

Tier 2 Chapter 11 Revision 2 to Revision 3 Change List

Item	Location	Description of Change
1.	Abbreviations and Acronym list	Edited list to encompass used chapter acronyms
2.	Abbreviations and Acronym list, sect NE-DCIS	Removed “E” from NE-DCIS and also replaced “Non-Essential” with “Nonsafety-Related”
3.	S11.01.01, 1 st para, 2 nd sent	Added for clarity
4.	S11.01.01, 1 st para, 3 rd sent	Editorial change
5.	S11.01.01, 2 nd para. 5 th sent.	Change “11.1-2” to “11.1-2a” to make consistent with other tables. Also added “principle” for clarity.
6.	S11.01.01, 4 th para, 1 st sent	Editorial change removing info that was not needed
7.	S11.01.01, 4 th para. 6 th sent.	Change “11.1-4” to “11.1-4a” to make consistent with other tables.
8.	S11.01.01, 5 th para. 2 nd sent.	Change “11.1-4” to “11.1-4a” to make consistent with other tables.
9.	S11.01.01, 6 th para. 7 th and 9 th sent.	Change “11.1-5” to “11.1-5a” to make consistent with other tables. Also removed “same” for clarity.
10.	S11.01.02, 3 rd para, 4 th and 6 th sent	Change “11.1-7” to “11.1-7a” to make consistent with other tables.
11.	S11.01.02, 5 th para, 6 th sent	Editorial change to more accurately describe power
12.	S11.01.05, new 4 th para	Additional details provided to reference RAI 12.3-12
13.	S11.01.06, 1 st ref	Added “Source”
14.	T11.01-02, title	Customer comment to change “11.1-2” to “11.1-2a” to make consistent with other tables.
15.	T11.01-04, title	Change “11.1-4” to “11.1-4a” to make consistent with other tables.
16.	T11.01-05, title	Change “11.1-5” to “11.1-5a” to make consistent with other tables.
17.	T11.01-07, title	Change “11.1-7” to “11.1-7a” to make consistent with other tables.
18.	S11.02, 3 rd para. 5 th sent.	Editorial change of sentence structure.
19.	S11.02, 6 th para.	Include reference to Regulatory Guide 1.143.
20.	S11.02.01, 1 st bullet	Editorial changes to clarify. Add reference to 10 CFR 20 and reference to 10 CFR 50.

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21.	S11.02.01, 3 rd bullet, 2 nd sent.	Add reference to 10 CFR 20 and reference to 10 CFR 50.
22.	S11.02.01, 4 th bullet	Add reference to General Design Criterion 60 and reference to Regulatory Guide 1.143. Also comment about why element dispersion analysis is not performed because of conformance to RG 1.143, and RG 1.143 provides, “design guidance acceptable to the NRC staff in regard to natural phenomena hazards, internal and external man-induced hazards, and quality group classification and quality assurance provisions for radioactive waste management systems, structures, and components. Further, it describes provisions for mitigating design basis accidents and controlling releases of liquids containing radioactive materials, e.g., spills or tank overflows, from all plant systems outside reactor containment.”
23.	S11.02.01, 5 th bullet	Include reference to Regulatory Guide 8.8.
24.	S11.02.01, 8 th bullet	Include reference to 10 CFR 50 Appendix I.
25.	S11.02.01, 9 th bullet	Include reference to 10 CFR 20.
26.	S11.02.01, new 3 rd para.	Add DG-1145 commitments. Also acronym word written out per Writers Guide standard.
27.	S11.02.01, new 4 th para.	Add DG-1145 commitments.
28.	S11.02.02.02, 3 rd para	Added “typically” for clarity
29.	S11.02.02.02, 9 th para.	Editorial change to more accurately describe post demineralizer crud trap.
30.	S11.02.02.02, 12 th para	Replaced “holdup” with “receiver” due to nomenclature change. Reference added for clarification.
31.	S11.02.02.03, 3 rd para. 2 nd sent.	Editorial change to remove the restriction of reciprocating positive displacement neutralization pumps.
32.	S11.02.02.03, 7 th para, 1 st sent	Added “LWMS” for clarity
33.	S11.02.03, 2 nd para. 3 rd sent.	Include reference to NUREG-0016.
34.	S11.02.03, 2 nd para. 6 th sent.	Include reference to 10 CFR 20.
35.	S11.02.03, 3 rd para, 2 nd sent	Additional info provided for clarity
36.	S11.02.03, 5 th para, 1 st sent.	Added “subsystem”
37.	S11.02.03, 5 th para. 3 rd sent.	Include reference to 10 CFR 20, 10 CFR 50 Appendix I, and 10 CFR 20.
38.	S11.02.06.01	Add DG-1145 commitments.

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39.	S11.02.06.02	Add DG-1145 commitments.
40.	S11.02.07, new 1 st reference	Add reference to Regulatory Guide 1.143.
41.	S11.02.07, new 2 nd reference	Add reference to 10 CFR 20.
42.	S11.02.07, new 3 rd reference	Add reference to 10 CFR 50.
43.	S11.02.07, new 4 th reference	Add reference to 10 CFR 50, Appendix A, GDC 60.
44.	S11.02.07, new 5 th reference	Add reference Regulatory Guide 8.8.
45.	S11.02.07, new 6 th reference	Add reference to 10 CFR 50, Appendix I.
46.	S11.02.07, new 7 th reference	Add reference to DG-1145, 1.11 Radioactive Waste Management.
47.	S11.02.07, new 8 th reference	Add reference to GL 89-01, Process Control Program
48.	S11.02.07, new 9 th reference	Add reference to 10 CFR 20.1406
49.	S11.02.07, new 10 th reference	Add reference to IE Bulletin 80-10
50.	F11.02-01, title	Regulatory Services comment to specify for clarity
51.	F11.02-02	Changed “DCD” to “Subsection” so figure can be used with COLA, and referenced correct Subsection 9.2.4 instead of 9.2.9 for Offsite Discharge.
52.	S11.03.01, 1 st para, 1 st sent	Include reference.
53.	S11.03.01, 3 rd para.	Editorial comment to change “evacuation” to “air removal.”
54.	S11.03.01, 5 th para	Additional info provided for clarity. Included reference.
55.	S11.03.01, 7 th para, 4 th and 5 th sent	Clarified
56.	S11.03.01, new 8 th para	Additional info provided for clarity.
57.	S11.03.01, 9 th para, 3 rd sent	Clarified
58.	S11.03.01, 10 th para, 1 st sent.	Editorial changes for clarity. Also included reference.
59.	S11.03.01, 11 th para, 1 st sent.	Include reference
60.	S11.03.01, 12 th para, 1 st sent.	Include references

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61.	S11.03.01, new 15 th para.	Add DG-1145 commitments.
62.	S11.03.01, new 16 th para.	Add DG-1145 commitments.
63.	S11.03.02, 10 th para, 2 nd sent	Edited for clarity.
64.	S11.03.02, 11 th para. 1 st sent and 2 nd para.	Include reference
65.	S11.03.02.01, 3 rd para, 3 rd sent	Info removed as it did not add any additional info
66.	S11.03.02.01, new 7 th para	Added for clarity
67.	S11.03.02.01, 8 th para, 1 st sent	Editorial comment from customer replaced “arbitrary” with “general” adsorption coefficient Karb values for Kr and Xe.
68.	S11.03.02.01, 12 th para, 3 rd sent	Removed “mechanical” for clarity
69.	S11.03.02.01, 17 th para, 1 st sent	Removed “all” for clarity
70.	S11.03.02.01, 18 th para, 1 st sent	Removed “any” for clarity
71.	S11.03.02.01, 19 th para, 2 nd bullet	Added for clarity
72.	S11.03.02.01, 20 th para, 4 th sent	Removed “completely” for clarity
73.	S11.03.02.02, 3 rd para, 1 st sent	Include reference
74.	S11.03.02.02, 14 th para	Additional info added for clarity
75.	S11.03.05, 1 st sent.	“safety” with “safety-related.”
76.	S11.03.07.01, 1 st sent.	Include reference
77.	S11.03.07.01, 2 nd para. 1 st sent.	Include reference. Also removed “both” for clarity.
78.	S11.03.07.01, 2 nd para, 6 th	Edited for clarity
79.	S11.03.07.01, 3 rd para. 2 nd sent.	Include reference

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80.	S11.03.07.01, 4 th para. 2 nd bullet, 2 nd sent	Include reference
81.	S11.03.07.02, 2 nd para.	Include reference
82.	S11.03.08.01	Removed because it provided no new information.
83.	S11.03.09, reference 1	Editorial correction, changed “Code of Federal Reg.” to “Title 10 Code of Fed Reg. Part 50”
84.	S11.03.09, reference 2	Editorial correction, changed “Code of Federal Reg.” to “Title 10 Code of Fed Reg. Part 20”
85.	S11.03.09, new reference 12	Add reference to DG-1145, 1.11 Radioactive Waste Management.
86.	S11.03.09, new reference 13	Add reference to IE Bulletin 80-10.
87.	S11.03.09, new reference 14	Add reference to Regulatory Guide 8.8
88.	S11.03.09, new reference 15	Add reference to General Design Criterion (GDC) 60
89.	S11.03.09, new reference 16	Add reference to General Design Criterion (GDC) 64
90.	S11.03.09, new reference 17	Add reference to 10 CFR 20.1406
91.	S11.03.09, new reference 18	Add reference to Standard Review Plan (SRP) 11.3
92.	S11.03.09, new reference 19	Add reference to 10 CFR 50
93.	S11.03.09, new reference 20	Add reference to 10 CFR 50.34a
94.	T11.03-02	Edited for clarification.
95.	T11.03-02, footnote	Footnote removed because it provided no new information.
96.	T11.03-03, 9 th row	Edited for clarification
97.	F11.03-01	Figure changed for clarity
98.	S11.04.01, 2 nd para, 1 st bullet	Editorial change replaced “requirements” with “guidance.” Also included reference
99.	S11.04.01, 2 nd para. 2 nd bullet	Include reference
100.	S11.04.01, 2 nd para. 4 th bullet	Include reference
101.	S11.04.01, 2 nd para. 5 th bullet, 1 st and 2 nd sent.	Include references. Also editorial change to reference the correct sections of 49 CFR Subchapter C – Hazardous Materials Regulations.

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102.	S11.04.01, 2 nd para. 7 th bullet, 2 nd sent.	Include reference
103.	S11.04.01, 2 nd para. 7 th bullet, new 5 th sent	Include COLA items in subsection body.
104.	S11.04.01, 4 th para. 1 st and 2 nd sent	Include references
105.	S11.04.01, 5 th para. 1 st and 2 nd sent.	Include references
106.	S11.04.01, 5 th para. 2 nd and 3 rd sent.	Editorial removal of mobile system Part 20.1406 information with the inclusion of the Customer COLA group addition of 11.4.6-7 here.
107.	S11.04.01, 5 th para, new 2 nd , 3 rd and 4 th sent.	Include COLA items in subsection body.
108.	S11.04.01, 7 th para	Include references
109.	S11.04.02.02, new 1 st para.	COL Information Item 11.4.6.6 in the body of the DCD Section 11.4. Also included references.
110.	S11.04.02.02, 2 nd para.	Removed per NRC COLA meeting
111.	S11.04.02.02, new 3 rd para.	Include COL Information Item 11.4.6.13 in the body of the DCD Section 11.4. Also included references
112.	S11.04.02.02, 4 th para.	CAR 41942 Action 9 corrective action to replace “safety” with “safety-related.” Editorial change replaced “requirements” with “guidance.” Also included reference.
113.	S11.04.02.02, 4 th para. 3 rd , 4 th , and 5 th sent.	Include references
114.	S11.04.02.02, new 25 th and 26 th para.	Mixed Waste Processing was added per RAI 11.4-16.
115.	S11.04.02.03, 2 nd , 3 rd , and 4 th para.	Editorial change generalized the type of SWMS pump.
116.	S11.04.02.03, 9 th para, 3 rd sent	Added “manual” for clarity
117.	S11.04.02.03, new 12 th para.	Add a description of why the subjects in Subsection 11.4.6 are included.
118.	S11.04.02.03, 12 th para. 12 th sent.	Editorial change to properly format reference. Also included references
119.	S11.04.02.03, 12 th para. 13 th and 14 th sent.	Include reference

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120.	S11.04.02.03, 12 th para. 14 th sent	Editorial change per NRC COLA meeting
121.	S11.04.03, 2 nd para.	Include reference
122.	S11.04.04, 2 nd sent.	Include reference
123.	S11.04.05, 5 th sent.	Include reference
124.	S11.04.06, new 1 st para.	Add a description of why the subjects in Subsection 11.4.6 are included.
125.	S11.04.06, new numbering	Numbered COLA activities after separating paragraphs into individual COLA activities. No new COLA Actions or activities were added.
126.	S11.04.06.01	Removed because it provided no new information.
127.	S11.04.06.01	Include references
128.	S11.04.06.02	Removed because it provided no new information.
129.	S11.04.06.03	Editorial change per NRC meeting
130.	S11.04.06.04	Include reference
131.	S11.04.06.05	Include reference
132.	S11.04.06.06	Include reference
133.	S11.04.06.07	Include reference
134.	S11.04.06.08	Reworded “It is assumed the COL Holder will compact waste using a third party service. The Table 11.4-2 waste volume reduction will be considered and determined by the COL holder depending on the type and level of waste and the waste compacting equipment and resulting compaction performance.” to “Should a COL holder compact waste using a third party service, the Table 11.4-2 waste volume reduction will be considered depending on the type and level of waste and the waste compacting equipment and resulting compaction performance.”
135.	S11.04.06.09	Include reference
136.	S11.04.06.10	Editorial change to replace “requirements” with “guidance”. Also included reference
137.	S11.04.06.11	Include reference
138.	S11.04.06.12	Include reference
139.	S11.04.07, reference 1	Include reference

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140.	S11.04.07, new 2 nd reference	Added reference to DG-1145, 1.11 Radioactive Waste Management.
141.	S11.04.07, reference 3	Editorial change to add Regulatory Guide 1.143 title.
142.	S11.04.07, reference 4	Editorial change to add Regulatory Guide 8.8 title.
143.	S11.04.07, reference 5	Editorial change to add Regulatory Guide 8.10 title.
144.	S11.04.07, new reference 21	Reference added
145.	S11.04.07, new reference 22	Reference added
146.	S11.04.07, new reference 23	Reference added
147.	S11.04.07, new reference 24	Reference added
148.	S11.04.07, new reference 25	Reference added
149.	T11.04-02, Row 10	The previously presented 8 cu. m. was based on 90 days, not annually.
150.	T11.04-02, new 16 th row	Mixed Waste Processing was added per RAI 11.4-16.
151.	T11.04-02, footnotes	Editorial update for clarity
152.	F11.04-01, title	Clarified
153.	S11.05.01.01.01, 2 nd para. 1 st sent.	Per Corrective Action Request 41942 Action 9 corrective action, replaced “safety” with “safety-related.”
154.	S11.05.02, 1 st thru 8 th bullet	Include references
155.	S11.05.02, 8 th bullet	Corrected “ANSI N42.18” to “ANSI/IEEE N42.18.”
156.	S11.05.02, 3 rd para	Include reference
157.	S11.05.02.01, 2 nd , 3 rd , 6 th , and 12 th bullet	“safety” with “safety-related”
158.	S11.05.02.01, 10 th bullet	Changes provided in response to RAI’s 11.5-30 and 11.5-36
159.	S11.05.02.01, 11 th bullet	Include reference. Also additional details provided in response to RAI’s 11.5-30 and 11.5-36
160.	S11.05.02.02, 6 th bullet	Additional details provided in response to RAI’s 11.5-30 and 11.5-36
161.	S11.05.02.02, 7 th bullet	Changes provided in response to RAI’s 11.5-30 and 11.5-36
162.	S11.05.03.01, 1 st and 2 nd para	Additional details provided in response to RAI 11.5-36

Item	Location	Description of Change
163.	S11.05.03.01.01, 4 th , 7 th , and 8 th para	Additional details provided in response to RAI 11.5-32
164.	S11.05.03.01.02, 2 nd sent	Removed due to RAI 11.5-32
165.	S11.05.03.01.02, 2 nd thru 8 th para	Additional details provided in response to RAI 11.5-32
166.	S11.05.03.01.02, 9 th para	Removed due to RAI 11.5-32
167.	S11.05.03.01.03, 3 rd thru 7 th para	Additional details provided in response to RAI 11.5-32
168.	S11.05.03.01.03, 9 th para	Removed due to RAI 11.5-32
169.	S11.05.03.01.03, 10 th para	Include reference
170.	S11.05.03.01.05, 3 rd sent	Removed due to RAI 11.5-32
171.	S11.05.03.01.05, 4 th thru 9 th para	Additional details provided in response to RAI 11.5-32
172.	S11.05.03.01.05, 10 th para	Include reference
173.	S11.05.03.01.06, 3 rd sent	Removed due to RAI 11.5-32
174.	S11.05.03.01.06, 2 nd thru 7 th para	Additional details provided in response to RAI 11.5-32
175.	S11.05.03.01.06, 8 th para	Removed due to RAI 11.5-32
176.	S11.05.03.01.07, 1 st para, 2 nd sent	Removed due to RAI 11.5-32
177.	S11.05.03.01.07, 2 nd thru 7 th para	Additional details provided in response to RAI 11.5-32
178.	S11.05.03.01.07, 8 th para	Removed due to RAI 11.5-32
179.	S11.05.03.01.08, 2 nd para	Removed due to RAI 11.5-32
180.	S11.05.03.01.08, 4 th thru 9 th para	Additional details provided in response to RAI 11.5-32
181.	S11.05.03.02, 1 st para	Additional details provided in response to RAI 11.5-36
182.	S11.05.03.02, new 2 nd para	Additional details provided in response to RAI 11.5-36
183.	S11.05.03.02.01, 2 nd para, 1 st sent	Additional details provided in response to RAI 11.5-32

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184.	S11.05.03.02.01, 4 th para, 1 st sent	Edited for continuity with chapter 10
185.	S11.05.03.02.01, 4 th para. 3 rd sent.	“safety” with “safety-related,” and “nonsafety” with “nonsafety-related.”
186.	S11.05.03.02.02, 2 nd sent	Added for clarity
187.	S11.05.03.02.03, 1 st para. 5 th sent.	Corrected “ANSI 13.1” to “ANSI/HPS N13.1.” Also Regulatory Services comment to include reference.
188.	S11.05.03.02.03, 4 th para, 2 nd sent	Include references
189.	S11.05.03.02.05, 2 nd para. 2 nd sent.	Corrected “ANSI 13.1” to “ANSI/HPS N13.1.” Also included reference.
190.	S11.05.03.02.05, 8 th para.	Include references
191.	S11.05.03.02.06, 5 th para, 2 nd sent	Include reference
192.	S11.05.03.02.07, 1 st para, 2 nd sent	Include reference
193.	S11.05.03.02.08, 2 nd para. 2 nd sent.	Corrected “ANSI 13.1” to “ANSI/HPS N13.1”
194.	S11.05.03.02.08, 7 th para. 3 rd sent.	Include reference
195.	S11.05.03.02.12, 1 st sent	Additional details provided in response to RAI 11.5-33
196.	S11.05.03.02.12, 2 nd sent	Include reference
197.	S11.05.03.02.13, 3 rd para	Include reference
198.	S11.05.03.02.14, 1 st , 2 nd , and 8th para	Include references
199.	S11.05.03.02.14, 5 th para. 2 nd sent.	Corrected “ANSI 13.1” to “ANSI/HPS N13.1”
200.	S11.05.03.02.15, 2 nd para. 2 nd sent.	Corrected “ANSI 13.1” to “ANSI/HPS N13.1” Also include reference
201.	S11.05.03.02.15, 7 th para.	Include reference
202.	S11.05.04.01, 1 st sent	Additional details added in response to RAI 11.5-35. Also included references.

Item	Location	Description of Change
203.	S11.05.04.03, new 3 rd sent	Additional details added in response to RAI 11.5-35
204.	S11.05.04.04, 1 st sent	Editorial changes in response to RAI 11.5-35
205.	S11.05.04.05, new sect.	Included COL Information Item 11.5.7.2 in the body of the DCD Section 11.5.
206.	S11.05.04.06, new sect.	Included COL Information Item 11.5.7.3 in the body of the DCD Section 11.5. Also included reference.
207.	S11.05.04.07, new sect.	Included COL Information Item 11.5.7.4 in the body of the DCD Section 11.5. Also included reference.
208.	S11.05.04.08, new sect.	Included COL Information Item 11.5.7.5 in the body of the DCD Section 11.5.
209.	S11.05.05.05, 1 st para	Include reference
210.	S11.05.05.09, new section	Additional info added per RAI 7.5-1, 7.5-2, and 9.3-2
211.	S11.05.07.03	Include references
212.	S11.05.07.04	Include reference
213.	S11.05.08, reference lines 1 thru 8	Editorial reference corrections
214.	S11.05.08, reference 13	Corrected “ANSI N13.1” to “ANSI/HPS N13.1”
215.	S11.05.08, new references 16 - 21	Include reference
216.	T11.05-01, 6 th and 7 th row	Edited details in response to RAI 11.5-31
217.	T11.05-02, Row 1 of sect A and Row 1 of sect B	Moved to section B as Main Steamline Monitors are not safety-related.
218.	T11.05-05, footnote #4	Changed reference from DCD subsection 9.2.9.5 (that was deleted in revision 2) to the correct subsection 9.2.4.
219.	F11.05-02, new figure	Additional details provided in response to RAI 11.5-36