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SUBJECT: Responds to 880222 request for addl info re steam generator tube plugging levels. Surveillance Procedure 36-084, "Steam Generator Tube Insp." will be revised prior to use during upcoming refueling/maint outage.

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February 23, 1988

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

Gentlemen:

Docket 50-305  
Operating License DPR-43  
Kewaunee Nuclear Power Plant  
Steam Generator Tube Plugging Levels

In a telephone conversation of February 22, 1988, between Messrs. J. Giitter (US NRC), E. Murphy (US NRC), and D. J. Ropson (WPSC) of my staff, Mr. Murphy requested additional information regarding steam generator tube plugging levels. Specifically requested was a description of the administrative methods used by WPSC to ensure that, with the implementation of sleeving, the allowable steam generator tube plugging level is not unintentionally exceeded.

WCAP 11643, Kewaunee Steam Generator Sleeving Report, November, 1987, (Proprietary), provides "hydraulic equivalency ratios" for various sleeving configurations (e.g., one sleeve per tube installed in hot leg; two sleeves installed per tube, etc.). These "hydraulic equivalency ratios" define tube sleeving thermal-hydraulic effects in terms of equivalence to installed tube plugs.

Surveillance Procedure 36-084, "Steam Generator Tube Inspection," will be revised prior to use during the upcoming refueling/maintenance outage. In part, this revision will include the calculational steps necessary (using these "hydraulic equivalency ratios") to reduce the total number of tubes sleeved and/or plugged to a common basis (i.e., equivalent plugged tubes) for comparison with the limit (tube plugging level) established in the most recent ECCS analysis. This procedure will provide for a specific review of compliance with the ECCS defined tube plugging level (currently 10%).

The most recent Emergency Core Cooling System (ECCS) performance analysis for the Kewaunee Nuclear Power Plant supports plant operation at up to 10% steam generator tube plugging. The Kewaunee Nuclear Power Plant Updated Final Safety Analysis Report (USAR) will be revised to reflect this change.

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If more information is needed, or if you have questions relative to the above information, feel free to contact C. S. Smoker at 414 - 433-1415.

Sincerely,

*Mark L. Marsh* for

D. C. Hintz  
Vice President - Nuclear Power

CSS/jms

cc - Mr. Robert Nelson, US NRC  
US NRC, Region III