

April 27, 2022

Docket No. 50-7513

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

Subject: Kairos Power LLC
Transmittal of Supplemental Information for NRC Information Need HCUL-10 for
the Hermes Environmental Review

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
(ML22052A008)

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. As part of the Nuclear Regulatory Commission (NRC) review of the information contained in the ER, NRC announced (Reference 2) and conducted an audit of the Hermes ER.

During the audit, the NRC requested that Kairos Power provide supplemental information related to audit information need HCUL-10 (Reference 2). The enclosure to this letter submits photographs taken in the Hermes site vicinity, specifically requested by NRC staff during the audit. Kairos Power requests NRC staff 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 or at (865) 369-1136, 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 April 27, 2022.



Peter Hastings, PE
Vice President, Regulatory Affairs and Quality

Enclosure: Supplemental Information for HCUL-10 for Hermes Environmental Review

Kairos Power LLC
www.kairospower.com

KP-NRC-2204-008

Page 2

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, Deputy Environmental Project Manager, NMSS, Environmental Review Branch