



August 31, 1993

SIL No. 459S3

SULZER BINGHAM TECHNICAL ADVISORY NO. 96-9303-002-DBS

The purpose of this S3 to SIL No. 459 is to distribute a Technical Advisory issued recently by Sulzer Bingham Pumps, Inc. and to expand a portion of recommended countermeasure no. 5 of SIL No. 459S2 to include Sulzer Bingham recirculation pumps in GE BWRs.

Discussion

In March 1993, Sulzer Bingham Pumps, Inc. issued the attached Technical Advisory, "Design modifications to eliminate reactor recirculation pump shaft cracking," No. 96-9303-002-DBS (SEE A PRINTED COPY OF THIS SIL FOR SULZER BINGHAM'S TECHNICAL ADVISORY), as an update of its earlier Technical Advisory No. 82-90041-001, issued in April 1990.

The attached Sulzer Bingham Technical Advisory No. 96-9303-002-DBS identifies the root cause of Sulzer Bingham recirculation pump shaft cracking and describes a modified shaft assembly intended to eliminate the cause of cracking. This design modification is the result of current analytical techniques.

GE Nuclear Energy's previous communications to GE BWR owners regarding recirculation pump shaft cracking have appeared in the SILs and RICSILs list in Table 1 - listed in the order of the dates on which GE Nuclear Energy issued them.

GE Nuclear Energy has reviewed and concurs with Sulzer Bingham Technical Advisory No. 96-9303-002-DBS. GE believes that implementation of the Technical Advisory's recommendations will not degrade performance of Sulzer Bingham recirculation pumps.

Recommended action

GE Nuclear Energy recommends that owners of GE BWRs with Sulzer Bingham recirculation pumps identified in Technical Advisory No. 96-9303-002-DBS implement the recommendations of that Technical Advisory.

GE Nuclear Energy also recommends that owners of GE BWRs with Sulzer Bingham recirculation pumps identified in that Technical Advisory consider incorporating a shaft UT inspection hole when ordering a replacement shaft. This inspection hole is consistent with countermeasure number 5 of SIL No. 459 Supplement 2.

Table 1 SIL or RICSIL No.	Addressed Bingham pumps	Addressed Byron Jackson pumps
RICSIL No. 003	no	yes
SIL No. 459	no	yes
RICSIL No. 028	yes	yes
RICSIL No. 029	no	yes
RICSIL No. 043	no	yes
SIL No. 459S1	no	yes
SIL No. 511	no	yes
SIL No. 459S2	yes	yes

To receive additional information on this subject or for assistance in implementing a recommendation, please contact your local GE Nuclear Energy service representative.

This SIL pertains only to GE BWRs. The conditions under which GE Nuclear Energy issues SILs are stated in SIL No. 001R2, the provisions of which are incorporated into this SIL by reference.

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*For further information, comments, questions,
on these Web pages send an E-Mail to the Power Answer Center Administrator*

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Product reference: B33 - Reactor Recirculation

Technical source: H. Tafarrodi

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