



Duquesne Light

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September 16, 1985

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

ATTENTION: Dr. Thomas E. Murley
Administrator

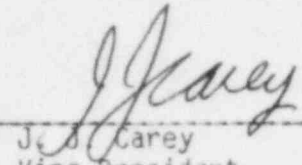
SUBJECT: Beaver Valley Power Station - Unit No. 2
Docket No. 50-412
Significant Deficiency Report No. 85-05, Final Report
"Insufficient Thickness of Insulating Tape on 5 kV Power Cable
Terminations"

Gentlemen:

This report provides information as required by 10CFR50.55(e) with respect to the August 14, 1985, telephone report of a potential significant deficiency. DLC anticipates no further reports with respect to this issue.

DUQUESNE LIGHT COMPANY

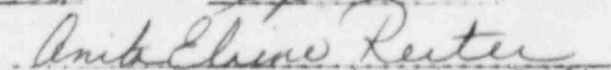
By


J. Carey
Vice President

RW/wjs
Attachment

cc: Mr. J. M. Taylor, Director (3) (w/a)
Mr. B. K. Singh, Project Manager (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
16th DAY OF September, 1985.


Anita Elaine Reiter
Notary Public

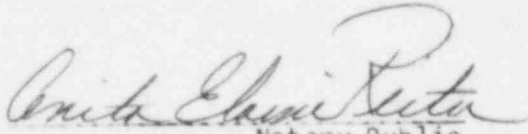
ANITA ELAINE REITER, NOTARY PUBLIC
ROBINSON TOWNSHIP, ALLEGHENY COUNTY
MY COMMISSION EXPIRES OCTOBER 20, 1986

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COMMONWEALTH OF PENNSYLVANIA)
) SS:
COUNTY OF ALLEGHENY)

On this 16th day of September, 1985, 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.


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 85-05
"Insufficient Thickness of Insulating Tape
on 5 kV Power Cable Terminations

1. SUMMARY

Review of SWEC drawing 12241-RE-28A-4, details E-1, F, and G which specify the method and materials for 5 kV power cable terminations to motors and other miscellaneous equipment with pigtails, indicated that the specified number of layers of insulation tape did not agree with the manufacturer's (Kerite Company) specified requirements.

2. IMMEDIATE ACTION TAKEN

On July 18, 1985, E&DCR 2P-4757 was issued to modify all suspect 5 kV terminations made under details G, E-1, and F on drawing 12241-RE28A-4.

Mr. R. J. Wallauer, Duquesne Light Company (DLC), Regulatory Affairs Department, notified Mr. G. Walton, NRC Region I office, by telephone on August 14, 1985, that DLC considered this matter to be potentially reportable under 10CFR50.55(e).

3. DESCRIPTION OF THE DEFICIENCY

An incorrect number of layers of insulating tape was specified on SWEC drawing 12241-RE28A-4 for 5 kV terminations under Details E-1, F, and G. Forty-six (46) terminations had been made due to the erroneous drawing specifications.

4. ANALYSIS OF SAFETY IMPLICATION

The deficient taping procedures were used at the electrical connection to various safety-related 4.16 kV motors. The total thickness of insulating tape specified on drawing 12241-RE-28A-4 would be approximately 120 mil as compared to 500 mil specified by the manufacturer (Kerite Company).

Most of the deficient terminations were located in, or were scheduled to be located in a harsh environment. The significant reduction in insulating tape thickness below the manufacturer's requirements is considered to be sufficient basis for assuming the termination could fail prematurely. Failure of the termination could result in loss of operation of a connected 4.16 kV safety-related motor.

5. CORRECTIVE ACTION TO REMEDY DEFICIENCY

The fifteen (15) 5 kV cable terminations turned over to the Start-up Group (SUG) have been reworked in accordance with E&DCR 2P-4757 to achieve the proper number of layers of insulating tape, thus bringing the terminations in agreement with the manufacturer's requirements. The remaining 31 terminations will be reworked prior to turnover to SUG.

Drawing 12241-RE-28A-4 has been revised such that details E-1, F, and G reflect the manufacturer's 5 kV termination requirements. In addition, all other details on suspect termination drawings have been reviewed for consistency with manufacturer's requirements.

6. ADDITIONAL REPORTS

This is the final report regarding the insufficient thickness of insulating tape on 5 kV power cable terminations.