

PHILADELPHIA ELECTRIC COMPANY

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JOHN S. KEMPER
VICE-PRESIDENT
ENGINEERING AND RESEARCH

Mr. Ronald C. Haynes, Director
United States Nuclear Regulatory Commission
Office of Inspection and Enforcement, Region I
631 Park Avenue
King of Prussia, PA 19406

SUBJECT: Significant Deficiency Report #74
Interim Report of 4 kV Switchgear Deficiencies
Limerick Generating Station Units 1 & 2
NRC Construction Permit Nos. CPPR 106 & 107

REFERENCE: Telecon of February 25, 1983
P. K. Pavlides (PECO) to R. Architzel
and D. Johnson (USNRC)

FILE: QUAL 2-10-2 (SDR #74)

Dear Mr. Haynes:

This is an interim report regarding a potential significant deficiency on 4 kV switchgear supplied to Limerick Generating Station by Brown-Boveri Electric, Inc.

The first item discussed in the reference is loose relay terminations on the 1000/5 ratio current transformers of the 4 kV safeguard switchgear busses. This connection problem has been corrected with an inspection and rework program of all 1000/5 ratio current transformers on the 4 kV safeguard busses. The rework consisted of removing and shortening the screws and securing the conductor terminations. This item one is considered to be "not reportable" because it did not require extensive evaluation, redesign or repair and because it would not have created a substantial safety hazard.

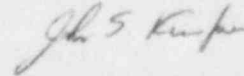
The second item discussed involves the improper operation of three (3) Brown-Boveri circuit breakers located in the 4 kV safeguard power system. These are all identified as model 5HK1200-350 circuit breakers. The deficiencies involved uncontrolled operation of the breakers following the spring charging cycle. During preoperational testing one breaker inadvertently closed following completion of spring charging and two others spontaneously and continuously closed and tripped following the spring charging cycle. Note that the number of breakers is different than given in the 2/25/83 telecon; the preliminary information was inaccurate.

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The three 4 kV breakers have been returned to Brown-Boveri Electric, Inc. for analysis of the problem(s). When PECO receives Brown-Boveri's report we will be in a position to determine the reportability of the deficiency. It is expected that this determination will be complete and our report submitted to you by June 25, 1983.

Sincerely,



Copy to: Director of Inspection and Enforcement
United States Nuclear Regulatory Commission
Washington, DC 20555

S. K. Chaudhary, Resident NRC Inspector (Limerick)