

December 16, 2021

Project No. 99902069

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

Subject: Kairos Power LLC  
Topical Report Submittal  
Quality Assurance Program for the Kairos Power Fluoride Salt-Cooled High Temperature Reactor, KP-TR-007-NP-A

References:

1. Letter Kairos Power LLC to Document Control Desk, "Quality Assurance Program for the Kairos Power Fluoride Salt-Cooled High Temperature Reactor," KP-TR-007-NP, Revision 0, May 15, 2020 (ML20136A414)
2. Letter Kairos Power LLC to Document Control Desk, "Quality Assurance Program for the Kairos Power Fluoride Salt-Cooled High Temperature Reactor," KP-TR-007-NP, Revision 1, March 8, 2021 (ML21071A081)
3. Letter Kairos Power LLC to Document Control Desk, "Quality Assurance Program for the Kairos Power Fluoride Salt-Cooled High Temperature Reactor," KP-TR-007-NP, Revision 2, April 6, 2021 (ML21105A517)
4. Letter Kairos Power LLC to Document Control Desk, "Quality Assurance Program for the Kairos Power Fluoride Salt-Cooled High Temperature Reactor," KP-TR-007-NP, Revision 3, April 21, 2021 (ML21117A046)
5. Nuclear Regulatory Commission, Letter from William Kennedy to Peter Hastings, "Safety Evaluation for Kairos Power LLC Topical Report KP-TR-007-NP, "Quality Assurance Program for the Kairos Power Fluoride Salt-Cooled High Temperature Reactor," Revision 3, November 12, 2021 (ML21308A598)

Kairos Power submitted Revision 0 of the subject topical report for Nuclear Regulatory Commission (NRC) review on May 15, 2020 (Reference 1). Revision 1 of the topical report was submitted on March 8, 2021 (Reference 2); Revision 2 on April 6, 2021 (Reference 3); and Revision 3 on April 21, 2021 (Reference 4) to address NRC comments and questions during the review. On November 12, 2021 the NRC provided the final safety evaluation of this topical report (Reference 5) approving the use of the topical report.

Enclosure 1 to this letter provides the NRC approved version of this report, designated as KP-TR-007-NP-A. The approved version includes the November 12, 2021 letter from the NRC and the final safety evaluation report.

**Kairos Power LLC**[www.kairospower.com](http://www.kairospower.com)

If you have any questions or need any additional information, please contact Darrell Gardner at [gardner@kairospower.com](mailto:gardner@kairospower.com) or (704) 769-1226.

Sincerely,

A handwritten signature in black ink, appearing to read 'Peter Hastings', is written over the printed name.

Peter Hastings, PE

Vice President, Regulatory Affairs and Quality

Enclosure:

- 1) Quality Assurance Program for the Kairos Power Fluoride Salt-Cooled High Temperature Reactor Topical Report, KP-TR-007-NP-A

xc (w/enclosure):

William Kennedy, Acting Chief, NRR, Advanced Reactor Licensing Branch

Benjamin Beasley, Project Manager, NRR, Advanced Reactor Licensing Branch