UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

December 8, 2020

Mr. Peter Hastings
Vice President, Regulatory Affairs
and Quality
Kairos Power LLC
707 W Tower Ave
Alameda, CA 94501

SUBJECT: VERIFICATION LETTER OF THE APPROVAL VERSION OF KAIROS POWER LLC TOPICAL REPORT KP-TR-009-NP, "KP-FHR RISK-INFORMED PERFORMANCE-BASED LICENSING BASIS DEVELOPMENT METHODOLOGY" (REVISION 1) (CAC NO. 000431)

Dear Mr. Hastings:

By letter dated November 23, 2020 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML20328A229), Kairos Power LLC (Kairos) submitted an approval ("-A") version of Topical Report (TR) KP-TR-009-NP, "KP-FHR Risk-Informed Performance-Based Licensing Basis Development Methodology" (Revision 1), to the U.S. Nuclear Regulatory Commission (NRC) staff. Kairos has done so in accordance with our transmittal letter dated November 10, 2020 (ADAMS Accession No. ML20294A337), of the NRC staff's final safety evaluation for the TR.

The NRC staff has completed its review of the -A version of the TR. The NRC staff verified that Kairos has met the requirements and determined that the submitted "-A" version is acceptable for referencing in licensing applications for nuclear power plants to the extent specified and under the limitations delineated in the accepted version of the TR. KP-TR-009-NP-A, "KP-FHR Risk-Informed Performance-Based Licensing Basis Development Methodology" (Revision 1), is now approved for use in future licensing actions.

Please contact Stewart Magruder of my staff at (301) 348-5766 if you have any questions on this subject.

Sincerely,

/RA/

Benjamin Beasley, Chief
Advanced Reactor Licensing Branch
Division of Advanced Reactors and Non-Power
Production and Utilization Facilities
Office of Nuclear Reactor Regulation

Project No. 99902069

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ADAMS Accession No.: ML20343A224 **NRR-106**

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DATE	12/8/2020	12/8/2020	12/8/2020

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