

ANALYSIS OF SAFETY IMPLICATIONS

Improper torquing of subject bolting may result in excessive and undesirable vibration of the generator shaft. Also, operating vibrations and load cycling may result in further loosening of improperly tightened bolts. These conditions, if undetected and/or corrected, could render the D-G set inoperable.

CORRECTIVE ACTIONS

BPS has established a test plan for shop equipment to determine if an equipment or procedure problem exists. BPS has also provided notification to end users of D-G sets in question via Mailgram dated 4/22/82 (VU-28221). This notification included a preliminary corrective procedure to preclude any problems.

BPS has submitted a formal Colt procedure (11876749; FP 23204) by letter of 6/30/82 (VU-29801) which has been issued for record distribution and field action by UE&C letter of 7/29/82 (SBU-59276; FM 21532). Per this procedure, the final torque value has been increased to 5000 ft. lbs. The completion and results of this corrective procedure are to be reported back to Colt/BPS for confirmation and record of new torque values.

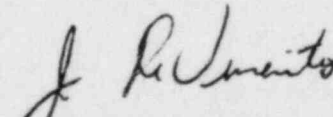
ANALYSIS AND EVALUATION

The corrective procedure provided by BPS/Colt will preclude potential problems resulting from possible misapplication of torquing equipment in the shop. The higher final torque values to be used will further reduce the potential of loosening the bolts under operating vibration and load cycling.

All of the Seabrook D-G sets were shop tested prior to shipment, with no indication of the problems noted above. Further testing is to be done on site per established pre-operational startup, and inservice operations. Even if the corrective procedure provided by BPS is not followed, it is expected that, if this deficiency existed, it would be detected long before a possible D-G failure could occur. However, application of the corrective procedure will fully eliminate this potential problem.

Very truly yours,

YANKEE ATOMIC ELECTRIC COMPANY


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