



**Abilene Christian University**

1600 Campus Court

Abilene, TX 79601

325-674-2000

ATTN: Document Control Desk  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555-0001

**RE: NRC PROJECT NO. 99902088 – ABILENE CHRISTIAN UNIVERSITY, SUBMITTAL OF CONSTRUCTION PERMIT APPLICATION FOR THE MOLTEN SALT RESEARCH REACTOR**

Pursuant to Title 10 of the Code of Federal Regulations, Part 50, Section 50.30 (10 CFR 50.30), Abilene Christian University (ACU) hereby submits an application for a construction permit to construct the ACU Molten Salt Research Reactor (MSRR) to be located on the ACU campus in Abilene, Texas.

The construction permit application consists of the following information:

- General information required by 10 CFR 50.33
- Preliminary Safety Analysis Report (PSAR) as required by 10 CFR 50.34(a)(1)
- An Environmental Review as required by 10 CFR 50.30(f), contained in Chapter 19, "Environmental Review," of the PSAR

ACU meets the definition of a non-profit educational institution in 10 CFR 170.3. Because of this, ACU is exempt from filing fees in accordance with 10 CFR 170.11(a)(4).

The general information required by 10 CFR 50.33 is as follows:

- Name of Applicant [10 CFR 50.33(a)]:

**Abilene Christian University**

- Address of Applicant [10 CFR 50.33(b)]:

**Abilene Christian University  
1600 Campus Court  
Abilene, TX 79601**

- Description of Business/Occupation of Applicant [10 CFR 50.33(c)]:

ACU is a non-profit educational institution that has been in continual operation since its founding in 1906 and is accredited by the Southern Association of College and Schools



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Commission on Colleges to award associate's, bachelor's, master's, and doctoral degrees. ACU also earned Doctoral/Professional University status, as determined by the Carnegie Classification of Institutions of Higher Education.

- **Ownership Information [10 CFR 50.33(d)]:**

ACU is a corporation incorporated in the state of Texas. The principal location of business is the address of the applicant given above. ACU has a Board of Trustees currently composed of 30 members, all of whom are U.S. citizens. The five principal officers of ACU include the President, Provost, Senior Vice President of Operations, Vice President of Research, and Vice President and General Counsel. All of these officers are U.S. citizens. The names of the Board of Trustees and the principal officers are as follows:

Members of the Board of Trustees:

April Anthony, Todd Brown, Arthur Culpepper, Ralph Draper, Mark Duncum, Cecil Eager, Donny Edwards, David Flow, Shelton Gibbs IV, Jack Griggs, Berto Guerra, Kyle Hammond, Jana Hanner, Belinda Harmon, Leslie Hutchins, Guy Lewis, Steve Mack, Wayne Massey, Bill Minick, Elise Mitchell, Fernando Nasmyth, Charles Onstead, Randy Owens, Carole Phillips, Jim Porter, Alan Rich, Doug Robison, Marelyn Shedd, Rick Wessel, Mitch Wilburn.

The principal officers of ACU:

Philip Schubert (President), Robert Rhodes (Provost), Kevin Campbell (Senior Vice President of Operations), Russel Kruzelock (Vice President of Research), and Slade Sullivan (Vice President and General Counsel).

Address for trustees and officers is:

**Abilene Christian University  
Hardin Administration Building, Room 111  
ACU box 29125  
Abilene, Texas 79699**

ACU is not acting as an agent or representative of another person in filing this application.

- **Class of License/Duration of License [10 CFR 50.33(e)]:**

ACU is applying to the U.S. Nuclear Regulatory Commission (NRC) to obtain a Class 104c license for a research reactor under 10 CFR Part 50, "Domestic Licensing of



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Production and Utilization Facilities." The MSRR will be used for on-campus nuclear research and training opportunities for faculty, staff, and students in advanced nuclear technologies. Embedded in the 10 CFR Part 50-license will be a 10 CFR Part 70, "Domestic Licensing of Special Nuclear Material," license to receive, possess, and use special nuclear material, and 10 CFR Part 30, "Rules of General Applicability to Domestic Licensing of Byproduct Material," license to receive, process and use byproduct material all in connection with operation of the facility. ACU expects to request an Operating License term of 20 years.

- Financial Qualifications [10 CFR 50.33(f)]:

The NRC requires that an applicant for a construction permit submit sufficient financial information that demonstrates that the applicant possesses or has reasonable assurance of obtaining the necessary funds to cover facility estimated construction costs and related fuel-cycle costs. An estimate of the total construction cost of the MSRR and related fuel cycle costs is presented in PSAR section 15.1.1. The sources of funds to cover these costs is discussed in section 15.1.2 of the PSAR.

- Construction Earliest and Latest Date for Construction Completion [10 CFR 50.33(h)]:

ACU currently expects to complete construction of the MSRR at the earliest six months after issuance of the construction permit and latest by 48 months after issuance of the construction permit.

**Classified Information Agreement in Accordance with 10 CFR 50.37**

ACU will not allow access to Restricted Data or classified National Security Information until the individual and/or the facility has been approved for access under provisions of 10 CFR Part 25, "Access Authorization," and/or 10 CFR Part 95, "Facility Security Clearance and Safeguarding of National Security Information and Restricted Data."

If there any questions concerning this application, please contact:

Rusty Towell, Ph.D.  
Director, NEXT Lab  
(rxt01a@acu.edu)



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I declare under penalty of perjury that the foregoing is true and correct.  
Executed on August 12, 2022.

Sincerely,

A handwritten signature in blue ink, appearing to read 'R. Kruzelock', with a long horizontal flourish extending to the right.

Russell Kruzelock, Ph.D.  
ACU Vice President of Research  
Rusty.Kruzelock@acu.edu

cc: Region IV