

DESIGN REVIEW DOCUMENTATION – RESULTS

Title: Center Stack Heating/Cooling Tube _____ **WP#:** 2322 (ENG-032)

Type of Review: ☐ Peer ☐ CDR ☒ PDR ☐ FDR

Cog Individual: D. Cai _____ **Date of Review:** 11/30/17 _____

Review Board Members:

Chairperson W. Blanchard _____	N. Atnafu _____	C. Neumeyer _____
M. Smith R.E. and presenter _____	L. Dudek _____	A. Brooks _____
I. Zatz Technical Authority _____	S. Gerhardt presenter _____	H. Zhang presenter _____
D. Loesser _____	P. Titus presenter _____	A. Finehart _____
J. Petrella _____	F. Malinowski QA _____	S. Weidner _____
R. Ellis _____	J. Levine Safety _____	S. Raftopoulos _____
K. Holtrip GA remote _____	_____	M. Cropper _____

Attendees:

Items Reviewed:

	Sat.	Unsat.	Comments
Appropriate requirements identified	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Development plans and schedules	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Regulatory compliance including USQD and NEPA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NEPA 1631 _____
Disposition of CHITS from previous reviews	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Cost objectives	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Other review objectives addressed	<input type="checkbox"/>	<input type="checkbox"/>	_____

(attachment 4 of ENG-033)

SUMMARY OF RESULTS:

Presentations for this review were made by D. Cai (heat transfer tube and heat transfer plate design and manufacturing plan), H. Zhang (thermal and integrated analyses), P. Titus (loads analysis), M. Smith (cost and schedule) and S. Gerhardt (requirements). Presentations are available at HTP HTT PDR Dashboard. There were 33 chits generated during this review dealing mostly with additional analyses, assembly/proto-typing and welding. The complete chit list is available at HTP HTT PDR Dashboard, Chit Responses tab. The Center Stack Heating/Cooling Tube project should proceed on to a final design review pending resolution of the chits.

Disposition: [check one]

_____ **Acceptable**

 X **Acceptable pending resolution of concerns-** CHITS identified above must be resolved prior to installation.

_____ **Incomplete** - Additional design work is required prior to another design review.

Chairperson Signature: _____ **Date:** 12/5/17

Distribution: Review Board Members, Operations Center, Cognizant Design Engineer, System Engineer(s), Attendees, QA, ES&H, Security