

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

<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.	T3A.2-1, last row	Column 2: Replaced “20.15” with “20” per RAI 3.7-8. Column 3: Replaced “15.05” with “14.9” per RAI 3.7-8.
2.	S3A.3.1, 1 <sup>st</sup> para., 5 <sup>th</sup> sent.	Replaced “bracketing” with “bounding” per RAI 3.7-38.
3.	S3A.3.1, 1 <sup>st</sup> para.	Added following sentences at the end of paragraph per RAI 3.7-38: “These values are considered to be compatible with the strain level expected during SSE. They were used directly in computing soil spring and damper properties.”
4.	S3A.3.1	Added following paragraph at the end of section per RAI 3.7-30: “In addition to these uniform sites, four layered sites are also considered. They are composed of soft, medium and hard soil layers of varying depths as shown in Table 3A.3-3, taking into account variation of shear wave velocity with depth so that the effect of impedance mismatches between layers can be captured.”
5.	New Table 3A.3-3	Layered Site Cases are provided per RAI 3.7-30.
6.	S3A.5, 3 <sup>rd</sup> para.	Inserted following sentence after 2 <sup>nd</sup> sentence per RAI 3.7-32: “For this evaluation, soil material damping values are conservatively neglected.”
7.	S3A.5, 3 <sup>rd</sup> para.	Inserted following sentence after 3 <sup>rd</sup> sentence per RAI 3.7-37: “The method used to obtain the equivalent frequency-independent soil stiffness and damping is illustrated in Figure 3A.5-1.”
8.	New Figure 3A.5-1	Method for Frequency-Independent Soil Properties is provided per RAI 3.7-37.
9.	S3A.7.1, 10 <sup>th</sup> para.	Deleted “respective” and inserted “100% of the roof snow load” after “...live load” per RAI 3.7-22.
10.	T3A.7-1 thru T3A.7-14, Notes	Added Note (2) per RAI 3.7-36(a): “Modal information shown is not used in the response analysis

<b>Item</b>	<b>Location</b> (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	<b>Description of Change</b>
		performed by the direct integration method.”
11.	F3A.7-4	Figure revised to refer to DCD Tier 2 Figures 3A.7-1 through 3A.7-3 for eccentricities per RAI 3.7-21 S1.

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

<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.	None.	

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

<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.	New Sections 3C.7.2 & 3C.7.3	Description, Validation and extent of Application for SASSI2000 computer program and SHAKE (pre-processor computer program) were added in new Sections 3C.7.2 & 3C.7.3 respectively, per RAIs 3.7-30, 3.7-33, 3.7-35, 3.7-36, 3.7-39, 3.7-50 and 3.7-54.

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

<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.	S3D.4.1	Added following paragraph at the end of section per RAI 3.12-14: “Subsequently, the PISYS07 program, which is used for ESBWR piping analysis, has been benchmarked against NUREG/CR-6049. If applicable, COL applicants are also required to benchmark piping computer codes against NUREG/CR-6049.”
2.	S3D.4.6.1	Added following paragraph at the end of section per RAI 3.7-40S1: “Equipment Control Panels, Local Equipment Racks, Main Steam Isolation Valves (MSIVs), Safety Relief Valves (SRVs) and Hydraulic Control Units (HCUs) are some of the components which will be analyzed using ERSIN computer code.”

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

<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.	S3E.2.2, 1 <sup>st</sup> para., 1 <sup>st</sup> sent.	Revised per RAI 5.2-37 to read: “The carbon steels used in the ESBWR reactor coolant pressure boundary piping are SA 106 Gr. B or SA333 Gr. 6.”
2.	S3E.2.2, 1 <sup>st</sup> para., 2 <sup>nd</sup> sent.	Added following at the end of sentence per RAI 5.2-37: “Although only seamless pipe will be used for ESBWR reactor coolant pressure boundary piping.”
3.	S3E.2.2, 1 <sup>st</sup> para.,	Deleted 3 <sup>rd</sup> sentence per RAI 5.2-37.
4.	S3E.3.4, 1 <sup>st</sup> sent.	Revised per RAI 5.2-40 to read: “For joining austenitic steels to ferritic steels, Ni-Cr-Fe Alloys 82 is generally used for weld metals (in selected cases stainless steel types 309L/308L may be used).”

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

<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.	S3F.2.3, Item 4, 1 <sup>st</sup> para., 1 <sup>st</sup> sent.	Revised sentence per RAI 3.8-48 to read: “Sixteen critical pressure time histories for CH and 5 CO are selected for dynamic analysis.”
2.	T3F-1 thru T3F-4	Replaced with new tables per RAI 3.8-48.
3.	F3F-4 thru F3F-22	Replaced with new figures per RAI 3.8-48.