

July 9, 2003

Mr. P. E. Katz, Vice President  
Calvert Cliffs Nuclear Power Plant, Inc.  
Calvert Cliffs Nuclear Power Plant  
1650 Calvert Cliffs Parkway  
Lusby, MD 20657-4702

SUBJECT : REQUEST FOR ADDITIONAL INFORMATION, TECHNICAL SPECIFICATION  
CHANGE TO INCREASE SPENT FUEL POOL MAXIMUM ENRICHMENT LIMIT  
WITH SOLUBLE BORON CREDIT (TAC NO. MB8896)

Dear Mr. Katz:

By letter dated May 1, 2003, you submitted a license amendment to incorporate changes into the Technical Specifications for Calvert Cliffs Nuclear Power Plant, Unit No. 1. The proposed changes will increase the maximum enrichment limit of the fuel assemblies that can be stored in the Unit 1 spent fuel pool by taking credit for soluble boron in maintaining acceptable margins of subcriticality.

The Nuclear Regulatory Commission staff has reviewed the information provided and determined that additional information is required in order to complete the evaluation. The additional information being requested is enclosed. Please provide a response within 45 days from the date of this letter.

Sincerely,

*/RA/*

Guy S. Vissing, Senior Project Manager, Section 1  
Project Directorate I  
Division of Licensing Project Management  
Office of Nuclear Reactor Regulation

Docket No. 50-317

Enclosure: As stated

cc w/encl: See next page

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DATE	7/8/03	7/7/03	7/8/03

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REQUEST FOR ADDITIONAL INFORMATION  
REGARDING CALVERT CLIFFS NUCLEAR POWER PLANT, INC.  
TECHNICAL SPECIFICATION CHANGE TO INCREASE SPENT FUEL POOL MAXIMUM  
ENRICHMENT LIMIT WITH SOLUBLE BORON  
CALVERT CLIFFS NUCLEAR POWER PLANT, UNIT NO. 1  
DOCKET NO. 50-317

1. The licensee stated in its submittal that it has a coupon surveillance program to test the condition of the carborundum material exposed to the spent fuel pool (SFP) environment. Provide the following information on the program:
  - a. The SFP has non uniform radiation fields due to different distributions of fuel assemblies having different enrichments and different burnups. Also, axial power distribution in individual fuel rods is not uniform. Describe the locations chosen for the coupons relative to the fuel assemblies in order to make them exposed to the most conservative (highest) dose rates.
  - b. Describe what inspections were performed on the test coupons and how was the real density determined. Provide a brief summary of the results.
  - c. What were the acceptance criteria?
2. Besides the coupon surveillance program, do you perform any tests on the full-length panels in the fuel racks? If such tests have been performed, provide the following information:
  - a. Description of the test procedure.
  - b. How often are these tests performed?
  - c. Quantity of panels inspected during one inspection and the criteria used in selecting these panels.
  - d. Results of the tests performed on the panels.
3. Describe the mechanism by which carborundum neutron absorbing material in the fuel racks is degraded when exposed to the SPF environment.

Enclosure

Calvert Cliffs Nuclear Power Plant  
Unit Nos. 1 and 2

cc:

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