



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

January 23, 2019

Dr. Robert Dimeo, Director
NIST Center for Neutron Research
National Institute of Standards and Technology
U.S. Department of Commerce
100 Bureau Drive, Mail Stop 8561
Gaithersburg, MD 20899-8561

SUBJECT: NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY - ACCEPTANCE
OF AMENDMENT REQUEST TO THE RENEWED FACILITY LICENSE NO. TR-5
FOR THE NATIONAL BUREAU OF STANDARDS TEST REACTOR
(EPID NO. L-2018-LLA-0313)

Dear Dr. Dimeo:

By letter dated October 26, 2018 (Agencywide Documents Access and Management System Accession No. ML18303A290), the National Institute of Standards and Technology (NIST) submitted a license amendment request (LAR) for the NIST Center for Neutron Research Test Reactor. The proposed LAR request would adjust the tritium effluent values for the new deuterium cold source under Title 10 of the *Code of Federal Regulations* (10 CFR) 20.1302, "Compliance with dose limits for individual members of the public," paragraph (2)(c). The purpose of this letter is to provide the results of the U.S. Nuclear Regulatory Commission (NRC) staff's acceptance review of this amendment request. The acceptance review was performed to determine if there is sufficient technical information in scope and depth to allow the NRC staff to complete its detailed technical review. The acceptance review is also intended to identify whether the application has any readily apparent information insufficiencies in its characterization of the regulatory requirements or the licensing basis of the facility.

Consistent with Section 50.90, "Application for amendment of license, construction permit, or early site permit," of 10 CFR an amendment to the license (including the technical specifications) must fully describe the changes requested, and following as far as applicable, the form prescribed for original applications. Section 50.34, "Contents of applications; technical information," of 10 CFR addresses the content of technical information required. This section stipulates that the submittal address the design and operating characteristics, unusual or novel design features, and principal safety considerations.

The NRC staff has reviewed the NIST application and concluded that it does provide technical information in sufficient detail to enable the NRC staff to proceed with its detailed technical review and make an independent assessment regarding the acceptability of the proposed amendment in terms of regulatory requirements and the protection of public health and safety and the environment. If additional information is needed for the NRC staff to complete its technical review, you will be advised by separate correspondence.

If you have any questions, please contact me at (301) 415-1404 or by electronic mail at Xiaosong.Yin@nrc.gov.

Sincerely,

/RA/

Xiaosong Yin, Project Manager
Research and Test Reactors Licensing Branch
Division of Policy and Rulemaking
Office of Nuclear Reactor Regulation

Docket No. 50-184
License No. TR-5

cc: See next page

cc:

Environmental Program Manager III
Radiological Health Program
Air & Radiation Management Adm.
Maryland Dept of the Environment
1800 Washington Blvd, Suite 750
Baltimore, MD 21230-1724

Director, Department of State Planning
301 West Preston Street
Baltimore, MD 21201

Director, Air & Radiation Management Adm.
Maryland Dept of the Environment
1800 Washington Blvd, Suite 710
Baltimore, MD 21230

Director, Department of Natural Resources
Power Plant Siting Program
Energy and Coastal Zone Administration
Tawes State Office Building
Annapolis, MD 21401

President
Montgomery County Council
100 Maryland Avenue
Rockville, MD 20850

Test, Research and Training
Reactor Newsletter
P.O. Box 118300
University of Florida
Gainesville, FL 32611

Dr. Thomas H. Newton, Deputy Director
National Institute of Standards and
Technology
NIST Center for Neutron Research
U.S. Department of Commerce
100 Bureau Drive, Mail Stop 6101
Gaithersburg, MD 20899-6101

SUBJECT: NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY - ACCEPTANCE
OF AMENDMENT REQUEST TO THE RENEWED FACILITY LICENSE NO. TR-5
FOR THE NATIONAL BUREAU OF STANDARDS REACTOR
(EPID NO. L-2018-LLA-0313) DATE: JANUARY 23, 2019

DISTRIBUTION:

PUBLIC

RidsNrrDlpPrlb

CBassett, NRR

RTR r/f

RidsNrrDlpProb

XYin, NRR

RidsNrrDlp

AAdams, NRR

ADAMS Accession No. ML19016A200***concurrence via email**

OFFICE	NRR/DLP/PRLB/PM*	NRR/DLP/PRLB/LA*	NRR/DLP/PRLB/BC	NRR/DLP/PRLB/PM
NAME	XYin	NParker	AAdams	XYin
DATE	1/16/2019	1/16/2019	1/18/2019	1/23/2019