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DEC 29 1981

JOHN S. KEMPER  
VICE-PRESIDENT  
ENGINEERING AND RESEARCH

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

SUBJECT: Significant Deficiency Report No. 42  
Final Report for Nonconforming Concrete Anchor  
Bolt Installations  
Limerick Generating Station, Units 1 & 2  
NRC Construction Permit Nos. CPPR-106, 107

FILE: QUAL 2-10-2 (SDR #42)

REFERENCES: a) Telecon of May 19, 1981  
H. R. Walters (PECo.) to J. McCann (NRC)  
b) Interim report dated June 19, 1981

Dear Mr. Haynes:

Attached is our final report on the above subject deficiency which was reported to the USNRC per the above references in accordance with 10CFR50.55(e).

If there are any questions on the matter, we would be pleased to discuss them with you.

Sincerely,

*John S. Kemper*

Copy to: Director of Inspection and Enforcement  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

J. P. Durr, USNRC Site Resident Inspector

Attachment

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Significant Deficiency Report No. 42  
Nonconforming Concrete Anchor Bolt Installations  
Limerick Generating Station - Units 1 and 2

Description of Deficiency

In our interim report dated June 19, 1981, we indicated several instances of nonconforming spacing between supports mounted with expansion anchors that have been identified and documented by both PECO and Bechtel in accordance with site procedures. These nonconformances were subsequently evaluated by Bechtel and have been accepted with a "use as is" disposition. If, in the future, additional nonconformances are found, they will be dispositioned on a case by case basis.

The last paragraph of the same report indicated that we have not determined if similar nonconformances exist between expansion anchors and other embedded items such as plates, channels, and unistruts with welded studs and grouted-in bolts since these items were not specifically covered in the specifications.

Corrective Action

A criteria has been developed to establish the minimum center to center spacing required between expansion anchors and grouted-in bolts and other embedded items, such as plates, channels, and unistruts with welded studs. This criteria will be implemented by December 31, 1981, covering all future work.

A field survey was performed by Bechtel engineers of installed work to determine if the existing spacing between expansion anchors and other embedded items satisfies the recently established criteria. The results of the survey, indicated that there were no violations of the new requirements. It was also confirmed that for all anchors 5/8" in diameter and smaller, the requirements of the criteria cannot be violated due to the small distances established by the criteria when compared to the distance required from the center of the embedded anchor to the edge of the plate and the clearance required for the work tools for proper anchor installation.

Conclusion

Based on the engineering evaluation of the above mentioned sample survey and the requirements of the criteria, we have determined the installed anchors meet the design safety factor. Consequently, had the condition gone undetected, it would not have impaired the safety of the plant and, therefore, is considered to be not reportable under 10CFR50.55(e).

CED/dmc