

50-346

October 1, 1984

bcc w/encl.:
NRC PDR
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MEMORANDUM FOR: Karl V. Seyfrit, Chief
Reactor Operations Analysis Branch
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THRU: Earl J. Brown, Lead Engineer
Engineering Systems
Reactor Operations Analysis Branch, AEOD

FROM: Chuck Hsu, Engineer
Engineering Systems
Reactor Operations Analysis Branch, AEOD

SUBJECT: FAILURE OF ANCHOR BOLT ON DIESEL GENERATOR DAY TANK

AEOD/E424

The attached Engineering Evaluation Report is forwarded for your information and further consideration. This evaluation illustrates that the damage of the anchor bolt may be related to over torquing during initial installation. The bolt damage could constitute a potential loss of fuel oil system structural integrity and possibly a total loss of the onsite emergency AC power could occur, should the damage not be detected.

The damaged anchor bolt was discovered during a modification for the base plate supports and was not the result of the licensee's routine inspection program. There are apparently no specific requirements for inspection of support bolting connections in the applicable codes or the regulatory review guidance. This report suggests that NRR consider the following actions.

1. Review the adequacy of current requirements of inservice inspection for anchor bolts of the diesel day tank supports and modify them as necessary.
2. Investigate and verify whether the deviation from rigid plate assumption in design of base plates has resulted in under design of anchor bolts on the diesel day tanks at other operating plants.

|s|

Chuck Hsu
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Attachment:
As stated

cc: R. Bosnak, MEB
W. Anderson, MSEB
G. Holahan, ORAB
M. Hum, MTEB
W. J. Collins, EGCB

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DATE	9/27/84	9/27/84	9/28/84				