



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

June 22, 2020

MEMORANDUM TO:

Joseph E. Donoghue, Director  
Division of Safety Systems  
Office of Nuclear Reactor Regulation

Michael X. Franovich, Director  
Division of Risk Assessment  
Office of Nuclear Reactor Regulation

FROM:

Michael J. Case, Director **/RA/**  
Division of Systems Analysis  
Office of Research

SUBJECT:

ERI PEER REVIEW OF SOURCE TERM WORK AT  
SANDIA NATIONAL LABS

The purpose of this memorandum is to provide the results of a peer review performed by Energy Research, Inc. (ERI). This review was of work performed at Sandia National Laboratories (SAND2007-7697, SAND2008-6664, SAND2010-1633, and SAND2011-0128) under UNR NRR-2004-001 which investigated the impact HBU and MOX fuels on severe accidents and recommended source terms for reactors with HBU and MOX fuel for equipment qualification and reactor siting dose calculations.

ERI agreed that there was ample justification for changing the source terms in NUREG-1465 and provided several recommendations.

Enclosure:

ERI/NRC 11-211, "Peer Review of Accident  
Source Terms for Light-Water NPPs Using  
High-Burnup and Mixed Oxide Fuel"

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SUBJECT: ERI PEER REVIEW OF SOURCE TERM WORK AT SANDIA NATIONAL  
LABS DATED JUNE 22, 2020

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**ADAMS Accession Number: ML20174A418****\*Concurred via Email**

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