

**Revision 1 to Revision 2 Change List – Appendix 3G**

<b>Item</b>	<b>Location</b> (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	<b>Description of Change</b>
1.	S3G.1.4.1, 3 <sup>rd</sup> para, 1 <sup>st</sup> sent.	Replaced sentence with “Liner plates of various thicknesses as shown in Figure 3G.1-48 are included in the model at locations of the pressure boundary of the containment” per RAI 3.8-27.
2.	S3G.1.5.2.1.6	Added following paragraphs after 1 <sup>st</sup> paragraph per RAI 3.8-14: “The evaluation method of temperature effect on the concrete design is based on ACI 349-01 Commentary Figure RA.1. The two cases, winter and summer, are considered in the analysis.”
3.	S3G.1.5.2.1.13	Added following at the end of section per RAI 3.8-20: Seismic member forces for each section are obtained directly from the NASTRAN analysis using these seismic input loads.”
4.	S3G.1.5.2.2.2, 1 <sup>st</sup> para., 2 <sup>nd</sup> sent.	Replaced “are small and are neglected” with “are not direct loads and their indirect effects through the supporting RCCV top slab are negligibly small” per RAI 3.8-39.
5.	S3G.1.5.2.3.1, 1 <sup>st</sup> para.	Added following at the end of section per RAI 3.8-23: “The design temperature of the drywell is 171°C (340°F) as shown in Table 1.3-3, and it satisfies the concrete temperature limit, 350°F, for accident or short term period specified in ASME Section III, Subsection CC-3440.”
6.	S3G.1.5.3	Added following after 1 <sup>st</sup> sentence per RAI 3.8-83: “Because the impact on the stability by seismic load is larger than wind and tornado, the load combinations for W and Wt, which are shown in Table 3.8-14, are excluded.”
7.	S3G.1.5.4.1.4, new para.	Details on Simplified Elastic-Plastic Analysis are provided per RAI 3.8-29.
8.	S3G.1.5.4.2, new 2 <sup>nd</sup> para.	Additional details are provided per RAI 3.8-51.
9.	T3G.1-11, Columns 5 & 7, Row 2 (title)	Added reference to note “*3” per RAI 3.8-71.

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10.	T3G.1-11, new Note *3	<p>Added note per RAI 3.8-71:</p> <p>“*3: <math>P_a</math> and <math>T_a</math> are accident pressure load within the containment and thermal load generated by LOCA, respectively.</p> <p><math>P_a</math> and <math>T_a</math> are indirect loads, but their effects are considered in the RB design.”</p>
11.	T3G.1-35, Row 5, Column 1	Replaced “0.005” with “0.0005” per RAI 3.8-21.
12.	F3G.1-55	Replaced with new figure.
13.	S3G.2.3, 2 <sup>nd</sup> para.	<p>Added following at the end of paragraph per RAI 3.8-63:</p> <p>“The CB is adjacent to but structurally independent of the Reactor Building (see Figures 1.2-2 through 1.2-5 and Figure 1.2-11).”</p>
14.	S3G.3.5.2.1	<p>Added new paragraph per RAI 3.8-74:</p> <p>“This section presents only the loads which are applied to the FB directly. Other loads which are applied to the RCCV only but have effects on FB structures because of common foundation mat, like <math>P_a</math> and <math>T_a</math>, are also considered in the FB design.”</p>
15.	T3G.3-4, Column 5 & 7, Row 2 (title)	Added reference note “*3” per RAI 3.8-74.
16.	T3G.3-4, Notes	<p>Added Note per RAI 3.8-74:</p> <p>“*3: <math>P_a</math> and <math>T_a</math> are accident pressure load within the containment and thermal load generated by LOCA, respectively.</p> <p><math>P_a</math> and <math>T_a</math> are indirect loads, but their effects are considered in the FB design.”</p>

### Revision 1 to Revision 2 Change List – Appendix 3I

<b>Item</b>	<b>Location</b> (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	<b>Description of Change</b>
1.	3I.6	Damping editorial error corrected.
2.	3I	For clarity, footnote references removed and imbedded within text.
3.	3I	Italics added to identify areas where change may not occur without NRC staff approval.
4.	3I.1(c)	Exploratory test sinusoidal sweep rate maximum changed from “1” to “2” octaves per minute.
5.	3I.1(d) 1 <sup>st</sup> paragraph	<p>1<sup>st</sup> sentence changed from:</p> <p>The dynamic tests simulate the effect of five (5) upset events* and in-service hydrodynamic loads having a long duration in order to simulate dynamic event aging followed by one (1) faulted event.</p> <p>To:</p> <p><i>The dynamic tests simulate the effect of low level earthquake loads combined with Service Level B RBV dynamic loads.</i></p>
6.	3I.1(d)	2 <sup>nd</sup> , 3 <sup>rd</sup> and 4 <sup>th</sup> paragraphs deleted

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7.	3I.1(d)	<p>5<sup>th</sup> paragraph changed from:</p> <p>The test sequence to be used when addressing long term hydrodynamic loads will be:</p> <ol style="list-style-type: none"> <li>(1) Vibration aging (if required)</li> <li>(2) SRV cycles (duration as above)</li> <li>(3) 5 Upset events* (0.5 SSE<sup>†</sup> + hydrodynamic) (30 seconds each)</li> <li>(4) 1 Faulted event (SSE + hydrodynamic) (30 second duration)</li> <li>(5) Chugging (15 minute duration)</li> </ol> <p>To:</p> <p>The test sequence to be used will be:</p> <ol style="list-style-type: none"> <li>(1) Vibration aging (if required)</li> <li>(2) Low level earthquake loads combined with Service level B RBV dynamic loads</li> <li>(3) SSE loads combined with Service level D RBV dynamic loads</li> </ol>
8.	3I.1(d)	Deleted last paragraph.

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**Revision 1 to Revision 2 Change List – Appendix 3K**

<b>Item</b>	<b>Location</b> (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	<b>Description of Change</b>
1.	S3K.2	Added following paragraph at the end: “The periodic surveillance and leak rate testing requirements for high-pressure to low-pressure isolation valves are not applicable to the ESBWR, because, as shown in this appendix, the ESBWR design does not contain a pressure isolation valve between the reactor coolant pressure boundary and a low pressure piping system.”
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3.		
4.		
5.		
6.		