From: Lawrence Burkhart
To: Brian Sepelak
Date: 5/3/01 8:10AM
Subject: RAI - POWER UPRATE (SG ISSUES)

Attached is the RAI with regard to your 1.4 % power uprate request. Please review and let me know when/if you would like to discuss with the reviewer.

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Subject: RAI - POWER UPRATE (SG ISSUES)
Creation Date: 5/3/01 8:10AM
From: Lawrence Burkhart

Created By: LJB@nrc.gov

Recipients
firstenergycorp.com
sepelakb (Brian Sepelak)

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rai.emcb.wpd	3563	04/23/01 02:16PM
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REQUEST FOR ADDITIONAL INFORMATION
BEAVER VALLEY UNITS 1 AND 2 POWER UPRATE
MATERIALS AND CHEMICAL ENGINEERING BRANCH

By letter dated January 18, 2001, FirstEnergy Nuclear Operating Company (FENOC) requested an amendment to increase the rated thermal power from 2652 MWt to 2689 MWt (about 1.4%). To completes its review, the Material and Chemical Engineering Branch requests the following additional information.

Section 3.6.7.3 U-Bend Fatigue Evaluation

In this section, the licensee stated that "...a preliminary assessment indicates that the existing 40-percent through wall plugging criterion for steam generator tubes will remain adequate. FENOC will perform a calculation to substantiate the adequacy of the plugging criterion..." The licensee needs to discuss its preliminary assessment and pending calculation regarding the adequacy of the 40-percent through-wall plugging criterion under the power uprate conditions.

Section 3.6.7.5 Inspection Program and Tube Repair Criteria

The licensee discussed the impact of the power uprate on steam generator tube degradation mechanisms such as anti-vibration bar wear and degradation at the tube support plate intersections. As discussed in the licensee's inspection reports and phone calls, the following degradation was identified in Beaver Valley Unit 1 during the tube inspection performed in the Spring 2000: primary water stress corrosion cracking (PWSCC) in row 1 U-bend, PWSCC at the top of the tubesheet, outside diameter stress corrosion cracking (ODSCC) in the sludge pile region, ODSCC at the tube support plate intersections, and cold leg thinning. The following degradation was identified in Beaver Valley Unit 2 during the inspection performed in the Fall 2000: anti-vibration bar wear, ODSCC at tube support plate intersections, outside diameter degradation at the top of the tubesheet. The licensee needs to discuss the impact of the power uprate on those degradation mechanisms that were not discussed in the January 18, 2001, submittal.