

September 27, 2005

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

FROM: Richard J. Barrett, Director /RA/  
Division of Engineering Technology  
Office of Nuclear Regulatory Research

SUBJECT: PRESENTATION MATERIALS: "IRRADIATION-ASSISTED STRESS  
CORROSION CRACKING OF AUSTENITIC STAINLESS STEEL IN  
BWRS," BY O.K. CHOPRA, Y. CHEN, B. ALEXANDREANU, G.  
GRUBER, AND B. SHACK

The attachment to this memorandum conveys a copy of a presentation on crack growth rates (CGRs) of irradiated austenitic stainless steels and weld heat affected zones (HAZs) in boiling-water reactor (BWR) environments.<sup>1</sup> Omesh Chopra and coauthors from Argonne National Laboratory have prepared this presentation for the upcoming Halden Irradiation-Assisted Stress Corrosion Cracking Review Meeting on September 29, 2005. Details regarding the meeting are as follows:

Meeting: Halden Irradiation-Assisted Stress Corrosion Cracking Review Meeting  
Place: Halden, Norway  
Date: September 28–29, 2005  
Authors: O.K. Chopra, Y. Chen, B. Alexandreanu, G. Gruber, and B. Shack  
Title: "Irradiation-Assisted Stress-Corrosion Cracking of Austenitic Stainless Steel in BWRs"

The data and conclusions in this presentation were produced under Job Code Number Y6388, "Environmentally Assisted Cracking in Light-Water Reactor Materials," administered by the NRC's Office of Nuclear Regulatory Research, Division of Engineering Technology. The presentation will be given by the project manager, Dr. William H. Cullen.

We are providing this package for your information to comply with Management Directive 3.9, "NRC Staff and Contractor Speeches, Papers, and Journal Articles on Regulatory and Technical Subjects," and subsequent guidance from the Office of the Executive Director for Operations. You may freely transmit this package to the Commissioners' Assistants and others who may be interested. This presentation does not contain any information related to policy issues of concern to the NRC.

Attachment: As stated

CONTACT: W.H. Cullen, RES/DET/MEB, (301) 415-7510, [whc@nrc.gov](mailto:whc@nrc.gov)

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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 #ML052570662.

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