

July 7, 2006

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

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

SUBJECT: PRESENTATION MATERIALS: "CRACK GROWTH RATES
IN A PWR ENVIRONMENT OF NICKEL-BASE ALLOY WELDS
FROM THE DAVIS-BESSE AND V.C. SUMMER PLANTS,"
BY BOGDAN ALEXANDREANU, OMESH CHOPRA, AND BILL SHACK

This memorandum conveys the enclosed copy of the materials for a presentation on crack growth rates of nickel alloy welds in a pressurized-water reactor (PWR) environment from the Davis-Besse and Virgil C. Summer nuclear power stations.¹ Bogdan Alexandreanu, coauthors from Argonne National Laboratory, and Dr. William Cullen of NRC have prepared this presentation for the 6th 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: Bogdan Alexandreanu, Omesh Chopra, and Bill Shack

Title: "Crack Growth Rates in a PWR Environment of Nickel-Base Alloy Welds from the Davis-Besse and V.C. Summer Plants"

The data and conclusions in this presentation were produced under Job Code Number (JCN) Y6388, "Environmentally Assisted Cracking in Light-Water Reactor Materials," administered by the NRC's Office of Nuclear Regulatory Research, Division of Fuel, Engineering & Radiological Research, Materials Engineering Directorate, Corrosion and Metallurgy Branch.

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.

Enclosure:
As stated

CONTACT: William H. Cullen, RES/DFERR
301-415-7510

¹ The presentation materials may also be found in the NRC's Agencywide Documents Access and Management System (ADAMS) under Accession #ML061800263.

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