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## UNITED STATES NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

May 4, 2021

Mr. George Wilson Director, Regulatory Affairs TerraPower, LLC 15800 Northup Way Bellevue, WA 98008

SUBJECT: U.S. NUCLEAR REGULATORY COMMISSION FEEDBACK REGARDING

TERRAPOWER, LLC'S ADVANCED SODIUM FAST REACTOR FUEL ASSEMBLY QULIFICATON PLAN (EPID NO.: L-2020-LRO-0080)

Dear Mr. Wilson:

By letter dated November 11, 2020 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML20316A038), TerraPower, LLC (TerraPower) submitted the "Advanced SFR Fuel Assembly Qualification Plan." The proprietary document was submitted to provide regulatory guidance, describe methodologies, and identify regulatory and qualification criteria for Sodium Fast Reactors (SFR) metallic fuel. The NRC staff is providing feedback on the information provided by TerraPower in the document. The proprietary and non-proprietary versions of the document containing the NRC staff's feedback are in Enclosures 1 and 2 of this document, respectively.

If you have any questions about this matter, please contact Mallecia Sutton at 301-415-0673 or by e-mail at Mallecia.Sutton@nrc.gov.

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Sincerely,

By Signed by Beasley, Benjamin on 05/04/21

Benjamin G. Beasley, Chief Advanced Reactor Licensing Branch Division of Advanced Reactors and Non-Power Production and Utilization Facilities Office of Nuclear Reactor Regulation

Project No.: 99902087

Enclosures: As stated

Enclosure 1 to this letter contains Proprietary information. When separated from the Enclosure 1, this document is DECONTROLLED.

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DATED: May 4, 2021

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Public (Letter and Enclosure 2 only)

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BBeasley MHayes MSutton TBoyce

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jnikola@terrapower.com tneider@terrapower.com

ADAMS Accession Nos.:

Package: ML21099A080 Cover Letter: ML21099A081

Enclosure 1: ML21099A082 (Non-Public) Enclosure 2: ML21099A104 (Public Redacted)

NRR-106

OFFICE	NRR/DANU/UARL/PM	NRR/DANU/UARL/LA	NRR/DANU/UART/BC	NRR/DANU/UARL/BC
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