



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

September 16, 2024

Dr. Rusty Towell
Director of NEXT Lab
Abilene Christian University
ACU Box 27963
Abilene, TX 79699

SUBJECT: ABILENE CHRISTIAN UNIVERSITY - ISSUANCE OF A CONSTRUCTION PERMIT FOR THE ABILENE CHRISTIAN UNIVERSITY MOLTEN SALT RESEARCH REACTOR (EPIDS: L-2022-NFW-0002 AND L-2022-NFW-0003)

Dear Dr. Towell:

The U.S. Nuclear Regulatory Commission (NRC) is issuing to Abilene Christian University (ACU) the enclosed Construction Permit (CP) No. CPRR-124 pursuant to Title 10 of the *Code of Federal Regulations* (10 CFR) section 50.35, "Issuance of construction permits." The issuance of this CP is in response to ACU's application for a CP for its proposed Molten Salt Research Reactor (MSRR) dated August 12, 2022, as supplemented by letters dated October 14, 2022, August 17 and November 14, 2023, and January 23, March 28, April 18, April 30, June 12, and July 30, 2024. The CP, which is immediately effective, authorizes ACU to construct the MSRR in the Gayle and Max Dillard Science and Engineering Research Center on the ACU campus in Abilene, Texas, as described in the application, as supplemented.

The safety evaluation that documents the NRC staff's safety review for the CP application is also enclosed. A notice of issuance for CP No. CPRR-124 will be sent to the Office of the Federal Register for publication. The notice of issuance of the environmental assessment and finding of no significant impact for the CP application was published in the *Federal Register* on March 14, 2024 (89 FR 18678).

If you have questions regarding this matter, please contact Richard Rivera at 301-415-7190 or via email at Richard.Rivera@nrc.gov.

Sincerely,



Signed by Bowen, Jeremy
on 09/16/24

Jeremy S. Bowen, Director
Division of Advanced Reactors and Non-Power
Production and Utilization Facilities
Office of Nuclear Reactor Regulation

Docket No.: 50-610

Enclosures:

1. Construction Permit No. CPRR-124
2. Safety Evaluation

cc:

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Commissioner Bobby Janecka, Texas Commission on Environmental Quality
Bobby.janecka@tceq.texas.gov

Chief Nim Kidd, Texas Department of Public Safety, Emergency Management Division
Nim.kidd@tdem.texas.gov

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Weldon.hurt@abilenetx.gov

City Council Members of Abilene
council@abilenetx.gov

Robert Hanna, Abilene City Manager
Robert.Hanna@abilenetx.gov

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ADAMS Accession Nos.:

Package: ML24243A039

Letter: ML24243A041

Construction Permit CPRR-124: ML24243A040

Safety Evaluation: ML24243A042

NRR-106

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