

August 15, 2006

MEMORANDUM TO: William M. Dean, Assistant for Operations  
Office of the Executive Director for Operations

FROM: Mark A. Cunningham, Director /RA/  
Division of Fuel, Engineering & Radiological Research  
Office of Nuclear Regulatory Research

SUBJECT: PRESENTATION MATERIALS: "NDE ASSESSMENT OF PWSCC  
IN CONTROL ROD DRIVE MECHANISM HOUSINGS,"  
BY STEPHEN CUMBLIDGE ET AL

This memorandum conveys the enclosed copy of the materials for a presentation on nondestructive examination of primary water stress-corrosion cracking (PWSCC) in control rod drive mechanism housings removed from the vessel head discarded from North Anna Power Station, Unit 2.<sup>1</sup> Stephen Cumblidge and coauthors from Pacific Northwest National Laboratory have prepared this presentation for the 6<sup>th</sup> International Symposium on "Contribution of Materials Investigations To Improve the Safety and Performance of Light-Water Reactors" (Fontevraud 6), sponsored by the French Nuclear Energy Society (SFEN), which will take place on September 18–22, 2006. Details regarding the conference are as follows:

Meeting: Fontevraud 6 International Symposium: "Contribution of Materials Investigations To Improve the Safety and Performance of Light-Water Reactors"  
Place: Fontevraud, France  
Dates: September 18–22, 2006  
Authors: Stephen Cumblidge, George Schuster, Susan Crawford, Robert Harris, and Steven R. Doctor  
Title: "NDE Assessment of PWSCC in Control Rod Drive Mechanism Housings"

The data and conclusions in this presentation were produced under Job Code Number (JCN) Y6867, "Nondestructive and Destructive Examination of Salvaged CRDMs and J-Welds from North Anna," administered by the NRC's Office of Nuclear Regulatory Research, Division of Fuel, Engineering & Radiological Research, Materials Engineering Directorate, Fuel, Aging and Inspection Technology Research Branch.

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<sup>1</sup> The presentation materials may also be found in the NRC's Agencywide Documents Access and Management System (ADAMS) under Accession #ML062070309.

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