

From: Rivera, Richard
Sent: Wednesday, June 22, 2022 2:05 PM
To: John Price
Cc: Margaret Ellenson; Darrell Gardner; Beasley, Benjamin; Kennedy, William; Rivera, Richard
Subject: Change in Review Schedule and Level of Effort for Kairos Power Metallic Materials Qualification TR, Rev. 2

Dear John,

The NRC staff assessed the updated content in the topical report, "Metallic Materials Qualification for the Kairos Power Fluoride Salt-Cooled, High Temperature Reactor," KP-TR-013, Revision 2, submitted on April 26, 2022 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML22116A247). Based on the submittal date and content of the report, the NRC staff revised the schedule and level of effort to complete the technical review of the topical report and subsequent milestones.

Revision 2 Submittal Date: April 26, 2022
Draft Safety Evaluation (SE): September 15, 2022
Meeting with the Advisory Committee on Reactor Safeguards: October 2022 (Exact date TBD)
Issuance of Final SE: November 30, 2022

Original Estimated Level of Effort: 510 Hours
Updated Estimated Level of Effort: 880 Hours

The schedule extension and increase in the level of effort account for additional staff time needed to review the applicability of the topical report to the Hermes test reactor, multiple meetings held with Kairos to discuss responses to preliminary questions and revisions to the topical report, and time required by Kairos to prepare and submit revisions to the topical report. These tasks and the effort required to address them were not envisioned in the NRC staff's initial estimates of the schedule and level of effort provided in the acceptance review of Revision 0 of the topical report (ADAMS Accession No ML20224A172).

Please contact me if you have any questions or want to discuss this information further.

Regards,
Richie

Richard Rivera, MEM

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