

April 22, 2022

Docket No. 50-7513

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

Subject: Kairos Power LLC  
Transmittal of Responses to NRC Requests for Confirmation of Information for the  
Review of the Hermes Environmental Report

References:

1. Letter, Kairos Power LLC to Document Control Desk, "Submittal of the Environmental Report for the Kairos Power Fluoride Salt-Cooled, High Temperature Non-Power Reactor (Hermes)," October 31, 2021 (ML21306A131)
2. Email, Nuclear Regulatory Commission, Tamsen Dozier to Kairos Power LLC, "Kairos Power, LLC Hermes Environmental Report Audit Plan, February 2, 2022
3. Email, Tamsen Dozier (NRC Environmental Project Manager) to Darrell Gardner (Kairos Power Licensing Director), "Requests for Confirmation of Information for the Environmental Review of the Kairos Hermes Construction Permit Application," March 31, 2022

By letter dated October 31, 2021 (Reference 1), Kairos Power LLC submitted its Environmental Report (ER) in support of the construction permit application (CPA) for the Hermes test reactor. In Reference 2, the Nuclear Regulatory Commission (NR) staff provided the Hermes Environmental Audit Plan. As a result of that audit, the NRC staff provided 22 requests for confirmation of information (RCIs, Reference 3).

The enclosure to this letter provides Kairos Power's confirmation of each RCI. Kairos Power requests NRC review of this information in support of continued review of the Hermes non-power test reactor CPA.

If you have any questions or need any additional information, please contact Marty Bryan at [bryan@kairospower.com](mailto:bryan@kairospower.com) or at (865) 369-1136, or Darrell Gardner at [gardner@kairospower.com](mailto:gardner@kairospower.com) or (704) 769-1226.

I declare under penalty of perjury that the foregoing is true and correct.  
Executed on April 22, 2022.



Peter Hastings, PE  
Vice President, Regulatory Affairs and Quality

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Enclosures:

- 1) Kairos Power Response to NRC Requests for Confirmation of Information for the Review of the Hermes Environmental Report

xc (w/enclosure):

William Kennedy, Acting Chief, NRR Advanced Reactor Licensing Branch

Benjamin Beasley, Project Manager, NRR Advanced Reactor Licensing Branch

Tamsen Dozier, Environmental Project Manager, NMSS, Environmental Review Branch

Daniel Barnhurst, Environmental Project Manager, NMSS, Environmental Review Branch