



# Constellation Nuclear

## Calvert Cliffs Nuclear Power Plant

*A Member of the  
Constellation Energy Group*

July 13, 2000

U. S. Nuclear Regulatory Commission  
Washington, DC 20555

ATTENTION: Document Control Desk

SUBJECT: Calvert Cliffs Nuclear Power Plant  
Unit Nos. 1 & 2; Docket Nos. 50-317 & 50-318  
Schedule Request for Review of Topical Report CENPD-398-P, "Advanced  
PHOENIX and POLCA Codes for Application to Pressurized Water Reactors"

REFERENCE: (a) Letter from I. C. Rickard (ABB-CE) to NRC Document Control Desk,  
dated March 31, 2000, Submittal of CENPD-398-P, "Advanced  
PHOENIX and POLCA Codes and Application to Pressurized Water  
Reactors"

The purpose of this letter is to request that the Nuclear Regulatory Commission (NRC) complete the review of the subject documents by April 1, 2001. Asea Brown Boveri-Combustion Engineering Nuclear Power, Inc., (ABB-CE) submitted the subject report in Reference (a) for NRC review and approval. The report describes the progression of the PHOENIX and POLCA code series from Boiling Water Reactor to Pressurized Water Reactor (PWR) application. PHOENIX is a two-dimensional, multi-group transport theory code that is used to calculate lattice physics constants for fuel assemblies. POLCA is a two-group, nodal-code for the three-dimensional simulation of the nuclear and thermal-hydraulic conditions in cores.

We expect to use the PHOENIX/POLCA PWR code system documented in CENPD-398-P for monitoring and simulation purposes following the startups from the 2002 and 2003 refueling outages. Specifically, the code will be used to do core power distribution monitoring, incore detector simulation and normal operation power maneuvering simulations. The early approval date of April 1, 2001 is requested due to the lead time for ordering incore instruments and to allow for potential shuffling of incore instrumentation types that will be dependent on the results of the NRC review.

To support the reload analyses for future fuel cycles, we request NRC designate review of the subject topical report as Priority 2: High Priority Near-Term. This priority appears consistent with Nuclear Reactor Regulation Office Letter 803, Section 2.4.3, "activities needed to support reload analyses." We believe this is an important proposal that supports reload analyses to be performed in 2002.

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Document Control Desk

July 13, 2000

Page 2

Calvert Cliffs Nuclear Power Plant, Inc. and Westinghouse (formerly ABB-CE) have committed to provide you with all necessary information to facilitate your review. We encourage discussions and meetings as needed to support the requested schedule.

Should you have questions regarding this matter, we will be pleased to discuss them with you.

Very truly yours,

A handwritten signature in black ink that reads "Peter Katz". The signature is written in a cursive style with a large, prominent "K".

for

Charles H. Cruse  
Vice President-Nuclear Energy

CHC/DJM/dlm

cc: R. S. Fleishman, Esquire  
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