

UPDATED LICENSEE EVENT REPORT

CONTROL BLOCK: (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

1 P A B V S 1 2 0 0 - 0 0 0 0 0 0 - 0 0 3 4 1 1 1 1 4 5

REPORT SOURCE L 6 0 5 0 0 0 3 3 4 7 1 0 1 8 8 2 3 0 7 8 4 9

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)
On 10/18/82 at 0845 hours during the start up of the 1B Main Feed Pump,
an apparent overcurrent condition was detected by the 1B Station Service
transformer primary side overcurrent relay. T.S. 3.8.2.1 requires two
offsite AC sources, one of which was temporarily disconnected when the 1B
transformer secondary feeder breakers were tripped by the relay actuation.
Public health and safety was not jeopardized since the No. 2 Diesel
Generator supplied the emergency bus loads.

SYSTEM CODE E B 11 CAUSE CODE E 12 CAUSE SUBCODE A 13 COMPONENT CODE RELAY X 14 COMP. SUBCODE S 15 VALVE SUBCODE Z 16
LER/RO REPORT NUMBER 17 8 2 0 4 8 0 3 1 1
EVENT YEAR 21 8 2 SEQUENTIAL REPORT NO. 24 0 4 8 OCCURRENCE CODE 27 0 3 REPORT TYPE 30 L REVISION NO. 32 1
EFFECT ON PLANT Z 20 SHUTDOWN METHOD Z 21 HOURS 22 0 0 0 0 ATTACHMENT SUBMITTED Y 23 NPD-4 FORM SUB. N 24 PRIME COMP. SUPPLIER A 25 COMPONENT MANUFACTURER I 2 0 2 26

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)
The test results have concluded that the starting current for FW-P-1B was
not excessive. The reason for the relay actuation was associated with
the relay setting. An increase in the relay setting was initiated as a
temporary corrective action. A station modification has been initiated to
replace the relays with an improved model as a permanent correction.

FACILITY STATUS D 28 % POWER 0 0 0 0 29 OTHER STATUS N/A 30 METHOD OF DISCOVERY A 31 DISCOVERY DESCRIPTION Operator Observation 32

ACTIVITY RELEASED Z 33 CONTENT Z 34 AMOUNT OF ACTIVITY N/A 35 LOCATION OF RELEASE N/A 36

PERSONNEL EXPOSURES NUMBER 0 0 0 0 37 TYPE Z 38 DESCRIPTION N/A 39

PERSONNEL INJURIES NUMBER 0 0 0 0 40 DESCRIPTION N/A 41

LOSS OF OR DAMAGE TO FACILITY TYPE Z 42 DESCRIPTION N/A 43

PUBLICITY ISSUED N 44 DESCRIPTION N/A 45

8408100113 840718
PDR ADOCK 05000334
S PDR

NRC USE ONLY
58 59 30
412-643-1264

NAME OF PREPARER R. J. Druga

PHONE: 412-643-1264

Attachment To LER 82-048/03L-1  
Beaver Valley Power Station  
Duquesne Light Company  
Docket No. 50-334

On 10/18/82, at 0817 hours, a plant load reduction was commenced. The load reduction was required due to a continuing control problem with the 1B Main Feed Regulating Valve [FCV-FW-488], which was causing level oscillations in the 1B Steam Generator. At 0826 hours with the load reduction in progress, a high-high level signal in the 1B Steam Generator was received. This resulted in a turbine trip, reactor trip and a feedwater isolation signal. The feedwater isolation signal caused the main feed pumps to trip and the auto start of the auxiliary feed pumps. At 0840 hours an attempt was made to restore the main feedwater system to service. While starting the 1B Main Feed Pump, an apparent overcurrent condition was detected by the 1B System Station Service Transformer primary side overcurrent relay 51-109. This caused auxiliary relay 51-109X1 to trip the transformer secondary feeder breakers resulting in the temporary loss of one of the two station sources of offsite AC power. AC emergency loads previously being supplied through the 1B Transformer were maintained by the No. 2 Diesel Generator. At 0910 hours, the relay overcurrent target was cleared and its auxiliary reset. Offsite AC power for normal station loads was restored at 0923 hours. At 0946 hours, offsite AC power was restored to the station emergency buses and the No. 2 Diesel Generator was shutdown.

Followup actions to date have included the replacement and testing of the affected relay, which is a type ITE 51I solid state relay manufactured by ITE Imperial Corporation. Oscillograms of FW-P-1B motor starting currents do not indicate any unusual values. Test results have concluded the reason for the relay actuation was the relay setting was exceeded due to additional loads on the associated busses at the time that the 1B Main Feed Pump was energized.

Corrective actions initiated as a result of the Electrical Engineering Evaluation are as follows:

- 1) Relay setting on the affected relays for the 1A and 1B System Station Service Transformer were increased as a temporary corrective action.
- 2) The pickup setting of the relays on the 1C and 1D Unit System Service Transformers were found to be at their maximum. Therefore, the time setting was increased temporarily until a permanent correction can be made.
- 3) As a permanent correction, the existing relays will be replaced with an improved model. Action has been initiated for this modification, and is currently scheduled to be performed during the next refueling outage.



**Duquesne Light**

Nuclear Division  
P.O. Box 4  
Shippingport, PA 15077-0004

Telephone (412) 393-6000

July 18, 1984  
NDISS1:2119

Beaver Valley Power Station, Unit No. 1  
Docket No. 50-334, License No. DPR-66  
LER 82-048/03L-1

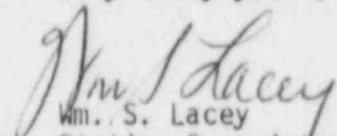
Dr. Thomas E. Murley  
Regional Administrator  
United States Nuclear Regulatory Commission  
Region 1  
Park Avenue  
King of Prussia, PA 19406

Gentlemen:

During a subsequent review of LER 82-048/03L, it was noted that additional corrective actions have been taken on this incident. Therefore, this supplemental report is being submitted to provide a complete record of this event.

LER 82-048/03L-1, Technical Specification 3.8.2.1, A. C. Onsite Power Distribution Systems.

Very truly yours,

  
Wm. S. Lacey  
Station Superintendent

Attachment

T. E. Murley  
July 18, 1984  
NDISS1:2119  
Page two

cc: Director of Management & Program Analysis  
United States Nuclear Regulatory Commission  
Washington, D.C. 20555

C. A. Roteck, Ohio Edison

Director, Office of Inspection and Enforcement Headquarters  
United States Nuclear Regulatory Commission  
Washington, D.C. 20555

Mr. Peter Tam, BVPS Licensing Project Manager  
United States Nuclear Regulatory Commission  
Washington, D.C. 20555

W. Troskoski, Nuclear Regulatory Commission, BVPS Site Inspector

Mr. Alex Timme, CAPCO Nuclear Projects Coordinator, Toledo Edison

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

G. E. Muckle, Factory Mutual Engineering, Pittsburgh

Mr. J. A. Triggiani, Operating Plant Projects Manager  
Mid Atlantic Area  
Westinghouse Electric Corporation  
Nuclear Services Integration Division  
Box 2728  
Pittsburgh, PA 15230

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