

From: Bridget Hawn <hawn@kairospower.com>
Sent: Wednesday, April 6, 2022 12:16 PM
To: KairosHermes-CPEIS Resource
Cc: Dozier, Tami; Beasley, Benjamin; kennedy.william@nrc.gov; Darrell Gardner; Martin Bryan
Subject: [External_Sender] Kairos Power LLC - Comments on Scoping of Hermes Environmental Impact Statement - Docket ID: NRC-2021-0193 CORRECTED COPY
Attachments: KP-NRC-2204-004 Kairos Power Input to Hermes Scoping.pdf

Please find attached the corrected copy of Kairos Power LLC - Comments on Scoping of Hermes Environmental Impact Statement - Docket ID: NRC-2021-0193. Please replace the version that was submitted yesterday with this new version.

Thank you,



Bridget Hawn

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Sent Date: 4/6/2022 12:16:06 PM
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From: Bridget Hawn

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Recipients:

"Dozier, Tami" <Tamsen.Dozier@nrc.gov>
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April 5, 2022

Regulations.gov Docket ID: NRC-2021-0193
NRC Licensing Docket No. 50-7513

Office of Administration
Mail Stop: TWFN-7-A60M
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001
ATTN: Program Management, Announcements and Editing Staff
Submitted via *KairosHermes-CPEIS@nrc.gov*

Subject: Kairos Power LLC
Comments on Scoping of Hermes Environmental Impact Statement
Docket ID: NRC-2021-0193

- References:
1. Kairos Power to Office of Administration, *Generic Environmental Impact Statement for Advanced Nuclear Reactors, Comments to Docket ID NRC-2019-0226*, January 24, 2020
 2. Kairos Power to Office of Administration, *Comments on Scoping of an Advanced Nuclear Reactor Generic Environmental Impact Statement*, June 30, 2020

Kairos Power provided scoping input to the NRC staff via References 1 and 2 regarding a generic environmental impact statement (GEIS) for advanced nuclear reactors (ANRs) under docket NRC-2019-0226. This letter offers Kairos Power comments on scoping for the environmental impact statement (EIS) specific to the Hermes non-power reactor, the construction permit application for which is currently under review. This input includes encouragement of the NRC staff to make maximum use of the evaluations being conducted in support of the ANR GEIS.

Kairos Power's input is contained in the enclosure to this letter. Kairos Power sincerely appreciates the opportunity to provide input for the staff's consideration. If you have any questions or need any additional information, please contact Darrell Gardner at gardner@kairospower.com or (704) 769-1226, or myself at hastings@kairospower.com or (704) 336-9596.

Sincerely,



Peter Hastings, PE
Vice President, Regulatory Affairs and Quality

Enclosure: Kairos Power Input to Hermes EIS Scoping

xc (w/enclosure):

William Kennedy, Acting Chief, NRR, Advanced Reactor Licensing Branch
Benjamin Beasley, Project Manager, NRR, Advanced Reactor Licensing Branch
Tamsen Dozier, Environmental Project Manager, NMSS, Environmental Review Branch

Kairos Power LLC

www.kairospower.com

Enclosure

Kairos Power Input to Hermes
Environmental Impact Statement Scoping

Kairos Power encourages continued innovation and enhanced efficiency in the NRC staff's execution of its responsibilities under the National Environmental Policy Act (NEPA). NEPA is a *procedural* statute intended to *inform* the federal action and not a *substantive* statute that requires a specific decision or outcome such as compliance determination.

The scope of the federal action is fully enveloped in the Environmental Report (ER) submitted by Kairos Power as part of its Construction Permit Application (CPA). In completing its Environmental Impact Statement (EIS), the NRC staff's level of analysis should be commensurate with the severity of anticipated impacts, and the staff's conclusions should take advantage of existing information to the maximum extent practical:

- First, many impacts are already demonstrated to be small under very conservative assumptions in the Preliminary Safety Analysis Report (PSAR) that comprises the balance of the CPA.
- Second, the staff should be able to conclude that, where applicable, impacts to human health and the environment are small by virtue of compliance with applicable federal and state licenses and permits. Under the best-estimate models appropriate for NEPA, it is not reasonable to analyze conditions that would be likely to occur only during protracted periods of noncompliance that would be detected and corrected through routine monitoring, surveillance, and permit enforcement.
- Third, the staff should, to the maximum practical extent, avail itself of the evaluations conducted in support of the in-process advanced nuclear reactor generic EIS (ANR GEIS). While Kairos Power recognizes the ANR GEIS will not be finalized in time to be used as a direct input to the Hermes review, the supporting evaluations should be used as input to the Hermes EIS wherever applicable.

Finally, the staff also should consider the adverse impacts of the no-action alternative. Hermes is an enabling project that will facilitate broader deployment of clean, resilient energy. Not moving forward with Hermes would make that deployment more difficult and less likely, thereby reducing the likelihood of achievement of climate goals and U.S. energy policy, and impacting Kairos Power's ability to support those goals as a US Department of Energy Advanced Reactor Demonstration Program awardee.