



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

June 26, 2025

MEMORANDUM TO: Amanda Marshall, Chief
Reactor Physical Protection Branch
Division of Physical and Cyber Security Policy
Office of Nuclear Security and Incident Response

FROM: Judy Petrucelli, Security Specialist
Reactor Physical Protection Branch
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Office of Nuclear Security and Incident Response

SUBJECT: U.S. NUCLEAR REGULATORY COMMISSION STAFF REVIEW
OF THE U.S. DEPARTMENT OF HOMELAND SECURITY
CONSULTATION REPORT FOR THE KEMMERER UNIT 1
POWER REACTOR CONSTRUCTION PERMIT APPLICATION

A handwritten signature in black ink, appearing to read "Judy Petrucelli".

Signed by Petrucelli, Judy
on 06/26/25

On May 29, 2024, the U.S. Nuclear Regulatory Commission (NRC) initiated an advanced power reactor consultation with the Cybersecurity Infrastructure Security Agency (CISA) under the U.S. Department of Homeland Security (DHS)) for the Kemmerer Power Reactor Construction Permit application submitted by TerraPower, LLC (TerraPower) on behalf of US SFR Owner (USO), LLC, subsidiary of TerraPower. Via email dated May 30, 2024, the CISA requested and was granted a deferral to the consultation to the first quarter of CY2025, due to timing issues. On May 1, 2025, CISA provided the NRC with a consultation report evaluating potential vulnerabilities and observations.

CISA has completed this consultation report to meet the requirements of the Energy Policy Act of 2005, Section 657:

Before issuing a license for a utilization facility, the Nuclear Regulatory Commission shall consult with the Department of Homeland Security concerning the potential vulnerabilities of the location of the proposed facility to terrorist attack.

The NRC staff has reviewed the information in this consultation report to complete the consultation process between the NRC and CISA for the USO, LLC proposed advanced reactor

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location. Regarding physical security, each potential vulnerability and/or observation without mitigative measures has been characterized in the Table 1, "Department of Homeland Security Consultation Report Highlights for Physical Security," information matrix.

In this consultation report, CISA identified 43 security observations.

The consultation report provided information concerning the potential vulnerabilities and threats, to the location of the proposed facility to terrorist attacks to include, but not limited to, the following:

- Threat environment and local threat-related information;
- Avenues of approach that adversaries could use;
- Nearby critical infrastructure; hazardous facilities, structures, processes, and activities; storage and transportation of hazardous materials; and special facilities or events that could negatively impact the proposed NPP or that adversaries could use as a diversionary tactic;
- Capabilities/limitations of the local law enforcement that would assist the facility in responding to a terrorist attack;
- Strategic observation, staging and/or engagement points that adversaries could use for malevolent purposes; and
- Information about thefts of items in the local area that adversaries could use for malevolent purposes.

The NRC staff has concluded that there are no regulatory issues associated with the physical security topics identified and discussed in the DHS consultation report.

DHS Consultation for US SFR OWNER, LLC_Kemmerer Unit 1 Power Reactor Construction Permit
 Application DATE June 26, 2025

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