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**Cc:** Kairos-Hermes2PUBLICem Resource; Antoinette Walker-Smith  
**Subject:** Final Environmental Assessment and Finding of No Significant Impact for Kairos Hermes 2 Test Reactors in Oak Ridge, Tennessee

Dear Addressee:

The U.S. Nuclear Regulatory Commission (NRC) staff is reviewing a construction permit (CP) application submitted by Kairos Power, LLC (Kairos) for two non-power test reactors referred to collectively as Hermes 2. The application was submitted by Kairos in a letter dated July 14, 2023 (Agencywide Documents Access and Management System (ADAMS) ML23195A121), pursuant to Title 10 of the *Code of Federal Regulations* Part 50. The two CPs, if issued, would authorize the construction of the two Hermes 2 reactors on a 185-acre site located in Oak Ridge, Tennessee, adjacent to the Hermes reactor, for which Kairos received a CP from the NRC in 2023 (ML23338A258). The Hermes 2 reactors would demonstrate additional key elements of the Kairos Power Fluoride Salt-Cooled, High Temperature Reactor Technology for possible future commercial deployment.

As part of the review of this CP application, the NRC staff published a draft environmental assessment (EA) and draft finding of no significant impact (FONSI) on April 26, 2024 (ML24103A002) that considered the environmental impacts from issuing the CPs. The NRC staff accepted comments on the draft EA and FONSI over a 30-day period following publication. The NRC has now completed a final EA and FONSI that considered the comments received on the draft. The final EA and FONSI are publicly available from the NRC's ADAMS as ML24240A034. ADAMS is accessible from the NRC website at <https://www.nrc.gov/reading-rm/adams.html>. Based on the environmental review, the NRC has determined that the proposed action would not significantly affect the quality of the human environment. The NRC is therefore issuing a FONSI and will not prepare an environmental impact statement (EIS).

If you have any questions concerning the NRC staff's environmental review of this CP application, please contact Peyton Doub via phone at (301) 415-6703 or via email at [Peyton.Doub@nrc.gov](mailto:Peyton.Doub@nrc.gov) or Mary Richmond at 301-415-7218 or via email at [Mary.Richmond@nrc.gov](mailto:Mary.Richmond@nrc.gov).

The Federal Register Notice for the Final EA is available at [ML24158A234](https://www.federalregister.gov/documents/2024/09/03/2024-18234). A link to the EA is at:

<https://publish.nrc.gov/reactors/non-power/new-facility-licensing/hermes2-kairos/documents.html>

-Peyton Doub

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