

SSES-FSAR

QUESTION 222.1

Describe in detail how the feedwater line and recirculation line short-term mass and energy release rates, used in the annulus pressurization and loading calculations, were determined.

Provide, separately, as a function of time, the mass flux ($\text{lbm}/\text{sec}/\text{ft}^2$) and areas used for each side of the break (the reactor vessel side and the inventory or long pipe side). List all assumptions and conservatisms used. If a hand calculation was used for this analysis, document the work done.

RESPONSE:

Refer to Appendix 6A for response.

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QUESTION 222.2

One second after a postulated steam line break, a quality less than 1.0 was assumed to exit the rupture.

This may provide the limiting containment pressurization, but may not provide the limiting containment temperature. Assuming 100% efficiency for the steam separators and dryers, provide the mass and energy release rates which would occur with a 1.0 break quality. Show that this would not provide the limiting condition for the drywell and suppression pool temperature.

RESPONSE:

FSAR Subsection 6.2.1.1.3.3.2 has been revised to provide this information.