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SUBJECT: Final deficiency rept re problem w/driven gear installed in engine driven gear installed in engine water pump in 10CFR21 rept. Replacement gear procurement & installation will be completed one yr before fuel load.

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

H. Fred McCluskey  
Site Vice President, Bellefonte Nuclear Plant

**AUG 27 1993**

BLRD-50-438/93-07  
BLRD-50-439/93-07

10 CFR 50.55(e)

U.S. Nuclear Regulatory Commission  
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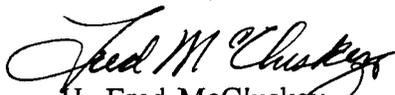
In the Matter of the Application of )  
Tennessee Valley Authority )

Docket Nos. 50-438  
50-439

**BELLEFONTE NUCLEAR PLANT (BLN) - COOPER WATER PUMP DRIVEN  
GEAR FOR EMERGENCY DIESEL GENERATORS - BLRD-50-438/93-07 AND  
BLRD-50-439/93-07 - FINAL REPORT**

The subject deficiency was reported to the NRC Operations Center on August 2, 1993. The subject deficiency is reportable in accordance with 10 CFR 50.55(e)(3) and is documented in Significant Corrective Action Report (SCAR) BLSCAPER930009. Enclosure 1 provides TVA's final report on this subject. Enclosure 2 provides TVA's commitment for completion of corrective actions for the subject deficiency.

Should there be any questions regarding this information, please telephone Greg Pierce, BLN Site Licensing Manager, at (205) 574-8058.

  
H. Fred McCluskey

Enclosures

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U.S. Nuclear Regulatory Commission  
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**AUG 27 1993**

cc (Enclosures):

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**ENCLOSURE 1**  
**BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2**  
**COOPER WATER PUMP DRIVEN GEAR**  
**10 CFR 50.55(e) REPORT NO. 1 (FINAL)**  
**SCAR NO. BLSCA930009**

Description of Deficiency

The subject deficiency was discovered during the review and evaluation of a potential 10 CFR 21 item, approximately June 10, 1993. The diesel generator vendor, Cooper Industries, identified a problem with the driven gear installed in the engine driven water pump in a 10 CFR 21 report (Cooper Industries Report #158 and Report #158 Amendment No. 1). The suspect gear, manufactured by Cooper Industries, exhibits evidence of gear wear with as little as 500 hours of run time on the diesel engine. Cooper Industries recommends that the defective gear be replaced with a modified gear of increased gear tooth hardness.

Safety Implications

Cooper Industries has stated that failure of this gear could result in engine non-availability. This could adversely affect the safety of plant operations.

Corrective Actions Taken

Engineering Design Change (EDC-00173 Rev. 0) has been issued to replace the driven gear. Replacement gear procurement and installation will be completed one year before fuel load.

**ENCLOSURE 2**  
**BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2**  
**COOPER WATER PUMP DRIVEN GEAR**  
**10 CFR 50.55(e) REPORT NO. 1 (FINAL)**  
**SCAR NO.BLSCA930009**

Emergency diesel generator engine driven water pump driven gear replacement procurement and installation will be completed one year before fuel load.