

Mr. Sprengel,

By letter dated August 5, 2020, (Agencywide Documents Access and Management System (ADAMS) Accession No. ML20218A590), TerraPower, LLC submitted for U.S. Nuclear Regulatory Commission (NRC) staff review its Topical Report TP-QA-PD-0001, "TerraPower QA Program Description," Revision 9A, in accordance with the guidance of NUREG-0800, "Standard Review Plan (SRP) for the Review of Safety Analysis Reports for Nuclear Power Plants," Section 17.5, "Quality Assurance Program Description - Design Certification, Early Site Permit and New License Applicant," Revision 1, dated August 2015. By letters dated December 23, 2020, (ADAMS Accession No. ML21005A015) and February 26, 2021 ADAMS Accession No. ML21057A084), 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 (ADAMS Accession No. ML21148A236) and July 2, 2021 (ADAMS Accession No. ML21183A200), TerraPower responded to an additional RAI and provided Revisions 11 and 12 to Topical Report TP-QA-PD-0001, respectively.

The TerraPower Quality Assurance Program Description (QAPD) topical report addresses the activities associated with the design and construction of TerraPower's advanced nuclear power reactor. The QAPD is based on the applicable portions of both Appendix B, "Quality Assurance Criteria for Nuclear Power Plants and Fuel Reprocessing Plants," to Title 10 of the Code of Federal Regulations (10 CFR) Part 50, "Domestic Licensing of Production and Utilization Facilities," and the American Society of Mechanical Engineers NQA 1-2015, "Quality Assurance Program Requirements for Nuclear Facilities," as endorsed by NRC Regulatory Guide 1.28, "Quality Assurance Program Criteria (Design and Construction)," Revision 5, dated October 2017.

The NRC staff completed its review of the information submitted in Revision No. 12 of TerraPower's Quality Assurance topical report and finds the topical report acceptable for referencing in a construction permit application subject to the limitations specified in the NRC staff draft safety evaluation (SE).

The NRC staff placed a copy of the draft SE in the box.com folder to which you have access. Please review the draft SE for proprietary information. Pursuant to Section 2.390 of Title 10 of the Code of Federal Regulations (10 CFR), the staff determined that the draft SE contains no proprietary information. If you identify proprietary information in the draft SE, please mark the information line-by-line and define the basis pursuant to the criteria of 10 CFR 2.390. Use double brackets and yellow highlight to identify any proprietary information as follows: **[[proprietary information]]**. Please provide comments on any proprietary aspects of the draft SE within ten (10) business days of the date of this email. Your response must be via a letter from an authorized individual. Both this email and the draft SE have been placed in ADAMS and made Official Agency Records. The draft SE will be made publicly available if it contains no proprietary information. This email will also be made publicly available.

If you have any questions, please feel free to contact me at 301-415-0673 or by email at Mallecia.sutton@nrc.gov.

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Regards,

Mallecia

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