

ESBWR DCD Chapter 2 – Site Characteristics
22A6642AH Revision 1 to Revision 2 Change List

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
1	Acronym List	Added HMR – Hydrometeorology Report URD – Utility Requirements Document, Volume III, for Advanced Light Water Reactor Passive Plant
2	S2.0, second paragraph	Changed second sentence to begin with the following: "Table 2.0-2 references the guidance in NUREG-0800 Standard Review Plan (SRP) and defines the limits ..." Minor editorial changes in rest of paragraph.
3	S2.0, third paragraph through end of section	New text inserted based on draft Rev 0 of SRP 14.3.1, April 1996. (Incorporated in response to RAI 2.1-1)
4	S2.0.1 (new)	New COL Information section.
5	S2.1 through S2.5	Sections deleted in their entirety. Text in each section was a repeat of ESBWR design parameter information now in Tables 2.0-1 and 2.0-2, followed by a paraphrased description from specific SRP sections. Given that SRP contents can change from time to time, the paraphrased descriptions were replaced by a reference to the individual SRP sections in Table 2.0-2. In conjunction with this change, Table 1.9-20 has been updated to reference the draft Chapter 2 SRP sections from April 1996, or more recent revisions if they exist. This set of changes satisfies the intent of the response previously provided to RAIs 2.1-1, 2.2-1 and 2.3-1 that updated the paraphrased text to be consistent with the most recent regulatory guidance.
6	Tables 2.0-1 and 2.0-2	Contents of previous Table 2.0-1 have been reformatted into two separate tables. Table 2.0-1 now defines site parameters used in the design of the ESBWR and the basis for their selection. (Incorporated in Table 2.0-1 along with this reformatting are the responses to RAIs 2.1-2, 2.3-2, 2.3-3, 2.3-4, 2.3-5, 2.3-7, 2.3-8 and 2.3-10)

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7	Table 2.0-1, Note (1)	Added new note to table: "The design of the Radwaste Building uses a set of design parameters that are specified in Regulatory Guide 1.143, Table 2, Class RW-IIa instead of the corresponding values given in Table 2.0-1." (Incorporated partially in response to RAI 3.2-37 to clarify design requirements for Radwaste Building).
8	Table 2.0-2	New Table 2.0-2 is based on previous Table 2.0-1. It defines limits imposed on SRP Section II acceptance criteria by the ESBWR design and adds one new column to define COL information. Much of the information in the new column existed in the previous table as well. Significant changes to information in this table are summarized separately below.
9	Table 2.0-2, Subsection 2.1.1	Column 3 information changed to "None." COL statement moved to column 4.
10	Table 2.0-2, Subsection 2.1.2	Column 3 information changed to "Per Table 2.0-1". COL statement moved to column 4.
11	Table 2.0-2, Subsection 2.1.3	COL statement moved to column 4.
12	Table 2.0-2, Subsection 2.2.1-2.2.2	COL statement moved to column 4 and revised to read: "COL applicant to identify and evaluate potential hazards in the site vicinity, in accordance with SRP 2.2.1 – 2.2.2. Potential hazards include manufacturing plants, chemical plants, refineries, storage facilities, mining and quarrying operations, military bases, missile sites, transportation routes (air, land and water), transportation facilities (docks, anchorages, airports), oil and gas pipelines, drilling operations and wells, and underground gas storage facilities." (Incorporated in response to RAIs 2.2-2 and 2.2-3)

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13	Table 2.0-2, Subsection 2.2.3	Column 3 information changed to: "None considered in vicinity of plant." COL statement moved to column 4 and revised to read: "COL applicant to identify and evaluate potential accidents emanating from those potential hazards identified in SRP 2.2.1 – 2.2.2, above that have a probability of occurrence $> 10^{-7}$ per year which involve: (1) missiles more energetic than the tornado missile spectra, or (2) pressure effects in excess of the design basis tornado, or (3) explosions, or (4) fires, or (5) aircraft impacts, or (6) release of flammable vapor clouds, or (7) release of toxic chemicals." (Incorporated in response to RAIs 2.2-2 and 2.2-3)
14	Table 2.0-2, Subsection 2.3.1	Column 3 information changed to "Per Table 2.0-1". COL statement moved to column 4 and revised to read: "COL applicant to determine basic speed of extreme wind for use in design of nonsafety-related structures. COL applicant to confirm or reanalyze in accordance with SRP 2.3.1."
15	Table 2.0-2, Subsection 2.3.2	Column 3 information changed to "None." COL statement moved to column 4.
16	Table 2.0-2, Subsection 2.3.3	Column 3 information changed to "None." COL statement moved to column 4.
17	Table 2.0-2, Subsection 2.3.4	Column 3 information changed to "Per Table 2.0-1. See also Chapter 15." COL statement moved to column 4. Added proposed text from response to RAI 2.3-7 to column 4. Added RG 1.194 to original COL statement in column 4 per response to RAI 2.3-8.
18	Table 2.0-2, Subsection 2.3.5	Column 3 information changed to "Per Table 2.0-1. See Subsection 12.2.2.1 for a discussion of the generation of these values." COL statement moved to column 4. Added proposed text from response to RAI 2.3-10 to column 4.
19	Table 2.0-2, Subsection 2.4.1	Column 3 information changed to "Per Table 2.0-1". COL statement moved to column 4.
20	Table 2.0-2, Subsection 2.4.2	Column 3 information changed to "Per Table 2.0-1". COL statement moved to column 4.

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21	Table 2.0-2, Subsection 2.4.3	Column 3 information changed to "Probable maximum flooding level on streams and rivers does not exceed the maximum flood level defined in Table 2.0-1". COL statement moved to column 4.
22	Table 2.0-2, Subsection 2.4.4	Column 3 information changed to "Potential seismically induced dam failures do not cause flooding to exceed the maximum flood level defined in Table 2.0-1". COL statement moved to column 4, where the following was added: "COL applicant to demonstrate that failure of existing and potential upstream or downstream water control structures will not cause flooding to exceed 0.3 m (1 ft) below plant grade."
23	Table 2.0-2, Subsection 2.4.5	Column 3 information changed to "Probable maximum surge and seiche flooding level does not exceed the maximum flood level defined in Table 2.0-1". COL statement moved to column 4.
24	Table 2.0-2, Subsection 2.4.6	Column 3 information changed to "Probable maximum tsunami flooding level does not exceed the maximum flood level defined in Table 2.0-1". COL statement moved to column 4.
25	Table 2.0-2, Subsection 2.4.7	Column 3 information changed to "None". COL statement moved to column 4.
26	Table 2.0-2, Subsection 2.4.8	Column 3 information changed to "None". COL statement moved to column 4.
27	Table 2.0-2, Subsection 2.4.9	Column 3 information changed to "None". COL statement moved to column 4.
28	Table 2.0-2, Subsection 2.4.10	Column 3 information changed to "None". COL statement moved to column 4.
29	Table 2.0-2, Subsection 2.4.11	Column 3 information changed to "None". COL statement moved to column 4.
30	Table 2.0-2, Subsection 2.4.12	Column 3 information changed to "Per Table 2.0-1". COL statement moved to column 4.

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31	Table 2.0-2, Subsection 2.4.13	Column 3 information changed to "None. DCD Tier 2 Subsection 15.3.16, "Liquid Containing Tank Failure," demonstrates that the ESBWR design precludes accidental releases of radioactive liquid effluent." COL statement moved to column 4 and revised to read: "None. SRP 2.4.13 is not applicable to a site with an ESBWR."
32	Table 2.0-2, Subsection 2.4.14	Column 3 information changed to "None". COL statement moved to column 4.
33	Table 2.0-2, Subsection 2.5.1	Column 3 information changed to "None". COL statement moved to column 4.
34	Table 2.0-2, Subsection 2.5.2	Column 3 information changed to "Per Table 2.0-1". COL statement moved to column 4.
35	Table 2.0-2, Subsection 2.5.3	COL statement moved to column 4.
36	Table 2.0-2, Subsection 2.5.4	Column 3 information changed to "Per Table 2.0-1". COL statement moved to column 4.
37	Table 2.0-2, Subsection 2.5.5	Column 3 information changed to "Per Table 2.0-1". COL statement moved to column 4.
38	Figures 2.5-1 and 2.5-2	These figures were renumbered as Figures 2.0-1 and 2.0-2 and updated in accordance with the response to RAI 3.7-5.