



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, DC 20555 - 0001

October 31, 2016

Administrative Judge  
Lawrence G. McDade, Chair  
Atomic Safety and Licensing Board Panel  
Mail Stop T-3 F23  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555-0001

Administrative Judge  
Dr. Richard E. Wardwell  
Atomic Safety and Licensing Board Panel  
Mail Stop T-3 F23  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555-0001

Administrative Judge  
Michael F. Kennedy  
Atomic Safety and Licensing Board Panel  
Mail Stop T-3 F23  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555-0001

In the Matter of  
ENTERGY NUCLEAR OPERATIONS, INC.  
(Indian Point Nuclear Generating Units 2 and 3)  
Docket Nos. 50-247-LR and 50-286-LR

Dear Administrative Judges:

Pursuant to the Atomic Safety and Licensing Board's December 18, 2008, "Memorandum and Order (Addressing Requests that the Proceeding be Conducted Pursuant to Subpart G)," slip op. at 13, the Licensing Board's "Order (Granting Consent Motion Regarding Mandatory Disclosures)," dated January 30, 2009, at 1, the staff of the U.S. Nuclear Regulatory Commission ("Staff") herein notifies the Licensing Board and the parties that the hearing file has been supplemented for this proceeding. Materials in the hearing file may be accessed through the Agencywide Documents Access and Management System ("ADAMS"). An index containing the ADAMS accession number, date, and title or description of each item in Hearing File Index, Supplement 93 is appended hereto as Attachment 1.

On or about November 14, 2016, the documents identified in the hearing file may be accessed through ADAMS or through the Electronic Hearing Docket ("EHD"), which may be accessed at <http://adams.nrc.gov/ehd/>. The hearing file will be contained in the "Staff Discovery Materials" tab of the EHD, in a sub-folder entitled, "Indian PT Hearing File, Update 93" in the "Indian\_PT\_2&3\_50-247&50-286-LR" folder.

In addition, as required by 10 C.F.R. § 2.336(b)(5), the Staff is producing a privilege log, identifying documents withheld under the deliberative process; appended hereto as Attachment 2. Also attached is the Declaration of Jane E. Marshall formally invoking the deliberative process privilege with respect to the documents in Attachment 2. The Staff will preserve and

Judge McDade  
Judge Kennedy  
Judge Wardwell

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maintain the privileged documents identified in these logs during the pendency of this proceeding.

Further, pursuant to 10 C.F.R. § 2.336(c), attached is the Affidavit of Michael J. Wentzel, certifying that all relevant materials required by this section have been disclosed, and that the disclosures are accurate and complete as to documents identified by October 17, 2016.

Finally, the NRC Staff notes that it has made a good faith effort to identify and characterize all documents meeting the criteria of 10 C.F.R. § 2.336(b) and 10 C.F.R. § 2.1203 in this proceeding. In identifying these documents, the Staff does not concede their relevance to the license renewal issues to be decided in this proceeding.

Sincerely,

**/Signed (electronically) by/**  
Vinh Hoang  
Counsel for NRC Staff

Enclosures: Attachment 1 - Hearing File Index, Supplement 93  
Attachment 2 - Deliberative Process Privilege Log  
Declaration of Jane E. Marshall  
Affidavit of Michael J. Wentzel

cc w/Encls.: Service List

Attachment 1 - Indian Point License Renewal Hearing File Index  
Supplement 93 – October 31, 2016

ID#	Accession Number	Document Date	Title
93-1	ML16033A342	02/01/2016	Indian Point Nuclear Generating - Problem Identification and Resolution Inspection Report 05000247/2015012 and 05000286/2015012.
93-2	ML16243A245	08/30/2016	Indian Point Nuclear Generating - Integrated Inspection Report 05000247/2016002 and 05000286/2016002, April 1, 2016, through June 30, 2016.
93-3	ML16231A140	09/07/2016	OEDO-16-00411: Acknowledgement Letter for Petitioner Lochbaum Concerning the Reactor Vessel Baffle-Former Bolt Degradation Identified During the Spring 2016 Refueling Outage at Indian Point Nuclear Generating Unit 2.
93-4	ML16253A126	09/08/2016	G. Dentel E-mail to W. Corcoran RE: re: UCS bolt assessment of operability.
93-5	ML16232A119	09/12/2016	Request for Additional Information for the Review of the Indian Point Nuclear Generating Units Nos. 2 and 3, License Renewal Application Environmental Review - Severe Accident Mitigation Alternatives (CAC Nos. MD5411 and MD5412).
93-6	ML16265A460	09/21/2016	10/04/2016 Public Meeting with Entergy Nuclear Operations, Inc. Regarding Planned Changes to the Service Water Integrity Program for the Indian Point Nuclear Generating Unit Nos. 2 and 3 (IP2 and IP3) License Renewal Application
93-7	ML16281A486	09/29/2016	Indian Point, Unit 3 - Response to Integrated Inspection Report 05000247/2016002 and 05000286/2016002; Denial of Green Non-Cited Violation 05000286/2016002-02.
93-8	ML16291A604	9/30/2016	2016/09/30 Indian Point LR Hearing – FW: NRC Non-Cited Violations Related to Susceptibility to Baffle Bolt Degradation
93-9	ML16280A548	10/04/2016	Entergy's Agenda for Oct. 4, 2016, Meeting to Discuss Proposed Enhancements to the Service Water Integrity Program for Indian Point Nuclear Generating, Units 2 and 3.
93-10	ML16279A019	10/05/2016	2016/10/05 Indian Point LR Hearing – [External_Sender] RE: Condition Report
93-11	ML16280A450	10/06/2016	2016/10/06 Indian Point LR Hearing – Draft Meeting Summary for the October 4, 2014, Category 1 Public Meeting
93-12	ML16286A004	10/12/2016	2016/10/12 Indian Point LR Hearing - [External_Sender] RE: Draft Meeting Summary for the October 4, 2014, Category 1 Public Meeting
93-13	ML16287A518	10/13/2016	2016/10/13 Indian Point LR Hearing - [External_Sender] RE: RE: Draft Meeting Summary for the October 4, 2014, Category 1 Public Meeting
93-14	ML16287A520	10/13/2016	2016/10/13 Indian Point LR Hearing - RE: RE: RE: Draft Meeting Summary for the October 4, 2014, Category 1 Public Meeting
93-15	ML16291A035	10/14/2016	2016/10/14 Indian Point LR Hearing - [External_Sender] RE: NRC's Request to NMFS for Section 7 Conference - Indian Point
93-16	ML16291A258	10/17/2016	2016/10/17 Indian Point LR Hearing - [External_Sender] Comments
93-17	ML16293A028	10/17/2016	2016/10/17 Indian Point LR Hearing - RE: Comments

Attachment 2 - Indian Point License Renewal Hearing File Index  
Deliberative Process Privilege, Supplement 93 – October 31, 2016

Certain documents otherwise subject to inclusion in the hearing file and mandatory disclosures for this proceeding have been determined by the NRC Staff to contain information subject to withholding from public disclosures as predecisional, deliberative information. Pursuant to 10 C.F.R. § 2.336(b)(5), the Staff is providing this log to identify the following documents, withheld under the "deliberative process" privilege.

ID #	Accession Number	Author Name & Affiliation	Title	Document Date	Document Type	Addressee Name & Affiliation	Comment	Page Count
DPP-93-001	ML16267A046	J. McHale, NRC/RGN-I	2016/06/16 Indian Point LR Hearing - Answers to staffer questions	06/16/2016	Email	M. Ross-Lee, NRC/HQ	Email forwarding attachment for review  [Attachment: Draft Answer to Senate Staff Questions Raised at June 13, 2016 Briefing on Baffle-Former Bolts]	4
DPP-93-002	ML16267A053	J. McHale, NRC/RGN-I	2016/06/16 Indian Point LR Hearing - RE: Followup to Congressional Briefing on Bolts	06/16/2016	Email	N. McNamara, NRC/RGN-I	Internal discussion regarding baffle-former bolts  [Attachment: Draft Answer to Senate Staff Questions Raised at June 13, 2016 Briefing on Baffle-Former Bolts]	4
DPP-93-003	ML16267A045	J. McHale, NRC/RGN-I	2016/07/07 Indian Point LR Hearing - FYI - Westinghouse NSAL on Baffle Bolts	07/07/2016	Email	F. Bower, G. Dentel, M. Gray (Other NRC staff members), NRC/RGN-I	Internal discussion regarding baffle-former bolts  [Attachment: Westinghouse Nuclear Safety Advisory Letter, NSAL-16-1, publically available at ML16222A513]	14

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ID #	Accession Number	Author Name & Affiliation	Title	Document Date	Document Type	Addressee Name & Affiliation	Comment	Page Count
DPP-93-004	ML16267A044	J. McHale, NRC/RGN-I	2016/07/19 Indian Point LR Hearing - RE: BFB NSAL	07/19/2016	Email	E. Davidson, NRC/HQ	Internal discussion regarding baffle-former bolts	3
DPP-93-005	ML16267A043	J. McHale, NRC/RGN-I	2016/07/20 Indian Point LR Hearing - RE: Draft blog post on Salem and Indian Point bolt issue	07/20/2016	Email	F. Bower, N. Sheehan, M. Scott (Other NRC Staff members), NRC/RGN-I	Email forwarding attachment for review  [Attachment: Draft Excerpt Blog Post on Salem and Indian Point Baffle-Former Bolts]	4
DPP-93-006	ML16267A042	J. McHale, NRC/RGN-I	2016/07/22 Indian Point LR Hearing - Latest version of spotlight	07/22/2016	Email	E. Davidson, NRC/HQ	Internal discussion regarding baffle-former bolts  [Attachment: Draft Spotlight on Baffle-Former Bolts]	7
DPP-93-007	ML16291A642	M. King, NRC/HQ	2016/08/18 Indian Point LR Hearing - RE: Baffle Jetting and Baffle Bolts? - a couple more thoughts	08/18/2016	Email	J. Robles-Alcaraz, N. Floyd, NRC/RGN-I	Internal discussion regarding baffle-former bolts  [Attachment: Westinghouse Root Cause Analysis Summary – Krsko Cycle 26 Leaking Fuel Assemblies (CAPS 13-282-C025)]	26
DPP-93-008	ML16267A040	J. McHale, NRC/RGN-I	2016/08/24 Indian Point LR Hearing - RE: RE: Baffle bolts	08/24/2016	Email	D. McIntrye, A. Hiser, R. Tregoning, NRC/HQ	Internal discussion regarding baffle-former bolts	5

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ID #	Accession Number	Author Name & Affiliation	Title	Document Date	Document Type	Addressee Name & Affiliation	Comment	Page Count
DPP-93-009	ML16291A640	M. Gray, NRC/RGN-I	2016/08/30 Indian Point LR Hearing - lic504	08/30/2016	Email	D. Pickett, NRC/HQ	Internal discussion regarding edits to LIC-504  [Attachment: Draft Degredation of Baffle-Former Bolts in Pressurized-Water Reactors – Documentation of Integrated Risk-Informed Decisionmaking Process in Accordance with NRR Office Instruction LIC-504]	42
DPP-93-010	ML16291A639	J. McHale, NRC/RGN-I	2016/09/02 Indian Point LR Hearing - LIC-504 comment resolution	09/02/2016	Email	J. Poehler, NRC/HQ	Internal discussion regarding edits to LIC-504  [Attachment: Draft Degredation of Baffle-Former Bolts in Pressurized-Water Reactors – Documentation of Integrated Risk-Informed Decisionmaking Process in Accordance with NRR Office Instruction LIC-504]	44

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ID #	Accession Number	Author Name & Affiliation	Title	Document Date	Document Type	Addressee Name & Affiliation	Comment	Page Count
DPP-93-011	ML16291A627	D. Pickett, NRC/HQ	2016/09/07 Indian Point LR Hearing - LIC-504 Baffle Former Bolt Evaluation	09/07/2016	Email	G. Dentel, M. Gray, NRC/RGN-I	Internal discussion regarding edits to LIC-504  [Attachment: Draft Degredation of Baffle-Former Bolts in Pressurized-Water Reactors – Documentation of Integrated Risk-Informed Decisionmaking Process in Accordance with NRR Office Instruction LIC-504]	44
DPP-93-012	ML16291A637	J. McHale, NRC/RGN-I	2016/09/08 Indian Point LR Hearing - RE: Senate EPW September - Additional Baffle Bolt QnA.docx	09/08/2016	Email	E. Davidson, J. Poehler, NRC/HQ	Email forwarding attachment for review  [Attachment: Draft Questions and Answers Regarding Senate Environmental and Public Works Hearing]	4

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ID #	Accession Number	Author Name & Affiliation	Title	Document Date	Document Type	Addressee Name & Affiliation	Comment	Page Count
DPP-93-013	ML16291A634	B. Harris, NRC/HQ	2016/09/09 Indian Point LR Hearing - Baffle Bolt Qs (002).docx	09/09/2016	Email	J. Poehler, NRC/HQ	Email forwarding attachment for review  [Attachment: Draft Pre-Hearing Questions and Answers Regarding Senate Environmental and Public Works Hearing]	5
DPP-93-014	ML16291A635	J. McHale, NRC/RGN-I	2016/09/09 Indian Point LR Hearing - FW: ACTION: Additional Baffle Bolt Qs and As	09/09/2016	Email	J. Poehler, NRC/HQ	Email forwarding attachment for review  [Attachment: Draft Pre-Hearing Questions and Answers Regarding Senate Environmental and Public Works Hearing]	5
DPP-93-015	ML16291A636	J. McHale, NRC/RGN-I	2016/09/09 Indian Point LR Hearing - FW: Senate EPW September - Additional Baffle Bolt QnA.docx	09/09/2016	Email	J. Poehler, NRC/HQ	Email forwarding attachment for review  [Attachment: Draft Pre-Hearing Questions and Answers Regarding Senate Environmental and Public Works Hearing]	5



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ID #	Accession Number	Author Name & Affiliation	Title	Document Date	Document Type	Addressee Name & Affiliation	Comment	Page Count
DPP-93-016	ML16263A428	M. Wentzel, NRC/HQ	2016/09/19 Indian Point LR Hearing - Request Branch Chief Review of the Indian Point FSEIS Supplement	09/19/2016	Email	K. Folk, NRC/HQ	Email forwarding attachment for review	2
DPP-93-017	ML16263A304	M. Wentzel, NRC/HQ	2016/09/19 Indian Point LR Hearing - Request OGC Review of the Indian Point Final Second FSEIS Supplement	09/19/2016	Email	S. Turk, NRC/HQ	Email forwarding attachment for review  [Attachment: Draft Indian Point Final Second FSEIS Supplement]  [ALSO WITHHELD UNDER ATTORNEY-CLIENT PRIVILEGE]	420
DPP-93-018	ML16291A628	M. Gray, NRC/RGN-I	2016/09/22 Indian Point LR Hearing - FW: LIC-504 and R1 review - 2 remaining items	09/22/2016	Email	D. Pickett, NRC/HQ	Internal discussion regarding edits to LIC-504  [Attachment: Draft LIC-504 Baffle Former Bolt Evaluation]	8
DPP-93-019	ML16292A696	J. Poehler, NRC/HQ	2016/09/23 Indian Point LR Hearing - FW: LIC-504 and R1 review - 2 remaining items	09/23/2016	Email	J. Poehler, NRC/HQ	Internal discussion regarding edits to LIC-504  [Attachment: Draft LIC-504 Baffle Former Bolt Evaluation]	8

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ID #	Accession Number	Author Name & Affiliation	Title	Document Date	Document Type	Addressee Name & Affiliation	Comment	Page Count
DPP-93-020	ML16292A703	J. Poehler, NRC/HQ	2016/09/23 Indian Point LR Hearing - RE: LIC-504 and R1 review - 2 remaining items	09/23/2016	Email	M. Gray, D. Pickett, NRC/RGN-I	Internal discussion regarding edits to LIC-504	3
DPP-93-021	ML16292A700	J. Poehler, NRC/HQ	2016/09/23 Indian Point LR Hearing - RE: LIC-504 and R1 review - 2 remaining items	09/23/2016	Email	M. Gray, D. Pickett, NRC/RGN-I	Internal discussion regarding edits to LIC-504	3
DPP-93-022	ML16291A624	D. Pickett, NRC/RGN-I	2016/09/23 Indian Point LR Hearing - RE: LIC-504 and R1 review - 2 remaining items	09/23/2016	Email	J. Poehler, NRC/HQ	Internal discussion regarding edits to LIC-504	3
DPP-93-023	ML16292A698	J. Poehler, NRC/HQ	2016/09/23 Indian Point LR Hearing - RE: LIC-504 and R1 review - 2 remaining items	09/23/2016	Email	M. Gray, D. Pickett, NRC/RGN-I	Internal discussion regarding edits to LIC-504	3
DPP-93-024	ML16292A697	J. Poehler, NRC/HQ	2016/09/23 Indian Point LR Hearing - RE: LIC-504 and R1 review - 2 remaining items	09/23/2016	Email	D. Pickett, NRC/RGN-I	Internal discussion regarding edits to LIC-504	3
DPP-93-025	ML16270A404	M. Wentzel, NRC/HQ	2016/09/26 Indian Point LR Hearing - Draft Agenda	09/26/2016	Email	J. Gavula, W. Holston, NRC/HQ	Email forwarding attachment for review  [Attachment: Draft Agenda for Alignment Meeting in Preparation for the October 4, 2016, Public Meeting with Entergy]	3

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ID #	Accession Number	Author Name & Affiliation	Title	Document Date	Document Type	Addressee Name & Affiliation	Comment	Page Count
DPP-93-026	ML16292A691	J. Poehler, NRC/HQ	2016/09/26 Indian Point LR Hearing - FW: LIC-504 Edits to Address R-I Issues	09/26/2016	Email	J. McHale, M. Ross-Lee, S. Laur, NRC/RGN-I	Internal discussion regarding edits to LIC-504  [Attachment: Draft Degredation of Baffle-Former Bolts in Pressurized-Water Reactors – Documentation of Integrated Risk-Informed Decisionmaking Process in Accordance with NRR Office Instruction LIC-504]	47
DPP-93-027	ML16292A693	J. Poehler, NRC/HQ	2016/09/26 Indian Point LR Hearing - LIC-504 Edits to Address R-I Issues	09/26/2016	Email	J. McHale, M. Ross-Lee, S. Laur, NRC/RGN-I	Internal discussion regarding edits to LIC-504  [Attachment: Draft Degredation of Baffle-Former Bolts in Pressurized-Water Reactors – Documentation of Integrated Risk-Informed Decisionmaking Process in Accordance with NRR Office Instruction LIC-504]	46

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<b>ID #</b>	<b>Accession Number</b>	<b>Author Name &amp; Affiliation</b>	<b>Title</b>	<b>Document Date</b>	<b>Document Type</b>	<b>Addressee Name &amp; Affiliation</b>	<b>Comment</b>	<b>Page Count</b>
DPP-93-028	ML16291A622	M. Gray, NRC/RGN-I	2016/09/26 Indian Point LR Hearing - RE: LIC-504 and R1 review - 2 remaining items	09/26/2016	Email	J. Poehler, NRC/HQ	Internal discussion regarding edits to LIC-504	3
DPP-93-029	ML16291A621	S. Laur, NRC/HQ	2016/09/27 Indian Point LR Hearing - RE: LIC-504 Edits to Address R-I Issues	09/27/2016	Email	J. Poehler, J. McHale, M. Ross-Lee, NRC/HQ	Internal discussion regarding edits to LIC-504	3
DPP-93-030	ML16292A690	J. Poehler, NRC/HQ	2016/09/27 Indian Point LR Hearing - RE: LIC-504 Edits to Address R-I Issues	09/27/2016	Email	S. Laur, NRC/HQ	Internal discussion regarding edits to LIC-504	3
DPP-93-031	ML16291A619	R. Hardies, NRC/HQ	2016/09/27 Indian Point LR Hearing - RE: LIC-504 Edits to Address R-I Issues	09/27/2016	Email	J. Poehler, NRC/HQ	Internal discussion regarding edits to LIC-504	3
DPP-93-032	ML16292A688	J. Poehler, NRC/HQ	2016/09/27 Indian Point LR Hearing - RE: LIC-504 Edits to Address R-I Issues	09/27/2016	Email	R. Hardies, NRC/HQ	Internal discussion regarding edits to LIC-504	3

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ID #	Accession Number	Author Name & Affiliation	Title	Document Date	Document Type	Addressee Name & Affiliation	Comment	Page Count
DPP-93-033	ML16272A197	B. Grange, NRC/HQ	2016/09/28 Indian Point LR Hearing - FW: Re: Indian Point request for Sect 7 conference for proposed Atlantic sturgeon critical habitat	09/28/2016	Email	M. Wentzel, NRC/HQ	Internal discussion regarding critical habitat and Indian Point  [Attachment: Evaluation of Impacts to Proposed Critical Habitat for the Atlantic Sturgeon (Acipenser oxyrinchus oxyrinchus), Prepared by B. Grange, DLR, NRC, See ML16250A276 for Attachment]	3
DPP-93-034	ML16250A276	B. Grange, NRC/HQ	Evaluation of Impacts to Proposed Critical Habitat for the Atlantic Sturgeon (Acipenser oxyrinchus oxyrinchus)	09/28/2016	Email Attachment	M. Wentzel, NRC/HQ	[Attachment: Evaluation of Impacts to Proposed Critical Habitat for the Atlantic Sturgeon (Acipenser oxyrinchus oxyrinchus), Prepared by B. Grange, DLR, NRC]	19
DPP-93-035	ML16292A686	J. Poehler, NRC/HQ	2016/09/28 Indian Point LR Hearing - RE: LIC-504 Edits to Address R-I Issues	09/28/2016	Email	D. Pickett, NRC/HQ	Internal discussion regarding edits to LIC-504	3

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ID #	Accession Number	Author Name & Affiliation	Title	Document Date	Document Type	Addressee Name & Affiliation	Comment	Page Count
DPP-93-036	ML16292A687	J. Poehler, NRC/HQ	2016/09/28 Indian Point LR Hearing - RE: LIC-504 Edits to Address R-I Issues	09/28/2016	Email	J. Hickey, NRC/HQ	Internal discussion regarding edits to LIC-504	4
DPP-93-037	ML16291A617	C. Fong, NRC/HQ	2016/09/28 Indian Point LR Hearing - RE: LIC-504 Edits to Address R-I Issues	09/28/2016	Email	J. Poehler, NRC/HQ	Internal discussion regarding edits to LIC-504	3
DPP-93-038	ML16291A618	J. Hickey, NRC/HQ	2016/09/28 Indian Point LR Hearing - RE: LIC-504 Edits to Address R-I Issues	09/28/2016	Email	J. Poehler, J. McHale, M. Ross-Lee (Other NRC Staff members), NRC/HQ	Internal discussion regarding edits to LIC-504	4
DPP-93-039	ML16291A616	D. Pickett, NRC/HQ	2016/09/28 Indian Point LR Hearing - RE: LIC-504 Edits to Address R-I Issues	09/28/2016	Email	J. Poehler, NRC/HQ	Internal discussion regarding edits to LIC-504	3
DPP-93-040	ML16291A615	D. Pickett, NRC/HQ	2016/09/28 Indian Point LR Hearing - RE: LIC-504 Edits to Address R-I Issues	09/28/2016	Email	J. Poehler, NRC/HQ	Internal discussion regarding edits to LIC-504	3
DPP-93-041	ML16291A614	W. Holston, NRC/HQ	2016/09/29 Indian Point LR Hearing - Draft November 2016 NRC Report to ASME - input required	09/29/2016	Email	G. Facco, K. Hoffman, J. Poehler (Other NRC Staff members), NRC/HQ	Email forwarding attachment  [Attachment: Draft NRC Report for ASME Code Meetings, November 2016]	24
DPP-93-042	ML16292A684	J. Poehler, NRC/HQ	2016/09/29 Indian Point LR Hearing - RE: Draft November 2016 NRC Report to ASME - input required	09/29/2016	Email	W. Holston, NRC/HQ	Internal discussion regarding baffle-former bolts  [Attachment: Draft NRC Report for ASME Code Meetings, November 2016]	22

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ID #	Accession Number	Author Name & Affiliation	Title	Document Date	Document Type	Addressee Name & Affiliation	Comment	Page Count
DPP-93-043	ML16274A111	D. Pelton, NRC/RGN-I	2016/09/30 Indian Point LR Hearing - FYI - Entergy Response to Integrated Inspection Report 05000247/2016002 and 05000286/2016002 Denial of Green Non-Cited Violation No. 05000286/2016002-02	09/30/2016	Email	D. Dorman, NRC/RGN-I	Internal discussion regarding baffle-former bolts  [Attachment: NEI Letter, NRC Non-Cited Violations Related to Susceptibility to Baffle Bolt Degradation]	
DPP-93-044	ML16292A682	J. Poehler, NRC/HQ	2016/09/30 Indian Point LR Hearing - RE: [New post] Baffle Bolts: An Update	09/30/2016	Email	M. Ross-Lee, J. McHale, NRC/HQ	Internal discussion regarding baffle-former bolts	4
DPP-93-045	ML16274A113	D. Pelton, NRC/RGN-I	2016/09/30 Indian Point LR Hearing - RE: FYI - Entergy Response to Integrated Inspection Report 05000247/2016002 and 05000286/2016002 Denial of Green Non-Cited Violation No. 05000286/2016002-02	09/30/2016	Email	D. Dorman, NRC/RGN-I	Internal discussion regarding baffle-former bolts	3
DPP-93-046	ML16274A112	D. Dorman, NRC/RGN-I	2016/09/30 Indian Point LR Hearing - RE: FYI - Entergy Response to Integrated Inspection Report 05000247/2016002 and 05000286/2016002 Denial of Green Non-Cited Violation No. 05000286/2016002-02	09/30/2016	Email	D. Pelton, NRC/RGN-I	Internal discussion regarding baffle-former bolts	3

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DPP-93-047	ML16292A683	J. Poehler, NRC/HQ	2016/09/30 Indian Point LR Hearing - RE: LIC-504 Edits to Address R-I Issues	09/30/2016	Email	J. McHale, M. Ross-Lee, S. Laur (Other NRC Staff members), NRC/HQ	Internal discussion regarding edits to LIC-504	3
DPP-93-048	ML16291A609	I. Tseng, NRC/HQ	2016/09/30 Indian Point LR Hearing - RE: LIC-504 Edits to Address R-I Issues	09/30/2016	Email	J. Poehler, NRC/HQ	Internal discussion regarding edits to LIC-504	3



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DPP-93-049	ML16292A453	J. Poehler, NRC/HQ	2016/10/03 Indian Point LR Hearing - Draft Staff Assessment of MRP Interim Guidance on Baffle Former Bolts	10/03/2016	Email	D. Rudland, NRC/HQ	Email forwarding attachment for review  [Attachments: Draft Office of Nuclear Reactor Regulation Staff Assessment, MRP Letter 2016-21, Transmittal of NEI-03-08 "Needed" Interim Guidance regarding Baffle Former Bolt Inspections for Tier 1 Plants as Defined in Westinghouse Nuclear Advisory Letter (NSAL) 16-01, Revision 1; EPRI Letter, Transmittal of NEI-03-08 "Needed" Interim Guidance Regarding Baffle Former Bolt inspections for Tier 1 plants as Defined in Westinghouse NSAL 16-01 [publically vavailable at ML16211A054]; Westinghouse Nuclear Safety Advisory Letter NSAL-16-1	29
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ID #	Accession Number	Author Name & Affiliation	Title	Document Date	Document Type	Addressee Name & Affiliation	Comment	Page Count
							Revision 1, publically available at ML16222A513]	
DPP-93-050	ML16291A606	G. Dentel, NRC/RGN-I	2016/10/03 Indian Point LR Hearing - FW: Baffle bolt NEI and Entergy Letters	10/03/2016	Email	J. Ambrosini, B. Haagensen, C. Newport (Other NRC Staff members), NRC/HQ	Email forwarding attachment  [Attachment: Guidance for Treatment of Operability Issues for Baffle-Former Bolts in Operating Reactors]	5
DPP-93-051	ML16277A348	M. Wentzel, NRC/HQ	2016/10/03 Indian Point LR Hearing - Public Meeting Agenda	10/03/2016	Email	W. Holston, J. Gavula, B. Allik (Other NRC Staff members), NRC/HQ	Email forwarding attachment  [Attachment: Draft Public Meeting with Entergy Nuclear Operations, Inc. (Entergy) Regarding Planned Changes to the Service Water Integrity Program for the Indian Point Nuclear Generating Unit Nos. 2 and 3 (IP2 and IP3) License Renewal Application (LRA)]	3

Attachment 2 - Indian Point License Renewal Hearing File Index  
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ID #	Accession Number	Author Name & Affiliation	Title	Document Date	Document Type	Addressee Name & Affiliation	Comment	Page Count
DPP-93-052	ML16292A466	J. Poehler, NRC/HQ	2016/10/03 Indian Point LR Hearing - RE: LIC-504 Edits to Address R-I Issues	10/03/2016	Email	I. Tseng, NRC/HQ	Internal discussion regarding edits to LIC-504	3
DPP-93-053	ML16291A608	D. Pickett, NRC/HQ	2016/10/03 Indian Point LR Hearing - RE: LIC-504 Edits to Address R-I Issues	10/03/2016	Email	J. Poehler, J. McHale, M. Ross-Lee (Other NRC staff members), NRC/HQ	Internal discussion regarding edits to LIC-504	3
DPP-93-054	ML16292A454	J. Poehler, NRC/HQ	2016/10/03 Indian Point LR Hearing - RE: Request Region I Concurrence on LIC-504 Evaluation RE: Reactor Vessel Baffle-Former Bolts	10/03/2016	Email	D. Pickett, NRC/HQ	Internal discussion regarding edits to LIC-504	2
DPP-93-055	ML16291A596	D. Pickett, NRC/HQ	2016/10/03 Indian Point LR Hearing - Request Region I Concurrence on LIC-504 Evaluation RE: Reactor Vessel Baffle-Former Bolts	10/03/2016	Email	G. Dentel, M. Gray, NRC/RGN-I	Internal discussion regarding edits to LIC-504  [Attachment: Draft Degredation of Baffle-Former Bolts in Pressurized-Water Reactors – Documentation of Integrated Risk-Informed Decisionmaking Process in Accordance with NRR Office Instruction LIC-504]	47

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ID #	Accession Number	Author Name & Affiliation	Title	Document Date	Document Type	Addressee Name & Affiliation	Comment	Page Count
DPP-93-056	ML16291A595	M. Ross-Lee, NRC/HQ	2016/10/04 Indian Point LR Hearing - FW: FYI - Entergy Denial of Indian Point Baffle Bolt NCV	10/04/2016	Email	D. Rudland, J. Poehler, NRC/HQ	Email forwarding attachment for review  [Attachment: Entergy Letter, Response to Integrated Inspection Report 05000247/2016002 and 05000286/2016002 ; Denial of Green Non-Cited Violation 05000286/2016002 -02, publically available at ML16281A486]	16

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ID #	Accession Number	Author Name & Affiliation	Title	Document Date	Document Type	Addressee Name & Affiliation	Comment	Page Count
DPP-93-057	ML16291A592	D. Rudland, NRC/HQ	2016/10/04 Indian Point LR Hearing - RE: Draft Staff Assessment of MRP Interim Guidance on Baffle Former Bolts	10/04/2016	Email	J. Poehler, NRC/HQ	Email forwarding attachment for review  [Attachment: Draft Office of Nuclear Reactor Regulation Staff Assessment, MRP Letter 2016-21, Transmittal of NEI-03-08 "Needed" Interim Guidance regarding Baffle Former Bolt Inspections for Tier 1 Plants as Defined in Westinghouse Nuclear Advisory Letter (NSAL) 16-01, Revision 1]	14
DPP-93-058	ML16291A594	S. Laur, NRC/HQ	2016/10/04 Indian Point LR Hearing - RE: Request Region I Concurrence on LIC-504 Evaluation RE: Reactor Vessel Baffle-Former Bolts	10/04/2016	Email	D. Pickett, G. Dentel, M. Gray, NRC/RGN-I	Internal discussion regarding edits to LIC-504	3

Attachment 2 - Indian Point License Renewal Hearing File Index  
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ID #	Accession Number	Author Name & Affiliation	Title	Document Date	Document Type	Addressee Name & Affiliation	Comment	Page Count
DPP-93-059	ML16279A355	M. Wentzel, NRC/HQ	2016/10/05 Indian Point LR Hearing - Draft Meeting Summary	10/05/2016	Email	J. Gavula, W. Holston, B. Allik, NRC/HQ	Email forwarding attachment for review  [Attachment: Draft Public Meeting with Entergy Nuclear Operations, Inc. (Entergy) Regarding Planned Changes to the Service Water Integrity Program for the Indian Point Nuclear Generating Unit Nos. 2 and 3 (IP2 and IP3) License Renewal Application (LRA)]	8
DPP-93-060	ML16292A036	J. Poehler, NRC/HQ	2016/10/05 Indian Point LR Hearing - FW: Request Region I Concurrence on LIC-504 Evaluation RE: Reactor Vessel Baffle-Former Bolts	10/05/2016	Email	D. Rudland, NRC/HQ	Internal discussion regarding edits to LIC-504  [Attachment: Draft Degredation of Baffle-Former Bolts in Pressurized-Water Reactors – Documentation of Integrated Risk-Informed Decisionmaking Process in Accordance with NRR Office Instruction LIC-504]	47

Attachment 2 - Indian Point License Renewal Hearing File Index  
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ID #	Accession Number	Author Name & Affiliation	Title	Document Date	Document Type	Addressee Name & Affiliation	Comment	Page Count
DPP-93-061	ML16291A588	M. Ross-Lee, NRC/HQ	2016/10/05 Indian Point LR Hearing - FW: Request Region I Concurrence on LIC-504 Evaluation RE: Reactor Vessel Baffle-Former Bolts	10/05/2016	Email	D. Pickett, J. Poehler, D. Rudland (Other NRC Staff members), NRC/HQ	Internal discussion regarding edits to LIC-504  [Attachment: Draft Degredation of Baffle-Former Bolts in Pressurized-Water Reactors – Documentation of Integrated Risk-Informed Decisionmaking Process in Accordance with NRR Office Instruction LIC-504]	47
DPP-93-062	ML16291A589	D. Pickett, NRC/HQ	2016/10/05 Indian Point LR Hearing - FW: Request Region I Concurrence on LIC-504 Evaluation RE: Reactor Vessel Baffle-Former Bolts	10/05/2016	Email	J. Poehler, S. Laur, C.J. Fong (Other NRC Staff members), NRC/HQ	Internal discussion regarding edits to LIC-504  [Attachment: Draft Degredation of Baffle-Former Bolts in Pressurized-Water Reactors – Documentation of Integrated Risk-Informed Decisionmaking Process in Accordance with NRR Office Instruction LIC-504]	47

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ID #	Accession Number	Author Name & Affiliation	Title	Document Date	Document Type	Addressee Name & Affiliation	Comment	Page Count
DPP-93-063	ML16279A495	M. Wentzel, NRC/HQ	2016/10/05 Indian Point LR Hearing - Indian Point Safety Letters	10/05/2016	Email	W. Burton, NRC/HQ	Internal discussion regarding Indian Point License Renewal  [Attachment: Excel Sheet of Indian Point Letters re: SER supplement 2]	4
DPP-93-064	ML16279A522	J. Gavula, NRC/HQ	2016/10/05 Indian Point LR Hearing - IP Public Meeting - Followup information	10/05/2016	Email	W. Holston, M. Wentzel, NRC/HQ	Internal discussion regarding service water piping leaks	2
DPP-93-065	ML16292A039	J. Poehler, NRC/HQ	2016/10/05 Indian Point LR Hearing - RE: Draft Staff Assessment of MRP Interim Guidance on Baffle Former Bolts	10/05/2016	Email	D. Rudland, NRC/HQ	Email forwarding attachment  [Attachment: Draft Staff Assessment of MRP Interim Guidance on Baffle Former Bolts]	14
DPP-93-066	ML16292A038	J. Poehler, NRC/HQ	2016/10/05 Indian Point LR Hearing - RE: Draft Staff Assessment of MRP Interim Guidance on Baffle Former Bolts	10/05/2016	Email	D. Rudland, NRC/HQ	Internal discussion regarding edits to Staff Assessment of MRP Interim Guidance on Baffle Former Bolts	3
DPP-93-067	ML16291A590	D. Rudland, NRC/HQ	2016/10/05 Indian Point LR Hearing - RE: Draft Staff Assessment of MRP Interim Guidance on Baffle Former Bolts	10/05/2016	Email	J. Poehler, NRC/HQ	Internal discussion regarding edits to Staff Assessment of MRP Interim Guidance on Baffle Former Bolts	3



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ID #	Accession Number	Author Name & Affiliation	Title	Document Date	Document Type	Addressee Name & Affiliation	Comment	Page Count
DPP-93-068	ML16292A035	J. Poehler, NRC/HQ	2016/10/05 Indian Point LR Hearing - RE: Request Region I Concurrence on LIC-504 Evaluation RE: Reactor Vessel Baffle-Former Bolts	10/05/2016	Email	D. Pickett, NRC/HQ	Internal discussion regarding edits to LIC-504	3
DPP-93-069	ML16280A627	J. Gavula, NRC/HQ	2016/10/06 Indian Point LR Hearing - RE: IP Meeting Summary - Question	10/06/2016	Email	W. Holston, NRC/HQ	Internal discussion regarding Indian Point service water piping meeting	3
DPP-93-070	ML16280A023	M. Wentzel, NRC/HQ	2016/10/06 Indian Point LR Hearing - RE: IP Public Meeting - Followup information	10/06/2016	Email	J. Gavula, W. Holston, NRC/HQ	Internal discussion regarding Indian Point service water piping meeting	3
DPP-93-071	ML16280A572	J. Gavula, NRC/HQ	2016/10/06 Indian Point LR Hearing - RE: Public meeting with IP	10/06/2016	Email	D. Morey, NRC/HQ	Internal discussion regarding Indian Point service water piping meeting	2
DPP-93-072	ML16280A348	J. Gavula, NRC/HQ	2016/10/06 Indian Point LR Hearing - Summary of 10-4-16 Mtg - Indian Point SWI program wch comments - JG	10/06/2016	Email	M. Wentzel, NRC/HQ	Internal discussion regarding Indian Point Indian Point service water piping meeting  [Attachment: Draft Summary of Public Meeting with Entergy regarding Indian Point License Renewal Application]	8
DPP-93-073	ML16292A020	J. Poehler, NRC/HQ	2016/10/07 Indian Point LR Hearing - RE: Revision to LIC-504 Evaluation	10/07/2016	Email	D. Pickett, S. Laur, NRC/HQ	Internal discussion regarding edits to LIC-504	2

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ID #	Accession Number	Author Name & Affiliation	Title	Document Date	Document Type	Addressee Name & Affiliation	Comment	Page Count
DPP-93-074	ML16291A578	S. Laur, NRC/HQ	2016/10/07 Indian Point LR Hearing - RE: Revision to LIC-504 Evaluation	10/07/2016	Email	J. Poehler, D. Pickett, NRC/HQ	Internal discussion regarding edits to LIC-504	3
DPP-93-075	ML16291A579	D. Pickett, NRC/HQ	2016/10/07 Indian Point LR Hearing - Revision to LIC-504 Evaluation	10/07/2016	Email	J. Poehler, S. Laur, NRC/HQ	Internal discussion regarding edits to LIC-504	2
DPP-93-076	ML16292A017	J. Poehler, NRC/HQ	2016/10/11 Indian Point LR Hearing - RE: baffle bolts	10/11/2016	Email	C. Brown, NRC/HQ	Internal discussion regarding baffle-former bolts  [Attachments: Entergy Letter to NRC, Licensee Event Report# 2016-004-00, "Unanalyzed Condition due to Degraded Reactor Baffle..:Former Bolts", NL-16- 053, publically available at ML16159A219; PSEG Letter to NRC, LER 272/2016-001-000, Unanalyzed Condition due to Degraded Reactor Baffle to Former Bolts, publically available at ML16187A330]	14

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ID #	Accession Number	Author Name & Affiliation	Title	Document Date	Document Type	Addressee Name & Affiliation	Comment	Page Count
DPP-93-077	ML16286A028	W. Holston, NRC/HQ	2016/10/12 Indian Point LR Hearing - RE: Entergy's Proposed Edits to the October 4 Public Meeting Summary	10/12/2016	Email	M. Wentzel, J. Gavula, NRC/HQ	Email forwarding attachment for review  [Attachment: Draft Summary of Public Meeting with Entergy Regarding Planned Changes to the Service Water Integrity Program for the Indian Point License Renewal Application (LRA)]	8
DPP-93-078	ML16286A672	J. Gavula, NRC/HQ	2016/10/12 Indian Point LR Hearing - RE: Entergy's Proposed Edits to the October 4 Public Meeting Summary	10/12/2016	Email	M. Wentzel, NRC/HQ	Email forwarding attachment for review  [Attachment: Draft Summary of Public Meeting with Entergy Regarding Planned Changes to the Service Water Integrity Program for the Indian Point License Renewal Application (LRA)]	8

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ID #	Accession Number	Author Name & Affiliation	Title	Document Date	Document Type	Addressee Name & Affiliation	Comment	Page Count
DPP-93-079	ML16292A012	J. Poehler, NRC/HQ	2016/10/13 Indian Point LR Hearing - Documents for Poster	10/13/2016	Email	A. Young, NRC/HQ	E-mail message forwarding draft LIC-504, draft summary of industry operating experience (proprietary), draft assessment of MRP-2016-022, draft presentation outline, and two publically available reports (NSAL-16-1 Rev. 1 Westinghouse Nuclear Safety Advisory Letter, ML16223A563; and MRP-2016-022, EPRI MRP Interim Guidance on Baffle-former Bolt Inspections, ML16210A006])  [Attachments: As stated]  [ALSO WITHHELD AS PROPRIETARY]	90

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ID #	Accession Number	Author Name & Affiliation	Title	Document Date	Document Type	Addressee Name & Affiliation	Comment	Page Count
DPP-93-080	ML16292A013	J. Poehler, NRC/HQ	2016/10/13 Indian Point LR Hearing - More Documents for Poster	10/13/2016	Email	A. Young, NRC/NRR	E-mail message forwarding Licensee Event Report for IP2 (Entergy letter of 05/31/16, NL-16-053, publically available at ML16152B002; Licensee Event Report for Salem 1, PSEG letter of 07/05/16, LR-N16-0126, publically available at ML16187A330); Presentation on Baffle Bolts from NRC/NRR/DE meeting (some proprietary); WCAP-15270 (proprietary); and WCAP-15030-NP (non-proprietary, publically available at ML15222A882)  Attachments: As stated  [ALSO WITHHELD AS PROPRIETARY]	375

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ID #	Accession Number	Author Name & Affiliation	Title	Document Date	Document Type	Addressee Name & Affiliation	Comment	Page Count
DPP-93-081	ML16291A340	M. Wentzel, NRC/HQ	2016/10/17 Indian Point LR Hearing - Baffle Bolt Testing	10/17/2016	Email	A. Hiser, J. Poehler, NRC/HQ	Internal discussion regarding baffle-former bolts  [Attachment: Entergy Notification Re – Baffle Bolt Testing.pdf (Letter from P. Bessette, Morgan Lewis, to the ASLB, 10/14/2016, Licensing Board Notification Regarding Status of Hot Cell Testing of Indian Point Unit 2 Baffle-Former Bolts)]	5

Attachment 2 - Indian Point License Renewal Hearing File Index  
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ID #	Accession Number	Author Name & Affiliation	Title	Document Date	Document Type	Addressee Name & Affiliation	Comment	Page Count
DPP-93-082	ML16291A335	B. Grange, NRC/HQ	2016/10/17 Indian Point LR Hearing - Letter from Goodwin Proctor re: Indian Point Atlantic sturgeon conference with NMFS	10/17/2016	Email	K. Folk, NRC/HQ	Internal discussion regarding critical habitat and Indian Point  [Attachment: Evaluation of Impacts to Proposed Critical Habitat for the Atlantic Sturgeon ( <i>Acipenser oxyrinchus oxyrinchus</i> ), Prepared by B. Grange, DLR, NRC, See ML16250A276 for Attachment]	2

October 31, 2016

UNITED STATES OF AMERICA  
NUCLEAR REGULATORY COMMISSION

BEFORE THE ATOMIC SAFETY AND LICENSING BOARD

In the Matter of )  
 )  
ENTERGY NUCLEAR OPERATIONS, INC. ) Docket Nos. 50-247-LR, 50-286-LR  
 )  
 )  
(Indian Point Nuclear Generating )  
Units 2 and 3) )

AFFIDAVIT OF MICHAEL J. WENTZEL CONCERNING  
MANDATORY DISCLOSURE REQUIREMENT OF 10 C.F.R. § 2.336(b)

I, Michael J. Wentzel, do hereby state as follows:

1. I am employed as a Project Manager in the U.S. Nuclear Regulatory Commission's (NRC) Nuclear Reactor Regulation. I currently serve as a project manager for the Indian Point Nuclear Generating Units 2 and 3 license renewal application ("LRA"). Among my other duties as project manager, since September 2014, I have been assisting with the preparation of the hearing file and mandatory disclosures in connection with the LRA at issue in this proceeding.

2. I hereby certify that all relevant materials required to be disclosed pursuant to 10 C.F.R. § 2.336 (b) and (c) in the captioned proceeding have been disclosed, and that the disclosures are accurate and complete for documents identified as of October 17, 2016.

3. I declare under penalty of perjury that the foregoing is true and correct to the best of my knowledge, information and belief.

**Executed in Accord with 10 CFR 2.304(d)**

Michael J. Wentzel

Executed in Rockville, Maryland  
this 31st day of October, 2016



October 31, 2016

UNITED STATES OF AMERICA  
NUCLEAR REGULATORY COMMISSION

BEFORE THE ATOMIC SAFETY AND LICENSING BOARD

In the Matter of )  
 )  
ENTERGY NUCLEAR OPERATIONS, INC. ) Docket Nos. 50-247-LR, 50-286-LR  
 )  
 )  
(Indian Point Nuclear Generating Units 2 and 3) )

DECLARATION OF JANE E. MARSHALL

I, Jane E. Marshall, do hereby state as follows:

1. I am employed as the Acting Director of the Division of License Renewal (DLR) in the U.S. Nuclear Regulatory Commission's (NRC) Office of Nuclear Reactor Regulation (NRR). My supervisory responsibilities include oversight of the NRC Staff's review and evaluation of the Indian Point Nuclear Generating Units 2 and 3 license renewal application.

2. As part of their responsibilities in updating the hearing file and mandatory disclosures for these proceedings, NRC staff members under my supervision identified documents as privileged because they contained information concerning the Staff's pre-decisional deliberative process. The documents are listed in Attachment 2 to the submission of the Staff's Hearing File Index Supplement 93.

3. I have personally reviewed the documents identified as privileged in Attachment 2, and have determined, in accordance with the guidance set forth in Management Directive 3.4, that they contain pre-decisional information concerning the Staff's review of the license renewal application. The documents contain either the Staff's analyses, recommendations, opinions, or evaluations, and may not necessarily reflect the final agency

position with respect to the matters discussed therein. The documents comprise part of the deliberative process necessary for the Staff's review of the pending license renewal application.

4. Further, I have determined that disclosure of the documents could result in harm to the agency, in that it would (a) prematurely disclose the preliminary views of individual Staff members and/or the Staff prior to reaching a final agency decision, and could thus create confusion as to the actual policy or views of the NRC Staff; (b) hinder the efficiency of the Staff, in that forced disclosure of its internal discussions on an unresolved issue would tend to chill all future deliberations and would interfere with the Staff's ability to engage in a free exchange of opinions and analyses prior to publishing its final review documents; and (c) imply or suggest incorrectly that the opinions of the Staff members involved in these communications are actually the final decisions of the agency, while no such final decision has yet been made.

5. Accordingly, I formally invoke the deliberative process privilege with respect to the documents listed in Attachment 2 to the submission of the Staff's Hearing File Index Supplement 93.

6. I declare under penalty of perjury that the foregoing is true and correct to the best of my knowledge, information and belief.

**Executed in Accord with 10 CFR 2.304(d)**

Jane E. Marshall

Executed in Rockville, Maryland  
this 31st day of October, 2016

UNITED STATES OF AMERICA  
NUCLEAR REGULATORY COMMISSION

BEFORE THE ATOMIC SAFETY AND LICENSING BOARD

In the Matter of )  
 )  
ENTERGY NUCLEAR OPERATIONS, INC. ) Docket Nos. 50-247-LR, 50-286-LR  
 )  
(Indian Point Nuclear Generating )  
Units 2 and 3) )

CERTIFICATE OF SERVICE

Pursuant to 10 C.F.R § 2.305 (revised), I hereby certify that copies of the foregoing Letter to the Atomic Safety and Licensing Board regarding the Indian Point Hearing File, including: Attachment 1 - Indian Point License Renewal Hearing File Index Supplement 93; Attachment 2 – Indian Point License Renewal Hearing File Index Supplement 93 – Deliberative Process Privilege; Declaration of Jane E. Marshall, dated October 31, 2016; and Affidavit of Michael J. Wentzel, dated October 31, 2016, in the above-captioned proceeding have been served upon the Electronic Information Exchange, the NRC’s E-Filing System, this 31st day of October, 2016.

**/Signed (electronically) by/**

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Date of signature: October 31, 2016