records Center
Suite 1500
1100 Circle 75 Parkway
Atlanta, Georgia 30339

NRC Resident Inspector
Catawba Nuclear Station

American Nuclear Insurers
c/o Dottie Sherman, ANI Library
The Exchange, Suite 245
270 Farmington Avenue
Farmington, CT 06032

Palmetto Alliance
2135½ Devine Street
Columbia, South Carolina 29205

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cc: Robert Guild, Esq.
P. O. Box 12097
Charleston, South Carolina 29412

Mr. Jesse L. Riley
Carolina Environmental Study Group
854 Henley Place
Charlotte, North Carolina 28207

Mr. James L. Kelley, Chairman
Atomic Safety and Licensing Board Panel
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dr. Paul W. Purdom
235 Columbia Drive
Decatur, Georgia 30030

Dr. Richard F. Foster
P. O. Box 4263
Sunriver, Oregon 97702