

# ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

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ACCESSION NBR: 9405180416      DOC. DATE: 94/05/09      NOTARIZED: NO      DOCKET #  
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       50-439 Bellefonte Nuclear Plant, Unit 2, Tennessee Valley Au      05000439  
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 KAZANAS, N.                      Tennessee Valley Authority  
 RECIP. NAME                      RECIPIENT AFFILIATION  
    Document Control Branch (Document Control Desk)

SUBJECT: Final deficiency rept re envirex flexible coupling inserts  
           matl acceptability. Caused by envirex failed to maintain ANSI  
           N45.2 QA program since previous supplier audit perfomed by  
           licensee. Envirex removed.

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Tennessee Valley Authority, Post Office Box 2000, Hollywood, Alabama 35752

May 9, 1994

BLRD-50-438/93-09  
BLRD-50-439/93-09

10 CFR 50.55(e)

U.S. Nuclear Regulatory Commission  
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Gentlemen:

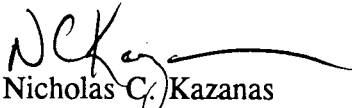
In the Matter of the Application of )  
Tennessee Valley Authority )

Docket Nos. 50-438  
50-439

BELLEFONTE NUCLEAR PLANT (BLN) - ENVIREX FLEXIBLE COUPLING  
INSERTS MATERIAL ACCEPTABILITY - BLRD-50-438/93-09 AND  
BLRD-50-439/93-09 - FINAL REPORT

The evaluation of the subject deficiency has determined that the potentially reportable condition is reportable pursuant to 10 CFR 50.55(e). The deficiency was documented in Significant Corrective Action Report (SCAR) BLSCA930011. Enclosure 1 contains TVA's final report on this subject. The commitment contained in this letter is listed in Enclosure 2.

Should there be any questions regarding this information, please telephone G. M. Morrison, Acting BLN Site Licensing Manager, at (205) 574-8057.

  
Nicholas C. Kazanas  
Site Vice President

Enclosure  
cc: See page 2

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U.S. Nuclear Regulatory Commission

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May 9, 1994

cc (Enclosure):

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## ENCLOSURE 1

### **BELLEFONTE NUCLEAR PLANT (BLN) - UNITS 1 AND 2 ENVIREX FLEXIBLE COUPLING INSERTS MATERIAL ACCEPTABILITY - SIGNIFICANT CORRECTIVE ACTION REPORT (SCAR) BLSCA930011 BLRD-50-438/93-09 AND BLRD-50-439/93-09 - FINAL REPORT**

#### DESCRIPTION OF DEFICIENCY

Traveling water screens prevent debris from blocking the water supply to the suction of the Essential Raw Cooling Water (ERCW) pumps. A flexible coupling is used between the motor and the speed reducer of the traveling water screen. Inserts for the flexible coupling supplied by Envirex, Inc. were ordered as safety-related under the vendor's ANSI N45.2 program. A supplier audit (93V-48) found that Envirex was not implementing its external and internal audit program as required by its QA manual and ANSI N45.2. Therefore, the inserts do not meet the criteria for safety-related items.

#### SAFETY IMPLICATIONS

Failure of the flexible coupling insert could cause the traveling water screen not to function which could result in a loss of net positive suction head for the ERCW pumps due to the buildup of debris. Safe operation of the plant could be affected.

#### CAUSE

Envirex failed to maintain its ANSI N45.2 QA program since the previous supplier audit performed by TVA.

#### CORRECTIVE ACTIONS

Envirex has been removed from TVA's Approved Supplier List (ASL) and the contracts placed with the vendor since the last approved audit for BLN have been reviewed. This review identified one Envirex contract for BLN. The only safety-related material or equipment supplied on this contract was the delivery of the traveling water screen motor/speed reducer flexible coupling inserts.

## ENCLOSURE 1 (Continued)

TVA stated in the interim report on this subject that an attempt to develop a commercial dedication package would be made. Since that time TVA has discovered that the material will probably require replacement again, prior to operation due to its limited life. Since the screens will not be performing a safety-related function prior to fuel loading, commercial dedication of the existing material is not cost effective and will not be performed.

The flexible coupling inserts will be replaced with material that is fully qualified for safety-related applications prior to the fuel load for each unit.

**ENCLOSURE 2**

**BELLEFONTE NUCLEAR PLANT (BLN) - UNITS 1 AND 2  
ENVIREX FLEXIBLE COUPLING INSERTS MATERIAL ACCEPTABILITY -  
SIGNIFICANT CORRECTIVE ACTION REPORT (SCAR) BLSCA930011  
BLRD-50-438/93-09 AND BLRD-50-439/93-09 - FINAL REPORT**

**COMMITMENT**

The following commitment will be completed prior to fuel load for each unit:

- The flexible coupling inserts will be replaced with material that is fully qualified for safety-related applications.