

December 8, 2005

MEMORANDUM TO: Jennifer L. Uhle, Chief
Materials Engineering Branch
Office of Nuclear Regulatory Research

THRU: Allen Hiser Jr., Chief */RA/*
Component Integrity Section
Office of Nuclear Regulatory Research

FROM: Mark Kirk, Senior Materials Engineer */RA/*
Component Integrity Section
Office of Nuclear Regulatory Research

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

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.

As the FAVOR code has been improved and debugged, several different versions have been issued. The manuals associated with each of these versions was not always posted for record into ADAMS. The purpose of this letter is to do this for four old versions of FAVOR.

- October 2001: FAVOR Version 01.1
- September 2002: FAVOR Version 02.3
- November 2002: FAVOR Version 02.4
- August 2003: FAVOR Version 03.1

The FAVOR Version numbering scheme is as follows: the numbers before the decimal point designate the year while the numbers after the decimal point designate the version number. It should be noted that FAVOR Versions 02.1 and 02.2 were internal development versions that were never published. Each of the four FAVOR versions listed above is documented by two attachments to this letter: a theory manual and a user's manual for each version. FAVOR Version 04.1 was issued in December 2004; it is documented at ADAMS ML051780310 and ML051790408.

Attachments: As stated

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