

Chapter 10 Changes From Revision 3 to Revision 4

Item	Location	Description of Change
1.	Entire Chapter	Made editorial changes in numerous locations to remove excessive spacing, correct punctuation, delete repeated words, correct misspelling, and correct grammar. Spelled out acronyms where appropriate and edited Acronym list where needed. Changed GE to GEH where appropriate.
2.	S10.1, 3 rd para	Edited to incorporate design details.
3.	S10.1, 5 th para	Rewritten for clarity.
4.	S10.1, 12 th para	Revised to correct equipment or system description.
5.	S10.1, new 13 th para	Additional information provided for clarity.
6.	S10.1, 14 th para	Removed information per ECA 47.
7.	S10.1, 15 th para	Edited for clarity.
8.	S10.1, 16 th para	Edited for clarity and to incorporate design details.
9.	T10.1-1, 17 th row, Main Condenser	Edited subtitle for clarity.
10.	T10.1-1, 21 st row	Revised delta T based on CW flow and condenser duty.
11.	T10.1-1, 48 th and 53 rd row	Rewritten for clarity.
12.	T10.1-1, footnote	Revised to avoid confusion with standard plant design and conceptual design information (CDI).
13.	S10.2.1, 1 st and 2 nd para	Additional information and editing provided for clarity.
14.	S10.2.1.1	Revised to be consistent with other DCD chapters and sections.
15.	S10.2.1.2, new 1 st bullet	Additional information provided for clarity.
16.	S10.2.1.2, 2 nd and 3 rd bullet	Edited to correct equipment or system description.
17.	S10.2.1.2, 6 th and 7 th bullet	Edited for clarity.
18.	S10.2.1.3, 1 st para	Additional information provided for clarity and to reference Subsection 7.7.5.

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19.	S10.2.1.3.2, 3 rd para	Sentence removed to eliminate conflict with other portions of DCD.
20.	S10.2.2.1, 1 st through 3 rd para	Edited to correct equipment or system description.
21.	S10.2.2.1, 7 th para	Additional sentence provided to reference Section 3.2.
22.	S10.2.2.2	Edited to incorporate design details and clarity.
23.	S10.2.2.2.1, 1 st and 4 th para	Edited for clarity and to incorporate design details.
24.	S10.2.2.2.1, 2 nd and 3 rd para	Rewritten due to design detail changes.
25.	S10.2.2.2.2	Additional information provided to incorporate design detail changes and clarity.
26.	S10.2.2.2.3	Edited information to conform to Regulatory Guide 1.206.
27.	S10.2.2.2.4, 1 st and 2 nd para	Edited for clarity.
28.	S10.2.2.2.5	Edited for clarity.
29.	S10.2.2.2.7, 3 rd para, 4 th bullet	Edited for clarity and to incorporate design details.
30.	S10.2.2.2.8, 1 st and 2 nd para	Revised to correct equipment or system description.
31.	S10.2.2.2.8, 4 th and 5 th para	Design detail removed to eliminate conflict with applicable industrial standards.
32.	S10.2.2.3	Edited to correct equipment or system description.
33.	S10.2.2.4, 1 st para	Edited to incorporate design details and to correct equipment or system description.
34.	S10.2.2.4, new 3 rd	Additional information provided to incorporate design details and the PLU function.
35.	S10.2.2.4, 4 th para	Edited and removed information in order to conform to Regulatory Guide 1.206 and provide clarity.
36.	S10.2.2.4, 5 th para	Removed para to conform to Regulatory Guide 1.206.
37.	S10.2.2.4, new 5 th through 9 th para	Additional information provided to conform to Regulatory Guide 1.206.
38.	S10.2.2.4, 11 th para	Removed for clarity.

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39.	S10.2.2.4, 12 th para	Additional information provided to incorporate design details.
40.	S10.2.2.4, 13 th para, #3	Replaced “control” with “trip” for clarity.
41.	S10.2.2.4, 13 th para, #5	Removed for clarification.
42.	S10.2.2.4, 14 th para	Edited for clarity.
43.	S10.2.2.5, 15 th and 16 th bullet	Additional information provided and edited to incorporate design details.
44.	S10.2.2.5, old 2 nd para	Removed paragraph to allow flexibility in site-specific details.
45.	S10.2.2.5, 2 nd para	Edited for clarity.
46.	S10.2.2.6	Additional information provided for clarity.
47.	S10.2.2.7, 1 st through 3 rd para	Edited for clarity concerning equipment or system description.
48.	S10.2.2.7, 5 th para, bullets	Removed and edited bullets for clarity. Also replaced “Control” with “Hydraulic”.
49.	S10.2.3.1.1, new	Separated paragraphs with new Subsection heading for clarity of information.
50.	S10.2.3.1.2, new	Separated paragraphs with new Subsection heading for clarity of information.
51.	S10.2.3.4, new 1 st para	Additional information provided to incorporate design details.
52.	S10.2.3.4, new 2 nd para	Additional information provided to conform to Regulatory Guide 1.206.
53.	S10.2.3.4, 3 rd para and 1 st bullet	Edited to conform to Regulatory Guide 1.206.
54.	S10.2.3.4, 4 th and 5 th bullets	Edited to incorporate design details and provide clarity.
55.	S10.2.3.4, new 6 th , 8 th , and 9 th bullets	Additional information provided to conform to Regulatory Guide 1.206.
56.	S10.2.3.4, new 7 th bullet	Additional information provided to incorporate design details.
57.	S10.2.3.5, 2 nd and 4 th bullets	Additional information provided in response to RAI 10.2-25 and edited for clarity.

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58.	S10.2.3.5, new 3 rd bullet	Additional information provided to conform to the corresponding SRP section.
59.	S10.2.3.5, 5 th bullet	Edited for clarity.
60.	S10.2.3.5, 2 nd para	Additional information provided and edited to incorporate design details and clarity.
61.	S10.2.3.6, title	Edited for clarity.
62.	S10.2.3.6, 1 st para	Edited for clarity and provided information to conform to Regulatory Guide 1.206.
63.	S10.2.3.7, 1 st para	Removed sentence to allow flexibility in site-specific details.
64.	S10.2.3.7, 2 nd para	Edited for clarity and provided additional information to conform to Regulatory Guide 1.206.
65.	S10.2.3.7, 3 rd para	Removed to allow flexibility in site-specific details.
66.	S10.2.3.7, new 3 rd para	Additional information provided to allow flexibility in site-specific details.
67.	S10.2.3.7, 4 th para	Edited to allow flexibility in site-specific details.
68.	S10.2.3.8, new	Subsection added in response to RAI 10.2-22 and RAI 3.5-17.
69.	S10.2.4, 3 rd para	Edited to incorporate design details.
70.	S10.2.4, 9 th para, old 3 rd bullet	Removed bullet per Draft ECA-0044.
71.	S10.2.4, 11 th para	Removed per Draft ECA-0044.
72.	S10.2.5	Information provided in response to RAI 10.2-22.
73.	S10.2.5.1	Removed section and incorporated into COL 10.2-1-H.
74.	F10.2-1 and F10.2-3	Edited Y-axis label from SCRAM to STEAM.
75.	F10.2-4	Edited due to updated information.
76.	S10.3, 1 st and 2 nd para	Additional information provided for clarity.
77.	S10.3.1.1, #3 and #4	Rewritten and edited for clarity.
78.	S10.3.1.1, new #5	Additional information provided to be consistent with other DCD chapters.
79.	S10.3.1.1, 3 rd para	Additional information and editing provided in response to RAI 3.2-1 S02. Reference to RG 1.26 added per SRP 10.3.6.

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80.	S10.3.1.1, 4 th para	Additional information provided in response to Regulatory Guide 1.206.
81.	S10.3.1.1, 5 th para	Additional information provided in response to RAI 10.3-10 S01 and RAI 3.2-1 S02.
82.	S10.3.1.1, new 6 th and 7 th para	Additional information provided to conform to Regulatory Guide 1.206.
83.	S10.3.2.1, 1 st para	Additional information provided for clarity.
84.	S10.3.2.1, 2 nd through 5 th para	Additional information and editing provided in response to Regulatory Guide 1.206.
85.	S10.3.2.3, 1 st para	Edited for clarity.
86.	S10.3.2.3, 2 nd para	Edited to incorporate design details and provide clarity.
87.	S10.3.3, 1 st para	Edited for clarity.
88.	S10.3.3, new 3 rd para	Additional information provided to conform to SRP 10.3
89.	S10.3.4, new	Revised entire section to conform to Regulatory Guide 1.206.
90.	S10.3.6, new	Additional information provided to entire section to conform to Regulatory Guide 1.206.
91.	S10.3.6.2, 1 st para	Edited for clarity.
92.	S10.3.6.2, new 2 nd and 3 rd para	Additional information provided in response to RAI 10.3-4 S01.
93.	S10.3.6.2, new 4 th para	Additional information provided to conform to SRP 10.3.6
94.	S10.3.6.2, 1 st bullet	Revised to be consistent with other DCD chapters and sections.
95.	S10.3.6.2, 3 rd bullet	Revised to reflect recent revision to SRP 10.3.6.
96.	S10.3.8	Revised to be consistent with other DCD chapters and sections.
97.	T10.3-2, new	Added in response to RAI 10.3-4 S01.
98.	F10.3-1 and 10.3-2	Figures revised for clarification.
99.	S10.4.1.1.1	Edited for clarity.
100.	S10.4.1.1.2, 3 rd bullet	Edited to correct equipment or system description.
101.	S10.4.1.1.2, 5 th bullet	Edited to allow flexibility and clarification in details.
102.	S10.4.1.2.1, 1 st para	Removed sentence to eliminate confusion.

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103.	S10.4.1.2.3, 5 th para	Edited to correct equipment or system description.
104.	S10.4.1.2.3, 7 th para	Removed information for clarity.
105.	S10.4.1.3, 4 th para	Edited to allow flexibility and clarification in site-specific details.
106.	S10.4.1.3, 6 th para	Edited for clarity.
107.	S10.4.1.5.1	Edited to correct equipment or system description and provide more clarification.
108.	S10.4.1.5.2	Edited to correct equipment or system description.
109.	S10.4.1.5.3	Edited to allow flexibility in site-specific details.
110.	S10.4.1.5.4, new 3 rd para	Additional information provided to incorporate design details.
111.	S10.4.2, multiple locations	Changed “condenser air removal system” to “MCES” to correct equipment or system description.
112.	S10.4.2.1.1	Edited for clarity.
113.	S10.4.2.1.2, new 2 nd bullet	Additional information provided to clarify meaning or intent.
114.	S10.4.2.1.2, 3 rd bullet	Edited to correct equipment or system description.
115.	S10.4.2.2, 1 st 2 nd , 3 rd para.	Edited to clarify MCES system and components.
116.	S10.4.2.3, 3 rd & 4 th para	Edited to correct equipment or system description.
117.	S10.4.2.4	Edited to clarify MCES system and components.
118.	S10.4.3.1.2, 2 nd bullet	Edited to correct equipment or system description.
119.	S10.4.3.3, new 2 nd para	Additional information provided to incorporate design details and provide conformance with Regulatory Guide 1.206.
120.	S10.4.3.5.1.3	Edited for clarity.
121.	S10.4.3.5.2	Edited to correct equipment or system description.
122.	S10.4.4	Additional information and editing provided to incorporate design details.
123.	S10.4.4.1.2, 2 nd bullet	Additional information provided to incorporate design details and to be consistent with the other DCD chapters and sections.

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124.	S10.4.4.1.2, 3 rd bullet	Additional information provided for clarity.
125.	S10.4.4.2.1, 1 st and 3 rd para	Additional information provided for clarity.
126.	S10.4.4.2.1, 2 nd para	Additional information provided for clarity.
127.	S10.4.4.2.2	Edited for clarity.
128.	S10.4.4.2.3, 2 nd and 4 th para	Additional information provided to incorporate design details.
129.	S10.4.4.4	Edited for clarity.
130.	S10.4.4.5, 2 nd para	Additional information provided for clarity.
131.	S10.4.5.1.2, old 3 rd bullet	Removed bullet and incorporated into bullet below.
132.	S10.4.5.2.1	Edited to provide clarity and allow flexibility in site-specific details.
133.	S10.4.5.2.3	Additional information provided to allow flexibility in site-specific details.
134.	S10.4.5.3	Edited for clarity.
135.	S10.4.5.5, 4 th para	Additional information provided to correct equipment or system description.
136.	S10.4.5.7, title	Edited for clarity.
137.	S10.4.5.7	Additional information provided to avoid confusion with standard plant design and conceptual design information (CDI).
138.	S10.4.5.8, 2nd para	Additional information provided to avoid confusion with standard plant design and conceptual design information (CDI).
139.	S10.4.6	Edited for clarity.
140.	S10.4.6.2.3, 3 rd para	Additional information provided for clarity.
141.	S10.4.6.2.3, 1 st and 3 rd bullet	Removed information for clarity.
142.	S10.4.6.2.3, new 2 nd bullet	Edited for clarity.
143.	S10.4.6.2.3, new 4 th bullet	Additional information provided to clarify instructions on the bypass.
144.	S10.4.6.2.3, 5 th para	Edited for clarity.

Item	Location	Description of Change
145.	S10.4.6.3, 3 rd para	Additional information provided to reference the COL.
146.	S10.4.7.1.2, 4 th , 5 th , 8 th , and 12 th bullet	Edited for clarity.
147.	S10.4.7.1.2, new 6 th bullet	Additional information provided to correct equipment or system description.
148.	S10.4.7.2.1, 2 nd para	Edited to correct equipment or system description.
149.	S10.4.7.2.1, 6 th and 7 th para	Edited for clarity.
150.	S10.4.7.2.2.1, 1 st para	Additional information provided for clarity.
151.	S10.4.7.2.2.2	Edited for clarity.
152.	S10.4.7.2.2.3, 2 nd and 3 rd para	Additional information provided for clarity and to correct equipment or system description.
153.	S10.4.7.2.3, 3 rd para	Additional information and editing provided for clarity.
154.	S10.4.7.2.3, 4 th para	Edited to be consistent with other DCD chapters and sections.
155.	S10.4.7.3, 4 th para and new 5 th para	Revised to make the section equal in detail to other DCD chapters and sections. While the statement is true, it provides unnecessary design detail, which exceeds the level of detail provided for similar equipment.
156.	S10.4.7.4.2, 2 nd para	Additional information provided to conform to Regulatory Guide 1.206.
157.	S10.4.7.5, 3 rd para	Edited for clarity.
158.	S10.4.10, new item	Additional information provided for the design requirements that will be the responsibility of the COL holder (licensee).
159.	T10.4-1	Edited to incorporate design details.
160.	T10.4-1, 1 st footnote	Removed to avoid confusion.
161.	T10.4-3	Edited to avoid confusion with standard plant design and conceptual design information (CDI).
162.	T10.4-4, footnote	Removed for clarity.
163.	T10.4-5, footnote	Removed for clarity.
164.	T10.4-6, last row	Additional information provided to incorporate design details.

Item	Location	Description of Change
165.	F10.4-1	Replaced wording “Reference Design” to “Conceptual Design.”
166.	S10A, removed	Section removed in its entirety to focus the ESBWR standard plant design certification and licensing effort on the standard design in this chapter.