

**Supplement RAI Request for RAI 6.3-43
MFN 06-465**

RAI 6.3-43

Provide additional details on the selection of the failed gravity driven cooling system (GDCS) valve and justify why this is conservative. Since there are multiple GDCS lines and multiple GDCS tanks, there are multiple combinations of failed valve and broken injection line that are possible. The selection of the failed valve in conjunction with the selection of the broken injection line can elicit different results in calculated minimum reactor pressure vessel water level for each combination.

This RAI was discussed with GE staff at the audit of TRACG as applied to ESBWR LOCA conducted at GE offices in Wilmington, NC from December 11 – 15. GE provided slides with diagrams of the GDCS pools and connections to the vessel and explained how these are represented by the TRACG input deck. GE compared the different break/valve failure combinations and explained that they modeled the worst possible combination. The staff would like the information presented at the audit (slides plus narrative) to be submitted formally as a response to this RAI. The context of the information should be similar to that presented to the staff during the audit. (Reference: TRACG LOCA Audit Presentation Slides, ADAMS Accession No. ML063540147)