

ENCLOSURE 1

SHINE TECHNOLOGIES, LLC

SHINE TECHNOLOGIES, LLC APPLICATION FOR AN OPERATING LICENSE SUPPLEMENT NO. 13 AND RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION

FINAL SAFETY ANALYSIS REPORT CHANGE SUMMARY

Summary Description of Changes	FSAR Impacts
Update to relocate neutron flux detection system (NFDS) cabinets outside of the facility control room.	Section 7.4, Figure 7.6-1, and Section 7.8
Update to remove direct communication between NFDS and the process integrated control system (PICS).	Section 7.1, Figure 7.1-1, Section 7.3, and Section 7.8
Update terminology from “master-slave” to “primary-secondary.”	Section 7.4, Figure 7.4-2, Section 7.5, and Section 9b.7
Update communication logic between the PICS and the target solution vessel (TSV) reactivity protection system (TRPS), and update communication logic between PICS and engineered safety systems actuation system (ESFAS).	Figure 7.4-1, and Figure 7.5-1
Update TSV off-gas system (TOGS) flowmeter response time.	Table 7.4-1
Update to clarify failsafe switch operation for TRPS and ESFAS.	Figure 7.4-1, and Figure 7.5-1

Final Safety Analysis Report (FSAR) mark-ups related to the SHINE Technologies, LLC (SHINE) responses to requests for additional information are provided as Attachment 1 to Enclosure 2 (non-public version) and Enclosure 3 (public version). FSAR mark-ups associated with the above FSAR changes are included with those mark-ups provided as Attachment 1 to Enclosure 2 and Enclosure 3.