

January 9, 2024

Docket No. 50-611
Docket No. 50-612US Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555-0001Subject: Kairos Power LLC
Transmittal of Changes to Hermes 2 Construction Permit Application – PSAR Chapter 9

- 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. Audit Plan, Nuclear Regulatory Commission, “Plan for a General Audit of the Hermes 2 Construction Permit Application,” 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 changes to the pages of the PSAR to address NRC feedback received on PSAR Chapter 9 in the General Audit (Reference 2). Changes to the pages of the PSAR are provided in Enclosure 1. Kairos Power requests NRC review of these changes as part of the continued review of the Hermes 2 CPA.

If you have any questions or need any additional information, please contact John Price at price@kairospower.com or (972) 754-8221, 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 January 9, 2024

Sincerely,



Peter Hastings, PE
Vice President, Regulatory Affairs and Quality

Enclosure: Changes to Hermes 2 PSAR Chapter 9

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