

October 27, 2023

Docket No. 50-0611
Docket No. 50-0612US Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555-0001Subject: Kairos Power LLC
Transmittal of Response to Hermes 2 General Audit Question 1.5-1

- References:
1. Letter, Kairos Power LLC to Document Control Desk, "Submittal of the Preliminary Safety Analysis Report for the Hermes 2 Kairos Power Fluoride Salt-Cooled, High Temperature Non-Power Reactor (Hermes 2), Revision 0," July 14, 2023 (ML23195A122)
 2. Audit Plan, Nuclear Regulatory Commission, "Kairos Power LLC – Plan for a General Audit of the Hermes 2 Construction Permit Application (EPID No. L-2023-CPS-0000)," October 3, 2023 (ML23268A446)

In July 2023, Kairos Power submitted Revision 0 of the Preliminary Safety Analysis Report (PSAR) (Reference 1) as part of the Construction Permit Application (CPA) for the Hermes 2 non-power reactor. This letter transmits Kairos Power's response to NRC Question 1.5-1 in the Hermes 2 General Audit (Reference 2) on the applicability of Hermes CPA supplements referenced in the Hermes Safety Evaluation to the Hermes 2 CPA. The response to the question is provided in Enclosure 1. Kairos Power requests NRC review of the response in support of continued review of the Hermes 2 test reactor construction permit application.

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

I declare under penalty of perjury that the foregoing is true and correct.
Executed on October 27, 2023

Sincerely,



Peter Hastings, PE
Vice President, Regulatory Affairs and Quality

Enclosure: Response to Hermes 2 General Audit Question 1.5-1

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xc (w/enclosure):

William Jessup, Chief, NRR Advanced Reactor Licensing Branch

Michael Orenak, Project Manager, NRR Advanced Reactor Licensing Branch

Matthew Hiser, Project Manager, NRR Advanced Reactor Licensing Branch

Edward Helvenston, Project Manager, NRR Advanced Reactor Licensing Branch

Samuel Cuadrado de Jesus, Project Manager, NRR Advanced Reactor Licensing Branch