



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

March 6, 2019

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

SUBJECT: ACCEPTANCE FOR REVIEW OF KAIROS POWER LLC, "REGULATORY ANALYSIS FOR THE KAIROS POWER FLUORIDE SALT-COOLED, HIGH TEMPERATURE REACTOR TOPICAL REPORT" (CAC NO. 000431)

Dear Mr. Hastings:

By letter dated January 24, 2018, Kairos Power LLC (Kairos) submitted for U.S. Nuclear Regulatory Commission (NRC) staff review, "Regulatory Analysis for the Kairos Power Fluoride Salt-Cooled, High Temperature Reactor Topical Report," (Agencywide Documents Access and Management System Accession No. ML19024A483). The NRC staff has performed an acceptance review of the "Regulatory Analysis for the Kairos Power Fluoride Salt-Cooled, High Temperature Reactor Topical Report," and found that the material presented provides the technical information in sufficient detail to enable the staff to complete a detailed technical review. The NRC staff expects to issue its request for additional information (RAI) by June 12, 2019, and issue its draft safety evaluation by October 31, 2019. A portion of the basis for completion of the evaluation on this schedule is Kairos' response to the RAI within 30 days of your receipt. The NRC staff estimates that the review will require approximately 1,500 staff hours, including project management time.

The Advisory Committee for Reactor Safeguards (ACRS) will be notified of the, "Regulatory Analysis for the Kairos Power Fluoride Salt-Cooled, High Temperature Reactor Topical Report," review and may choose to discuss the report at an ACRS meeting. This may result in a delay in issuing the final safety evaluation to Kairos.

The review schedule milestones and estimated review costs were discussed and agreed upon during a meeting between yourself and Stewart Magruder, Senior Project Manager, Advanced Reactor Policy Branch, NRC on February 25, 2019.

Section 170.21 of Title 10 of the *Code of Federal Regulations* requires that topical reports are subject to fees based on the full cost of the review. You did not request a fee waiver; therefore, NRC staff hours will be billed accordingly.

If you have questions regarding this matter, please contact Stewart Magruder at (301) 348-5766 or Stewart.Magruder@NRC.gov.

Sincerely,

/RA/

John P. Segala, Chief
Advanced Reactor and Policy Branch
Division of Safety Systems, Risk Assessment and
Advanced Reactors
Office of New Reactors

Project No. 99902069

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OFFICE	NRO/DSRA	NRO/DSRA
NAME	SMagruder	JSegala
DATE	03/04/2019	03/06/2019

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