

POINT BEACH NUCLEAR PLANT UNITS 1 & 2
FINAL SAFETY ANALYSIS REPORT

LIST OF EFFECTIVE PAGES

The following is a List of Effective Pages for the Point Beach Nuclear Plant Final Safety Analysis Report (FSAR). This List of Effective Pages should be filed at the front of the FSAR manual.

All holders of this FSAR should check their manuals against this List of Effective Pages to ensure that the FSAR is accurate and complete.

Some figures are identified as for information only because they are updated on a periodic frequency commensurate with the docketed submittal of this FSAR.

The last update submitted to the NRC is identified on the lower-left hand side of each page, followed by the update year, (e.g., UFSAR 2007).

LIST OF EFFECTIVE PAGES

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(Note Repeated in each Chapter)

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13.4-1	13.4-3	2008

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14.3.1-1	14.3.1-79	2018
14.3.2-1	14.3.2-52	2015
14.3.3-1	14.3.3-9	2010
14.3.4-1	14.3.4-80	2018
14.3.5-1	14.3.5-17	2010
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15.2-1	15.2-8	2018
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Appendix A

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A.3-1	A.3-11	2017
A.4-1	A.4-1	2006
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Appendix I

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	I.1-1	I.1-3	2018
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	I.6-1	I.6-2	2018
	I.7-1	I.7-2	2018
	I.8-1	I.8-5	2018
	I.9-1	I.9-3	2018
	Appendix I Tables and Figures-1	Appendix I Tables and Figures-248	2018

Appendix T

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T.1-1	T.1-1	2008

DESCRIPTION OF CHANGES

Table of Contents	
Throughout	Editorial Changes: Editorial changes were made to correct grammar, punctuation, spelling, and to ensure consistency between text headings, table titles, figure titles, table of contents, etc. These changes may not be identified by a revision bar.
<u>Chapter 1</u>	
FSAR 1.2-3	Licensing Basis Change: Removed text in relation to abandonment of blowdown evaporator. (EC 291877)
FSAR 1.2-10	Updated Figure to reflect approved drawing of record.
FSAR 1.2-17	Updated Figure to reflect approved drawing of record.
FSAR 1.3-9	Licensing Basis and Editorial Change: Revised the time for the boric acid injection to shut down the reactor, with no control rod insertion, from 120 minutes to 150 minutes. (EC 291910)
FSAR 1.3-16	Editorial Change: Removed reference to Technical Specification Bases 3.7.11. (EC 291262)
FSAR 1.3-27	Licensing Basis Change: Updated the reference in the Section 1.3 table entry for GDC-70 from 10 CFR 100 to 10 CFR 50.67. (EC 287887)
<u>Chapter 3</u>	
FSAR 3.1-5	Licensing Basis and Editorial Change: Revised the time for the boric acid injection to shut down the reactor, with no control rod insertion, from 120 minutes to 150 minutes. (EC 291910)
<u>Chapter 4</u>	
FSAR 4.2-22 through FSAR 4.2-26	Updated Figure to reflect approved drawing of record.
<u>Chapter 5</u>	
FSAR 5.1-98	Updated Figure to reflect approved drawing of record.
FSAR 5.2-4	Licensing Basis Change: Replaced references to RG 1.163 and NEI 94-01 with NEI 94-01 Revs. 3-A and 2-A to reflect NRC Safety Evaluation dated April 25, 2019. (EC 293455)
FSAR 5.3-8	Updated Figure to reflect approved drawing of record.
FSAR 5.6-16	Editorial Change: Updated References to Section 5.6 of FSAR. (EC 291244)

<u>Chapter 6</u>	
FSAR 6.2-26	Licensing Basis Change: Clarified the description of the 7' high walls separating the RHR pump cubicles. (EC 291367)
FSAR 6.2-43	Updated Figure to reflect approved drawing of record.
<u>Chapter 7</u>	
FSAR 7.1-2	Editorial Change: Replaced the term “alternate shutdown” with “control of plant.” (EC 293150)
FSAR 7.1-7	Editorial Change: Deleted the asterisked note “Wrapping cables with Siltemp does not create an Appendix R qualified fire barrier.” (EC 293150)
FSAR 7.2-27 through FSAR 7.2-28	Editorial Change: Equated the Limiting Safety System Setting to the trip setpoint, as opposed to the allowable value; reconciled Setpoint Methodology description with SER 2011-0004 and SER 2011-0008; reconciled described methodology with RPS and ESFAS Tech Spec Bases; clarified methodology for Backup and Anticipatory Trips and Permissives and Interlocks; and clarified how the TS Allowable Value is determined. (EC 290772)
<u>Chapter 8</u>	
FSAR 8.0-12	Updated Figure to reflect approved drawing of record.
FSAR 8.0-16	Updated Figure to reflect approved drawing of record.
FSAR 8.1-4	Updated Figure to reflect approved drawing of record.
FSAR 8.1-5	Updated Figure to reflect approved drawing of record.
FSAR 8.2-2	Editorial Change: Replaced the existing X-03 inverse time neutral overcurrent relays with fixed time overcurrent relays. (EC 292803)
<u>Chapter 9</u>	
FSAR 9.1-1	Editorial Change: Deleted the 5th bulleted item under Section 9.1.1. (EC 293150)
FSAR 9.1-2	Licensing Basis Change: Added text in relation to abandonment of blowdown evaporator. (EC 291877)
FSAR 9.1-3	Licensing Basis Change: Added text in relation to abandonment of blowdown evaporator. (EC 291877)
FSAR 9.1-12	Updated Figure to reflect approved drawing of record.
FSAR 9.2-4	Licensing Basis Change: Clarified the description of the 7' high walls separating the RHR pump cubicles. (EC 291367)
FSAR 9.2-4	Editorial Change: Revised first paragraph to remove Reference 6 discussion and Reference 6. (EC 293150)

<u>Chapter 9</u> <u>continued</u>	
FSAR 9.2-5	Editorial Change: Modified historic Reference 6 to “Not Used.” (EC 293150)
FSAR 9.3-2	Licensing Basis and Editorial Change: Revised the time for the boric acid injection to shut down the reactor, with no control rod insertion, from 120 minutes to 150 minutes. (EC 291910)
FSAR 9.3-30	Updated Figure to reflect approved drawing of record.
FSAR 9.6-1	Licensing Basis Change: Removed text in relation to abandonment of blowdown evaporator. (EC 291877)
FSAR 9.6-12	Updated Figure to reflect approved drawing of record.
FSAR 9.7-3	Licensing Basis Change: Revised text to reflect installation of heatless, desiccant air dryer to the Service Air (SA) system. (LIC 2216689)
FSAR 9.9-1	Editorial Change: Added new reference and deleted text in relation to the SFP heat exchanger replacement. (EC 292007)
FSAR 9.9-2	Editorial Change: Deleted text in relation to the SFP heat exchanger replacement. (EC 292007)
FSAR 9.9-5	Editorial Change: Modified references and text in relation to the SFP heat exchanger replacement. (EC 292007)
FSAR 9.9-6	Editorial Change: Modified text to be consistent with the license basis. (EC 292007)
FSAR 9.9-7	Editorial Change: Updated outdated references and added new reference in relation to SFP heat exchanger replacement. (EC 292007)
FSAR 9.9-8	Editorial Change: Modified table text in relation to the SFP heat exchanger replacement. (EC 292007)
FSAR 9.9-9	Editorial Change: Deleted reference in relation to the SFP heat exchanger replacement. (EC 292007)
FSAR 9.9-12	Updated Figure to reflect approved drawing of record.
FSAR 9.10-2	Editorial Change: Added an underline under Nuclear Safety Performance Criterion in Section 9.10.1.1.2. (EC 293150)
FSAR 9.10-3	Editorial Change: Added Reference 6 to the statement under Radioactive Release in Section 9.10.1.2.1. (EC 293150)
<u>Chapter 10</u>	
FSAR 10.1-1	Licensing Basis Change: Removed text in relation to abandonment of blowdown evaporator. (EC 291877)
FSAR 10.1-4	Licensing Basis Change: Modified text describing steam generator blowdown alignment. (EC 291877)
FSAR 10.1-5	Licensing Basis Change: Modified text in relation to abandonment of blowdown evaporator. (EC 291877)

Chapter 10 <u>continued</u>	
FSAR 10.1-24	Updated Figure to reflect approved drawing of record.
FSAR 10.1-25	Updated Figure to reflect approved drawing of record.
FSAR 10.1-27	Updated Figure to reflect approved drawing of record.
FSAR 10.1-28	Updated Figure to reflect approved drawing of record.
FSAR 10.1-47	Updated Figure to reflect approved drawing of record.
FSAR 10.1-50	Updated Figure to reflect approved drawing of record.
Chapter 11	
FSAR 11.0-1	Licensing Basis Change: Removed text in relation to abandonment of blowdown evaporator and added new reference. (EC 291877)
FSAR 11.1-2	Licensing Basis Change: Removed text in relation to abandonment of blowdown evaporator. (EC 291877)
FSAR 11.1-3	Licensing Basis Change: Modified text in relation to abandonment of blowdown evaporator. (EC 291877)
FSAR 11.1-4	Licensing Basis Change: Modified text in relation to abandonment of blowdown evaporator. (EC 291877)
FSAR 11.1-5	Licensing Basis Change: Modified text in relation to abandonment of blowdown evaporator and clarified text in relation to CVCS holdup tanks and the PAB building. (EC 291877)
FSAR 11.1-8 through FSAR 11.1-12	Licensing Basis Change: Modified text in relation to abandonment of blowdown evaporator. (EC 291877)
FSAR 11.1-16	Licensing Basis Change: Added filtration/demineralization decontamination factor reference. (EC 291877)
FSAR 11.1-17 through FSAR 11.1-20	Updated Figure to reflect approved drawing of record.
FSAR 11.3-1	Licensing Basis Change: Removed text in relation to abandonment of blowdown evaporator. (EC 291877)
FSAR 11.4-1	Editorial Change: Updated Plant Manager with Site Director and updated Site Vice President with President Nuclear Division & Chief Nuclear Officer. (EC 293560)
FSAR 11.4-3	Editorial Change: Removed reference to electronic dosimeter; rewrote last paragraph regarding ARB for clarity. (EC 292780)
FSAR 11.4-4	Editorial Change: Revised listed item “d” and deleted listed items “c,” “e,” “f,” and “g” for clarification; replaced “Radiation Control Area” with “RCA” throughout bottom four paragraphs. (EC 292780)
FSAR 11.4-5	Editorial Change: Replaced “Radiation Control Area” with “RCA” in first paragraph. (EC 292780)

<u>Chapter 11</u> <u>continued</u>	
FSAR 11.4-6	Editorial Change: Revised the second sentence of the third paragraph by changing "are used" to "may be used." (EC 291471)
FSAR 11.4-6	Editorial Change: Rewrote first paragraph for clarity and removal of obsolete information; replaced "beta-gamma dose rate" with "radiation" in last two paragraphs for clarification. (EC 292780)
FSAR 11.4-7	Editorial Change: Replaced "dose rate" with "radiation" in first paragraph for clarification; changed all references to "TLD" in third paragraph to "DLR" for clarification; changed reference to "TLD" to "DLR" in fourth paragraph and deleted reference to "ED" for clarification; removed reference to specific dosimetry devices, changed "RP Manager" to "RPM," and removed specific location information for clarification. (EC 292780)
FSAR 11.4-8	Editorial Change: Replaced "smear" with "contamination" for clarification. (EC 292780)
FSAR 11.4-9	Editorial Change: Replaced "gatehouses" with "gatehouse." (EC 292780)
FSAR 11.4-9	Editorial Change: Revised first sentence of the first paragraph to eliminate reference to action levels "described below" and revised last paragraph by deleting "and cleaned." (EC 291471)
FSAR 11.4-11	Editorial Change: Revised first row under "Equipment" to read "Various Respiratory Equipment (Negative Pressure, SCBA, Hoods, etc.)" and revised the first row listing under "Normal Storage Location" to read "RP Area/Emergency Planning Storage Areas." (EC 291471)
FSAR 11.4-12	Editorial Change: Replaced obsolete information relating to "Direct Ion Chamber" with "Self-Reading Dosimeter." (EC 292780)
FSAR 11.5-9	Editorial Change: Replaced the Offsite Radiation Protection Facility in the Site Boundary Control Center with the Operations Support Center. (EC 293316)
FSAR 11.7-2	Editorial Change: Removed obsolete information "and by ultrasonic techniques" from end of third paragraph; removed second sentence of fourth paragraph describing how decontamination is performed and moved paragraph so that it follows second paragraph for clarification; revised last paragraph and removed obsolete information for clarification. (EC 292780)
<u>Chapter 12</u>	
FSAR 12.2-1	Editorial Change: Updated Site Vice President with Site Director. (EC 293560)
FSAR 12.4-4	Editorial Change: Updated Small Break with Post procedure title change. (EC 293560)
FSAR 12.4-5	Editorial Change: Deleted ST procedures as they were cancelled in June 1999. (EC 293560)

<u>Chapter 14</u>	
FSAR 14.2.5-8	Licensing Basis Change: Updated reference. (EC 291480)
FSAR 14.2.5-10	Licensing Basis Change: Updated peak pressures and temperatures. (EC 291480)
FSAR 14.2.5-11	Licensing Basis Change: Updated reference. (EC 291480)
FSAR 14.2.5-12	Licensing Basis Change: Deleted reference. (EC 291480)
FSAR 14.2.5-29	Licensing Basis Change: Updated containment pressure and temperature response curves. (EC 291480)
FSAR 14.2.5-30	Licensing Basis Change: Updated containment pressure and temperature response curves. (EC 291480)
FSAR 14.3.1-3	Editorial Change: Deleted average temperature uncertainty to provide a better representation of the SBLOCA analysis. (EC 289112)
FSAR 14.3.4-5	Licensing Basis Change: Updated to reflect the results of corrected analyses. (EC 291480)
FSAR 14.3.4-20	Licensing Basis Change: Updated to reflect the results of corrected analyses and reference added. (EC 291480)
FSAR 14.3.4-21	Licensing Basis Change: Updated to reflect the results of corrected analyses. (EC 291480)
FSAR 14.3.4-22	Licensing Basis Change: Deleted discussion of the double-ended pump suction break with maximum safeguards. (EC 291480)
FSAR 14.3.4-24	Licensing Basis Change: Added new reference. (EC 291480)
FSAR 14.3.4-26	Licensing Basis Change: Updated table title. (EC 291480)
FSAR 14.3.4-27	Licensing Basis Change: Deleted table due to deletion of double-ended pump suction break as this analysis has been dropped as nonlimiting and bounded by the other analyzed LOCAs. (EC 291480)
FSAR 14.3.4-34 through FSAR 14.3.4-36	Licensing Basis Change: Updated table title. (EC 291480)
FSAR 14.3.4-37 through FSAR 14.3.4-41	Licensing Basis Change: Updated table title. (EC 291480)
FSAR 14.3.4-42	Licensing Basis Change: Deleted table due to deletion of double-ended pump suction break as this analysis has been dropped as nonlimiting and bounded by the other analyzed LOCAs. (EC 291480)
FSAR 14.3.4-43 through FSAR 14.3.4-45	Licensing Basis Change: Updated table title. (EC 291480)
FSAR 14.3.4-46	Licensing Basis Change: Deleted table due to deletion of double-ended pump suction break as this analysis has been dropped as nonlimiting and bounded by the other analyzed LOCAs. (EC 291480)

Chapter 14 <u>continued</u>	
FSAR 14.3.4-47 through FSAR 14.3.4-50	Licensing Basis Change: Updated table title. (EC 291480)
FSAR 14.3.4-51	Licensing Basis Change: Deleted table due to deletion of double-ended pump suction break as this analysis has been dropped as nonlimiting and bounded by the other analyzed LOCAs. (EC 291480)
FSAR 14.3.4-52	Licensing Basis Change: Updated table title. (EC 291480)
FSAR 14.3.4-53	Licensing Basis Change: Deleted table due to deletion of double-ended pump suction break as this analysis has been dropped as nonlimiting and bounded by the other analyzed LOCAs. (EC 291480)
FSAR 14.3.4-54	Licensing Basis Change: Updated table title. (EC 291480)
FSAR 14.3.4-55	Licensing Basis Change: Deleted table due to deletion of double-ended pump suction break as this analysis has been dropped as nonlimiting and bounded by the other analyzed LOCAs. (EC 291480)
FSAR 14.3.4-56	Licensing Basis Change: Updated peak pressure and temperature. (EC 291480)
FSAR 14.3.4-57 through FSAR 14.3.4-58	Licensing Basis Change: Updated table title and updated peak pressure and temperature. (EC 291480)
FSAR 14.3.4-59	Licensing Basis Change: Deleted table due to deletion of double-ended pump suction break as this analysis has been dropped as nonlimiting and bounded by the other analyzed LOCAs. (EC 291480)
FSAR 14.3.4-62	Licensing Basis Change: Updated to reflect the results of corrected analyses. (EC 291480)
FSAR 14.3.4-65	Licensing Basis Change: Updated to reflect the results of corrected analyses. (EC 291480)
FSAR 14.3.4-75	Licensing Basis Change: Updated peak pressures and temperatures. (EC 291480)
FSAR 14.3.4-76	Licensing Basis Change: Updated title and updated peak pressures and temperatures. (EC 291480)
FSAR 14.3.4-77	Licensing Basis Change: Updated title and updated peak pressures and temperatures. (EC 291480)
FSAR 14.3.4-78	Licensing Basis Change: Updated title and updated peak pressures and temperatures. (EC 291480)
FSAR 14.3.4-79	Licensing Basis Change: Deleted figure due to deletion of double-ended pump suction break as this analysis has been dropped as nonlimiting and bounded by the other analyzed LOCAs. (EC 291480)
FSAR 14.3.4-80	Licensing Basis Change: Deleted figure due to deletion of double-ended pump suction break as this analysis has been dropped as nonlimiting and bounded by the other analyzed LOCAs. (EC 291480)

<u>Chapter 15</u>	
FSAR 15.2-4	Editorial Change: Deleted reference to Revision 3 of NSAC-202L to EPRI guideline. (EC 293560)
FSAR 15.2-8	Editorial Change: Deleted reference to Revision 3 of NSAC-202L to EPRI guideline. (EC 293560)
<u>Appendix A</u>	
FSAR A.2-6	Editorial Change: Corrected various variables in and related to Equations 2, 3, and 4. (EC 292775)
FSAR A.2-9	Editorial Change: Deleted references to Section 1 which no longer exists in FSAR Section A.2. (EC 292775)
FSAR A.2-10	Editorial Change: Corrected X_i to X_1 and V_i to V_1 in Equation 14. (EC 292775)
FSAR A.2-11	Editorial Change: Corrected A_w to A_{te} in Equation 21. (EC 292775)
FSAR A.2-13	Editorial Change: Added missing closed quotation to Reference 15. (EC 292775)
FSAR A.5-4	Editorial Change: Corrected spelling of "equipment."
FSAR A.6-8	Licensing Basis Change: Modified text in relation to abandonment of blowdown evaporator. (EC 291877)
FSAR A.7-2	Editorial Change: Removed "and the storm drains" and replaced "lake effect flooding" with "flooding from the lake" from the 5 th paragraph. (EC 291573)
FSAR A.7-1 through FSAR A.7-4	Licensing Basis Change: Replaced paragraph describing the flood protection provisions for the SW pump house with one that describes the currently analyzed bases for flood protection. Deleted excessive level of detail that is reflected in controlled implementing procedures. (EC 287887)
<u>Appendix I</u>	
FSAR TOC I-i Through FSAR Appendix I-248	Editorial Change: Information contained in FSAR Appendix I noted as historical information based off of NEI 98-03, Revision 1, "Guidelines for Updating Final Safety Analysis Reports." (EC 292192)
FSAR I.1-3	Editorial Change: Updated Section I.1.7 to reflect the actual changes that occurred with Modification 99-012, Retirement of the retention pond. (EC 291546)
FSAR I.2-3	Licensing Basis Change: Modified discussion of ion exchange, blowdown evaporator, waste condensate demineralizers, and boric acid evaporators in relation to abandonment of blowdown evaporator. (EC 291877)
FSAR Appendix I-239	Updated Figure to reflect approved drawing of record.

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