

February 8, 2022

Docket No. 50-7513

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

Subject: Kairos Power LLC
Kairos Power Response to NRC Questions 2.4-1, 2.4-2, and 2.4-3 for PSAR Section 2.4 on
Hermes Construction Permit Application

References: 1. Email, Nuclear Regulatory Commission, Benjamin Beasley to Darrell Gardner,
"Preliminary question on the Hermes PSAR, email #1," January 10, 2022.

This letter provides a response to NRC questions 2.4-1, 2.4.2 and 2.4-3 provided in Reference 1 on the Kairos Power Hermes Test Reactor Preliminary Safety Analysis Report Section 2.4, Hydrology. Kairos Power requests NRC review of the response in support of continued review of the Hermes non-power test reactor construction permit application.

The response is provided as Enclosure 1 to this letter.

If you have any questions or need any additional information, please contact Marty Bryan at bryan@kairospower.com or at (704) 317-7278, 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 February 8, 2022

Sincerely,



Peter Hastings, PE
Vice President, Regulatory Affairs and Quality

Enclosures:

- 1) Kairos Power Response to NRC Questions 2.4-1, 2.4-2 and 2.4-3

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xc (w/enclosure):

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