

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Beaver Valley Power Station, Unit 1										DOCKET NUMBER (2) 0 5 0 0 0 3 3 4				PAGE (3) 1 OF 0 1						
TITLE (4) Inability of Diesel Generator to Assume Full Load																				
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 N/A				DOCKET NUMBER(S) 0 5 0 0 0							
0	7	1	7	8	5	8	5	0	1	4	0	0	0	8	1	5	8	5	N/A	0 5 0 0 0
OPERATING MODE (9)		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5: (Check one or more of the following) (11)																		
1		20.402(b)				20.406(c)				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)						
1 0 0		20.406(a)(1)(ii)				50.36(e)(2)				50.73(a)(2)(vii)				OTHER (Specify in Abstract below 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 Robert J. Druga, Manager of Technical Services										TELEPHONE NUMBER 4 1 2 6 4 3 - 5 3 0 8										
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										
A	EIE	6151	W219	0 NO																
SUPPLEMENTAL REPORT EXPECTED (14)										EXPECTED SUBMISSION DATE (15)		MONTH	DAY	YEAR						
YES (If yes, complete EXPECTED SUBMISSION DATE)										NO										

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

On 7/17/85, during the monthly surveillance test for the No. 1 Diesel Generator, the governor failed to load over 400 kw. The test requires that the D/G be loaded to 2850 kw. Local investigation revealed that the Diesel Generator Governor Load Limit Control was set at the three position instead of the ten position. After an extensive evaluation, it was judged that the control knob was mispositioned during an intensive cleaning evolution. As the inability of the diesel to power its emergency train could have prevented safety features from fulfilling their design function, the NRC was notified within four hours in accordance with 10 CFR 50.72.b.2.iii. This report is being submitted under 10 CFR 50.73.a.2.v.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104

EXPIRES: 8/31/85

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
Beaver Valley Power Station, Unit 1	0 5 0 0 0 3 3 4 8 5	—	0 1 4	—	0 0 0 2	OF 0 2	

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

On 7/17/85, the monthly operating surveillance test (OST) to verify the operability of the No. 1 Diesel Generator was being conducted. At 0038 hours, the diesel was started and at 0052 hours, it was synchronized to the 1AE 4160V Emergency Bus in accordance with the test instructions. The next portion of the test required the DG to be loaded to 2850 kilowatts; however, when this action was attempted, load would not increase above approximately 400 kw. Investigation, by a local operator, revealed that the diesel's Woodward Governor Load Limit Control dial was incorrectly set at the three position instead of the ten (full open) position. Such a low setting prevented the diesel from picking up full load.

After a review of the applicable Technical Manuals and consultation with the Nuclear Station Operating Supervisor (NSOS) the Nuclear Shift Supervisor (NSS) returned the load control to its ten position. The Diesel Generator was successfully loaded to 2850 kw at 0137 hours on 7/17/85 and the OST continued without further incident. The NRC was notified via the Emergency Notification System Red Phone at 0311 hours in accordance with the four hour notification requirements of 10 CFR 50.72.b.2.iii.

An extensive investigation was conducted subsequent to this event, which involved all personnel who had entered the diesel generator cubicles since the last successful performance of the No. 1 Diesel Generator surveillance test (on 6/19/85) and the date the incorrect knob position was discovered. This investigation concluded that the most probable cause was inadvertent movement of the dial during a thorough cleaning of the area. This dial is difficult to turn below a setting of ten when the fuel racks are in a full out condition. However, plant experience has indicated that after the diesel is run, the fuel racks can come to rest in any position between 0 and 10. The vendor confirmed that a Woodward Governor would indeed act in this manner. In order to avoid any potential problems arising from this behavior, two booster pumps were installed, under the original design, to ensure the fuel racks will attain the full open position.

In accordance with the Station commitment to NRC Generic Letter 84-15, the reliability of the Diesel Generators based on the criteria of Regulatory Guide 1.108 position C.2e is hereby included. The Diesel Generator No. 1 reliability for the last 20 valid demands (through July, 1985) has been .95 while for the last 100 demands, it has been .90. The reliability of Diesel Generator No. 2 has been .95 and .91 for the last 20 and 100 valid demands respectively.



Duquesne Light

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August 15, 1985
NDISS1:2518

Beaver Valley Power Station, Unit 1
Docket No. 50-334, License No. DPR-66
LER 85-014


Dr. Thomas E. Murley
Regional Administrator
United States Nuclear Regulatory Commission
Region I
Park Avenue
King of Prussia, PA 19046

Gentlemen:

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

LER 85-014, 10 CFR 50.73.a.2.v, "Inability of Diesel Generator to Assume Full Load".

Very truly yours,


Wm. S. Lacey
Plant Manager

md

Attachment

T. E. Murley
August 15, 1985
ND1SS1:2518
Page two

cc: Director of Management & Program Analysis
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