

Enclosure 10

Summary of PSAR Deletions (Non-proprietary)

In support of the design-centered review approach discussed in the letter transmitting this application, the information below summarizes the content from the Hermes preliminary safety analysis report (PSAR) that was removed in generating the Hermes 2 PSAR.

Notes:

1. Summary of changes herein does not include editorial changes (e.g., grammatical and formatting), or changes that were deletions resulting from inserted replacement content.
2. The term “Hermes” and sometimes “Hermes reactor” was deleted throughout the document where such terminology was not needed to provide specific differentiation between the two reactor facilities (the Hermes facility and the two-unit Hermes 2 facility) located on the site. This deletion is not separately identified in individual sections/chapters.

PSAR Chapter 1

- Section 1.3.3.3: Removed primary heat transport system because the PHTS is not safety related.

PSAR Chapter 2

- Section 2.1.2.1: Deleted description of prior method for estimating population growth
- Section 2.2.2.1: Figure 2.2-2 does not show location of proposed airport
- Section 2.2.3: Deleted sentence that specific hazards were not evaluated. New text discusses the nearby hazards
- Section 2.5.4.3: Deleted location of boreholes not relevant to location of Hermes 2 site

PSAR Chapter 3

- Section 3.1.1: Deleted PDC 73 “not applicable” discussion since this PDC does apply to Hermes 2

PSAR Chapter 4

- No substantive deletions

PSAR Chapter 5

- Section 5.1: Deleted interface between Primary Heat Transport System and chemistry control system. Samples are taken in Inventory Management System
- Section 5.1.1.3: Deleted content related to heat rejection subsystem and replaced with intermediate heat exchanger content

PSAR Chapter 6

- No deletions

PSAR Chapter 7

- Section 7.1.3: Deleted discussion of controls for heat rejection subsystem

Summary of PSAR Deletions (continued)

PSAR Chapter 8

- No substantive deletions

PSAR Chapter 9

- No substantive deletions

PSAR Chapter 10

- No deletions

PSAR Chapter 11

- Section 11.1.5: Deleted stack parameters (Table 11.1-2) that were specific to Hermes heat removal stack

PSAR Chapter 12

- No substantive deletions

PSAR Chapter 13

- No substantive deletions

PSAR Chapter 14

- No substantive deletions

PSAR Chapter 15

- No substantive deletions

PSAR Chapter 16

- No deletions

PSAR Chapter 17

- No deletions

PSAR Chapter 18

- No deletions

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- Section 4.1.3: Deleted a statement that replaced the Hermes PHX with the Hermes HRR