



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

May 1, 2023

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

SUBJECT: TERRAPOWER, LLC – SAFETY EVALUATION OF QUALITY ASSURANCE  
TOPICAL REPORT TP-QA-PD-0001, "TERRAPOWER QA PROGRAM  
DESCRIPTION," REVISIONS 13 AND 14 (EPID L-2022-TOP-0054/CAC 000431)

Dear Mr. Wilson:

By letter dated September 23, 2022 (Agencywide Documents Access and Management System Accession No. ML22266A286), TerraPower, LLC (TerraPower) submitted for the U.S. Nuclear Regulatory Commission (NRC) staff review and approval Quality Assurance Topical Report (QATR) TP-QA-PD-0001, "TerraPower QA Program Description," Revision 14, according to Title 10 of the *Code of Federal Regulations* (10 CFR) 50.4(b)(7)(ii). Revision 12 of QATR TP-QA-PD-0001 was previously approved by the NRC staff in a safety evaluation dated January 2022 (ML21263A236). The NRC staff reviewed the changes between Revision 12 and Revision 14, including Revision 13. The results of the NRC staff's review are summarized in the enclosed safety evaluation.

On March 20, 2023, the NRC staff provided TerraPower a draft of the safety evaluation for the purpose of identifying proprietary information (ML23079A266). On April 17, 2023, TerraPower confirmed that the safety evaluation did not include proprietary information.

In accordance with NRC staff published information on topical reports,<sup>1</sup> the NRC staff requests that TerraPower publish an accepted version of this topical report within 3 months of receipt of this letter. The accepted version should incorporate this letter and the enclosed safety evaluation. The accepted version should include a "-A" (designated accepted) following the topical report identification number.

G. Wilson

- 2 -

If you have any questions or comments concerning this matter, please contact Mallecia Sutton at (301) 415-0673 or via email at [Mallecia.Sutton@nrc.gov](mailto:Mallecia.Sutton@nrc.gov).

Sincerely,



Signed by Proffitt, Joseph  
on 05/01/23

Joseph A. Proffitt, Acting Branch Chief  
Advanced Reactor Licensing Branch 1  
Division of Advanced Reactors and Non-Power  
Production and Utilization Facilities  
Office of Nuclear Reactor Regulation

Project No.: 99902100

Enclosure: As stated

cc: TerraPower Sodium  
via GovDelivery

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DATED: MAY 1, 2023

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