

Design Review Results Form

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DESIGN REVIEW DOCUMENTATION – RESULTSTitle: Ex-Vessel Heating SystemWP#: 2314 (ENG-032)

CAT: A1

Type of Review: ☐ Peer ☐ CDR ☒ PDR ☐ FDRCognizant Individual: J. Petrella Date of Review: 2/1/18

Review Board Members:

Review Board Members:

Other Attendees:

Chairperson: W. BlanchardTA (ME): L. DudekM. ViolaRE: J. PetrellaTA (EE): J. LacenereJ. Menard (remote)CE: V. RiccardoM. CropperPE: C. NeumeyerN. AtnafuQA: J. MaloS. GerhardtESH: J. TothT. Stevenson

Regulatory Compliance _____

Items Reviewed:

Sat.

Unsat.

Comments or n/a if not applicable

Appropriate requirements identified

☒☐

Development plans and schedules

☒☐

Reg. compliance incl. USI/USID and NEPA

☒☐

Disposition of CHITS from previous reviews

☒☐

Cost objectives

☒☐

Other review objectives addressed

☐☐SUMMARY OF RESULTS:

J. Petrella reviewed the ex-vessel heating system with the emphasis on modifications and controls for enhancing the safety of the system. Some of the improvements include additional sensors and interlocks for pressure, flow and temperature, reconfigure a redundant circulation pump, installing appropriately sized pressure relief valves and an emergency blowdown system. Four chits were generated for this review concerning installation of an additional flow meter on the return path, investigating the air ballast available for blowdown in the event of a power outage, ensuring valves meet MECH-15 and ASME pressure and flow requirements and emending the FMEA for a pressure loss from a pipe failure. The review board deemed this to be a successful PDR and to proceed on to the FDR 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. Unsuccessful – Corrective actions must be taken and another review process must be initiated.Responsible Engineer _____ Date: 2/5/18

DRC Concurrence _____ Date: _____

Distribution: Review Board Members, Operations Center, Responsible Engineer, Cognizant Individuals, Project Manager, Project Director, relevant Technical Authorities, Chief Engineer, Fire Protection Engineer, Attendees, QA, ES&H, Security, Requesting & Performing Dept. Head