

April 21, 2006

MEMORANDUM TO: Jennifer L. Uhle, Deputy Director for Materials Engineering
Division of Fuel, Engineering, and Radiological Research
Office of Nuclear Regulatory Research

THRU: Shah N. Malik, Acting Chief /RA/
Component Integrity Branch
Division of Fuel, Engineering, and Radiological Research
Office of Nuclear Regulatory Research

FROM: Mark Kirk, Senior Materials Engineer /RA/
Component Integrity Branch
Division of Fuel, Engineering, and Radiological Research
Office of Nuclear Regulatory Research

SUBJECT: RESULTS OF PTS ANALYSIS OF CALVERT CLIFFS UNIT 1 TO POST
AS PUBLIC DOCUMENTS INTO ADAMS

Analysis of the Calvert Cliffs Unit 1 was part of the original plan for the PTS re-evaluation project. However, as the project developed the decision was made by the management of the old Division of Engineering Technology that detailed analysis of Calvert Cliffs Unit 1 was not needed to support the project's goals. At that time the decision was also made that the then-existing thermal hydraulic (TH) analysis of Calvert Cliffs Unit 1 should be documented, and that these TH transients should be run through the probabilistic fracture mechanics code FAVOR. The enclosed reports document the results of these analysis. These results demonstrate that our expectations based on analysis of Oconee Unit 1, Palisades, and Beaver Valley Unit 1 are borne out for Calvert Cliffs Unit 1: that is, severe primary side events like medium to large diameter pipe breaks and stuck-open valves that later re-close dominated PTS risk.

The enclosed reports should be placed into ADAMS as public documents.

Enclosures:
As stated

April 21, 2006

MEMORANDUM TO: Jennifer L. Uhle, Deputy Director for Materials Engineering
Division of Fuel, Engineering, and Radiological Research
Office of Nuclear Regulatory Research

THRU: Shah N. Malik, Acting Chief /RA/
Component Integrity Branch
Division of Fuel, Engineering, and Radiological Research
Office of Nuclear Regulatory Research

FROM: Mark Kirk, Senior Materials Engineer /RA/
Component Integrity Branch
Division of Fuel, Engineering, and Radiological Research
Office of Nuclear Regulatory Research

SUBJECT: RESULTS OF PTS ANALYSIS OF CALVERT CLIFFS UNIT 1 TO POST
AS PUBLIC DOCUMENTS INTO ADAMS

Analysis of the Calvert Cliffs Unit 1 was part of the original plan for the PTS re-evaluation project. However, as the project developed the decision was made by the management of the old Division of Engineering Technology that detailed analysis of Calvert Cliffs Unit 1 was not needed to support the project's goals. At that time the decision was also made that the then-existing thermal hydraulic (TH) analysis of Calvert Cliffs Unit 1 should be documented, and that these TH transients should be run through the probabilistic fracture mechanics code FAVOR. The enclosed reports document the results of these analysis. These results demonstrate that our expectations based on analysis of Oconee Unit 1, Palisades, and Beaver Valley Unit 1 are borne out for Calvert Cliffs Unit 1: that is, severe primary side events like medium to large diameter pipe breaks and stuck-open valves that later re-close dominated PTS risk.

The enclosed reports should be placed into ADAMS as public documents.

Enclosures:
As stated

DISTRIBUTION: DET r/f MEB r/f W. Bateman R. Hardies
B. Elliott M. Mitchell S. Malik T. Mintz J Uhle

DOCUMENT NAME: E:\Filenet\ML061110167.wpd

OAD in ADAMS? (Y or N) Y ADAMS ACCESSION NO: PKG#: ML061100526 TEMPLATE NO. RES: 006
Publicly Available? (Y or N) Y DATE OF RELEASE TO PUBLIC Immediate SENSITIVE? N

To receive a copy of this document, indicate in the box: "C" = Copy without enclosure "E" = Copy with enclosure "N" = No copy

OFFICE	RES/DFERR/ME/CIB	RES/DFERR/ME/CIB	RES/DFERR/ME	SISP REVIEW
NAME	M. Kirk /RA/	S. Malik /RA/	J. Uhle /RA/	M Kirk /RA/
DATE	04/21/06	04/21/06	04/21/06	04/21/ 06

OFFICIAL RECORD COPY