

**From:** [Candelario, Luisette](#)  
**To:** [Darrell Gardner](#); [John Price](#)  
**Cc:** [Magruder, Stewart](#); [Beasley, Benjamin](#)  
**Subject:** NRC staff preliminary clarification questions for the Kairos Reactor Coolant Topical report  
**Date:** Thursday, November 21, 2019 5:24:00 PM

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Dear Mr. Gardner,

By letter dated March 8, 2019, Kairos Power LLC (Kairos) submitted for U.S. Nuclear Regulatory Commission (NRC) staff review, "Reactor Coolant for the Kairos Power Fluoride Salt-Cooled High Temperature Reactor Topical Report" (Agencywide Documents Access and Management System (ADAMS) Accession No. ML19079A324). In this letter, Kairos requested NRC staff approval for specification information and thermophysical properties for reactor coolant for the Kairos Power Fluoride Salt-Cooled, High Temperature Reactor (KP-FHR). By letter dated August 9, 2019 (ADAMS Accession No. ML19221B585) the NRC staff 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 has completed its preliminary technical review and developed a set of clarifying questions and comments to improve the NRC staff's understanding of the information presented prior to the development of formal requests for additional information. The purpose of these questions and comments are to:

- Obtain clarification regarding material in the topical report
- Promptly identify areas where additional information may be needed
- Facilitate discussions and continue effective communication

The NRC staff requests that Kairos propose times to discuss the attached clarification questions and comments in a public meeting, which may be closed, as appropriate, to discuss information. Any requests to withhold sensitive proprietary information should be made in accordance with the requirements of Title 10 of the *Code of Federal Regulations*, Section 2.390, "Public Inspections, Exemptions, Requests for withholding." In some instances, preliminary questions may support future requests for additional information (RAIs) or a regulatory audit. Kairos will be advised of the need for RAIs or a regulatory audit by separate correspondence.

The NRC staff request that Kairos confirm the marked proprietary/export control information in the NRC preliminary questions document. The questions are transmitted through the following BOX email link. Please acknowledge receipt of this email and access to the link.

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If you have any questions, please do not hesitate to contact me.

**Luisette Candelario-Quintana, M.E.**  
Project Manager  
U.S. Nuclear Regulatory Commission  
NRR/DANU/UARL

Room: O-7C04

Telephone: 301-415-8189