



## Duquesne Light

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January 10, 1986

United States Nuclear Regulatory Commission  
Region I  
631 Park Avenue  
King of Prussia, PA 19406

ATTENTION: Dr. Thomas E. Murley  
Administrator

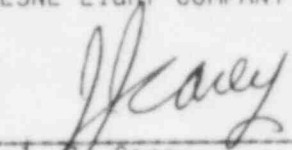
SUBJECT: Beaver Valley Power Station - Unit No. 2  
Docket No. 50-412  
Significant Deficiency Report No. 85-07, Final Report  
"Damage to BBC K-Line Circuit Breakers"

Gentlemen:

This report provides information as required by 10CFR50.55(e) with respect to the November 22, 1985, telephone report of a potential significant deficiency. Duquesne Light Company anticipates no further reports with respect to this issue.

DUQUESNE LIGHT COMPANY

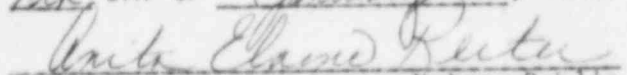
By

  
J. J. Carey  
Vice President

SDH/wjs  
Attachment

cc: Mr. P. Tan, Project Manager (w/a)  
Mr. J. M. Taylor, Director (3) (w/a)  
Mr. G. Walton, NRC Resident Inspector (w/a)  
INPO Records Center (w/a)  
NRC Document Control Desk (w/a)

SUBSCRIBED AND SWORN TO BEFORE ME THIS  
10th DAY OF January, 1986.

  
Notary Public

ANITA ELAINE REITER, NOTARY PUBLIC  
ROBINSON TOWNSHIP, ALLEGHENY COUNTY  
MY COMMISSION EXPIRES OCTOBER 20, 1986

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COMMONWEALTH OF PENNSYLVANIA )  
COUNTY OF Allegheny ) SS:

On this 10th day of January, 1986, before me, a  
Notary Public in and for said Commonwealth and County, personally appeared  
J. J. Carey, who being duly sworn, deposed and said that (1) he is Vice  
President of Duquesne Light, (2) he is duly authorized to execute and file  
the foregoing Submittal on behalf of said Company, and (3) the statements set  
forth in the Submittal are true and correct to the best of his knowledge.

Anita Elaine Reiter  
Notary Public

ANITA ELAINE REITER, NOTARY PUBLIC  
ROBINSON TOWNSHIP, ALLEGHENY COUNTY  
MY COMMISSION EXPIRES OCTOBER 20, 1986

BEAVER VALLEY POWER STATION - UNIT 2  
DUQUESNE LIGHT COMPANY

Significant Deficiency Report 85-07  
"Damage to BBC K-Line Circuit Breakers"

1. SUMMARY

The control wire insulation on the auxiliary switch on K-1600 and K-2000, as well as K-225, K-600, and K-800 circuit breakers, may be cut or damaged by the top edge of the circuit breaker dust shield when the breaker is racked out to the full disconnect position with the compartment door closed. This information was identified by a Part 21 report submitted to the NRC by Brown Boveri Company (BBC) dated March 19, 1985. It was brought to Duquesne Light Company's (DLC) BVPS-2's attention by the NRC Sr. Resident Inspector in Inspection 85-19, Unresolved Item 85-19-01. Efforts are underway to inspect and repair, if necessary, these circuit breakers.

2. IMMEDIATE ACTION TAKEN

On November 22, 1985, Mr. R. J. Wallauer, DLC, Regulatory Affairs Department, notified Mr. D. Johnson, NRC Region I Office, by telephone that DLC considered this matter to be potentially reportable under 10CFR50.55(e).

3. DESCRIPTION OF THE DEFICIENCY

The control wire insulation on the auxiliary switch on K-1600 and K-2000 BBC K-Line CRT breakers may be cut by the top edge of the dust shield when the breaker is racked out to the full disconnect position with the compartment door closed. The same condition could occur on smaller size electrically operated K-800, K-600, and K-225 CRT breakers. This concern was identified in a Part 21 report submitted by BBC dated March 19, 1985, to Mr. R. C. DeYoung, Director, Office of I&E, NRC. Certain of the subject BBC circuit breakers are used at BVPS-2 in both QA Category I and II applications.

4. ANALYSIS OF SAFETY IMPLICATION

Damage to the auxiliary switch wires could result in misoperation of the circuit breaker, depending upon the configuration. No specific instances of serious insulation damage have been identified to date. However, if such a condition had gone undetected, it is conservatively assumed that it could have affected the safe operation of the plant.

5. CORRECTIVE ACTION TO REMEDY DEFICIENCY

Efforts are currently underway to inspect and repair, if necessary, these circuit breakers. Two corrective actions are in progress at BVPS-2 to resolve the subject problems with BBC K-Line circuit breakers. If damaged insulation is found on any of the K-Line breakers, heat-shrink insulation will be added to the control wiring to protect and further insulate the wiring. For the subject BBC K-Line circuit breakers, an adhesive backed gasket will be installed on the top edge of the dust

Significant Deficiency Report 85-07  
"Damage to BBC K-Line Circuit Breakers"

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shield thus rendering the dust shield unable to cause any damage to control wire insulation. These corrective actions are recommended by BBC and are being implemented and tracked at BVPS-2 via Engineering Field Action Report EFAR-681.

6. ADDITIONAL REPORTS

This is the final report regarding the damage to the control wire insulation of the subject BBC K-Line circuit breakers.