

May 14, 2024

Docket No. 50-611

Docket No. 50-612

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

Subject: Kairos Power LLC  
Transmittal of Response to NRC Request for Confirmation of Information for the Review  
of the Hermes 2 PSAR Chapter 5

## References:

1. Letter, Kairos Power LLC to Document Control Desk "Submittal of the Construction Permit Application for the Hermes 2 Kairos Power Fluoride Salt-Cooled, High Temperature Non-Power Reactor (Hermes 2), Revision 0" July 14, 2023, (ML23195A122)
2. Nuclear Regulatory Commission, "Kairos Power, LLC Hermes 2 General Audit Plan," October 3, 2023 (ML23268A446)
3. Email, Michael Orenak (Nuclear Regulatory Commission) to Drew Peebles (Kairos Power) and Darrell Gardner (Kairos Power), "Request for Confirmation of Information #3 for Hermes 2," May 14, 2024 (ML24135A125)

In July 2023, Kairos Power LLC submitted its Preliminary Safety Analysis Report (PSAR) (Reference 1) in support of the construction permit application (CPA) for the Hermes 2 non-power reactor. In October 2023, the Nuclear Regulatory Commission provided the Hermes 2 General Audit Plan (Reference 2). As a result of that audit, the Nuclear Regulatory Commission (NRC) provided a request for confirmation of information (RCIs) that the staff will use in their preliminary safety evaluation (Reference 3). The enclosure to this letter provides Kairos Power's confirmation of that RCI. Kairos Power requests NRC review of this information in support of continued review of the Hermes 2 CPA.

If you have any questions or need any additional information, please contact Austin Clark at [clark@kairospower.com](mailto:clark@kairospower.com) or (704) 247-6310 Ext. 1337, 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 May 14, 2024.



Peter Hastings, PE  
Vice President, Regulatory Affairs and Quality

Enclosure:

- 1) Kairos Power Response to NRC Request for Confirmation of Information for the Review of the Hermes 2 PSAR Chapter 5

xc (w/enclosure):

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