

May 31, 2023

Docket No. 99902069

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

Subject: Kairos Power LLC  
Instrument Setpoint Methodology for the Kairos Power Fluoride Salt-Cooled High-Temperature Reactor

References: Letter, Kairos Power LLC to Document Control Desk, "Presentation Materials for Kairos Power Pre-Submittal Meeting on Setpoint Methodology Topical Report," May 8, 2023 (ML23128A361)

This letter submits the subject topical report, which provides the methodology to establish safety-related instrument setpoints for the Kairos Power Fluoride Salt-Cooled, High Temperature Reactor (KP-FHR). This topical report is provided for NRC review and approval and is expected to be referenced by future test and power KP-FHR reactor license applications. On May 15, 2023, Kairos Power met with NRC staff to discuss the materials in Reference 1. Kairos Power respectfully requests NRC acceptance review of the topical report be completed and a review schedule provided within 60 days of the receipt of this letter.

Enclosure 1 provides the subject topical report, which is non-proprietary.

If you have any questions or need any additional information, please contact Michael Ellett at [ellettmic@kairospower.com](mailto:ellettmic@kairospower.com) or (704) 247-6310, or Darrell Gardner at [gardner@kairospower.com](mailto:gardner@kairospower.com) or (704)-769-1226.

Sincerely,



Peter Hastings, PE  
Vice President, Regulatory Affairs and Quality

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Enclosure:

- 1) Instrument Setpoint Methodology for the Kairos Power Fluoride Salt-Cooled High-Temperature Reactor (Non-proprietary)

xc (w/enclosure):

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