

## ESBWR DCD Tier 2 Chapter 19

### 26A6642BY Revision 7 to Revision 8 Change List

Item	Location	Description of Change
1.	Entire Chapter	Header changed from Rev 7 to Rev 8.
2.	S19.1-1	Updated Reference to PRA NEDO-33201, Revision 6, October 2010 (MFN 07-237 Supplement 7)
3.	S19.2.3.1.1	Updated to reflect revised PRA analysis RAI 6.2-202 (MFN 10-253)
4.	S19.2-7	Updated Reference to NEDO-33306, “Severe Accident Mitigation Design Alternatives,” Revision 4, October 2010. (MFN 07-062 Supplement 4)
5.	S19.3.2.1	Added “in the drywell and wetwell airspace” to clarify sentence and added additional text in response to RAI 6.2-202
6.	S19.3.2.4	Added text in response to RAI 6.2-202
7.	19.3.2.4.8	Added text in response to RAI 6.2-202
8.	19A.4.1	Clarification of mode (MFN 10-253)
9.	19A.4.4	Clarification of mode (MFN 10-253)
10.	19A.5	Added text in response to RAI 6.2-202
11.	19A.6.1.3.1	Clarified sentence on FAPCS makeup line (MFN 10-253)
12.	S19A.6.1.3.1, new 4 <sup>th</sup> paragraph	Added paragraph in response to RAI 6.2-202 S01:
13.	S19A.6.1.3.1, new 5 <sup>th</sup> paragraph (former 4 <sup>th</sup> paragraph), last sentence	<p>Changed sentence in response to RAI 6.2-202 S01 from:</p> <p>“The fail-open condensate return bypass valve opens if the DC power is lost.”</p> <p>To:</p> <p>“The fail-open condensate return bypass valve along with the fail-open vent valves open if the DC power is lost.”</p>

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14.	S19A.6.1.3.1, new 6 <sup>th</sup> paragraph	Added paragraph in response to RAI 6.2-202 S01: “The ICS is automatically isolated to mitigate buildup of noncondensable gases during LOCA events. The signal that isolates ICS is a confirmed opening of any two DPV’s with a time delay.”
15.	S19A.8.3	Added clarification regarding wind speed (MFN 10-253 Rev 1)
16.	S19A.8.3, 4 <sup>th</sup> and 10 <sup>th</sup> para.	Editorial – reversed order of SI and English units.
17.	T19A-2, RTNSS Function “GDCS Injection”	Added “Mode and Equalize Mode Actuation” for clarification. (MFN 10-253)
18.	T19A-2, RTNSS Function “DPS – ICS Actuation”	Added (Condensate Return Valve and Vent Valve) RAI 6.2-202 S01
19.	T19A-2, RTNSS Function “PCCS Igniters”	Added RTNSS Function “PCCS Igniters” in response to RAI 6.2-202 S01
20.	T19A-2, RTNSS Function “Reactor Building HVAC Accident Exhaust Filters”	Changed Availability Controls pointer from ACLCO 3.7.5 to 3.7.4, due to deletion of previous ACLCO 3.7.4 and subsequent renumbering. Reference MFN 10-189.
21.	T19A-2, RTNSS Function “CRHAVS Air Handling Units”	Changed Availability Controls pointer from ACLCO 3.7.6 to 3.7.5, due to deletion of previous ACLCO 3.7.4 and subsequent renumbering. Reference MFN 10-189.
22.	T19A-2, RTNSS Function “CRHAVS Air Handling Unit auxiliary heaters and coolers”	Changed Availability Controls pointer from ACLCO 3.7.6 to 3.7.5, due to deletion of previous ACLCO 3.7.4 and subsequent renumbering. Reference MFN 10-189.
23.	T19A-3	Added clarification regarding wind speed (MFN 10-253 Rev 1)
24.	T19A-4	Added clarification regarding wind speed (MFN 10-253 Rev 1)
25.	19B.6	Clarified PCCS heat exchanger pressure in response to RAI 6.2-202 S01.

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26.	T19B-11	Clarified PCCS heat exchanger pressure in response to RAI 6.2-202 S01.
27.	19D.4.2	Added elevations to Item 2 in response to discussions with the NRC on the Aircraft Impact Assessment
28.	19D.4.3	Clarified 2 <sup>nd</sup> paragraph in response to discussions with the NRC on the Aircraft Impact Assessment
29.	19D.4.3	Clarified text in accordance with RAI 19.5-19, MFN-09-783 S03.
30.	19D.5	Clarified text in response to discussions with the NRC on the Aircraft Impact Assessment
31.	T19D-1	Clarified text in response to discussions with the NRC on the Aircraft Impact Assessment
32.	19AC Table of Contents and associated AC/ACM section	Deleted 3.7.4 Spent Fuel Pool Water Level AC/ACLCO (MFN 10-189).
33.	AC 3.7.4, ACLCO 3.7.4	Corrected minimum spent fuel pool water level (MFN 10-161). Superseded by (MFN 10-189).
34.	AC B3.6.3, Bases, 1 <sup>st</sup> paragraph, 1 <sup>st</sup> sentence	<p>Changed sentence in response to RAI 6.2-202 S01 from:</p> <p>“A branch line from each of the 6 PCCS system vents in the drywell contains a fan and discharge line that terminates in a submerged location in the GDSCS pool.”</p> <p>To:</p> <p>“A branch line from each of the 6 PCCS system vents in the drywell contains a fan isolation valve, a fan and discharge line that terminates in a submerged location in the GDSCS pool.”</p>
35.	ACLCO 3.3.4	Changed Function 6 in response to RAI 6.2-202 S01
36.	AC B 3.3.4	Added bullet 5 in response to RAI 6.2-202 S01

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37.	AC 3.5.1	Revised ACSR 3.5.1.6 frequency and Bases from 10 years to “24 Months on a staggered test basis for each deluge line” (MFN 10-270)
38.	AC B3.6.3	Added “a fan isolation valve,” to the basis for clarification in response to 6.2-202 S01.
39.	AC B3.7.1	Revised in response to NRC regulatory audit of Spent Fuel Pool required water inventory / boil-off calculation. Reference MFN 10-189 Revision 1.
40.	ACM 3.6	Added ACLCO 3.6.4 Hydrogen Mitigation - Ignitors in response to 6.2-202 S01.
41.	ACM B 3.7, AC B 3.7.1, Bases, 1 <sup>st</sup> paragraph, 2 <sup>nd</sup> sentence	Added acronym “FPS” after “Fire protection System”. Reference MFN 10-189.
42.	ACM B 3.7, AC B 3.7.1, Bases, 1 <sup>st</sup> paragraph, former 3 <sup>rd</sup> sentence	Deleted sentence to provide a bounding IC/PCS pools and SFP makeup volume and rate. Reference MFN 10-189.
43.	ACM B 3.7, AC B 3.7.1, Bases, 2 <sup>nd</sup> paragraph, former 3 <sup>rd</sup> sentence	Deleted sentence to provide a bounding IC/PCS pools and SFP makeup volume and rate. Reference MFN 10-189.
44.	ACM B 3.7, AC B 3.7.1, Bases, new 3 <sup>rd</sup> paragraph	Provided paragraph to provide a bounding IC/PCS pools and SFP makeup volume and rate. Reference MFN 10-189.
45.	ACM B 3.7, former AC 3.7.4	Deleted the Availability Control entirely. The subject material is now addressed by Chapter 16 LCO 3.7.5. Reference MFN 10-189.
46.	ACM B 3.7, former AC 3.7.5, new AC 3.7.4	Renumbered the Availability Control from 3.7.5 to 3.7.4 since the former AC 3.7.4 was deleted. Reference MFN 10-189.
47.	ACM B 3.7, former AC 3.7.6, new AC 3.7.5	Renumbered the Availability Control from 3.7.6 to 3.7.5 since the former AC 3.7.4 was deleted. Reference MFN 10-189.