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MAR 24 1981

SSINS 9124

MEMORANDUM FOR: T. T. Martin, Acting Director, Division of Engineering and Technical Inspection, Region I

FROM: E. L. Jordan, Deputy Director, Division of Resident and Regional Reactor Inspection, IE

SUBJECT: LIMERICK UNIT 1, DN 50-352
POST TENSIONING OF FUEL POOL GIRDERS
(AITS H07003150H07)

- REFERENCES:
- (1) Memo R. T. Carlson to E. L. Jordan, dated February 6, 1981.
 - (2) Memo R. T. Carlson to G. W. Reimuth, dated June 7, 1979.
 - (3) Letter Philadelphia Electric Co. (PECo) to B. Grier, dated May 31, 1979 with Attachments.
 - (4) NRC Inspection Report 50-352/79-01; 50-353/79-01 dated March 5, 1979 (unresolved item 352/79-01-02).

References (1) and (2) transmitted for our review and evaluation a response from Philadelphia Electric Co. (reference 3), regarding an inspection report unresolved item (reference 4) identified during post-tensioning the fuel pool girders at Limerick, Unit 1 Station. The item identified the need for qualification tests addressing slippage of the wedge anchors during prestressing and the use of a monostrand jack to recover the prestress loss due to slippage.

We have reviewed the submittal by PECO which includes an engineering evaluation performed by Bechtel and results of VSL Corporation's qualification tests of the post-tensioning system materials and field procedures. The results of our review are:

1. The qualification tests conducted by VSL verify that the capacity of the anchorage system is capable of meeting design requirements.
2. Variations in presenting the wedge anchors and the use of a monostrand ram should not affect the applicability of the qualification tests.
3. The evaluations performed by PECO, Bechtel and VSL adequately address the identified unresolved item.

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The results of our review have been discussed with A. Varela and he agrees that the unresolved item can be closed.

Edward L. Jordan, Deputy Director
Division of Resident and Regional
Reactor Inspection, IE

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