

June 9, 2022

Docket No. 50-7513

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

Subject: Kairos Power LLC
Transmittal of Changes to PSAR Sections 9.1.1 and 9.1.4

References: 1. Letter, Kairos Power LLC to Document Control Desk, "Submittal of the Preliminary Safety Analysis Report for the Kairos Power Fluoride Salt-Cooled, High Temperature Non-Power Reactor (Hermes)," September 29, 2021 (ML21272A376)
2. Audit Plan, Nuclear Regulatory Commission, "Plan for a General Audit of the Hermes Construction Permit Application," February 10, 2022 (ML22039A336)

In September 2021, Kairos Power submitted a Preliminary Safety Analysis Report (PSAR) (Reference 1) as part of the Construction Permit Application (CPA) for the Hermes non-power reactor. This letter transmits changes to the pages of the PSAR to address NRC feedback 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 CPA.

If you have any questions or need any additional information, please contact Austin Clark at clark@kairospower.com or (704) 247-6310 Ext. 1337, 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 June 9, 2022

Sincerely,



Peter Hastings, PE
Vice President, Regulatory Affairs and Quality

KP-NRC-2206-003

Enclosure:

1) Changes to PSAR Sections 9.1.1 and 9.1.4

xc (w/enclosure):

William Kennedy, Acting Chief, Advanced Reactor Licensing Branch
Benjamin Beasley, Project Manager, NRR Advanced Reactor Licensing Branch
Edward Helvenston, Project Manager, NRR, Advanced Reactor Licensing Branch