



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

August 5, 2020

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

SUBJECT: KAIROS POWER LLC - ACCEPTANCE OF TOPICAL REPORT
"QUALITY ASSURANCE PROGRAM FOR THE KAIROS POWER
FLUORIDE SALT-COOLED HIGH TEMPERATURE REACTOR"
(CAC NO. 000431)

Dear Mr. Hastings:

By letter dated May 15, 2020 (Agencywide Documents Access and Management System Accession No. ML20136A414), Kairos Power LLC (Kairos) submitted for U.S. Nuclear Regulatory Commission (NRC) staff review the Topical Report (TR) "Quality Assurance Program for the Kairos Power Fluoride Salt-Cooled High Temperature Reactor". The NRC staff has performed an acceptance review of the TR and found that it contains sufficient information to enable the staff to complete a detailed technical review. Notwithstanding the acceptance review, the NRC staff expects to issue requests for additional information (RAIs) to complete the detailed technical review. The NRC staff will issue RAIs or schedule public meetings by September 2020.

Based on the acceptance review, the NRC staff expects to issue a final safety evaluation by August 2021. This date could change due to several factors, including the need for and timeliness of responses to RAIs; unanticipated changes to the scope of the review; and unsolicited supplements to the TR. Additionally, the Advisory Committee for Reactor Safeguards (ACRS) will be notified of this TR and may choose to discuss the report at an ACRS meeting, which could impact the schedule for issuing the final safety evaluation to Kairos.

If the forecasted completion date changes, the NRC staff will notify you in writing of the new date and an explanation of the reason for the change. The NRC staff estimates that the review will require approximately 430 staff hours, including project management time.

Section 170.21 of Title 10 of the *Code of Federal Regulations* requires approvals and preapplication or licensing activities, including TRs, to be subject to fees based on the full cost of the review. Kairos did not request a fee waiver for the cost of this review; therefore, NRC staff hours will be billed to Kairos accordingly.

The review schedule milestones estimated level of effort, and associated review costs were discussed and agreed upon during a phone call between Darrell Garner, Director, License Application for Kairos and Samuel Cuadrado, Project Manager, Advanced Reactor Licensing Branch, NRC on August 05, 2020.

If you have questions regarding this matter, please contact Samuel Cuadrado at 301-415-2946 or by e-mail at Samuel.CuadradoDeJesus@nrc.gov.

Sincerely,

/RA/

Benjamin G. 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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DATED: AUGUST 5, 2020

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NAME	SCuadrado	SLent	BBeasley
DATE	8/5/2020	8/3/2020	8/5/2020

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