

ENCLOSURE 1

POINT BEACH NUCLEAR PLANT UNITS 1 AND 2

SUBSEQUENT LICENSE RENEWAL APPLICATION

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- Enclosure 1 Point Beach Nuclear Plant Units 1 and 2 Subsequent License Renewal Application Enclosures Summary
- Enclosure 2 Affidavits Supporting Withholding Proprietary Information from Public Disclosure Pursuant to 10 CFR 2.390
- Attachment 1 CAW-20-5109, Affidavit for Westinghouse proprietary portions of Point Beach Nuclear Plant Units 1 and 2 Subsequent License Renewal Application (SLRA) Table 4.3.4-1 Sentinel Locations, dated October 30, 2020 (Enclosure 5 Attachment 1)
- Attachment 2 CAW-20-5091, Affidavit for Westinghouse proprietary portions of WCAP-18554-P Revision 1, dated September 16, 2020 (Enclosure 5 Attachment 2)
- Attachment 3 Framatome Affidavit dated November 4, 2020 for proprietary information contained in the following reports:
- Framatome Topical Report BAW-2192, Revision 0, Supplement 3P, Revision 0, "Low Upper-Shelf Toughness Fracture Mechanics Analysis of Reactor Vessels of B&W Owners Reactor Vessel Working Group for Levels A & B Service Loads," October 2020 (Enclosure 5, Attachment 3),
 - Framatome Topical Report BAW-2178, Revision 0, Supplement 2P, Revision 0, "Low Upper-Shelf Toughness Fracture Mechanics Analysis of Reactor Vessels of B&W Owners Reactor Vessel Working Group for Levels C & D Service Loads," October 2020 (Enclosure 5, Attachment 4), and
 - Framatome Technical Report ANP-3886P, Revision 0, PWROG-20043-P, "PWROG – PBN Unit 1 IS Plate A9811-1 Equivalent Margins Analysis for SLR," October 2020 (Enclosure 5, Attachment 5)
- Attachment 4 CAW-20-5065, Affidavit for Westinghouse proprietary portions of LTR-SDA-II-20-05-P, Rev. 2, dated July 7, 2020 (Enclosure 5 Attachment 6)
- Attachment 5 CAW-20-5071, Affidavit for Westinghouse proprietary portions of LTR-SDA-II-20-08-P, Rev. 1, dated July 20, 2020 (Enclosure 5 Attachment 7)
- Attachment 6 CAW-20-5101, Affidavit for Westinghouse proprietary portions of LTR-SDA-II-20-13-P, Rev. 2, dated September 29, 2020 (Enclosure 5 Attachment 8)

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	<u>Attachment 7</u>	CAW-20-5110, Affidavit for Westinghouse proprietary portions of File No.: 2000088.310P – PROPRIETARY, Revision 1, EAF Refined Analyses (Charging Nozzle, Hot Leg Surge Nozzle, SI Nozzle, SI/RHR Tee), dated November 3, 2020 (Enclosure 5 Attachment 9)
	<u>Attachment 8</u>	CAW-20-5102, Affidavit for Westinghouse proprietary portions of LTR-SDA-20-064-P, Rev. 1, dated October 7, 2020 (Enclosure 5 Attachment 10)
	<u>Attachment 9</u>	CAW-20-5057, Affidavit for Westinghouse proprietary portions of WCAP-14439-P, Revision 4, dated June 12, 2020 (Enclosure 5 Attachment 11)
	<u>Attachment 10</u>	CAW-20-5073, Affidavit for Westinghouse proprietary portions of LTR-PAFM-05-58-P, Rev. 3, dated July 23, 2020 (Enclosure 5 Attachment 12)
	<u>Attachment 11</u>	CAW-20-5067, Affidavit for Westinghouse proprietary portions of LTR-SDA-20-020-P, Rev. 1, dated July 9, 2020 (Enclosure 5 Attachment 13)
	<u>Attachment 12</u>	CAW-20-5066, Affidavit for Westinghouse proprietary portions of LTR-REA-20-29-P, Rev. 0, dated July 8, 2020 (Enclosure 5 Attachment 14)
Enclosure 3	<u>Attachment 1</u>	Point Beach Nuclear Plant Units 1 and 2 Subsequent License Renewal Application (Public Version) November 2020
	<u>Attachment 2</u>	Appendix E Applicant’s Environmental Report Subsequent Operating License Renewal Point Beach Nuclear Plant Units 1 and 2
Enclosure 4	Non-proprietary Reference Documents and Redacted Versions of Proprietary Reference Documents (Public Version)	
	<u>Attachment 1</u>	Westinghouse LTR-REA-20-28-NP, Revision 0, “Reactor Vessel, Reactor Vessel Supports, and Concrete Bioshield Exposure Data in Support of the Point Beach Unit 2 Subsequent License Renewal (SLR) Time-Limited Aging Analysis (TLAA),” July 31, 2020
	<u>Attachment 2</u>	WCAP-18554-NP, Revision 1, “Fracture Mechanics Assessment of Reactor Pressure Vessel Structural Steel Supports for Point Beach Units 1 and 2,” September 2020

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- Attachment 3 Westinghouse WCAP-18555-NP, Revision 1, "Point Beach Units 1 and 2 Time-Limited Aging Analyses on Reactor Vessel Integrity for Subsequent License Renewal," August 2020
- Attachment 4 Framatome Topical Report BAW-2192, Revision 0, Supplement 3NP, Revision 0, "Low Upper-Shelf Toughness Fracture Mechanics Analysis of Reactor Vessels of B&W Owners Reactor Vessel Working Group for Levels A & B Service Loads," October 2020
- Attachment 5 Framatome Topical Report BAW-2178, Revision 0, Supplement 2NP, Revision 0, "Low Upper-Shelf Toughness Fracture Mechanics Analysis of Reactor Vessels of B&W Owners Reactor Vessel Working Group for Levels C & D Service Loads," October 2020
- Attachment 6 Framatome Technical Report ANP-3886NP, Revision 0, PWROG-20043-NP, "PWROG – PBN Unit 1 IS Plate A9811-1 Equivalent Margins Analysis for SLR," October 2020
- Attachment 7 Structural Integrity Associates, Inc. Report No.2000088.401, Revision 2, "Cycle Counts and Fatigue Projections for 80 Years of Plant Operation for Point Beach Nuclear Units 1 and 2," October 19, 2020
- Attachment 8 Westinghouse LTR-SDA-II-20-05-NP, Revision 2, "Environmentally Assisted Fatigue Screening Results for Point Beach Unit 1 and Unit 2 Safety Class 1 Primary Equipment," June 30, 2020
- Attachment 9 Structural Integrity Associates, Inc. Report No. 2000088.402, Revision 1, "Environmentally-Assisted Fatigue Evaluation for 80 Years of Plant Operation for Point Beach Nuclear Units 1 and 2," September 25, 2020
- Attachment 10 Westinghouse LTR-SDA-II-20-08-NP, Revision 1, "Environmentally Assisted Fatigue Evaluation Results for the Point Beach Unit 1 and Unit 2 Primary Equipment Sentinel Locations for Subsequent License Renewal," July 15, 2020
- Attachment 11 Westinghouse LTR-SDA-II-20-13-NP, Revision 2, "Environmentally Assisted Fatigue Evaluation Results for the Point Beach Unit 1 and Unit 2 Pressurizer Lower Head for Subsequent License Renewal," September 23, 2020

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- Attachment 12 Structural Integrity Associates, Inc. File No. 2000088.310P – REDACTED, Revision 1, “EAF Refined Analyses (Charging Nozzle, Hot Leg Surge Nozzle, SI Nozzle, SI/RHR Tee),” August 14, 2020
- Attachment 13 Structural Integrity Associates, Inc. Calculation No. PBCH-03Q-301, Revision 3, “Evaluation of Thermal Stratification Due to Valve Leakage,” September 25, 2020
- Attachment 14 Westinghouse LTR-SDA-20-064-NP, Revision 1, “ASME Section XI Appendix L Evaluation Results for the Point Beach Units 1 and 2 Pressurizer Spray Nozzles,” October 7, 2020
- Attachment 15 Structural Integrity Associates Calculation PBCH-06Q-301, Revision 1, “Containment Penetration Fatigue Evaluation,” November 11, 2003
- Attachment 16 Westinghouse WCAP-14439-NP, Revision 4, “Technical Justification for Eliminating Large Primary Loop Pipe Rupture as the Structural Design Basis for the Point Beach Nuclear Plant Units 1 and 2 for the Subsequent License Renewal Program (80 Years),” June 2020
- Attachment 17 Westinghouse LTR-SDA-II-20-06, Revision 1, “Leak-Before-Break Reconciliation of the Point Beach Units 1 and 2 Pressurizer Surge Line, Residual Heat Removal Line, and Accumulator Line Piping Systems for the Subsequent License Renewal Program,” May 4, 2020
- Attachment 18 Westinghouse LTR-PAFM-05-58-NP, Revision 3, “Flaw Tolerance Evaluation for Susceptible Reactor Coolant Loop Cast Austenitic Stainless Steel Piping Components in Point Beach Units 1 and 2 for 80 years,” July 2020
- Attachment 19 Westinghouse LTR-SDA-20-020-NP, Revision 1, “Point Beach Units 1 and 2 Reactor Coolant Pump Casings ASME Code Case N-481 Analysis for 80-year Subsequent License Renewal (SLR),” July 2020
- Attachment 20 Westinghouse LTR-AMLR-20-26-NP, Revision 1, “Transmittal of Results from the MRP-191 Revision 2 Review in Support of Subsequent License Renewal for Point Beach Units 1 and 2,” June 11, 2020

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Attachment 21 Westinghouse LTR-REA-20-29-NP, Revision 0,
“Comparison of Point Beach Unit 1 Reactor Internals
Fluence Values to the Representative 3-Loop Plant for
MRP-191, Revision 2”, July 7, 2020

Enclosure 5 10 CFR 2.390 Withheld Proprietary Documents

Note: The attachments for Enclosure 5 are split between OSM 2 and OSM 3 as shown on each OSM index. Below is the combined list of Enclosure 5 attachments and the OSM that contains them.

Attachment 1 Point Beach Nuclear Plant Units 1 and 2 Subsequent License Renewal Application (SLRA) Table 4.3.4-1 Sentinel Locations (OSM 2)

NOTE: These proprietary pages replace pages 4.3-20, 4.3-21 and 4.3-22 of Enclosure 3.

Attachment 2 WCAP-18554-P, Revision 1, “Fracture Mechanics Assessment of Reactor Pressure Vessel Structural Steel Supports for Point Beach Units 1 and 2,” September 2020 (OSM 3)

Attachment 3 Framatome Topical Report BAW-2192, Revision 0, Supplement 3P, Revision 0, “Low Upper-Shelf Toughness Fracture Mechanics Analysis of Reactor Vessels of B&W Owners Reactor Vessel Working Group for Levels A & B Service Loads,” October 2020 (OSM 2)

Attachment 4 Framatome Topical Report BAW-2178, Revision 0, Supplement 2P, Revision 0, “Low Upper-Shelf Toughness Fracture Mechanics Analysis of Reactor Vessels of B&W Owners Reactor Vessel Working Group for Levels C & D Service Loads,” October 2020 (OSM 2)

Attachment 5 Framatome Technical Report ANP-3886P, Revision 0, PWROG-20043-P, “PWROG – PBN Unit 1 IS Plate A9811-1 Equivalent Margins Analysis for SLR,” October 2020 (OSM 2)

Attachment 6 Westinghouse LTR-SDA-II-20-05-P, Revision 2, “Environmentally Assisted Fatigue Screening Results for Point Beach Unit 1 and Unit 2 Safety Class 1 Primary Equipment,” June 30, 2020 (OSM 3)

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- Attachment 7 Westinghouse LTR-SDA-II-20-08-P, Revision 1, "Environmentally Assisted Fatigue Evaluation Results for the Point Beach Unit 1 and Unit 2 Primary Equipment Sentinel Locations for Subsequent License Renewal," July 15, 2020 (OSM 3)
- Attachment 8 Westinghouse LTR-SDA-II-20-13-P, Revision 2, "Environmentally Assisted Fatigue Evaluation Results for the Point Beach Unit 1 and Unit 2 Pressurizer Lower Head for Subsequent License Renewal," September 23, 2020 (OSM 3)
- Attachment 9 Structural Integrity Associates, Inc. File No. 2000088.310P – PROPRIETARY, Revision 1, "EAF Refined Analyses (Charging Nozzle, Hot Leg Surge Nozzle, SI Nozzle, SI/RHR Tee)," August 14, 2020 (OSM 2)
- Attachment 10 Westinghouse LTR-SDA-20-064-P, Revision 1, "ASME Section XI Appendix L Evaluation Results for the Point Beach Units 1 and 2 Pressurizer Spray Nozzles," October 7, 2020 (OSM 3)
- Attachment 11 Westinghouse WCAP-14439-P, Revision 4, "Technical Justification for Eliminating Large Primary Loop Pipe Rupture as the Structural Design Basis for the Point Beach Nuclear Plant Units 1 and 2 for the Subsequent License Renewal Program (80 Years)," June 2020 (OSM 3)
- Attachment 12 Westinghouse LTR-PAFM-05-58-P, Revision 3, "Flaw Tolerance Evaluation for Susceptible Reactor Coolant Loop Cast Austenitic Stainless Steel Piping Components in Point Beach Units 1 and 2 for 80 years," July 2020 (OSM 3)
- Attachment 13 Westinghouse LTR-SDA-20-020-P, Revision 1, "Point Beach Units 1 and 2 Reactor Coolant Pump Casings ASME Code Case N-481 Analysis for 80-year Subsequent License Renewal (SLR)," July 2020 (OSM 3)
- Attachment 14 Westinghouse LTR-REA-20-29-P, Revision 0, "Comparison of Point Beach Unit 1 Reactor Internals Fluence Values to the Representative 3-Loop Plant for MRP-191, Revision 2," July 7, 2020 (OSM 3)