



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

October 1, 2021

MEMORANDUM TO: Andrea D. Veil, Director
Office of Nuclear Reactor Regulation

FROM: Mohamed Shams, Director  Signed by Shams, Mohamed
Division of Advanced Reactors and Non-Power on 10/01/21
Production and Utilization Facilities
Office of Nuclear Reactor Regulation

SUBJECT: ACTION PLAN TO REVIEW THE RESTART OF THE NATIONAL
INSTITUTE OF STANDARDS AND TECHNOLOGY, NATIONAL
BUREAU OF STANDARDS TEST REACTOR FOLLOWING
VIOLATION OF A SAFETY LIMIT (EPID NO. L-2021-LLN-0000)

This memorandum transmits the restart action plan (RAP) developed to review the restart activities, root cause evaluation, and corrective actions related to the violation of the National Institute of Standards and Technology, National Bureau of Standards test reactor (NBSR) safety limit on February 3, 2021. As described in Title 10 of the *Code of Federal Regulations* Section 50.36, "Technical specifications," paragraph (c)(1), if any safety limit is exceeded, the reactor must be shut down. The licensee is required to notify the Commission, review the matter, and record the results of the review, including the cause of the condition and the basis for corrective action taken to preclude recurrence. In addition, the regulation states that "[o]peration must not be resumed until authorized by the Commission."

The RAP outlines the steps developed by the U.S. Nuclear Regulatory Commission staff to inform the restart decision of the NBSR. The RAP is intended to be a living document as the results of material and facility inspections continue to inform the corrective action. The RAP will undergo revision until the licensee resumes normal reactor operations.

Docket No. 50-184

Enclosure:
National Institute of Standards and
Technology Reactor Restart Action Plan

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**ADAMS Accession Nos.: ML21272A367 Pkg,
ML21272A365 Memo, ML21272A366 Enclosure**

NRR-106

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