

December 4, 2006

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

FROM: Mark T. Kirk, Senior Materials Engineer */RA/ Jennifer Uhle for Mark K.*
Component Integrity Branch
Division of Fuels, Engineering, and Radiological Research
Office of Nuclear Regulatory Research

THRU: Robert Hardies, Branch Chief */RA/ Jennifer Uhle for Robert H.*
Component Integrity Branch
Division of Fuels, Engineering, and Radiological Research
Office of Nuclear Regulatory Research

SUBJECT: POSTING OF OLD VERSIONS OF FAVOR THEORY AND USERS
MANUALS INTO THE ADAMS PUBLIC DOCUMENT SYSTEM

For the past five years the Heavy Section Steel Technology Project at the Oak Ridge National Laboratory has, first under JCN Y6244 and currently under JCN Y6533, developed a probabilistic fracture mechanics code called FAVOR (Fracture Analysis of Vessels Oak Ridge). The FAVOR code is one of the main computational tools supporting the pressurized thermal shock re-evaluation effort. Attached to this memo are the users and theory manuals for two intermediate versions of the FAVOR code: FAVOR 05.1 and FAVOR^{EP} 05.1 (the "EP" superscript denotes the elastic-plastic version of FAVOR). These documents should be posted into ADAMS and marked for public access.

Enclosures:

1. FAVOR 05.1 Theory Manual
2. FAVOR 05.1 Users Manual
3. FAVOR^{EP} 05.1 Theory Manual
4. FAVOR^{EP} 05.1 Users Manual

CONTACT: Dr. Mark T. Kirk, RES/DFERR
301-415-6015

December 4, 2006

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

FROM: Mark Kirk, Senior Materials Engineer */RA/ Jennifer Uhle for Mark K.*
Component Integrity Branch
Division of Fuels, Engineering, and Radiological Research
Office of Nuclear Regulatory Research

THRU: Robert Hardies, Branch Chief */RA/ Jennifer Uhle for Robert H.*
Component Integrity Branch
Division of Fuels, Engineering, and Radiological Research
Office of Nuclear Regulatory Research

SUBJECT: POSTING OF OLD VERSIONS OF FAVOR THEORY AND USERS
MANUALS INTO THE ADAMS PUBLIC DOCUMENT SYSTEM

For the past five years the Heavy Section Steel Technology Project at the Oak Ridge National Laboratory has, first under JCN Y6244 and currently under JCN Y6533, developed a probabilistic fracture mechanics code called FAVOR (Fracture Analysis of Vessels Oak Ridge). The FAVOR code is a one of the main computational tools supporting the pressurized thermal shock re-evaluation effort. Attached to this memo are the users and theory manuals for two intermediate versions of the FAVOR code: FAVOR 05.1 and FAVOR^{EP} 05.1 (the "EP" superscript denotes the elastic-plastic version of FAVOR). These documents should be posted into ADAMS and marked for public access.

Enclosures:

1. FAVOR 05.1 Theory Manual
2. FAVOR 05.1 Users Manual
3. FAVOR^{EP} 05.1 Theory Manual
4. FAVOR^{EP} 05.1 Users Manual

DISTRIBUTION: DFERR r/f ME r/f W. Bateman R. Hardies
M. Mitchell S. Malik E. Focht J Uhle
B. Elliott

OAR in ADAMS? (Y or N) Y ADAMS ACCESSION NO: PKG ML063350314 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 attachment/enclosure "E" = Copy with attachment/enclosure "N" = No copy

OFFICE	RES/DFERR/ME/CIB (includes SISP review certification)	RES/DFERR/ME/C IB	RES/DFERR/ME (includes SISP review certification)
NAME	M. Kirk	R. Hardies	J. Uhle
DATE	12/04 /06	12/04/06	12/04/06

OFFICIAL RECORD COPY