

November 23, 2020

Project No. 99902069

US Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555-0001

Subject: Kairos Power LLC
Submittal of Approved KP-FHR Risk-Informed Performance-Based Licensing Basis
Development Methodology Topical Report

References:

1. Letter, Kairos Power LLC to Document Control Desk, "KP-FHR Risk-Informed Performance-Based Licensing Basis Development Methodology, Topical Report Submittal," Revision 0, August 6, 2019 (ML19217A420)
2. Letter, Kairos Power LLC to Document Control Desk, "KP-FHR Risk-Informed Performance-Based Licensing Basis Development Methodology, Topical Report Submittal," Revision 1, April 10, 2020 (ML20101P623)
3. Letter, Benjamin Beasley to Peter Hastings, "Final Safety Evaluation for Kairos Power LLC Topical Report "KP-FHR Risk-Informed Performance-Based Licensing Basis Development Methodology" (Revision 1) (EPID No. L-2019-TOP-0009/CAC No. 000431)" (ML20294A337)

This letter submits the approved version of the Kairos Power topical report titled "KP-FHR Risk-Informed Performance-Based Licensing Basis Development Methodology." Kairos Power submitted Revision 0 of the subject topical report for Nuclear Regulatory Commission (NRC) review on August 6, 2019 (Reference 1). Revision 1 of the topical report was submitted on April 10, 2020 (Reference 2). On November 10, 2020, the NRC provided the final safety evaluation of this topical report (Reference 3).

If you have any questions or need any additional information, please contact Drew Peebles at peebles@kairopower.com or (704) 275-5388, or Darrell Gardner at gardner@kairopower.com or (704) 769-1226.

Sincerely,



Peter Hastings, PE
Vice President, Regulatory Affairs and Quality

Enclosures:

- 1) Approved KP-FHR Risk-Informed Performance-Based Licensing Basis Development Methodology Topical Report(Non-Proprietary)

Kairos Power LLC
www.kairopower.com

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xc (w/enclosure):

Benjamin Beasley, Chief, Advanced Reactor Licensing Branch

Stewart Magruder, Project Manager, Advanced Reactor and Licensing Branch

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Enclosure 1

Approved KP-FHR Risk-Informed Performance-Based Licensing Basis Development Methodology (Non-Proprietary)