



Duquesne Light

Nuclear Group
P.O. Box 4
Shippingport PA 15077-0004

Telephone (412) 393-6000

December 28, 1990
ND3MNO:3081

Beaver Valley Power Station, Unit No. 2
Docket No. 50-412, License No. NPF-73
LER 90-025-00

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

Gentlemen:

In accordance with Appendix A, Beaver Valley Technical Specifications, the following Licensee Event Report is submitted:

LER 90-025-00, 10 CFR 50.73.a.2.iv, "ESF Actuation - Service Water System Seal Water Supply Realignment".

Very truly yours,

K.L. Ostrowski for

J. P. Noonan
General Manager
Nuclear Operations

DW/dh

Attachment

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December 28, 1990

ND3MNO:3081

Page two

cc: Mr. T. T. Martin, Regional Administrator
United States Nuclear Regulatory Commission
Reg. 1
475 Lendale Road
King of Prussia, PA 19406

C. A. Roteck, Ohio Edison
76 S. Main Street
Akron, OH 44308

Mr. A. DeAgazio, BVPS Licensing Project Manager
United States Nuclear Regulatory Commission
Washington, DC 20555

J. Beall, Nuclear Regulatory Commission,
BVPS Senior Resident Inspector

Larry Beck
Cleveland Electric
6200 Oak Tree Blvd.
Independence, Ohio 44101

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

G. E. Muckler
Factory Mutual Engineering
680 Anderson Drive #BLD10
Pittsburgh, PA 15220-2773

Mr. J. N. Steinmetz, Operating Plant Projects Manager
Mid Atlantic Area
Westinghouse Electric Corporation
Energy Systems Service Division
Box 355
Pittsburgh, PA 15230

Mr. Richard Janati
Department of Environmental Resources
P. O. Box 2063
16th Floor, Fulton Building
Harrisburg, PA 17120

Director, Safety Evaluation & Control
Virginia Electric & Power Co.
P.O. Box 26666
One James River Plaza
Richmond, VA 23261

December 28, 1990

ND3MNO:3081

Page three

W. Hartley
Management Analysis Company
112671 High Bluff Drive
San Diego, CA 92130-2025

J. M. Riddle
NUS Operating Service Corporation
Park West II
Cliff Mine Road
Pittsburgh, PA 15275

LICENSEE EVENT REPORT (LER)

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 60.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (F-30), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20545, AND TO THE PAPE, "DNR REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

FACILITY NAME (1) Beaver Valley Power Station Unit 2		DOCKET NUMBER (2) 0 5 0 0 0 0 4 1 2 1	PAGE (3) OF 0 3
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TITLE (4)
ESF Actuation - Service Water System Seal Water Supply Realignment

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	2	0	1	9	0	9	0	0	N/A		0 5 0 0 0 0
											0 5 0 0 0 0

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5. (Check one or more of the following) (11)

OPERATING MODE (9) 1	20.402(b)	20.406(c)	<input checked="" type="checkbox"/> 50.73(a)(2)(iv)	73.71(a)
POWER LEVEL (10) 1 10 10	20.406(a)(1)(i)	50.36(a)(1)	50.73(a)(2)(v)	73.71(c)
	20.406(a)(1)(ii)	50.36(a)(2)	50.73(a)(2)(vi)	OTHER (Specify in Abstract Data and in Text NRC Form 366A)
	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 T.P. Noonan, General Manager Nuclear Operations	TELEPHONE NUMBER AREA CODE: 4 1 2 6 4 3 - 1 1 2 5 8
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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
X	B S	P T	F 2 3 4	N					

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If yes, complete EXPECTED SUBMISSION DATE): NO:

EXPECTED SUBMISSION DATE (15):

MONTH	DAY	YEAR

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

On 12/1/90 at 0701 hours, with the Unit in Power Operation at 100% reactor power, the Intake Structure Instrument Air Compressor (IA-C-3) failed to automatically start on low air pressure. This caused a loss of air to the Filtered Water Supply Valves (2SWS-AOV118A,B) to seal water for the Service Water System (SWS) pumps. The valves failed closed on a loss of air causing the SWS Seal Water Supply to Strainer Valves (2SWS-SOV130A,B) to open to supply seal water. These valves are Engineered Safety Features (ESF) components, as they receive an open signal on a Safety Injection Signal. This unexpected actuation is reportable in accordance with 10CFR50.72 and 50.73. The cause for this event was a failed pressure switch for IA-C-3. The failed pressure switch prevented proper compressor loading/unloading operation. The compressor was started and air pressure was restored to 2SWS-AOV118A,B at 0751 hours. There were no safety implications as a result of this event. The valves failed closed upon a loss of air as designed and the seal water supply to the pumps was automatically realigned in response to the loss of the normal seal supply.

LICENSEE EVENT REPORT (LER)
TEXT CONTINUATIONESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS
INFORMATION COLLECTION REQUEST, 500 HRS. FORWARD
COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS
AND REPORTS MANAGEMENT BRANCH (F-830) U.S. NUCLEAR
REGULATORY COMMISSION, WASHINGTON, DC 20555, AND TO
THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE
OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

FACILITY NAME (1) Beaver Valley Power Station Unit 2	DOCKET NUMBER (2) 0 5 0 0 0 4 1 2 9 0 - 0 2 5 - 0 0 0 2 OF 0 3	LER NUMBER (5)			PAGE (3)	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		

TEXT (if more space is required, use additional NRC Form 306A's) (17)

DESCRIPTION OF EVENT

On 12/1/90 at 0701 hours, with the Unit in Power Operation at 100% reactor power, the Intake Structure Instrument Air Compressor (IA-C-3) failed to automatically start on low air pressure. This caused a loss of air to the Filtered Water Supply Valves (2SWS-AOV118A,B) to seal water for the Service Water System (SWS) pumps. The valves failed closed on a loss of air causing the SWS Seal Water Supply to Strainer Valves (2SWS-SOV130A,B) to open to supply seal water. Seal water for the SWS pumps is normally supplied by Filtered Water. Upon a loss of Filtered Water supply or a Safety Injection Signal, the seal water supply is automatically realigned from the SWS pump discharge through strainers.

CAUSE OF THE EVENT

The cause for this event was a failed pressure switch. This pressure switch (Furnas Model 69HA12145175) provides a signal to cycle the Intake Structure Instrument Air Compressor (IA-C-3).

CORRECTIVE ACTIONS

The following corrective actions have been taken as a result of this event:

1. Operations personnel verified the seal water valve realignment and adequate seal water to the Service Water System pumps.
2. Instrument and Control personnel calibrated and installed a new pressure switch. Post maintenance testing confirmed proper Intake Structure Instrument Air Compressor operation.
3. Filtered water seal supply was restored to normal system arrangement.

PREVIOUS OCCURRENCES

There has been one previously reported ESF actuation involving an automatic realignment of the service water seal supply valves. This event, documented in Unit 2 LER 89-027-00, involved a seal water realignment due to a loss of the filtered water supply.

LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST 500 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P-530), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555 AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

FACILITY NAME (1) Beaver Valley Power Station Unit 2	DOCKET NUMBER (2) 0 5 0 0 0 4 1 2 9 0	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		0	25	0	0	0	3 OF 0

TEXT (if more space is required, use additional NRC Form 305A's) (17)

SAFETY IMPLICATIONS

There were no safety implications as a result of this event. The valves failed closed upon a loss of air as designed and the seal water supply to the pumps was automatically realigned in response to the loss of the normal seal supply.

REPORTABILITY

The Service Water System (SWS) Seal Water (2SWS-AOV118A,B) Valves are Engineered Safety Features (ESF) components, as they receive an open signal on a Safety Injection Signal. This unexpected actuation was reported at 0847 hours in accordance with 10CFR50.72.b.2.ii. This written report is being submitted in accordance with 10CFR50.73.a.2.iv.