

Response to SDAA Audit Question

Question Number: A-11.1-3

Receipt Date: 05/30/2023

Question:

NRC staff requests NuScale explain the apparent discrepancy between the full power steam flow rate found in Table 10.3-1 ($8.14E5$ lb/hr) and the secondary coolant flow rate found in Table 11.1-2 ($6.5E5$ lb/hr). Staff notes that in the previous DCD submittal these values appeared consistent with each other.

Response:

Table 11.1-2 lists parameters used to calculate coolant source terms. The secondary coolant flow rate used to calculate secondary coolant source terms is based on a conservatively low secondary coolant flow rate. Table 10.3-1 lists main steam system design data. The full power main steam flow design is greater than the conservatively low flow rate used in the analysis to calculate secondary coolant source terms.

No changes to the SDAA are necessary.