

## Tier 2 Chapter 11 Revision 4 to Revision 5 Change List

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 or used acronyms where appropriate.
2.	S11.1.1, 4 <sup>th</sup> para	Removed sentence regarding I-131 as it was not useful, in response to RAI 11.1-5 S01, MFN 08-007 S01.
3.	S11.1.2, 5 <sup>th</sup> para	Edited paragraph in response to RAI 12.2-9 S02, MFN 08-019.
4.	T11.1-1	Deleted old 6 <sup>th</sup> row regarding I-131 concentration scale factor in response to RAI 11.1-5 S01, MFN 08-007 S01.
5.	T11.1-1	Deleted old 8 <sup>th</sup> row regarding Argon <sup>41</sup> release rate, and edited 7 <sup>th</sup> row in response to RAI 12.2-9 S02 item c-n, MFN 08-019.
6.	T11.1-3	Revised rows by adding English units.
7.	S11.2.1, 2 <sup>nd</sup> para, 1 <sup>st</sup> bullet	Added, "...and 10 CFR 52.47" to reflect regulation change.
8.	S11.2.1, 2 <sup>nd</sup> para, 3 <sup>rd</sup> bullet	Added, "...10 CFR 50.34a and 10 CFR 52.47" to reflect regulation change.
9.	S11.2.1, 2 <sup>nd</sup> para, new 10 <sup>th</sup> bullet	Added bullet to reflect operational flexibility and consistency with LWMS design.
10.	S11.2.2.2	Added, "...via the radwaste ventilation system described in Section 9.4" in response to RAI 11.2-24, MFN 08-145.
11.	S11.2.2.2.1, 1 <sup>st</sup> para	Replaced "Deep-bed" with "Mixed-bed" in response to RAI 11.2-16 S01, MFNs 08-145 and 08-145 S01.
12.	S11.2.2.2.1, 1 <sup>st</sup> para	Changed, "plumbing" to "piping" to reflect design.
13.	S11.2.2.2.1, 1 <sup>st</sup> para	Edited sentence and added, "Additional collection capacity is provided by cross connection to the floor drain collection tanks" in response to RAI 11.2-25, MFN 08-145.
14.	S11.2.2.2.1, 1 <sup>st</sup> para	Replaced "mobile system" with "Processing Subsystem" in response to RAI 11.2-16, MFN 07-608.
15.	S11.2.2.2.1, 2 <sup>nd</sup> para	Removed "any" since strainers or filters are not 100% efficient.
16.	S11.2.2.2.1, 4 <sup>th</sup> para	Added, "...the Wet Solid Waste Collection Subsystem" to reflect process subsystems.

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17.	S11.2.2.2.1, 4 <sup>th</sup> para	Replaced “deep-bed” with “mixed-bed” in response to RAI 11.2-16 S01, MFNs 08-145 and 08-145 S01.
18.	S11.2.2.2.1, new 5 <sup>th</sup> para	Added, “Reverse osmosis units create a brine waste stream with a nominal value of 3 gpm based on current industry experience, which is discharged to the concentrated waste tank” in response to RAI 11.2-22, MFN 08-145.
19.	S11.2.2.2.2, 1 <sup>st</sup> para	Added additional inputs to the high conductivity flow drain system.
20.	S11.2.2.2.2, 2 <sup>nd</sup> para	Replaced “Deep-bed” with “Mixed-bed” in response to RAI 11.2-16 S01, MFNs 08-145 and 08-145 S01.
21.	S11.2.2.2.2, 2 <sup>nd</sup> para	Changed, “plumbing” to “piping” to reflect design.
22.	S11.2.2.2.2, 2 <sup>nd</sup> para	Removed mobile reference in response to RAI 11.2-16, MFN 07-608.
23.	S11.2.2.2.2, 3 <sup>rd</sup> para	Edited sentence for clarification regarding the collection tanks in response to RAI 11.2-25, MFN 08-145.
24.	S11.2.2.2.2, 6 <sup>th</sup> and 7 <sup>th</sup> para	Replaced “deep-bed” with “mixed-bed” in response to RAI 11.2-16 S01, MFNs 08-145 and 08-145 S01.
25.	S11.2.2.2.2, new 8 <sup>th</sup> para	Added, “Reverse osmosis units create a brine waste stream with a nominal value of 3 gpm based on current industry experience, which is discharged to the concentrated waste tank” in response to RAI 11.2-22, MFN 08-145.
26.	S11.2.2.2.4	Removed mobile reference in response to RAI 11.2-16, MFN 07-608.
27.	S11.2.2.2.4	Changed, “plumbing” to “piping” to reflect design.
28.	S11.2.2.3	Replaced “Mobile System” with “Processing Subsystem” in response to RAI 11.2-16, MFN 07-608.
29.	S11.2.2.3.1, new 2 <sup>nd</sup> para	Added, “Pump codes are per the noted requirements of Table 3.2-1 for K10 Liquid Waste Management Systems” in response to RAI 11.2-17, MFN 08-145.
30.	S11.2.2.3.1, old 2 <sup>nd</sup> para	Removed paragraph to be consistent with Figures.
31.	S11.2.2.3.2, 1 <sup>st</sup> para	Edited to describe where the tanks are vented, in response to RAI 11.2-16, MFN 07-608.
32.	S11.2.2.3.2, 2 <sup>nd</sup> para and new 3 <sup>rd</sup> para	Additional information added regarding radwaste ventilation system and how it corresponds with other chapters, in response to RAI 11.2-24, MFN 08-145.

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33.	S11.2.2.3.3, 1 <sup>st</sup> para and title	Replaced “Mobile” in title with “Processing” and “mobile/portable” with “processing systems” in paragraph, in response to RAI 11.2-16, MFN 07-608.
34.	S11.2.2.3.3, 2 <sup>nd</sup> para	Removed text to reflect the removal of the conceptual design information.
35.	S11.2.2.3.3, 2 <sup>nd</sup> para	Replaced “mobile/portable” with “processing systems” in response to RAI 11.2-16, MFN 07-608.
36.	S11.2.2.3.3, 3 <sup>rd</sup> and 4 <sup>th</sup> para	Edited for clarification and replaced “mobile” with “processing” in response RAI 11.2-16, MFN 07-608.
37.	S11.2.2.3.4, 1 <sup>st</sup> para and title	Replaced “deep-bed” with “mixed-bed” in response to RAI 11.2-16 S01, MFNs 08-145 and 08-145 S01.
38.	S11.2.2.3.4, 1 <sup>st</sup> para and title and 3 <sup>rd</sup> para	Edited for clarification and replaced “mobile” with “processing” in response RAI 11.2-16, MFN 07-608.
39.	S11.2.2.3.4, 1 <sup>st</sup> para	Added, “...as necessary...or sent directly to a High Integrity Container (HIC)” to clarify that waste can be packaged directly when appropriate.
40.	S11.2.2.3.4, 2 <sup>nd</sup> para	Detailed description added for equipment drain subsystem capability.
41.	S11.2.2.3.5, 1 <sup>st</sup> para and title	Replaced “deep-bed” with “mixed-bed” in response to RAI 11.2-16 S01, MFNs 08-145 and 08-145 S01.
42.	S11.2.2.3.5, 1 <sup>st</sup> para	Detailed description added for equipment drain subsystem particle removal capability.
43.	S11.2.2.3.5, 2 <sup>nd</sup> para	Removed text to keep terminology consistent.
44.	S11.2.2.3.5, 1 <sup>st</sup> , 2 <sup>nd</sup> , 3 <sup>rd</sup> para and title	Replaced “mobile” with “processing” in response RAI 11.2-16, MFN 07-608.
45.	S11.2.2.3.6, para and title	Replaced “mobile” with “processing” in response RAI 11.2-16, MFN 07-608.
46.	S11.2.3.2, 1 <sup>st</sup> para	Added, “...RO membrane...” to reflect that radioactivity is removed by RO resin as well.
47.	S11.2.3.2, 1 <sup>st</sup> para	Added “...and Table 12.2-19a...” in response to RAI 11.2-26 and RAI 11.2-27, MFNs 08-145 and 08-145 S01.
48.	S11.2.3.2, 1 <sup>st</sup> para	Added, “Liquid samples are collected using the processing sampling system described in Subsection 9.3.2.” in response to RAI 11.2-31, MFN 08-145.

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49.	S11.2.3.2, 1 <sup>st</sup> para	Added "...Appendix B..." to reference for Part 20 regulation.
50.	S11.2.3.2, 3 <sup>rd</sup> para	Added, "...to meet the requirements of 10 CFR 20 Appendix B and 10 CFR 50 Appendix I (References 11.2-2 and 11.2-6)" to cite proper regulatory requirement for meeting effluent limits.
51.	S11.2.4, 2 <sup>nd</sup> para	Replaced "mobile" with "processing" in response to RAI 11.2-16, MFN 07-608.
52.	S11.2.4, 2 <sup>nd</sup> and 3 <sup>rd</sup> para	Edited to clarify that leak integrity test is performed on the system upon completion and that process display devices are provided.
53.	S11.2.4, new 4 <sup>th</sup> para	Additional information regarding testing demineralizer loading, provided in response to RAI 11.2-16 S02, MFN 08-145 S01.
54.	S11.2.4, new 5 <sup>th</sup> para	Added, "Replacement filters, charcoal, and resins will be purchased to meet performance standards which support overall system decontamination factors listed in Table 11.2-3" to table requirements when purchasing removal media or filters.
55.	S11.2.5, 1 <sup>st</sup> para	Changed "...Subsection 11.5.3.2.6..." to "...Subsection 11.5.3.2.5..." in response to RAI 11.2-28, MFN 08-145.
56.	S11.2.6	Replaced "mobile/portable" with "processing systems" in response to RAI 11.2-16, MFN 07-608.
57.	S11.2.6, COL item 11.2-2-A	Removed text to reflect the removal of the conceptual design information.
58.	S11.2.7, 2 <sup>nd</sup> reference	Added title to references for consistency.
59.	S11.2.7, 3 <sup>rd</sup> , 9 <sup>th</sup> , and 10 <sup>th</sup> reference	Added new regulation 52.47 and added titles of other guides and regulations.
60.	S11.2.7, 7 <sup>th</sup> reference	Updated reference in response to RAI 11.2-26, MFN 07-608.
61.	T11.2-1, Pressure Vessels and Tanks row	Corrected reference for pressure vessels and tanks in table to "Boiler and Pressure Vessel Code (BPVC)" also changed API numbers.
62.	T11.2-2b	Added, "Minimal" in 4 <sup>th</sup> column title, and removed footnote since the table heading now reflects minimum capacity of the pumps.

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63.	T11.2-2c	Removed “Mobile Systems” references and replaced with “Processing Subsystems” for consistency in response to RAI 11.2-16, MFN 07-608.
64.	T11.2-2c	Added wording “Resin Trap” and “Basket Type” in response to RAI 11.2-24 and 11.2-18, MFN 08-145.
65.	T11.2-2c, new footnote	Added footnote to reflect that actual rates will be dependent on filter loading.
66.	T11.2-3, Ion-Exchanger column	Added “**” to items to reference footnotes and clarify that decontamination factor of 10 applies to second demineralizer in series.
67.	F11.2-1	Removed “Mobile Systems” references and replaced with “Processing Subsystems” in response to RAI 11.2-16, MFN 07-608.
68.	F11.2-1	Legend added in response to RAI 11.2-30, MFN 08-145.
69.	F11.2-1	Added RO unit in response to RAI 11.2-23, MFN 08-145.
70.	F11.2-1a	Removed “Mobile Systems” references and replaced with “Processing Subsystems” in response to RAI 11.2-16, MFN 07-608.
71.	F11.2-1a	Legend added in response to RAI 11.2-30, MFN 08-145.
72.	F11.2-1a	Drain funnels showing destinations to floor and equipment drains added in response to RAI 11.2-20, MFN 08-145.
73.	F11.2-1b	Drain funnels showing destinations to floor and equipment drains added in response to RAI 11.2-20, MFN 08-145.
74.	F11.2-1b	Removed “Mobile Systems” references and replaced with “Processing Subsystems” in response to RAI 11.2-16, MFN 07-608.
75.	F11.2-1b	Legend added in response to RAI 11.2-30, MFN 08-145.
76.	F11.2-3	Removed “Mobile Systems” references and replaced with “Processing Subsystems” in response to RAI 11.2-16, MFN 07-608.
77.	F11.2-3	Drain funnels showing destinations to floor and equipment drains added in response to RAI 11.2-20, MFN 08-145.
78.	F11.2-3	Legend added in response to RAI 11.2-30, MFN 08-145.
79.	F11.2-4	Drain funnels showing destinations to floor and equipment drains added in response to RAI 11.2-20, MFN 08-145.

<b>Item</b>	<b>Location</b>	<b>Description of Change</b>
80.	F11.2-4	Corrected to show correct number of pumps in response to RAI 11.2-29, MFN 08-145.
81.	F11.2-4	Legend added in response to RAI 11.2-30, MFN 08-145.
82.	F11.2-4	Added vent for RAI 11.2-21, MFN 08-145.
83.	S11.3.1, 1 <sup>st</sup> para	Added, "...10 CFR 20, Appendix B Table 2 effluent concentration limits (Reference 11.3-2)..." in response to RAI 11.3-4, MFN 08-145.
84.	S11.3.1, 1 <sup>st</sup> para	Added, "...and 10 CFR 52.47 (Reference 11.3-20)" added to reflect new regulation.
85.	S11.3.1, 4 <sup>th</sup> para	Changed "absorber" to "adsorber".
86.	S11.3.1, 15 <sup>th</sup> para	Edited para and added, "In accordance with IE Bulletin 80-10, May 6 1980, (Reference 11.3-13)..." for clarification and in response to RAI 12.2-9 S02b, MFN 07-450.
87.	S11.3.2.1, new 2 <sup>nd</sup> para	Added, "Samples of the offgas system are collected using the process sample system described in Subsection 9.3.2." in response to RAI 11.3-7, MFN 08-145.
88.	S11.3.2.3, 2 <sup>nd</sup> para	Changed "immediately above" to "adjacent to" to allow flexibility in design plan.
89.	S11.3.2.4, 1 <sup>st</sup> para	Replaced "...plant stack" with "...turbine building exhaust ventilation..." to reflect design modification for 3-stack configuration.
90.	S11.3.2.4, 2 <sup>nd</sup> , 3 <sup>rd</sup> and 4 <sup>th</sup> para	Reflect new 3-stack configuration and this release would be through the turbine building stack.
91.	S11.3.2.5.1	Corrected wording to agree with DCD Section 10.1.
92.	S11.3.2.5.3	Removed "easily", and noted that the gas is further cooled.
93.	S11.3.2.5.4	Reflects that dew point is reduced in the cooler-condenser.
94.	S11.3.2.5.7	Added, "...in order to comply with Bulletin 80-10, May 6, 1980 (Reference 11.3-13)" to reflect that this demonstrates compliance to IEB 80-10. See also, RAI 12.2-9 S02b, MFN 07-450.
95.	S11.3.2.5.9, 3 <sup>rd</sup> para, 2 <sup>nd</sup> bullet	Corrected subsection for detonation-resistance description.
96.	S11.3.2.5.10, 1 <sup>st</sup> para	Added, "Normal offgas flow is through one Guard Bed and eight large charcoal beds" for clarification.
97.	S11.3.2.5.11	Added, "...power operated..." to reflect design.

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98.	S11.3.2.6, new 3 <sup>rd</sup> para	Added, “Tank codes are per the noted requirements of Table 3.2-1 for K30 Offgas System” in response to RAI 11.3-6 , MFNs 08-145 and 08-145 S01.
99.	S11.3.2.6.3, 2 <sup>nd</sup> para	Replaced “...plant vent stack” with “...turbine building exhaust ventilation...” to reflect design modification for 3-stack configuration.
100.	S11.3.2.6.3, 2 <sup>nd</sup> para	Changed “TBHV” to “TBVS” and added, “Charcoal vault air conditioning and ventilation equipment are accessible for maintenance during plant operation” to reflect design changes to HVAC.
101.	S11.3.2.6.9, 1 <sup>st</sup> para	Changed “TBHV” to “TBVS” for consistency.
102.	S11.3.2.6.9, 2 <sup>nd</sup> para	Removed wording “...the exhaust ventilation duct from...” and added “(See Subsection 9.4.4)” to clarify and reference correct subsection for detailed design.
103.	S11.3.2.6.12, 4 <sup>th</sup> para, 5 <sup>th</sup> bullet	Clarified leak tight requirements for valves and lines discharging to environment.
104.	S11.3.2.7	Added, “...RW-IIa” to reflect seismic design category from RG 1.143.
105.	S11.3.5, 2 <sup>nd</sup> para	Added, “...soap bubble testing of instrument and purge lines...” in response to RAI 11.3-5, MFN 08-145.
106.	S11.3.6, new 5 <sup>th</sup> para	Added, “Offgas pre-treatment radiation monitors are described in Subsection 11.5.3.2.1, Offgas post-treatment radiation monitors are described in Subsection 11.5.3.2.2.” in response to RAI 11.3-8, MFN 08-145.
107.	S11.3.7.1, 2 <sup>nd</sup> para	Added, “The normal operation of the OGS shall take place in the treat mode. The treat mode shall provide a valve alignment to send a process flow through one guard bed and all the remaining charcoal adsorbers” in response to RAI 14.3-372, MFN 08-086 S17.
108.	S11.3.7.1, 3 <sup>rd</sup> para	Removed “...vessel exit nozzle” and added “...main condenser air ejector (Reference 11.3-21)” to clarify and reference appropriate regulation.
109.	S11.3.9, 2 <sup>nd</sup> reference	Added title of reference for consistency.
110.	S11.3.9, 4 <sup>th</sup> , 5 <sup>th</sup> , and 12 <sup>th</sup> reference	Removed references in response to RAI 11.3-9, MFN 08-145.
111.	S11.3.9, 13 <sup>th</sup> through 20 <sup>th</sup> reference	Added titles to guidance and regulation references.

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112.	S11.3.9, 20 <sup>th</sup> reference	Added reference to new regulation 10 CFR Part 52.47.
113.	S11.3.9, new 21 <sup>st</sup> reference	Added reference to provide basis for associated text.
114.	T11.3-1, Xenon delay row	Additional information regarding “**” provided in response to RAI 11.3-10, MFNs 08-145 and 08-145 S01.
115.	T11.3-1, new Krypton delay, and Argon delay rows	Information provided in response to RAI 11.3-10 (MFN 08-145 and 08-145S01) was intended to be included in DCD Rev4.
116.	T11.3-1, Xenon delay row, and new Krypton delay, Argon delay, and Iodine removal efficiency rows, and 2 <sup>nd</sup> and new 3 <sup>rd</sup> footnote	Additional information and footnotes provided in response to RAI 12.2-9 S02a, MFN 07-450.
117.	T11.3-1, Chilled water temp and Gaseous waste stream temp rows	Added, “(approximate)” to reflect approximate design temperature could vary.
118.	T11.3-1, 4 <sup>th</sup> new footnote	Added footnote “Minimum 6 scfm refers to leakage plus bleed air” for clarification.
119.	T11.3-4, Dispersion and Dose Data section, rows b and c	Corrected references in response to RAI 11.3-9, MFN 08-145.
120.	T11.3-6, item Xe-133, Ci column	Changed “...+1” to “...+2” in response to RAI 11.3-11, MFN 08-145.
121.	T11.3-6, new footnote	Added new footnote “Only the major isotopic constituents are identified” for consistency with Table 11.3-5 footnote.
122.	T11.3-7, footnote	Added, “* DCD Table 2.0-1” in response to RAI 11.3-12, MFN 08-145.
123.	F11.3-1	Added design details and changed Train A label from “First Stage SJAE” to “Second Stage SJAE” to correct terminology error.
124.	S11.4, 2 <sup>nd</sup> para and bullets and 3 <sup>rd</sup> para	Edited paragraphs and bullets to reflect SWMS Processing Subsystems in lieu of mobile conceptual systems, in response to RAI 11.4-18, MFN 07-608.
125.	S11.4.1, title	Added, “SWMS” for clarification.



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126.	S11.4.1, 1 <sup>st</sup> para, 5 <sup>th</sup> bullet	Changed “Reference 11.4-13” to “Reference 11.4-17” in response to RAI 11.4-30, MFN 08-145.
127.	S11.4.1, 1 <sup>st</sup> para, 5 <sup>th</sup> bullet	Changed reference from “10 CFR 61” to “10 CFR 61.56” to reflect actual regulation citation.
128.	S11.4.1, 1 <sup>st</sup> para, 7 <sup>th</sup> bullet	Changed Reference release date to “March 2007” and removed sentences in response to RAI 11.4-31, MFN 08-145.
129.	S11.4.1, 2 <sup>nd</sup> para	Added, “...and e” to end of first sentence to correctly identify what Chapter 12 tables provide isotopic activity.
130.	S11.4.1, 5 <sup>th</sup> para	Removed, “...and design features for installation an operation of the...and design of the ...” to be consistent with the removal of the conceptual design.
131.	S11.4.1, 5 <sup>th</sup> and 7 <sup>th</sup> para	Replaced “mobile/portable” with “Processing subsystems” and edited for consistency in response to RAI 11.4-18, MFN 07-608.
132.	S11.4.1, 6 <sup>th</sup> para	Changed, “Wet Solid Radioactive Waste Treatment” to “SWMS Collection Subsystem”, “Treatment” to “Accumulation and Conditioning”, and “Packaged Waste Staging” to “Container Storage” to reflect the deletion of Mobile Systems and renamed the SWMS.
133.	S11.4.1, 7 <sup>th</sup> para	Added reference to 10 CFR 52.47 regulation.
134.	S11.4.2.1, 1 <sup>st</sup> para	Added, “...charcoal media...” in response to RAI 11.4-21, MFN 08-145.
135.	S11.4.2.2.1, 1 <sup>st</sup> para and title	Changed, “Wet Solid Waste” to “SWMS” to reflect the deletion of Mobile Systems and renamed the SWMS.
136.	S11.4.2.2.1, 1 <sup>st</sup> para	Added, “...spent charcoal media...” in response to RAI 11.4-21, MFN 08-145.
137.	S11.4.2.2.1, 1 <sup>st</sup> para	Edited Figure references and changed number of tanks from “five” to “six” for consistency with figures.
138.	S11.4.2.2.1, 5 <sup>th</sup> para	Added, “A High Activity Phase Separator and a...(Reference 11.4-27)” also inserted “normally” to reflect actual design as is shown on Figure 11.4-1.
139.	S11.4.2.2.1, 4 <sup>th</sup> , 5 <sup>th</sup> and 7 <sup>th</sup> para	Changed, “wet solid waste” to “SWMS” to reflect the deletion of Mobile Systems and renamed the SWMS. Also removed mobile references to clarify SWMS Collection Subsystem process in response to RAI 11.4-18, MFN 07-608.

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140.	S11.4.2.2.1, 7 <sup>th</sup> para	Removed “mixing/transfer” references and replaced with “concentrated waste” for consistency with figure terminology.
141.	S11.4.2.2.2, 1 <sup>st</sup> para and title	Removed “Mobile” from title, and edited paragraph in response to RAI 11.4-18, MFN 08-145.
142.	S11.4.2.2.2, 1 <sup>st</sup> para	Changed, “Wet Solid Waste” to “SWMS” to reflect the deletion of Mobile Systems and renamed the SWMS.
143.	S11.4.2.2.2, 3 <sup>rd</sup> para	Added, “...dewatering...” in response to RAI 11.4-24, MFN 08-145.
144.	S11.4.2.2.2, 3 <sup>rd</sup> para	Removed, “...resin holdup tank...” and replaced with “phase separator” for consistency with figures.
145.	S11.4.2.2.2, 3 <sup>rd</sup> para	Removed sentences regarding receiving mode and drying of the HIC contents, in response to RAI 11.4-22, MFN 08-145.
146.	S11.4.2.2.2, old 6 <sup>th</sup> through 9 <sup>th</sup> para	Removed paragraphs regarding Mobile Concentrate Treatment System for consistency with figures in response to RAI 11.4-18, MFN 07-608.
147.	S11.4.2.2.3, 2 <sup>nd</sup> para	Added “...a licensed...” in response to RAI 11.4-29, MFNs 08-145 and 08-145 S01.
148.	S11.4.2.2.4	Changed “(200-liter)” to “(208-liter)” to correct unit conversion.
149.	S11.4.2.3.1	Edited order of sentences and added “...and Table 11.2-1” to reflect applicable pump code table requirements and for ease of readability.
150.	S11.4.2.3.2, 1 <sup>st</sup> para	Edited information regarding filtration and ventilation for clarification.
151.	S11.4.2.3.5, 1 <sup>st</sup> and title, and 2 <sup>nd</sup> para	Edited title and paragraph to for consistency and clarification on the SWMS Processing Subsystem, in response to RAI 11.4-18, MFN 07-608.
152.	S11.4.2.3.5, 1 <sup>st</sup> and title, and 2 <sup>nd</sup> para	Replaced “mobile systems” with “Processing subsystems” in response RAI 11.2-16, MFN 07-608.
153.	S11.4.6, 11.4-1-A and 11.4-2-A COL items	Replaced “mobile system” with “SWMS Processing Subsystem” and “mobile/portable” with “Processing subsystems” in response RAI 11.2-16, MFN 07-608.
154.	S11.4.6, 11.4-3-A COL item	Section referenced in response to RAI 11.5-47 S01, MFN 07-686.

<b>Item</b>	<b>Location</b>	<b>Description of Change</b>
155.	S11.4.6, 11.4-4-A COL item	Reference changed to “March 2007” to show update in response to RAI 11.4-31, MFN 08-145.
156.	S11.4.6, 11.4-5-A COL item	Removed, “...and design features for installation an operation of the...and design of the...” to be consistent with the removal of the conceptual design.
157.	S11.4.7, 1 <sup>st</sup> reference	Reference changed to “March 2007” to show update in response to RAI 11.4-31, MFN 08-145.
158.	S11.4.7, 2 <sup>nd</sup> reference	Reference deleted in response to RAI 11.4-32, MFN 08-145.
159.	S11.4.7, 6 <sup>th</sup> through 26 <sup>th</sup> reference	Added titles to guidance and regulation references.
160.	S11.4.7, 23 <sup>rd</sup> reference	Reference deleted in response to RAI 11.4-32, MFN 08-145.
161.	S11.4.7, new 27 <sup>th</sup> reference	Added reference (RG 1.206, Part 1) to support a change in Subsection 11.4.2.2.1, which shows a change from two Low to a High-Low phase separator.
162.	T11.4-1, Process Equipment row	Removed mobile reference in response to RAI 11.4-18, MFN 07-608.
163.	T11.4-1, Dewatering Equipment Fill Head row	Changed quantity from “3” to “1” in response to RAI 11.4-25, MFN 08-145. Then changed to correct to “2” fill heads to reflect design per MFN 08-145 S01.
164.	T11.4-1, Dewatering Pump row	Changed “HIC Return” to “Dewatering” in response to RAI 11.4-24, MFN 08-145.
165.	T11.4-1	Row under “Dewatering Pump” row, regarding Dryer was removed in response to RAI 11.4-22, MFN 08-145.
166.	T11.4-1, footnote	Changed, “total” to “operating”.
167.	T11.4-2, 2 <sup>nd</sup> footnote	Clarified that value is long term average not just a goal.
168.	F11.4-1	Edited mobile references in response to RAI 11.4-18, MFN 07-608.
169.	F11.4-1	Changed “Low Activity Phase Separators” to “Low Activity Sludge Phase Separators” for consistency in response to RAI 11.4-20, MFN 08-145.
170.	F11.4-2, title and Figure	Edited to clarify SWMS Collection Subsystem references in response to RAI 11.4-18, MFN 07-608.
171.	F11.4-2	Added sample points in response to RAI 11.4-19, MFN 08-145.

<b>Item</b>	<b>Location</b>	<b>Description of Change</b>
172.	F11.4-2	Added concentrated waste tank input in response to RAI 11.4-23, MFN 08-145.
173.	F11.4-2	Deleted radiation monitors in response to RAI 11.4-28, MFN 08-145.
174.	F11.4-2	Corrected inconsistencies in the system flow paths, in response to RAI 11.4-26, MFN 08-145.
175.	F11.4-3, title and Figure	Edited to clarify SWMS Collection Subsystem references in response to RAI 11.4-18, MFN 07-608.
176.	F11.4-3	Eliminated thermal drying unit in response to RAI 11.4-22, MFN 08-145.
177.	F11.4-3	Corrected inconsistencies in flow direction of the dewatering pump and system flow paths, in response to RAI 11.4-27.
178.	F11.4-3	Added information regarding fill heads in response to RAI 11.4-25, MFNs 08-145 and 08-145 S01.
179.	F11.4-4, new	Added new Figure for clarification on Dry Active Waste Processing in response to RAI 11.4-29, MFNs 08-145 and 08-145 S01.
180.	S11.5.1.1.1, 1 <sup>st</sup> para	Edited for clarity.
181.	S11.5.1.1.1, 2 <sup>nd</sup> para and bullets	Edited sentence and removed “RMS” from bullets as acronym is not used.
182.	S11.5.1.1.1, 2 <sup>nd</sup> para, old 4 <sup>th</sup> bullet	Removed bullet “Drywell Sump LCW/HCW Discharge RMS” due to design change, which re-classified the Drywell Sumps LCW/HCW discharge RMS as nonsafety-related.
183.	S11.5.1.1.2, 1 <sup>st</sup> para	Edited paragraph to show tense change and isolation before exceeding the predetermined release rates.
184.	S11.5.1.1.2, 2 <sup>nd</sup> para, Bullets and sub-bullets	Removed “RMS” as acronym is not used.
185.	S11.5.1.1.2, 2 <sup>nd</sup> para, 1 <sup>st</sup> bullet, 1 <sup>st</sup> through 3 <sup>rd</sup> sub-bullets	Edited first bullet, and added new 2nd and 3rd bullets to show three-stack vent design change.
186.	S11.5.1.1.2, 2 <sup>nd</sup> para, 4 <sup>th</sup> bullet, 1 <sup>st</sup> through 2 <sup>nd</sup> sub-bullets	Added bullet “Drywell Sump LCW/HCW Discharge RMS” due to design change, which re-classified the Drywell Sumps LCW/HCW discharge RMS as nonsafety-related.
187.	S11.5.2, 1 <sup>st</sup> bullet	Added reference to 10 CFR 52.47 regulation.

<b>Item</b>	<b>Location</b>	<b>Description of Change</b>
188.	S11.5.2, 9 <sup>th</sup> bullet	Changed year “1980” to “2004” in response to RAI 11.5-48, MFN 08-145.
189.	S11.5.2, new 10 <sup>th</sup> bullet	Added “BTP HICB-10 (Reference 11.5-26)” in response to RAI 11.5-49, MFN 08-145.
190.	S11.5.3.1.1	Removed subsection and moved to new Subsection 11.5.3.2.15, in response to RAI 14.3-391, MFN 08-279.
191.	S11.5.3.1.2, title	Removed “RMS” from title as acronym is no longer used.
192.	S11.5.3.1.2, 5 <sup>th</sup> para	Removed “ventilating exhaust” and “exhaust” to be consistent with HVAC system design.
193.	S11.5.3.1.3, title	Removed “RMS” from title as acronym is no longer used.
194.	S11.5.3.1.3, 5 <sup>th</sup> para	Removed “ventilating exhaust” and “exhaust” to be consistent with HVAC system design.
195.	S11.5.3.1.4, title	Removed “RMS” from title as acronym is no longer used.
196.	S11.5.3.1.4, 1 <sup>st</sup> para	Removed last sentence to remove any indication of a system interlock from the Control Building Air Intake Radiation Monitors to the Refuel area exhaust HVAC system. The Refuel area exhaust will continue to isolate on the appropriate high radiation signal from that area. No system design change has been made by this DCD change.
197.	S11.5.3.1.4, 9 <sup>th</sup> para	Edited sentence and added, “...total effective dose equivalent (TEDE)” for consistency with GDC 19. Also removed “RMS” from title, as acronym is no longer used.
198.	S11.5.3.1.5	Removed section due to design change, which re-classified the Drywell Sumps LCW/HCW discharge RMS as nonsafety-related.
199.	S11.5.3.1.6, 1 <sup>st</sup> para	Added, “The isolation condenser pool (Reference Subsection 5.4.6) contains non-radioactive demineralized water supplied from the makeup water system (Reference Subsection 9.2.3)” in response to RAI 11.5-50, MFN 08-145. Also removed “RMS” from title as acronym is no longer used.
200.	S11.5.3.1.7, 1 <sup>st</sup> and 8 <sup>th</sup> para	Changed acronym to reflect update. Also removed “RMS” from title as acronym is no longer used.
201.	S11.5.3.1.7, 4 <sup>th</sup> para	Revised sentence and removed “exhaust” and added “isolation” to be consistent with HVAC system design.

<b>Item</b>	<b>Location</b>	<b>Description of Change</b>
202.	S11.5.3.1.8, 1 <sup>st</sup> and 8 <sup>th</sup> para	Edited first sentence and removed “RMS” from title as acronym is no longer used. Changed the FBVS acronym in last paragraph to reflect update.
203.	S11.5.3.1.8, 4 <sup>th</sup> para	Revised sentence and removed “exhaust” and added “isolation” to be consistent with HVAC system design.
204.	S11.5.3.1.9, title	Removed “RMS” from title as acronym is no longer used.
205.	S11.5.3.2.1, title	Removed “RMS” from title as acronym is no longer used.
206.	S11.5.3.2.2, title	Removed “RMS” from title as acronym is no longer used.
207.	S11.5.3.2.3, 2 <sup>nd</sup> para	Removed “refrigeration” to reflect actual HVAC design. Also removed “RMS” from title as acronym is no longer used.
208.	S11.5.3.2.4, title	Removed “RMS” from title as acronym is no longer used.
209.	S11.5.3.2.5, title	Removed “RMS” from title as acronym is no longer used.
210.	S11.5.3.2.6, title	Removed “RMS” from title as acronym is no longer used.
211.	S11.5.3.2.7, title	Removed “RMS” from title as acronym is no longer used.
212.	S11.5.3.2.8, title	Removed “RMS” from title as acronym is no longer used.
213.	S11.5.3.2.9, title	Removed “RMS” from title as acronym is no longer used.
214.	S11.5.3.2.10, title	Removed “RMS” from title as acronym is no longer used.
215.	S11.5.3.2.11, title	Removed “RMS” from title as acronym is no longer used.
216.	S11.5.3.2.12, title	Removed “RMS” from title as acronym is no longer used.
217.	S11.5.3.2.13, title, new 1 <sup>st</sup> para and bullets	Additional information added to show three-stack vent design change.
218.	S11.5.3.2.13.1, new subsection title	Added new “RB/FB Stack” subsection title to show stack design.
219.	S11.5.3.2.13.1, 1 <sup>st</sup> and 8 <sup>th</sup> para	Changed wording from “Plant Stack” to “RB/FB Stack” to show three-stack vent design change. Also spelled out “RMS” as “Radiation Monitoring Subsystem” in first sentence as acronym is no longer used.
220.	S11.5.3.2.13.2, new subsection	Additional information added to show three-stack vent design change.
221.	S11.5.3.2.13.3, new subsection	Additional information added to show three-stack vent design change.

<b>Item</b>	<b>Location</b>	<b>Description of Change</b>
222.	S11.5.3.2.14, 1 <sup>st</sup> para	Replaced “plant stack” with “RB/FB stack” to show three-stack vent design change. Also edited first sentence and removed “RMS” from title as acronym is no longer used.
223.	S11.5.3.2.14, 2 <sup>nd</sup> and 7 <sup>th</sup> para	Changed “FBVS” acronym to reflect update.
224.	S11.5.3.2.14, 8 <sup>th</sup> para	Spelled out “RMS” as “Radiation Monitoring Subsystem” as acronym is no longer used.
225.	S11.5.3.2.15, new	Moved from old Subsection 11.5.3.1.1, also edited in response to RAI 14.3-391, MFN 08-279.
226.	S11.5.3.2.16, new	Added section due to design change, which re-classified the Drywell Sumps LCW/HCW discharge RMS as nonsafety-related.
227.	S11.5.4.2	Updated reference location.
228.	S11.5.4.4, 1 <sup>st</sup> para	Changes made for clarity and to remove references to “safety-related” with respect to ODCM effluent/discharge monitors.
229.	S11.5.4.4, new 2 <sup>nd</sup> and 3 <sup>rd</sup> para	Additional information added to be consistent with COL item 11.5-2-A wording.
230.	S11.5.4.5, 1 <sup>st</sup> para	Added, “(Reference 11.5-24)” to include reference pointer in response to RAI 11.5-51, MFN 08-145.
231.	S11.5.4.5, 1 <sup>st</sup> para	Added, “(Reference 11.5-25)” to include reference pointer in response to RAI 11.5-47 S01, MFN 07-686.
232.	S11.5.4.5, 1 <sup>st</sup> para	Added, “...develop the setpoint calculation methodology...” for clarification.
233.	S11.5.4.7, Title, 1 <sup>st</sup> para and new 2 <sup>nd</sup> para	Added, “Sensitivity or” to title. Also edited and added new paragraph to clarify system sensitivity and lower limit for detection for process monitors versus effluent/discharge monitors, respectively. This supercedes the DCD change made in response to RAI 11.5-52, MFN 08-145. However, the intent of the change is maintained.
234.	S11.5.4.9	Added, “...sampling and analytical...” to be consistent with COL item 11.5-5-A in Subsection 11.5.7.
235.	S11.5.5.2	Removed “RMS” from bullets, as acronym is not used.
236.	S11.5.5.2, old 4 <sup>th</sup> bullet	Removed bullet “Drywell Sump LCW/HCW Discharge RMS” due to design change, which re-classified the Drywell Sumps LCW/HCW discharge RMS as nonsafety-related.

<b>Item</b>	<b>Location</b>	<b>Description of Change</b>
237.	S11.5.5.3	Removed “RMS” from bullets, as acronym is not used.
238.	S11.5.5.4	Removed “RMS” from bullets, as acronym is not used.
239.	S11.5.5.4, 19 <sup>th</sup> through 21 <sup>st</sup> bullets	Edited 19th bullet, and added new 20th and 21st bullets to show three-stack vent design change.
240.	S11.5.5.6	Updated reference location.
241.	S11.5.5.9, 2 <sup>nd</sup> para	Changed tense for clarity.
242.	S11.5.6.1, 4 <sup>th</sup> para, 9 <sup>th</sup> through 11 <sup>th</sup> bullets	Edited 9th bullet, and added new 10th and 11th bullets to show three-stack vent design change.
243.	S11.5.6.3	Changed tense for clarity.
244.	S11.5.6.4, new subsection	Subsection “IE Bulletin 80-10 Evaluation” added in response to RAI 11.5-5 S02, MFN 06-066 S04.
245.	S11.5.6.5, new subsection	Subsection “Implementation of 10 CFR 20.1406” added in response to RAI 11.5-5 S02, MFN 06-066 S04.
246.	S11.5.7, 11.5-1-A COL item	Added “Sensitivity to” to title. Also edited and added new paragraph to clarify system sensitivity and lower limit for detection so that it is consistent with the COL statement in Subsection 11.5.4.7. This supercedes the DCD change made in response to RAI 11.5-52, MFN 08-145. However, the intent of the change is maintained.
247.	S11.5.7, 11.5-2-A COL item, 2 <sup>nd</sup> and new 4 <sup>th</sup> para	New References and last paragraph added in response to RAI 11.5-47 S01, MFN 07-686.
248.	S11.5.7, 11.5-2-A COL item, 2 <sup>nd</sup> para	Last sentence edited for clarity concerning ODCM and safety-related. Safety-related references removed for clarity and consistency with Subsection 11.5.4.5.
249.	S11.5.7, 11.5-3-A COL item	Added, “HPS” to make consistent with reference. Also added COL Applicant milestone for program implementation in response to RAI 11.5-47 S01, MFN 07-686.
250.	S11.5.7, 11.5-5-A COL item	Added, “...sampling and analytical...” in response to RAI 11.5-47 S01, MFN 07-686.
251.	S11.5.8, 2 <sup>nd</sup> reference	Added reference to 10 CFR 52.47 regulation.
252.	S11.5.8, new 24 <sup>th</sup> and 25 <sup>th</sup> references	New References added in response to RAI 11.5-47 S01, MFN 07-686.
253.	S11.5.8, 26 <sup>th</sup> reference	New Reference added in response to RAI 11.5-49, MFN 08-145.



<b>Item</b>	<b>Location</b>	<b>Description of Change</b>
254.	T11.5-1, Section A	Removed first row regarding MSL, and moved to Section B, in response to RAI 14.3-391, MFN 08-279.
255.	T11.5-1, Section A	Removed rows due to design change, which re-classified the Drywell Sumps LCW/HCW discharge RMS as nonsafety-related.
256.	T11.5-1, Section B	Added first row regarding MSL, from Section A, in response to RAI 14.3-391, MFN 08-279.
257.	T11.5-1, Section B, RB/FB Stack row through RW Stack row	Edited and added rows to show three-stack vent design change.
258.	T11.5-1, Section B, TSC HVAC Air Intake row	Added minus signs to the displayed channel range in response to RAI 11.5-49, MFN 08-145.
259.	T11.5-1, Section B, new last two rows	Added last two rows due to design change, which re-classified the Drywell Sumps LCW/HCW discharge RMS as nonsafety-related.
260.	T11.5-1, 2 <sup>nd</sup> footnote	Removed, “Performs no safety-related closure function” in response to RAI 14.3-391, MFN 08-279.
261.	T11.5-1, 2 <sup>nd</sup> footnote	Added additional information in response to RAI 11.5-9 S01, MFN 06-066 S05.
262.	T11.5-2	Removed “Expected Activity” column to clarify system sensitivity and lower limit of detection.
263.	T11.5-2, Section A	Removed first row regarding MSL, and moved to Section B, in response to RAI 14.3-391, MFN 08-279.
264.	T11.5-2, Section B	Added first row regarding MSL, from Section A, in response to RAI 14.3-391, MFN 08-279.
265.	T11.5-2, Section B, RB/FB Stack row through RW Stack row	Edited and added rows to show three-stack vent design change.
266.	T11.5-2, 1 <sup>st</sup> footnote	Edited to change tense.
267.	T11.5-2, 2 <sup>nd</sup> footnote	Edited to clarify system sensitivity and lower limit of detection for process versus effluent/discharge radiation monitors, respectively.
268.	T11.5-2, 4 <sup>th</sup> footnote	Removed footnote in response to RAI 14.3-391, MFN 08-279.
269.	T11.5-3, ID column, 13A through 13C	Edited 13A, and added 13B and 13C rows to show three-stack vent design change.

<b>Item</b>	<b>Location</b>	<b>Description of Change</b>
270.	T11.5-4	Removed “Expected Activity” column to clarify system sensitivity and lower limit of detection for process versus effluent/discharge radiation monitors, respectively.
271.	T11.5-4, 1 <sup>st</sup> footnote	Edited to change tense.
272.	T11.5-4, 2 <sup>nd</sup> footnote	Edited to clarify system sensitivity and lower limit of detection for process versus effluent/discharge radiation monitors, respectively.
273.	T11.5-5, No. 2	Edited note in “Continuous” column, from “6 & 8” to “4 & 6” in response to RAI 9.2-8 S02, MFN 06-417 S04.
274.	T11.5-5, No. 15	Removed mobile reference in response to RAI 11.2-16, MFN 07-608.
275.	T11.5-5, 4 <sup>th</sup> footnote	Edited for clarity.
276.	T11.5-6, item No. 3 and 4 <sup>th</sup> footnote	“ESBWR System...” column added “RB/FB, TB Stack, and RW Stack” to show three-stack vent design change.
277.	T11.5-6, item 6	“ESBWR System...” column changed acronym to reflect update.
278.	T11.5-7, 1 <sup>st</sup> , 2 <sup>nd</sup> , and 4 <sup>th</sup> footnote	Edited to change tense.
279.	T11.5-7, 3 <sup>rd</sup> footnote	Additional information provided in response to RAI 11.5-53, MFN 08-145.
280.	T11.5-7, 3 <sup>rd</sup> footnote	Added NUREG-1302 reference for clarity and completeness.
281.	T11.5-8, item 2 through 4	Edited 2 <sup>nd</sup> , and added 3 <sup>rd</sup> and 4 <sup>th</sup> row to show three-stack vent design change.
282.	T11.5-8, 1 <sup>st</sup> footnote	Edited to change tense.
283.	T11.5-8, 2 <sup>nd</sup> footnote	Additional information provided in response to RAI 11.5-53, MFN 08-145.
284.	T11.5-8, 2 <sup>nd</sup> footnote	Added NUREG-1302 reference for clarity and completeness.
285.	T11.5-8, 3 <sup>rd</sup> footnote	Edited to change tense.
286.	T11.5-9, Section A	Removed first row regarding MSL, and moved to Section B, in response to RAI 14.3-391, MFN 08-279.
287.	T11.5-9, Section A	Removed last row due to design change, which re-classified the Drywell Sumps LCW/HCW discharge RMS as nonsafety-related.

<b>Item</b>	<b>Location</b>	<b>Description of Change</b>
288.	T11.5-9, Section B	Added first row regarding MSL, from Section A, in response to RAI 14.3-391, MFN 08-279.
289.	T11.5-9, Section B, Offgas Pre-treatment row	Spelled out “RMS” as “Radiation Monitoring Subsystem” as acronym is no longer used.
290.	T11.5-9, Section B, RB/FB Stack row through RW Stack row	Edited and added rows to show three-stack vent design change.
291.	T11.5-9, Section B	Added last row due to design change, which re-classified the Drywell Sumps LCW/HCW discharge RMS as nonsafety-related.
292.	F11.5-1	Replaced figure to show three-stack vent design change.