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 RECIP. NAME RECIPIENT AFFILIATION
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SUBJECT: Submits interim rept on Westinghouse Alloy 600 SG mechanical
 plugs, as requested by NRC in response to recent field
 experience w/ Westinghouse Alloy 600 thermally treated
 mechanical plugs.

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March 17, 1995

AEP:NRC:1096G

Docket Nos.: 50-315
50-316

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D. C. 20555

Gentlemen:

Donald C. Cook Nuclear Plant Units 1 and 2
INTERIM REPORT ON WESTINGHOUSE ALLOY 600
STEAM GENERATOR MECHANICAL PLUGS

The following status is provided as requested by the NRC staff in response to recent field experience with Westinghouse Alloy 600 Thermally Treated (TT) mechanical plugs. This letter serves to provide the staff with our intended response to this latest field data and schedule for submitting our action plan to the NRC.

Background

In December 1994, Westinghouse notified us of recent field experience with Alloy 600 mechanical plugs that necessitated a revision to the corrosion algorithm presented in WCAP-12244 Rev. 3. This revision in the corrosion algorithm had the potential to affect our previously developed schedule and action plan for addressing Alloy 600 TT mechanical plugs in service in our steam generators.

Utility Response

No Westinghouse Alloy 600 mechanical plugs are installed in the Unit 2 steam generators and therefore no further actions are required for that unit.

The last of the Westinghouse Alloy 600 TT mechanical hot leg plugs were removed during the Cook Nuclear Plant Unit 1 1992 refueling outage. At present, Unit 1 has a total of 425 Westinghouse Alloy 600 TT mechanical plugs in service in our steam generators, all of which are cold leg plugs. Of these, a total of 89 plugs are present in tubes where plug top release may lead to tube perforation. However, the potential of this occurring is extremely limited since all tubes

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in the steam generators are partial depth rolled tubes. Table 1 (attached) provides the current plant configuration with the installed mechanical plugs.

Westinghouse has revised the plug life algorithm based on the St. Lucie plug experience. This revised algorithm is in an addendum to WCAP-12245, Rev. 3, entitled "Addendum 3 to Steam Generator Tube Plug Integrity Summary Report," which was issued in January 1995. The plug life algorithm contained in the report shows that the year 2057 is the earliest the first heat of cold leg plugs needs to be repaired or removed. The Cook Nuclear Plant Unit 1 operating license expires in 2014; therefore, no further action is required regarding the cold leg plugs.

Sincerely,



E. E. Fitzpatrick
Vice President

eh

Attachment

cc: A. A. Blind
G. Charnoff
J. B. Martin - Region III
NFEM Section Chief
NRC Resident Inspector - Bridgman
J. R. Padgett

TABLE 1: ALLOY 600 - COOK UNIT 1 COLD LEG PLUG STATUS

[illegible]

