

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

BEFORE THE COMMISSION

In the Matter of

KAIROS POWER LLC

(Hermes 2 Test Reactor Facility)

Docket No. 50-611-CP
50-612-CP

NRC STAFF EXHIBIT LIST

The U.S. Nuclear Regulatory Commission (NRC) staff (Staff) hereby files its exhibit list for the mandatory hearing on the construction permit application for the Kairos Power LLC Hermes 2 test reactor facility. The exhibit list attached to this filing includes the documents described in Section V of the Commission's Notice of Hearing, issued on September 12, 2024.¹

Respectfully submitted,

/Signed (electronically) by/

Anita Ghosh Naber
Counsel for NRC Staff
Mail Stop: O-14-A44
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001
Telephone: (301) 415-0764
E-mail: anita.ghoshnaber@nrc.gov

Executed in accord with 10 CFR 2.304(d)

Megan Wright
Counsel for NRC Staff
Mail Stop: O-14-A44
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001
Telephone: (516) 765-6523
E-mail: megan.wright@nrc.gov

¹ Kairos Power LLC; Notice of Hearing, 89 Fed. Reg. 74,303, 74,304 (Sept. 12, 2024).

Dated at Rockville, Maryland
this 10th day of October, 2024

NRC Staff Exhibits for the Kairos Hermes 2 Mandatory Hearing

<u>Exhibit Number</u>	<u>Exhibit Title</u>	<u>ADAMS Accession No.</u>
NRC-001	SECY-24-0075: Staff's Statement in Support of the Uncontested Hearing for Issuance of Construction Permits for the Kairos Hermes 2 Test Reactor Facility (September 5, 2024)	ML24152A258
NRC-002A	Kairos Power LLC, Construction Permit Application – Cover Letter and Affidavit (July 14, 2023)	ML23195A122
NRC-002B	Kairos Power LLC, Construction Permit Application – General Information (July 14, 2023)	ML23195A123
NRC-002C	Kairos Power LLC, Construction Permit Application – Hermes 2 Preliminary Safety Analysis Report, Rev. 1 (May 23, 2024)	ML24144A092
NRC-002D	Kairos Power LLC, Construction Permit Application – Environmental Report, Rev. 0 (July 14, 2023)	ML23195A125
NRC-002E-P	NON-PUBLIC - Kairos Power LLC, Construction Permit Application – Financial Information (April 12, 2024)	ML24103A246
NRC-002F	Kairos Power LLC, Construction Permit Application – Exemptions (July 14, 2023)	ML23195A127
NRC-002G	Kairos Power LLC, Construction Permit Application – KP-TR-017-NP, "KP-FHR Core Design and Analysis Methodology," Rev. 1 (July 14, 2023)	ML23195A130
NRC-002G-P	NON-PUBLIC - Kairos Power LLC, Construction Permit Application – KP-TR-017-P, Rev. 1, "KP-FHR Core Design and Analysis	ML23195A128

	Methodology" (July 14, 2023)	
NRC-002H	Kairos Power LLC, Construction Permit Application – KP-TR-022-NP "Hermes 2 Postulated Event Methodology" Rev. 1 (May 23, 2024)	ML24144A094
NRC-002H-P	NON-PUBLIC - Kairos Power LLC, Construction Permit Application – KP- TR-022-P "Hermes 2 Postulated Event Methodology" Rev. 1 (May 23, 2024)	ML24144A093
NRC-002I	Kairos Power LLC, Construction Permit Application – Summary of PSAR Deletions (July 14, 2023)	ML23195A132
NRC-002J	Kairos Power LLC, Construction Permit Application – Cover Letter and Affidavit, Transmittal of Changes to Construction Permit Application - Financial Information (April 12, 2024)	ML24103A245
NRC-002K	Kairos Power LLC, Construction Permit Application – Cover Letter and Affidavit, Submittal of the Hermes 2 Preliminary Safety Analysis Report for the Kairos Power Fluoride Salt- Cooled, High Temperature Non-Power Reactor, Rev. 1, and the Postulated Event Analysis Methodology Technical Report, Rev. 1 (May 23, 2024)	ML24144A091
NRC-003A	Kairos Power LLC, Hermes 2 Test Reactor Facility, Unit 1, Draft Construction Permit (September 6, 2024)	ML24233A071
NRC-003B	Kairos Power LLC, Hermes 2 Test Reactor Facility, Unit 2, Draft Construction Permit (September 6, 2024)	ML24233A072
NRC-004	Safety Evaluation for the Kairos Power LLC	ML24200A115

	Construction Permit Application for the Hermes 2 Non-power Test Reactor Facility (July 2024)	
NRC-005	Environmental Assessment and Finding of No Significant Impact for the Construction Permits and Environmental Review Exemptions for the Kairos Hermes 2 Test Reactors, Final Report (August 2024)	ML24240A034
NRC-006A	ACRS Letter (July 17, 2024)	ML24197A152
NRC-006B	NRC Staff Response to ACRS Letter (September 19, 2024)	ML24207A083

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CERTIFICATE OF SERVICE

Pursuant to 10 C.F.R. § 2.305, I hereby certify that copies of the foregoing “NRC STAFF EXHIBIT LIST,” dated October 10, 2024, and NRC Staff Exhibits NRC-001, NRC-002A – NRC-002D, NRC-002F, NRC-002G, NRC-002H, NRC-002I – NRC-002K, NRC-003A, NRC-003B, NRC-004, NRC-005, NRC-006A, and NRC-006B have been served in a public filing, and NRC Staff Exhibits NRC-002E-P, NRC-002G-P, and NRC-002H-P, have been served in a non-public filing, upon the Electronic Information Exchange, the NRC’s E-Filing System, in the above-captioned proceeding, this 10th day of October, 2024.

/Signed (electronically) by/

Anita Ghosh Naber
Counsel for NRC Staff
Mail Stop: O-14-A44
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001
Telephone: (301) 415-0764
E-mail: anita.ghoshnaber@nrc.gov

Dated at Rockville, Maryland
this 10th day of October, 2024