

PHILADELPHIA ELECTRIC COMPANY

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July 20, 1979

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

Dear Mr. Grier:

SUBJECT: Licensee Event Report Narrative Description

The following occurrence was reported to Mr. Greenman,
Region I, Office of Inspection and Enforcement on July 9, 1979.

Reference: Docket Number 50-277
50-278

Report No: LER 2-79-35/1T
Report Date: July 20, 1979
Occurrence Date: July 6, 1979
Facility: Peach Bottom Atomic Power Station
R.D. 1, Delta, PA 17314

Technical Specification Reference:

Technical Specification 6.9.a(9) requires reporting
"performance of structures, systems, or components that require
remedial action or corrective measures to prevent operation in a
manner less conservative than assumed in the accident analysis in
the safety analysis report..."

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Description of the Event:

The continuing seismic anchor inspection program being performed in response to IE Bulletin 79-02 identified 18 shell type anchors which failed to torque properly. These anchors were all associated with horizontal supports on the emergency cooling water piping on the upper deck of the emergency cooling tower structure. These were distributed as follows:

1 anchor plate contained 4 of 4 anchor test failures	4
4 anchor plates contained 2 of 4 anchor test failures	8
6 anchor plates contained 1 of 4 anchor test failures	6
TOTAL	18

Consequences of Event:

The horizontal anchors on the upper deck of the emergency cooling tower structure support emergency cooling water piping which is used only during unusual events such as flood and loss of Conowingo Pond. This piping does not affect the performance of the emergency service water or high pressure service water systems. If such unusual environmental events should occur, the distribution of the above anchors is such that it is highly unlikely the piping integrity could be affected by these anchor test failures. Safety significance is therefore considered to be minimal.

Cause of Event:

Investigation indicates the most probable cause of test failure for these anchors was improper installation. The anchors were installed in the grout beneath the support plate instead of the structural concrete.

Corrective Action:

As each anchor test failure was identified, new anchors (wedge type) were immediately installed in the structural concrete and successfully torqued to proper values.

The inspection program was performed in accordance with an approved procedure which requires testing of at least one bolt in each anchor plate. If the first bolt is successfully tested, no further testing on that anchor plate is required. If the first bolt tested fails, all other bolts on the anchor plate are then tested. This program identified 13 test failures discussed above.

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Because of the significant number of test failures, the remaining anchor bolts associated with the 47 horizontal supports in this area were tested during the week of July 9. This testing program identified five more improperly torqued bolts. Of the 188 bolts tested, a total of 18 bolts did not meet the test criteria. These 18 anchor bolts were replaced and successfully tested by July 10, 1979.

The anchor inspection program as required by IE Bulletin 79-02 is continuing and will serve to ensure that all seismic anchors are satisfactorily installed.

Yours truly,



M. D. Cooney
Superintendent
Generation Division-Nuclear

Attachment

cc: Director, NRC - Office of Inspection and Enforcement
Mr. Norman M. Haller, NRC - Office of Management &
Program Analysis



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