



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

May 26, 2022

Dr. Lora Weiss
Senior Vice President for Research
The Pennsylvania State University
304 Old Main
University Park, PA 16802-6501

SUBJECT: ACCEPTANCE OF THE APPLICATION FOR A LICENSE AMENDMENT RE: AN
INCREASE IN THE POSSESSION LIMIT FOR URANIUM-235 IN THE FORM OF
FUEL ELEMENTS (EPID: L-2022-NFA-0005)

Dear Dr. Weiss:

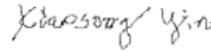
By letter dated April 20, 2022 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML22111A330). Pennsylvania State University (PSU) applied for an amendment to increase the possession limit for Uranium-235 (U-235) for the PSU Breazeale reactor. The license amendment request (LAR) proposes to increase the allowable inventory of U-235 enriched to less than 20 percent in the form of fuel elements. Consistent with Title 10 of the *Code of Federal Regulations* (10 CFR) 50.90, "Application for amendment of license, construction permit, or early site permit," an application to amend the license (including the technical specifications) must fully describe the changes desired and follow, as far as applicable, the form prescribed for original applications. The requirements in 10 CFR 50.34, "Contents of applications; technical information," cover the technical information to be included in the application and stipulate that it addresses design and operating characteristics, unusual or novel design features, and principal safety considerations.

The U.S. Nuclear Regulatory Commission (NRC) staff performed an acceptance review of the LAR and concluded that it includes sufficient information for the NRC staff to begin its detailed technical review. Notwithstanding the acceptance review, the NRC staff may require additional information to complete the detailed technical review. If needed, the NRC staff will request this information by separate correspondence within approximately 60 days of the date of this letter.

Based on the acceptance review, the NRC staff expects to complete its review and make a final determination on the LAR by February 28, 2023. This date could change due to several factors, including requests for additional information, unanticipated changes to the scope of the review, unsolicited supplements to the LAR, and others. If the forecasted date changes, the NRC staff will notify you in writing of the new date and an explanation of the reason for the change. The total hours of this review will take approximately 240 hours (including the acceptance review).

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

Sincerely,

A handwritten signature in cursive script that reads "Xiaosong Yin".

Signed by Yin, Xiaosong
on 05/26/22

Xiaosong Yin, Project Manager
Non-Power Production and Utilization Facility
Licensing Branch
Division of Advanced Reactors and Non-Power
Production and Utilization Facilities
Office of Nuclear Reactor Regulation

cc: See next page

Pennsylvania State University

Docket No. 50-005

cc:

Yuanqing Guo
Manager of Radiation Protection
The Pennsylvania State University
0201 Academic Project Bldg
University Park, PA 16802

Director, Bureau of Radiation Protection
Department of Environmental Protection
P.O. Box 8469
Harrisburg, PA 17105

Test, Research and Training
Reactor Newsletter
Attention: Ms. Amber Johnson
Dept of Materials Science and Engineering
University of Maryland
4418 Stadium Drive
College Park, MD 20742-2115

Dr. Jeffrey Geuther
Associate Director for Operations
Radiation Science & Engineering Center
104 Breazeale Nuclear Reactor Building
University Park, PA 16802-1504

Dr. Kenan Unlu, Director
The Pennsylvania State University
Breazeale Nuclear Reactor
Radiation Science and Engineering Center
University Park, PA 16802-2301

SUBJECT: ACCEPTANCE OF THE APPLICATION FOR A LICENSE AMENDMENT
REGARDING AN INCREASE IN THE POSSESSION LIMIT FOR URANIUM-235
IN THE FORM OF FUEL ELEMENTS (EPID: L-2022-NFA-0005)
DATED: MAY 26, 2022

DISTRIBUTION:

PUBLIC

JBorromeo, NRR

NParker, NRR

XYin, NRR

MBalazik, NRR

ADAMS Accession No. ML22139A301**NRR-106**

OFFICE	NRR/DANU/UNPL/PM	NRR/DANU/UNPL/LA	NRR/DANU/UNPL/BC	NRR/DANU/UNPL/PM
NAME	XYin	NParker	JBorromeo	XYin
DATE	5/20/2022	5/23/2022	5/25/2022	5/26/2022

OFFICIAL RECORD COPY