



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

January 21, 2022

Mr. Ryan Sprengel
License Application Development Manager
TerraPower, LLC
15800 Northup Way
Bellevue, WA 98008

SUBJECT: SAFETY EVALUATION REGARDING THE REVIEW OF
TERRAPOWER, LLC'S QUALITY ASSURANCE TOPICAL REPORT
TP-QA-PD-0001, "TERRAPOWER QA PROGRAM DESCRIPTION,"
REVISION 12 (EPID No. L-2020-TOP-0043/CAC NO. 000431)

Dear Mr. Sprengel:

By letter dated August 5, 2020, (Agencywide Documents Access and Management System (ADAMS) Accession No. ML20218A590) TerraPower, LLC (hereafter referred to as TerraPower), submitted for U.S. Nuclear Regulatory Commission (NRC) staff review, its Topical Report TP-QA-PD-0001, "TerraPower QA Program Description," Revision 9A. This topical report (TR) addresses the activities associated with the design and construction of TerraPower's advanced nuclear power reactor. By letters dated December 23, 2020, and February 26, 2021 (ADAMS Accession Nos. ML21005A015 and ML21057A084, respectively), TerraPower responded to NRC staff requests for additional information (RAIs) and provided Revision 10 to Topical Report TP-QA-PD-0001. Subsequently, by letters dated May 28, 2021, and July 2, 2021 (ADAMS Accession Nos. ML21148A236 and ML21183A200, respectively), TerraPower responded to additional RAIs and provided Revisions 11 and 12 to Topical Report TP-QA-PD-0001, respectively.

The NRC staff's final safety evaluation (SE) for TerraPower Quality Assurance Topical Report TP-QA-PD-0001 "TerraPower QA Program Description," Revision 12, is enclosed. The NRC provided TerraPower a draft of the SE for the purpose of identifying proprietary information on November 15, 2021 (ADAMS Accession No. ML22014A287) and TerraPower confirmed that the SE does not include proprietary information (ADAMS Accession No. ML22019A088).

The NRC staff requests that TerraPower publish an accepted version of this TR within 3 months of receipt of this letter. The accepted version shall incorporate this letter and the enclosed SE after the title page. The accepted version shall include an "-A" (designating accepted) following the TR identification symbol.

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.

Sincerely,



Signed by Kennedy, William
on 01/21/22

William Kennedy, Acting 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

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ADAMS Accession No. ML#22018A301 Pkg., ML#22018A300 Ltr., ML#21263A236 SE

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