

January 26, 2023

Project No. 99902069

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

Subject: Kairos Power LLC
Presentation Material for the Advisory Committee on Reactor Safeguards Full
Committee Meeting - Metallic Materials Qualification Topical Report (KP-TR-013,
Revision 4) and Graphite Materials Qualification Topical Report (KP-TR-014, Revision 4)

References: 1. Letter, Kairos Power LLC to Document Control Desk, "KP-FHR High Temperature
Metallic Materials Topical Report," KP-TR-013, Revision 4, September 20, 2022
(ML22263A457)
2. Letter, Kairos Power LLC to Document Control Desk, "Graphite Materials Qualification
for the Kairos Power Fluoride Salt-Cooled High-Temperature Reactor," KP-TR-014,
Revision 4, September 16, 2022 (ML22259A143)

This letter transmits the presentation materials for the February 1, 2023, briefing for the Advisory
Committee on Reactor Safeguards (ACRS), Kairos Power Full Committee. At the meeting participants will
discuss the referenced topical reports.

Enclosure 1 provides the non-proprietary presentation for the metallics material qualification topical
report. Enclosure 2 provides the non-proprietary presentation for the graphite material qualification
topical report. Kairos Power authorizes the Nuclear Regulatory Commission to reproduce and distribute
the submitted content, as necessary, to support the conduct of their regulatory responsibilities.

If you have any questions or need any additional information, please contact John Price at
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(510) 755-1861, or Darrell Gardner at gardner@kairospower.com or (704) 769-1226.

Sincerely,



Peter Hastings, PE
Vice President, Regulatory Affairs and Quality

Enclosures:

- 1) Metallics Material Qualification Presentation Materials for the February 1, 2023, ACRS Full Committee Meeting (Non-Proprietary)
- 2) Graphite Material Qualification Presentation Materials for the February 1, 2023, ACRS Full Committee Meeting (Non-Proprietary)

xc (w/enclosure):

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