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INTRA-COMPANY MEMORANDUM

CENTERIOR ENERGY

TO File for IN 96-11, Ingress of Demineralizer Resins Increases Potential for Stress Corrosion Cracking of Control Rod Drive Mechanism Penetrations

DATE July 19, 1996

FROM J. D. Lammers, Senior Engineer - Nuclear

MAIL STOP 1046

SUBJECT Closeout of IN 96-11 (TERMS A18295)

PHONE 8509

QAD 96-70233

SUMMARY OF IN 96-11

This notice was intended to alert addressees to the increased likelihood of stress corrosion cracking of pressurized water reactor (PWR) control rod drive mechanism (CRDM) penetrations if demineralizer resins contaminate the reactor coolant system (RCS). An inspection for Primary Water Stress Corrosion Cracking at a reactor in Spain identified cracks which were apparently initiated by high sulfate levels in the RCS. The high sulfates were attributed to two cation resin ingress events that had occurred previously.

At the Spanish reactor, 16 of the 17 spare CRDM penetrations showed stress corrosion cracking and intergranular corrosion. Four of the 20 active CRDM penetrations had significant cracking. The susceptible material is Inconel 600.

ACTION TO BE TAKEN UPON REVIEW OF IN 96-11

Determine what actions (if any) need to be implemented to prevent similar events at Davis-Besse.

RESULTS

This notice was forwarded to P. K. Goyal of Civil/Mechanical Engineering for his evaluation. As documented in the memo from Theo Swim (NEN-96-10179, attached), Toledo Edison does not believe that Davis-Besse is vulnerable to similar problems. Hence, no new action will be taken at this time.

STATUS OF IN 96-11

Information Notice 96-11 is closed.

JDL/emr
Attachment

cc: P. K. Goyal, MS3045
D. W. Schreiner, MS1046
R. J. Slyker, MS3065
T. S. Swim, MS3210
CNRB, MS3030
Nuclear Records Management

IN 96-11
Response
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