

Enclosure 1

MFN 09-049

**Response to Portion of NRC Request for
Additional Information Letter No. 220
Related to ESBWR Design Certification Application
Mechanical Systems and Components
RAI Numbers 3.9-243**

NRC RAI 3.9-243

Summary: Provide justification for extrapolating the stresses in ESBWR top Guide from stresses calculated in the ABWR

With respect to GEH response to RAI 3.9-77 S01, please provide the justification for extrapolating the stresses in the ESBWR top guide from stresses calculated in the ABWR, based on the guide plate lateral load results from the beam model analyses. In particular, comment on any differences in stress concentrations on the boundary and stress patterns on the boundary and interior in the ABWR and ESBWR top guides, all of which would have to be the same or very similar in the ABWR and the ESBWR for the extrapolation to provide a reasonable estimate of the stress in the ESBWR top guide.

GEH Response

See the response to RAI 3.9-77 S02

DCD Impact

No changes to the subject LTR will be made in response to this RAI.