




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

May 3, 2023

MEMORANDUM TO: Kimberly Webber, Director  
Division of Safety Systems  
Office of Nuclear Regulatory Research

FROM: Kenneth W. Armstrong, Chief  Signed by Armstrong, Kenneth  
Code and Reactor Analysis Branch II on 05/03/23  
Division of Safety Systems  
Office of Nuclear Regulatory Research

SUBJECT: Public Release of the NRC's Scientific Computer Code Investment Plan

Scientific codes are used daily by the NRC, industry, academic, and international community to support safety, security, and regulatory decision-making. The NRC maintains, develops, acquires (from other entities such as the Department of Energy), and licenses scientific codes required to ensure the safety and security of the nuclear power plant operating fleet; spent fuel storage and transportation packages and facilities; fuel cycle facilities; nuclear materials; decommissioning activities; and expected new commercial nuclear power facilities activities. These scientific codes support the independent technical basis development and are often depended on for confirmatory analysis in support of regulatory decision making.

The purpose of the enclosed code investment plan (CIP) is to proactively manage the agency's maintenance and development of its scientific computer codes through development and documentation of the investment strategies needed to meet current and future regulatory decision-making needs for the agency. By accounting for the scientific codes needs and the resource requirements, the NRC will continue to meet its safety and security mission, while also making the needed investments to be ready to regulate new and advanced technologies.

This CIP: 1) provides the NRC with an integrated management tool for its scientific codes, 2) informs future budget formulations, 3) stabilizes scientific code annual resource requirements, and 4) identifies human capital and staff expertise requirements. This plan is a living document with periodic updates as needed.

Enclosure:  
NRC Scientific Computer Code Investment Plan

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NRC Scientific Computer Code Investment Plan DATE May 3, 2023

DISTRIBUTION:

OFFICE	RES/DSA	RES/DSA	RES/DSA	
NAME	KArmstrong <i>KA</i>	KWebber CRoman for <i>CR</i>	KArmstrong <i>KA</i>	
DATE	May 2, 2023	May 3, 2023	May 3, 2023	

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