

**NUCLEAR REGULATORY COMMISSION**  
**[Docket Nos. 50-611 and 50-612; NRC-2023-0138]**  
**Kairos Power LLC;**  
**Hermes 2 Test Reactor Facility;**  
**Construction Permits**

**AGENCY:** Nuclear Regulatory Commission.

**ACTION:** Notice; issuance.

**SUMMARY:** The U.S. Nuclear Regulatory Commission (NRC) is providing notice of the issuance of Construction Permits CPTR-7 and CPTR-8 to Kairos Power LLC (Kairos) for the two units of the proposed Hermes 2 test reactor facility.

**DATES:** The Construction Permits CPTR-7 and CPTR-8 were issued on November 21, 2024.

**ADDRESSES:** Please refer to Docket ID **NRC-2023-0138** when contacting the NRC about the availability of information for this action. You may obtain publicly available information related to this action by any of the following methods:

- **Federal Rulemaking Website:** Go to <https://www.regulations.gov> and search for Docket ID **NRC-2023-0138**. Address questions about Docket IDs in Regulations.gov to Stacy Schumann; telephone: 301-415-0624; email: [Stacy.Schumann@nrc.gov](mailto:Stacy.Schumann@nrc.gov). For technical questions, contact the individual listed in the "For Further Information Contact" section of this document.

- **NRC's Agencywide Documents Access and Management System**

**(ADAMS):** You may obtain publicly available documents online in the ADAMS Public Documents collection at <https://www.nrc.gov/reading-rm/adams.html>. To begin the search, select "Begin Web-based ADAMS Search." For problems with ADAMS, please

contact the NRC's Public Document Room (PDR) reference staff at 1-800-397-4209, at 301-415-4737, or by email to [PDR.Resource@nrc.gov](mailto:PDR.Resource@nrc.gov). The ADAMS accession number for each document referenced (if it is available in ADAMS) is provided the first time that it is mentioned in this document.

- **NRC's PDR:** The PDR, where you may examine and order copies of publicly available documents, is open by appointment. To make an appointment to visit the PDR, please send an email to [PDR.Resource@nrc.gov](mailto:PDR.Resource@nrc.gov) or call 1-800-397-4209 or 301-415-4737, between 8 a.m. and 4 p.m. eastern time (ET), Monday through Friday, except Federal holidays.

**FOR FURTHER INFORMATION CONTACT:** Michael Orenak, Office of Nuclear Reactor Regulation, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001; telephone: 301-415-3229; email: [Michael.Orenak@nrc.gov](mailto:Michael.Orenak@nrc.gov).

**SUPPLEMENTARY INFORMATION:**

**I. Introduction**

Under section 2.106 of title 10 of the *Code of Federal Regulations* (10 CFR), the NRC is providing notice of the issuance of Construction Permits, CPTR-7 and CPTR-8, to Kairos for the two units of the proposed Hermes 2 test reactor facility. The construction permits, which are immediately effective, authorize Kairos to construct a test reactor facility, as described in Kairos's construction permit application, in Oak Ridge, Tennessee. With respect to the construction permit application filed by Kairos, the NRC finds that the applicable standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's regulations have been met. The NRC finds that any required notifications to other agencies or bodies have been duly made and that, among other things, there is reasonable assurance that the activities authorized by the permits will be conducted in compliance with the rules and regulations of the Commission, that safety questions will be satisfactorily resolved by the completion

of construction, and that, taking into consideration siting criteria, the proposed facility can be constructed and operated at the proposed location without undue risk to public health and safety, subject to the conditions listed in the construction permits. Furthermore, the NRC finds that the licensee is technically and financially qualified to engage in the activities authorized, and that issuance of the license will not be inimical to the common defense and security or to the health and safety of the public. Finally, the NRC finds that the findings required by Subpart A of 10 CFR part 51 have been made.

Accordingly, the immediately effective construction permits were issued on November 21, 2024.

## **II. Further Information**

The NRC prepared a Safety Evaluation (SE) as well as an Environmental Assessment (EA) and Finding of No Significant Impact (FONSI) that document the NRC's evaluation of Kairos's construction permit application and the NRC's findings. The Commission also issued its Memorandum and Order documenting its final decision on the mandatory hearing on November 20, 2024. In accordance with 10 CFR 2.390 of the NRC's "Agency Rules of Practice and Procedure," details with respect to this action, including the SE, EA, FONSI, and accompanying documentation included in the construction permit package, as well as the Commission's hearing decision, are available online in the ADAMS Public Documents collection at <https://www.nrc.gov/reading-rm/adams.html>. From this site, persons can access the NRC's ADAMS, which provides text and image files of NRC's public documents.

## **III. Availability of Documents**

The documents identified in the following table are available to interested persons through one or more of the following methods, as indicated.

<b>Document Description</b>	<b>ADAMS Accession No.</b>
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Construction Permit No. CPTR-7	ML24324A021
Construction Permit No. CPTR-8	ML24324A022
Commission's Memorandum and Order on the mandatory hearing	ML24325A378
Safety Evaluation Related to the Kairos Power LLC Construction Permit Application for the Hermes 2 Non-power Test Reactor Facility	ML24200A114 (Package)
Environmental Assessment and Finding of No Significant Impact for the Construction Permits and Environmental Review Exemptions for the Kairos Hermes 2 Test Reactors, dated August 2024.	ML24240A034
Kairos Construction Permit Application	ML23195A122
	ML23195A123
	ML24144A090 (package)
	ML23195A125
	ML23195A127
	ML23195A130
	ML23195A132
	ML24103A245

Dated: November 22, 2024.

For the Nuclear Regulatory Commission.

**/RA/**

Jeremy Bowen, Director,  
Division of Advanced Reactors and  
Non-Power Production and Utilization  
Facilities,  
Office of Nuclear Reactor Regulation.