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PHILADELPHIA ELECTRIC COMPANY

2301 MARKET STREET

P.O. BOX 8699

PHILADELPHIA, PA. 19101

(215) 841-4000

September 24, 1979

Mr. Boyce H. Grier
Office of Inspection and Enforcement
Region 1
United States Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, PA 19406

Dear Mr. Grier:

As a result of the supplement to IE Bulletin 79-02, and our finding oversized bolt holes during a field inspection, our Mechanical Engineering Division has determined the effect on calculated bolt safety factors because of oversized bolt holes. By conservatively limiting the distribution of horizontal forces to the bolts and utilizing potential friction forces developed by bolt preload, it was concluded that bolts with calculated safety factors greater than four and with oversized holes would still have safety factors exceeding two.

Seismic supports with safety factors less than four were identified by Engineering and inspected. This revealed that 29 plates required field modification to assure a shear safety factor of greater than two. Consideration of the bolt hole gap criterion necessitated the installation of plate washers to transfer shear loads for approximately 2/3 of the bolts on these supports. In addition to the 29 supports referenced above, three one-plate supports were noninspectable. Therefore, shear washers were installed on these plates to assure both proper transfer of shear loading and a safety factor exceeding two.

In summary, nine of those supports requiring field modification because of the bolt hole gap criterion have been permanently repaired (safety factor greater than 5).

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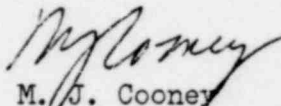
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The remaining 23 supports have been temporarily modified to provide a safety factor greater than two. These will be permanently modified to obtain safety factors exceeding five at a later date.

Our inspection program is continuing in accordance with procedures and where necessary modifications will be made to restore the safety factors to meet the requirements of Bulletin 79-02.

Very truly yours,



M. J. Cooney
Superintendent
Generation Division/Nuclear

cc: United States Nuclear Regulatory Commission
Office of Inspection and Enforcement
Division of Reactor Operations Inspection
Washington, DC 20555

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