

From: [Drew Peebles](#)
To: [Matthew Hiser](#)
Cc: [Benjamin Beasley](#); [Samuel Cuadrado de Jesus](#); [Edward Helvenston](#); [Darrell Gardner](#)
Subject: [External_Sender] RE: Benjamin Beasley has invited you to work together in "SE text for PROP review.docx" file on Box
Date: Friday, December 16, 2022 9:37:52 AM
Attachments: [image001.png](#)
[image002.png](#)
[image006.png](#)

Hi Matt,

We have reviewed the proposed text below for proprietary content, and Kairos Power considers the language to be non-proprietary.

"In a docketed audit response KP-NRC-2209-003, "Transmittal of Response to NRC Question on DHRS Testing from PSAR Section 6.3 Audit on Hermes Preliminary Safety Analysis Report," , Kairos stated that two-phase flow dynamics associated with quenching at low pressure is included in the qualification testing. Similarly, the staff asked if a thimble feedwater float valve failing to close as heat demand decreases was included in the DHRS qualification testing. The staff notes that the float valve failing to close could potentially flood the steam separator leading to the potential for inadequate heat removal and/or placing large dynamic loads on the various DHRS components. As described in KP-NRC-2209-003, Kairos stated that float valve failure to close is included in the DHRS qualification testing. KP-NRC-2209-003 also addressed other DHRS qualification tests of interest to the staff including the effects of two-phase natural circulation instabilities and potential evaporator tube fouling on the ability to maintain adequate heat removal."

Thanks,
Drew



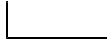
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From: Benjamin Beasley <noreply@box.com>
Sent: Wednesday, December 14, 2022 6:04 PM
To: Drew Peebles <peebles@kairospower.com>
Subject: Benjamin Beasley has invited you to work together in "SE text for PROP review.docx" file on Box

CAUTION: This email originated from outside of the organization.

|



Benjamin Beasley wants to work with you on SE text for
PROP review.docx



[SE text for PROP review.docx](#)

"Proprietary information review request from Matt Hiser."

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