

NRC Staff's Questions for April 9, 2018 Public Meeting with NuScale Regarding Its DCA Chapter 20

1. The staff is unclear whether NuScale design conform to NEI 12-06, Rev. 2, partially, or fully. NuScale FSAR (Tier 2 Table 1.9-2) and other applicable documents need to clearly indicate conformance to the applicable revision(s) of NEI 12-06.
2. How does the UHS instrument-specific backup batteries, and replaceable battery packs, satisfy the NEI 12-06 guidance with respect to "protection"? FSAR and TR-0816-50797-P need to be revised to include a discussion of conformance to NEI 12-06.
3. What are the COLA responsibilities on how the UHS instrument-specific backup batteries are to be protected, maintained, and periodically tested? Where are these responsibilities discussed in the DCA?
4. Since the onsite power sources (EDSS and instrument-specific backup battery packs) are used to provide power to the UHS instruments for monitoring of key safety functions following a BDBEE, how are the UHS instruments powered during Phases 1, and 3, including up to and beyond 30 days?
5. The staff understands that the UHS instrument-specific backup battery pack and UHS replacement battery pack are considered portable equipment. Are these batteries part of the Phase 1 strategy?
6. Where are the COLA responsibilities specified in the DCA to assure the power is provided to the UHS instruments during all Phases?
7. Since the NuScale design relies on onsite plant equipment for Phase 3, how does the design conform to the Phase 3 guidance of relying on offsite resources, as discussed in NEI 12-06, Rev. 2?
8. At what locations are the UHS instruments monitored (i.e. MCR, RSS or other location)? Where does the FSAR discuss information regarding lighting (and the power sources for the lighting) for the trained personnel to monitor UHS parameters? Also, where can the staff find discussion regarding the lighting available for the personnel to replace UHS instrument-specific battery packs?
9. The staff's understanding is that the power sources (batteries) used for the UHS/SFP level monitoring last 72 hours, and the replacement batteries also last 72 hours. Describe how is the 30-day coping timeframe accomplished?