

United States Nuclear Regulatory Commission Official Hearing Exhibit

In the Matter of: Entergy Nuclear Operations, Inc.
(Indian Point Nuclear Generating Units 2 and 3)



ASLBP #: 07-858-03-LR-BD01	Identified: 11/16/2015
Docket #: 05000247 05000286	
Exhibit #: ENTR00726-00-BD01	
Admitted: 11/16/2015	
Rejected:	
Other:	Withdrawn:
	Stricken:

ENTR00726
Revised: November 11, 2015

Entergy Nuclear Operations, Inc. (Indian Point Units 2 and 3),

Docket Nos. 50-247-LR and 50-286-LR, ASLBP No. 07-858-03-LR-BD01

Evidentiary Hearing

Entergy (“ENT”) TRACK 2 Hearing Exhibits

Entergy Exhibit #	Track 2 Contentions Addressed by Exhibit	Exhibit Name	Exhibit Submission Date	Admitted During Track 1 Hearing?
ENTR16001	All	Entergy Hearing Exhibit List (“ENT Exhibit List”)	10/29/2015	[Revised]
ENT00015A-B	All	Indian Point Energy Center License Renewal Application (April 2007)	3/28/2012	X
ENTR00031	NYS-26B/RK-TC-1B, NYS-38/RK-TC-5, NYS-25	<i>Curriculum Vitae</i> of Alan B. Cox	8/10/2015	[Revised]
ENT000032	NYS-26B/RK-TC-1B, NYS-38/RK-TC-5, NYS-25	<i>Curriculum Vitae</i> of Nelson F. Azevedo	3/28/2012	X
ENT000041	NYS-38/RK-TC-5	NRC, Audit Report for Plant Aging Management Programs and Reviews (Jan. 13, 2009)	3/28/2012	X

Entergy Exhibit #	Track 2 Contentions Addressed by Exhibit	Exhibit Name	Exhibit Submission Date	Admitted During Track 1 Hearing?
ENT000089	NYS-26B/RK-TC-1B	Declaration of Dr. Joram Hopenfeld in Support of New England Coalition's Motion for Reconsideration (Dec. 15, 2008)	3/28/2012	X
ENT000098	NYS-25	NEI 95-10, Industry Guideline for Implementing the Requirements of 10 CFR Part 54 – The License Renewal Rule, Rev. 6 (June 2005)	3/28/2012	X
ENT000182	NYS-26B/RK-TC-1B	Entergy Statement of Position Regarding Contention NYS-26/RK-TC-1B (Metal Fatigue)	3/29/2012	X
ENT000183	NYS-26B/RK-TC-1B	Testimony of Entergy Witnesses Nelson F. Azevedo, Alan B. Cox, Jack R. Strosnider, Robert E. Nickell, and Mark A. Gray Regarding Contention NYS-26/RK-TC-1B (Metal Fatigue)	3/29/2012	X
ENTR00184	NYS-26B/RK-TC-1B, NYS-38/RK-TC-5, NYS-25	<i>Curriculum Vitae</i> of Jack R. Strosnider	8/10/2015	[Revised]
ENTR00185	NYS-26B/RK-TC-1B, NYS-38/RK-TC-5	<i>Curriculum Vitae</i> of Robert E. Nickell	8/20/2012	[Revised]
ENTR00186	NYS-26B/RK-TC-1B, NYS-38/RK-TC-5, NYS-25	<i>Curriculum Vitae</i> of Mark A. Gray	8/10/2015	[Revised]
ENT000187	NYS-26B/RK-TC-1B	ASTM Vol. 03.01, Metals – Mechanical Testing; Elevated and Low Temperature Tests; Metallography (2005) (excerpted)	3/29/2012	X

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ENT000188	NYS-26B/RK-TC-1B	ASME, Criteria of the ASME Boiler and Pressure Vessel Code for Design by Analysis in Sections III and VIII, Division 2 (1969)	3/29/2012	X
ENT000189	NYS-26B/RK-TC-1B	SAND94-0187, Evaluation of Conservatism and Environmental Effects in ASME Code, Section III, Class 1 Fatigue Analysis (Aug. 1994)	3/29/2012	X
ENT000190	NYS-26B/RK-TC-1B, NYS-38/RK-TC-5	Memorandum from Ashok C. Thadani to William D. Travers, Closeout of Generic Safety Issue 190, Fatigue Evaluation of Metal Components for 60-year Plant Life (Dec. 26, 1999)	3/29/2012	X
ENT000191	NYS-26B/RK-TC-1B	K. R. Rao, Companion Guide to the ASME Boiler & Pressure Vessel Code (3rd ed. 2009) (excerpted)	3/29/2012	X
ENT000192	NYS-26B/RK-TC-1B, NYS-38/RK-TC-5, NYS-25	NRC Regulatory Issue Summary 2011-05, Information on Revision 2 to the Generic Aging Lessons Learned Report for License Renewal of Nuclear Power Plants (July 1, 2011)	3/29/2012	X
ENT000193	NYS-26B/RK-TC-1B, NYS-25	NL-08-092, Letter from Fred R. Dacimo, Entergy, to NRC, Amendment 5 to License Renewal Application (June 11, 2008)	3/29/2012	X
ENT000194	NYS-26B/RK-TC-1B	NL-08-084, Letter from Fred R. Dacimo, Entergy, to NRC, Reply to Request for Additional Information Regarding License Renewal Application – Time-Limited Aging Analyses and Boraflex (May 16, 2008)	3/29/2012	X
ENTR00195	NYS-26B/RK-TC-1B	NUREG-2101, Safety Evaluation Report Related to the License Renewal of Salem Nuclear Generating Station § 4.3 (Jun. 2011) (except)	8/10/2015	[Revised]

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ENT000196	NYS-26B/RK-TC-1B, NYS-38/RK-TC-5	Westinghouse Level 2 Policy/Procedure NSNP 3.2.6, Design Analysis (Mar. 2011) [PROPRIETARY]	3/29/2012	X
ENT000197	NYS-26B/RK-TC-1B, NYS-38/RK-TC-5	Letter from P. Davison, PSEG Nuclear, LLC, to NRC, Close-out of the NRC Audit Associated with Use of WESTEMS™ Related to the Salem Nuclear Generating Station, Units 1 and 2 License Renewal Application (Feb. 24, 2011)	3/29/2012	X
ENT000198	NYS-26B/RK-TC-1B	Letter from Paul Bessette, Entergy, to Janice Dean, NYS, Twenty-Second Update to Disclosures Pursuant to 10 C.F.R. § 2.336; Entergy Nuclear Operations, Inc. (Indian Point Nuclear Generating Units 2 and 3), Docket Nos. 50-247- LR and 50-286-LR (Dec. 1, 2010)	3/29/2012	X
ENT000199	NYS-26B/RK-TC-1B	Westinghouse Calculation Note Number CN-PAFM-09-100, Rev. 0, Indian Point Unit 2 Insurge/Outsurge and Environmental Fatigue Evaluations, (Jun. 10, 2010) [PROPRIETARY]	3/29/2012	X
ENT000200	NYS-26B/RK-TC-1B	Westinghouse Calculation Note Number CN-PAFM-09-63, Rev. 0, Indian Point Unit 2 Pressurizer Insurge/Outsurge Transient Development (June 18, 2010) “) [PROPRIETARY]	3/29/2012	X
ENT000201	NYS-26B/RK-TC-1B	Westinghouse Calculation Note Number CN-PAFM-08-109, Rev. 0, Indian Point Units 2 and 3 Transfer Function Database Development for Hot Leg Surge Nozzle (June 18, 2010) [PROPRIETARY]	3/29/2012	X
ENT000202	NYS-26B/RK-TC-1B	Westinghouse Calculation Note Number CN-PAFM-08-78, Rev. 0, Indian Point Unit 2 and Unit 3: Transfer Function Database Development for Hot Leg Charging Nozzle (June 18, 2010) [PROPRIETARY]	3/29/2012	X

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ENT000203	NYS-26B/RK-TC-1B	Westinghouse Calculation Note Number CN-PAFM-08-116, Rev. 0, Indian Point Unit 2 BIT Nozzle Transfer Function Database Development (June 18, 2010) [PROPRIETARY]	3/29/2012	X
ENT000204	NYS-26B/RK-TC-1B	Westinghouse Calculation Note Number CN-PAFM-08-103, Rev. 0, Indian Point Units 2 and 3 Transfer Function Database Development for Accumulator Nozzles (June 17, 2010) [PROPRIETARY]	3/29/2012	X
ENT000205	NYS-26B/RK-TC-1B	Westinghouse Calculation Note Number CN-PAFM-09-105, Rev. 0, Indian Point Unit 3 Insurge/Outsurge and Environmental Fatigue Evaluations (June 22, 2010) [PROPRIETARY]	3/29/2012	X
ENT000206	NYS-26B/RK-TC-1B	Westinghouse Calculation Note Number CN-PAFM-09-74, Rev. 0, Indian Point Unit 3 Boron Injection Tank Nozzle Environmental Fatigue Evaluations (Jun. 14, 2010) [PROPRIETARY]	3/29/2012	X
ENT000207	NYS-26B/RK-TC-1B	Westinghouse Calculation Note Number CN-PAFM-09-13, Rev. 0, Indian Point Unit 3 BIT Nozzle Transfer Function Database Development (June 18, 2010) [PROPRIETARY]	3/29/2012	X
ENT000208	NYS-26B/RK-TC-1B	F. Kreith, Principles of Heat Transfer (3rd ed. 1973) (excerpted)	3/29/2012	X
ENT000209	NYS-26B/RK-TC-1B	J. P. Holman, Heat Transfer (4th ed. 1976) (excerpted)	3/29/2012	X
ENT000210	NYS-26B/RK-TC-1B	Westinghouse, Systems Standard Design Criteria 1.3.F, Rev. 0, Reactor Coolant System Design Transients for Standard Plants with Model F Steam Generators (July 1978) [PROPRIETARY]	3/29/2012	X
ENT000211	NYS-26B/RK-TC-1B	Westinghouse Memorandum LTR-SSO-03-43, Rev. 1, from NS Systems & Safety Analysis, Design Transient Revisions for Indian Point 2 4.7% Uprate – Revised Figures (Apr. 25, 2003) [PROPRIETARY]	3/29/2012	X

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ENT000212	NYS-26B/RK-TC-1B	Westinghouse Memorandum LTR-SCS-03-53, Rev. 0, from NS Systems & Safety Analysis, Design Transient Revisions for Indian Point 3 Stretch Power Uprate Project – Revised Figures (Aug. 21, 2003) [PROPRIETARY]	3/29/2012	X
ENT000213	NYS-26B/RK-TC-1B	Westinghouse, Systems Standard Design Criteria 1.3.X, Rev. 0, Nuclear Steam Supply System Auxiliary Equipment Design Transients for All Standard Plants (Sept. 1978) [PROPRIETARY]	3/29/2012	X
ENT000214	NYS-26B/RK-TC-1B	EPRI, Materials Reliability Program: Evaluation of Fatigue Data Including Reactor Water Environmental Effects (Dec. 2001)	3/29/2012	X
ENT000215	NYS-26B/RK-TC-1B	W. E. Cooper, The Initial Scope and Intent of the Section III Fatigue Design Procedures, in Pressure Vessel Research Council, Technical Information from Workshop on Cyclic Events in Nuclear Applications, Clearwater Beach, Florida, Vol. 1, (Jan. 20, 1992)	3/29/2012	X
ENT000216	NYS-26B/RK-TC-1B	NUREG-1929, Safety Evaluation Report Related to the License Renewal of Beaver Valley Power Station, Units 1 and 2 (Oct. 2009) (excerpted)	3/29/2012	X
ENT000217	NYS-26B/RK-TC-1B	Westinghouse, WCAP-9693, Investigation of Feedwater Line Cracking in Pressurized Water Reactor Plants (June 1980) [PROPRIETARY] (excerpted)	3/29/2012	X
ENT000218	NYS-26B/RK-TC-1B	Westinghouse Owners Group, WCAP-12639, Pressurizer Surge Line Thermal Stratification Generic Detailed Analysis Program MUHP-1091 Summary Report (June 1990) [PROPRIETARY]	3/29/2012	X
ENT000219	NYS-26B/RK-TC-1B	Westinghouse, WCAP-12937, Structural Evaluation of Indian Point Units 2 and 3 Pressurizer Surge Lines, Considering the Effects of Thermal Stratification (May 1991) [PROPRIETARY]	3/29/2012	X

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ENT000220	NYS-26B/RK-TC-1B	J. D. Burr <i>et al.</i> , PVP2011-57700, Simulation and Evaluation of Thermal Stratification in a Sloped Surge Nozzle Correlated with Plant Measurements (July 2011)	3/29/2012	X
ENT000221	NYS-26B/RK-TC-1B	M. E. Nitzel <i>et al.</i> , Comparison of ASME Code NB-3200 and NB-3600: Results for Fatigue Analysis of B31.1 Branch Nozzles (Apr. 1996)	3/29/2012	X
ENT000222	NYS-26B/RK-TC-1B	Letter from Ekaterina Lenning, NRC, to James A Gresham, Westinghouse, "Westinghouse Electric Company Quality Management System, Revision 6" (Feb. 24, 2011)	3/29/2012	X
ENT000223	NYS-26B/RK-TC-1B	NUREG-1916, Safety Evaluation Report Related to the License Renewal of Shearon Harris Nuclear Power Plant, Unit 1, Vol. 2 (Nov. 2008) (excerpted)	3/29/2012	X
ENT000224	NYS-26B/RK-TC-1B	SECY-95-245, Completion of the Fatigue Action Plan (Sept. 25, 1995)	3/29/2012	X
ENT000225	NYS-26B/RK-TC-1B	NUREG/CR-6815, Review of the Margins for ASME Code Fatigue Design Curve – Effects of Surface Roughness and Material Variability (Sept. 2003)	3/29/2012	X
ENT000226	NYS-26B/RK-TC-1B	Entergy, 0-CY-2310, Rev. 16, Reactor Coolant System Specification and Frequencies (Oct. 2011)	3/29/2012	X
ENT000227	NYS-26B/RK-TC-1B	Westinghouse, WCAP-13588, Operating Strategies for Mitigating Pressurizer Insurge and Outsurge Transients (Mar. 1993) [PROPRIETARY] (excerpted)	3/29/2012	X
ENT000228	NYS-26B/RK-TC-1B	Calculation Note RCDA-03-75, Indian Point Unit 3 Stretch Power Uprate Reactor Vessel Structural Evaluation (May 2005) [PROPRIETARY]	3/29/2012	X

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ENT000229	NYS-26B/RK-TC-1B	Calculation Note RCDA-03-64, Indian Point Unit 2 Stretch Power Uprate Reactor Vessel Evaluation (Feb. 2005) [PROPRIETARY]	3/29/2012	X
ENT000230	NYS-26B/RK-TC-1B, NYS-38/RK-TC-5, NYS-25	Letter from R. Nelson, NRC, to N. Wilmshurst, EPRI, Revision 1 to the Safety Evaluation of Electric Power Research Institute (EPRI) Report, Materials Reliability Program (MRP) Report 1016596 (MRP-227), Revision 0, Pressurized Water Reactor (PWR) Internals Inspection and Evaluation Guidelines (Dec. 16, 2011)	3/29/2012	X
ENT000231	NYS-26B/RK-TC-1B, NYS-25	NL-08-143, Letter from F. Dacimo, Entergy, to NRC, Additional Information (Regarding License Renewal Application – Reactor Vessel Fluence Clarification (Sept. 24, 2008)	3/29/2012	X
ENT000251	NYS-38/RK-TC-5	NRC Inspection Manual Chapter 71003, Post-Approval Site Inspection for License Renewal (Oct. 31, 2008)	3/29/2012	X
ENT000252	NYS-38/RK-TC-5	NRC Inspection Manual, Temporary Instruction 2516/001 (Mar. 30, 2011)	3/29/2012	X
ENT000369	NYS-26B/RK-TC-1B	Entergy Nuclear Vt. Yankee (Vt. Yankee Nuclear Power Station), Docket No. 50-271-LR, Hearing Transcript (Jul. 21, 2008) (excerpted)	3/29/2012	X
ENT000520	NYS-38/RK-TC-5	Entergy Statement of Position Regarding Contention NYS-38/RK-TC-5 (Safety Commitments)	8/20/2012	X
ENT000521	NYS-38/RK-TC-5	Direct Testimony of Entergy Witnesses Nelson F. Azevedo, Robert J. Dolansky, Alan B. Cox, Jack R. Strosnider, Robert E. Nickell, and Mark A. Gray Regarding Contention NYS-38/RK-TC-5 (Safety Commitments)	8/20/2012	X
ENT000522	NYS-38/RK-TC-5, NYS-25	<i>Curriculum Vitae</i> of Robert J. Dolansky	8/20/2012	X

Entergy Exhibit #	Track 2 Contentions Addressed by Exhibit	Exhibit Name	Exhibit Submission Date	Admitted During Track 1 Hearing?
ENT000523	NYS-38/RK-TC-5	EPRI, Report No. 1020988, “Steam Generator Management Program: Phase II Divider Plate Cracking Engineering Study” (Nov. 2010) [PROPRIETARY]	8/20/2012	X
ENT000524	NYS-38/RK-TC-5	EPRI, Report 1025133, Steam Generator Management Program: Assessment of Channel Head Susceptibility to Primary Water Stress Corrosion Cracking (June 2012) [PROPRIETARY]	8/20/2012	X
ENT000525	NYS-38/RK-TC-5	NRC Inspection Manual Chapter 2516 (Feb. 18, 2005)	8/20/2012	X
ENT000526	NYS-38/RK-TC-5	F. D’Annunci and E. Lecour, ICONE18-29457, Inspection of the Steam Generator Divider Plate (May 2010)	8/20/2012	X
ENT000527	NYS-38/RK-TC-5	NRC Information Notice 2005-09, Indications in Thermally Treated Alloy 600 Steam Generator Tubes and Tube-to Tubesheet Welds (Apr. 7, 2005)	8/20/2012	X
ENT000528	NYS-38/RK-TC-5	NUREG-1950, Disposition of Public Comments and Technical Bases for Changes in the License Renewal Guidance Documents NUREG-1801 and NUREG-1800 (Apr. 2011) (excerpted)	8/20/2012	X
ENTR00529	NYS-38/RK-TC-5	Westinghouse Technical Manual No. TMMC 1440-C350, Vertical Steam Generator Instruction for New York Power Authority - Indian Point Nuclear Plant No. 3 (Dec. 1989) [PROPRIETARY] (excerpted)	8/10/2015	[Revised]
ENT000530	NYS-38/RK-TC-5	EPRI, Report 1014982, Divider Plate Cracking in Steam Generators – Results of Phase 1: Analysis of Primary Water Stress Corrosion Cracking and Mechanical Fatigue in the Alloy 600 Stub Runner to Divider Plate Weld Material (June 2007) [PROPRIETARY]	8/20/2012	X
ENT000531	NYS-38/RK-TC-5	ASME Code, Sec. XI, Art. IWA-2000 (2001)	8/20/2012	X
ENT000532	NYS-38/RK-TC-5	ASME Code, Sec. V, Art. 14 (2001)	8/20/2012	X

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ENT000533	NYS-38/RK-TC-5	Memorandum from C. Hunt, NRC to G. Kulesa, NRC, "Summary of the February 16, 2012, Category 2 Public Meeting with the Electric Power Research Institute (EPRI) and Industry to Discuss Steam Generator Issues" (Mar. 15, 2012)	8/20/2012	X
ENT000534	NYS-38/RK-TC-5	NEI 99-04, Guidelines for Managing NRC Commitment Changes (July 1999)	8/20/2012	X
ENT000535	NYS-38/RK-TC-5	NRR Office Instruction, LIC-105, Rev. 3, Managing Regulatory Commitments Made by Licensees to the NRC (Mar. 2009)	8/20/2012	X
ENT000536	NYS-38/RK-TC-5	NUREG-2101, Safety Evaluation Report Related to the License Renewal of Salem Nuclear Generating Station (June 2011) (excerpted)	8/20/2012	X
ENT000537	NYS-38/RK-TC-5	NUREG-1961, Safety Evaluation Report Related to the License Renewal of Palo Verde Nuclear Generating Station, Units 1, 2, and 3 (Apr. 2011) (excerpted)	8/20/2012	X
ENT000538	NYS-38/RK-TC-5	SECY 2000-45, Acceptance of NEI 99-04, "Guidelines for Managing NRC Commitments" (Feb. 22, 2000)	8/20/2012	X
ENT000539	NYS-38/RK-TC-5	NRC Enforcement Manual, Rev. 7 (Oct. 1, 2010) (excerpted)	8/20/2012	X
ENT000540	NYS-38/RK-TC-5	Entergy Nuclear Generation Co. (Pilgrim Nuclear Power Station) Docket No. 50-293, Renewed Facility Operating License (May 9, 2012) (excerpted)	8/20/2012	X
ENT000541	NYS-38/RK-TC-5	EN-LI-110, Commitment Management Program (Jan. 2012)	8/20/2012	X
ENT000542	NYS-38/RK-TC-5	NRC Regulatory Issue Summary 2000-17, Managing Regulatory Commitments Made by Power Reactor Licensees to the NRC Staff (Sept. 21, 2000)	8/20/2012	X

Entergy Exhibit #	Track 2 Contentions Addressed by Exhibit	Exhibit Name	Exhibit Submission Date	Admitted During Track 1 Hearing?
ENT000543	NYS-38/RK-TC-5	Inspection Procedure 71002, License Renewal Inspection (Nov. 2011)	8/20/2012	X
ENT000544	NYS-38/RK-TC-5	Letter from A. Macfarlane, Chairman, NRC, to E. Markey, U.S. Congressman, "Regulatory Commitments" (July 12, 2012)	8/20/2012	X
ENT000545	NYS-38/RK-TC-5	Memorandum from S. Dingbaum, Assistant Inspector Gen. for Audits, NRC, to R. W. Borchardt, Exec. Dir. for Operations, NRC, "Status of Recommendations: Audit of NRC's Management of Licensee Commitments (OIG-11-A-17)" (Apr. 16, 2012)	8/20/2012	X
ENT000546	NYS-38/RK-TC-5	NUREG-1958, Safety Evaluation Report Related to the License Renewal of Kewaunee Power Station (Jan. 2011) (excerpted)	8/20/2012	X
ENT000547	NYS-38/RK-TC-5	EA-12-051, Order Modifying Licenses With Regard to Reliable Spent Fuel Pool Instrumentation (Effective Immediately) (Mar. 12, 2012)	8/20/2012	X
ENT000548	NYS-38/RK-TC-5	Letter from R. Braun, Senior Vice President, PSEG Nuclear LLC, to NRC Document Control Desk, "PSEG Nuclear LLC's Response to March 12, 2012 Commission Order Modifying License with Regard to Reliable Spent Fuel Pool Instrumentation" (Mar. 29, 2012)	8/20/2012	X
ENT000549	NYS-38/RK-TC-5	Letter from R. Conte, NRC, to J. Ventosa, Entergy, "Indian Point Nuclear Generating Unit 2 – NRC Inspection Report 05000247/2012008" (Apr. 19, 2012)	8/20/2012	X
ENT000550	NYS-38/RK-TC-5, NYS-26B/RK-TC-1B	Letter from A. Cunanan, NRC Project Manager, to S.K. Gambhir, Vice President, Energy Northwest, "Request for Additional Information for the Review of the Columbia Generating Station License Renewal Application for Metal Fatigue" (Feb. 3, 2011)	8/20/2012	X
ENT000551	NYS-38/RK-TC-5	Letter from B. Harris, NRC Project Manager, to B. Allen, FENOC, "Request for Additional Information for the Review of the Davis-Besse Nuclear Power Station – Batch 3" (May 2, 2011) (excerpted)	8/20/2012	X

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ENT000552	NYS-38/RK-TC-5	Letter from P. Bessette, Morgan Lewis, to Administrative Judges (May 15, 2012)	8/20/2012	X
ENT000553	NYS-38/RK-TC-5	Entergy, Condition Report LO-LAR-2011-00174, Corrective Actions (Aug. 2011) (excerpted)	8/20/2012	X
ENT000554	NYS-38/RK-TC-5, NYS-26B/RK-TC-1B	NL-12-089, Letter from F. Dacimo, Entergy, to NRC, "Reply to Request for Additional Information Regarding the License Renewal Application Indian Point Nuclear Generating Unit Nos. 2 & 3" (June 14, 2011)	8/20/2012	X
ENT000555	NYS-38/RK-TC-5	B. Gordon, Minimum Chromium Content In Nickel-Alloy Weld Overlays to Mitigate PWSCC (Jan. 18, 2005)	8/20/2012	X
ENT000556	NYS-38/RK-TC-5	F. Delabrouille et al., Effect of the Chromium Content and Strain on the Corrosion of Nickel Based Alloys in Primary Water of Pressurized Water Reactors (2005)	8/20/2012	X
ENT000557	NYS-38/RK-TC-5	EPRI, Report 1014986, Pressurized Water Reactor Primary Water Chemistry Guidelines, Rev. 6 (Dec. 2007) [PROPRIETARY] (excerpted)	8/20/2012	X
ENT000558	NYS-38/RK-TC-5	Letter from J. Daily, Project Manager, NRC, to D. Heacock, President, Dominion Energy Kewaunee, "Request for Additional Information for the Review of the Kewaunee Power Station License Renewal Application" (Mar. 11, 2010)	8/20/2012	X
ENT000559	NYS-38/RK-TC-5	Letter from B. Brady, Project Manager, NRC, to T. Joyce, President, PSEG Nuclear, "Request for Additional Information for Salem Nuclear Generating Stations Units 1 and 2 License Renewal Application" (June 10, 2010)	8/20/2012	X
ENT000560	NYS-38/RK-TC-5	Letter from R. Plasse, Project Manager, NRC, to P. Freeman, Site Vice President, NextEra Energy Seabrook, "Request for Additional Information Related to the Review of the Seabrook Station, License Renewal Application" (Dec. 14, 2010)	8/20/2012	X

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ENT000561	NYS-38/RK-TC-5	Kewaunee Tr., Advisory Comm. on Reactor Safeguards, Plant License Renewal Subcomm. (Aug. 18, 2010) (excerpted)	8/20/2012	X
ENT000562	NYS-38/RK-TC-5	Letter from J. Daily, NRC, to D. Heacock, President, Dominion Energy Kewaunee, Inc., "Request for Additional Information for the Review of the Kewaunee Power Station License Renewal Application (TAC No. MD9408)" (Sept. 10, 2010)	8/20/2012	X
ENT000563	NYS-38/RK-TC-5	Letter from Said Abdel-Khalik, ACRS Chairman, to Jaczko, NRC Chairman, "Report on the Safety Aspects of the License Renewal Application for the Kewaunee Power Station" (Jan. 7, 2011)	8/20/2012	X
ENT000564	NYS-38/RK-TC-5	Final License Renewal Interim Staff Guidance, LR-ISG-2011-05, "Ongoing Review of Operating Experience" (Mar. 9, 2012)	8/20/2012	X
ENT000565	NYS-38/RK-TC-5	Letter from L. Hartz, Vice President, Dominion Energy Kewaunee., to, NRC, "Response to Request for Additional Information for the Review of the Kewaunee Power Station License Renewal Application" (Sept. 23, 2010)	8/20/2012	X
ENT000566	NYS-38/RK-TC-5	Letter from P. Freeman, Site Vice President, NextEra Energy Seabrook, to NRC, "Response to Request for additional Information – Set 10" (Mar. 22, 2011)	8/20/2012	X
ENT000567	NYS-38/RK-TC-5	NL-00-043, Letter from J. Baumstark, Consol. Edison Co. of N.Y., to NRC, "Root Cause Evaluation For Steam Generator Tube Rupture Event of February 15, 2000" (Apr. 14, 2000)	8/20/2012	X
ENT000568	NYS-38/RK-TC-5	EPRI, Report 1019044, Steam Generator Management Program: Improvement Factors for Pressurized Water Reactor Steam Generator Tube Materials (Dec. 2009) [PROPRIETARY] (excerpted)	8/20/2012	X
ENT000569	NYS-38/RK-TC-5	Letter from E. Shields, Westinghouse, to W. Wittich, Entergy, "Steam Generator Operational Assessment" (June 29, 2010) [PROPRIETARY]	8/20/2012	X

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ENT000570	NYS-38/RK-TC-5	WCAP-17091-NP, Rev. 0, H*, Alternate Repair Criteria for the Tubesheet Expansion Region in Steam Generators with Hydraulically Expanded Tubes (Model 44F) (June 2009) (excerpted)	8/20/2012	X
ENT000571	NYS-38/RK-TC-5	Safety Evaluation Related to Amendment No. 308 for Oconee Nuclear Station Units 1, 2 and 3 (Dec. 3, 1999)	8/20/2012	X
ENT000572	NYS-38/RK-TC-5	Letter from A. Cunanan, NRC, to M. Reddemann, Energy Northwest, "Issuance of Renewed Facility Operating License No. NPF-21 for Columbia Generating Station" (May 22, 2012) (ENT000540) (excerpted)	8/20/2012	X
ENT000602	NYS-25, NYS-26B/RK-TC-1B, NYS-38/RK-TC-5	EN-LI-100, Rev. 12, Process Applicability Determination (Nov. 6, 2012)	1/11/2013	X
ENT000603	NYS-25, NYS-26B/RK-TC-1B, NYS-38/RK-TC-5	EN-LI-101, Rev. 9, 10 CFR 50.59 Evaluations (Feb. 16, 2012)	1/11/2013	X
ENT000604	NYS-25, NYS-26B/RK-TC-1B, NYS-38/RK-TC-5	Indian Point Nuclear Generating Units 2 and 3, NRC Evaluation of Changes, Tests or Experiments and Permanent Plant Modifications Team Inspection Report (Jan. 13, 2012)	1/11/2013	X
ENT000615	NYS-25	Entergy's Statement of Position Regarding Contention NYS-25 (Embrittlement) (Aug. 10, 2015)	8/10/2015	

Entergy Exhibit #	Track 2 Contentions Addressed by Exhibit	Exhibit Name	Exhibit Submission Date	Admitted During Track 1 Hearing?
ENT000616	NYS-25, NYS-26B/RK-TC-1B, NYS-38/RK-TC-5	Testimony of Entergy Witnesses Nelson F. Azevedo, Robert J. Dolansky, Alan B. Cox, Jack R. Strosnider, Timothy J. Griesbach, Randy G. Lott, and Mark A. Gray Regarding Contention NYS-25 (Embrittlement) (Aug. 10, 2015)	8/10/2015	
ENT000617	NYS-25, NYS-38/RK-TC-5	<i>Curriculum Vitae</i> of Timothy J. Griesbach	8/10/2015	
ENT000618	NYS-25, NYS-26B/RK-TC-1B, NYS-38/RK-TC-5	<i>Curriculum Vitae</i> of Randy G. Lott	8/10/2015	
ENT000619	NYS-25	NL-08-127, Letter from F. Dacimo, Entergy, to NRC Document Control Desk, "Additional Information Regarding License Renewal Application – Structural OE Clarifications, Clarifications for Electrical RAIs and Audit Questions, License Renewal Application Amendment" (Aug. 14, 2008)	8/10/2015	
ENT000620	NYS-25, NYS-38/RK-TC-5	PWROG Presentation, "Material Orientation Toughness Assessment (MOTA) for the Purpose of Mitigating Branch Technical Position (BTP) 5-3 Uncertainties" (Feb. 19, 2015)	8/10/2015	
ENT000621	NYS-25, NYS-38/RK-TC-5	Westinghouse, WCAP-17894-NP, Rev. 0, Component Inspection Details Supporting Aging Management of Reactor Internals at Indian Point Unit 2 (Sept. 2014)	8/10/2015	
ENT000622	NYS-25, NYS-38/RK-TC-5	Westinghouse, WCAP-17901-NP, Rev. 1, Component Inspection Details Supporting Aging Management of Reactor Internals at Indian Point Unit 3 (Sept. 2014)	8/10/2015	

Entergy Exhibit #	Track 2 Contentions Addressed by Exhibit	Exhibit Name	Exhibit Submission Date	Admitted During Track 1 Hearing?
ENT000623	NYS-25, NYS-38/RK-TC-5	Cases of ASME Boiler and Pressure Vessel Code, Case N-729-1, "Alternative Examination Requirements for PWR Reactor Vessel Upper Heads With Nozzles Having Pressure-Retaining Partial-Penetration Welds," (Section XI, Division 1) (Mar. 28, 2006) [Full-Text Copyright]	8/10/2015	
ENT000624	NYS-25, NYS-38/RK-TC-5	Letter from N. Salgado to Vice President, Operations, Entergy Nuclear Operations, Inc., "Indian Point Nuclear Generating Unit No. 2 – Relief from the Examination Area for Reactor Vessel Head Penetration Nozzles (TAC No. ME1658)" (Mar. 1, 2010)	8/10/2015	
ENT000625	NYS-25, NYS-38/RK-TC-5	Letter from N. Salgado to Vice President, Operations, Entergy Nuclear Operations, Inc., "Indian Point Nuclear Generating Unit No. 3 – Relief Requests RR-3-45 and RR-3-46 for Reactor Vessel Head Penetrations Examination (TAC Nos. ME0411 and ME0412)" (July 8, 2009)	8/10/2015	
ENT000626	NYS-25, NYS-38/RK-TC-5	Letter from P. Milano, NRC, to M. Kansler, Entergy, "Bulletin 2002-01, 'Reactor Pressure Vessel Head Degradation and Reactor Coolant Pressure Boundary Integrity,' 15-Day Response for Indian Pont Nuclear Generating Unit Nos. 2 & 3 (TAC Nos. MB4550 and MB4551)" (Nov. 12, 2002) (ENT-25-0026)	8/10/2015	
ENT000627	NYS-25, NYS-26B/RK-TC-1B, NYS-38/RK-TC-5	G. Was, Fundamentals of Radiation Materials Science: Metals and Alloys; Part III: Mechanical Effects of Radiation Damage (2007) [Full-Text Copyright] [excerpt]	8/10/2015	
ENT000628	NYS-25, NYS-38/RK-TC-5	I. Tylek and K. Kuchta, Mechanical Properties of Structural Stainless Steels, 4-B Technical Transactions, Civil Engineering 59 (2014) [Full-Text Copyright]	8/10/2015	

Entergy Exhibit #	Track 2 Contentions Addressed by Exhibit	Exhibit Name	Exhibit Submission Date	Admitted During Track 1 Hearing?
ENT000629	NYS-25, NYS-38/RK-TC-5	Letter from C. Grimes, NRC, to D. Walters, NEI, "License Renewal Issue No. 98-0030, 'Thermal Aging Embrittlement of Cast Austenitic Stainless Steel Components'" (May 19, 2000)	8/10/2015	
ENT000630	NYS-25, NYS-38/RK-TC-5	W.J. Mills, Effect of Temperature on the Fracture Toughness Behavior of Inconel X-750, in ASTM STP 733: Fractography and Materials Science 98 (L.N. Gilbertson and R.D. Zipp, eds., 1981) [Full-Text Copyright]	8/10/2015	
ENT000631	NYS-25, NYS-26B/RK-TC-1B, NYS-38/RK-TC-5	EPRI, MRP-175, Materials Reliability Program: PWR Internals Material Aging Degradation Mechanism Screening and Threshold Values (Dec. 2005) [Full-Text Copyright]	8/10/2015	
ENT000632	NYS-25, NYS-38/RK-TC-5	ASME Boiler & Pressure Vessel Code, Section III, Article NB-2000, "Material" (1998) [Full-Text Copyright]	8/10/2015	
ENT000633	NYS-25, NYS-38/RK-TC-5	Letter from P. Anderson, Entergy, to NRC Document Control Desk, "Documentation for Pressurized Thermal Shock Evaluation Meeting" (June 2, 2010)	8/10/2015	
ENT000634	NYS-25, NYS-26B/RK-TC-1B, NYS-38/RK-TC-5	Entergy, IP2, FSAR Update, Revision 25 (2014) [excerpts]	8/10/2015	
ENT000635	NYS-25, NYS-38/RK-TC-5	Westinghouse, WCAP-17096-NP, Rev. 2, Reactor Internals Acceptance Criteria Methodology and Data Requirements (Dec. 2009)	8/10/2015	

Entergy Exhibit #	Track 2 Contentions Addressed by Exhibit	Exhibit Name	Exhibit Submission Date	Admitted During Track 1 Hearing?
ENT000636	NYS-25, NYS-26B/RK-TC-1B, NYS-38/RK-TC-5	P. Shahinian et al., NRL Report 7446, Effect of Neutron Irradiation on Fatigue Crack Propagation in Types 304 and 316 Stainless Steels at High Temperature (July 21, 1972)	8/10/2015	
ENT000637	NYS-25, NYS-38/RK-TC-5	NUREG-1874, Recommended Screening Limits for Pressurized Thermal Shock (PTS) (March 2010)	8/10/2015	
ENT00638A-C	NYS-25, NYS-38/RK-TC-5	NUREG-1806, Vol. 1, Technical Basis for Revision of the Pressurized Thermal Shock (PTS) Screening Limit in the PTS Rule (10 CFR 50.61) (Aug. 2007)	8/10/2015	
ENT00639A-F	NYS-25, NYS-26B/RK-TC-1B, NYS-38/RK-TC-5	Westinghouse, WCAP-16156, Indian Point Nuclear Generating Unit No. 2, Stretch Power Uprate NSSS Engineering Report (Mar. 2004) [PROPRIETARY]	8/10/2015	
ENT00640A-I	NYS-25, NYS-26B/RK-TC-1B, NYS-38/RK-TC-5	Westinghouse, WCAP-16211, Power Uprate Project, Indian Point Unit 3 Power Plant, NSSS Engineering Report (June 2004) [PROPRIETARY]	8/10/2015	
ENT000641	NYS-25, NYS-38/RK-TC-5	Final License Renewal Interim Staff Guidance LR-ISG-2011-04, Updated Aging Management Criteria for Reactor Vessel Internal Components for Pressurized Water Reactors (May 28, 2013)	8/10/2015	
ENT00642A-C	NYS-25, NYS-38/RK-TC-5	EPRI, MRP-232, Materials Reliability Program: Aging Management Strategies for Westinghouse and Combustion Engineering PWR Internals (Dec. 2008) [Full-Text Copyright]	8/10/2015	

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ENT000643	NYS-25, NYS-38/RK-TC-5	EPRI, MRP-232, Revision 1, Materials Reliability Program: Aging Management Strategies for Westinghouse and Combustion Engineering PWR Internals (Dec. 2008) [Full-Text Copyright]	8/10/2015	
ENT000644	NYS-25, NYS-38/RK-TC-5	EPRI, MRP-230, Materials Reliability Program: Functionality Analysis for Westinghouse and Combustion Engineering Representative PWR Internals (Oct. 2009) [Full-Text Copyright]	8/10/2015	
ENT000645	NYS-25, NYS-38/RK-TC-5	EPRI, MRP-228, Rev. 1, Materials Reliability Program: Inspection Standard for PWR Internals – 2012 Update (Dec. 2012) [Full-Text Copyright]	8/10/2015	
ENT000646	NYS-25, NYS-26B/RK-TC-1B, NYS-38/RK-TC-5	EPRI, MRP-210, Materials Reliability Program: Fracture Toughness Evaluation of Highly Irradiated PWR Stainless Steel Internal Components (Dec. 2007) [Full-Text Copyright]	8/10/2015	
ENT000647	NYS-25, NYS-38/RK-TC-5	EPRI, MRP-134, Materials Reliability Program: Framework and Strategies for Managing Aging Effects in PWR Internals (June 2005) [Full-Text Copyright]	8/10/2015	
ENT000648	NYS-25, NYS-38/RK-TC-5	M. Mitchell, Chief, Vessels and Internals Integrity Branch, Response to Non-Concurrence Regarding Safety Evaluation for Topical Report MRP-227, “Pressurized Water Reactor Internals Inspection and Evaluation Guidelines” (undated)	8/10/2015	
ENT000649	NYS-25, NYS-38/RK-TC-5	Letter from D. Pelton, NRC, to E. McCartney, NextEra Energy Point Beach, “Point Beach Nuclear Plant, Units 1 and 2 – Staff Assessment of Reactor Vessel Internals Inspection Plan Based on MRP-227-A (TAC Nos. ME8235 and ME8236)” (Mar. 30, 2015)	8/10/2015	

Entergy Exhibit #	Track 2 Contentions Addressed by Exhibit	Exhibit Name	Exhibit Submission Date	Admitted During Track 1 Hearing?
ENT000650	NYS-25, NYS-38/RK- TC-5	G. Gardner, Chair, EPRI Reactor Internals Working Group, Recent Materials Inspections of PWR Reactor Internals (Mar. 2015)	8/10/2015	
ENT000651	NYS-25, NYS-38/RK- TC-5	T. Griesbach and B. Gordon, Materials Aging Management Programs at Nuclear Power Plants in the United States (Oct. 2007) [Full-Text Copyright]	8/10/2015	
ENT000652	NYS-25, NYS-38/RK- TC-5	Letter from P. Milano, NRR, to M. Kansler, Entergy, “Indian Point Nuclear Generating Unit No. 2 - Issuance of Amendment Re: 3.26 Percent Power Uprate (TAC No. MC1865)” (Oct. 27, 2004)	8/10/2015	
ENT000653	NYS-25, NYS-38/RK- TC-5	Letter from P. Milano, NRR, to M. Kansler, Entergy, “Indian Point Nuclear Generating Unit No. 3 - Issuance of Amendment Re: 4.85 Percent Stretch Power Uprate and Relocation of Cycle-Specific Parameters (TAC No. MC3552)” (Mar. 24, 2005)	8/10/2015	
ENT000654	NYS-25, NYS-38/RK- TC-5	Westinghouse, WCAP-15270, Determination of Acceptable Baffle-Barrel-Bolting for Four-Loop Westinghouse Downflow and Converted Upflow Domestic Plants (Nov. 2001) [PROPRIETARY]	8/10/2015	
ENT000655	NYS-25, NYS-38/RK- TC-5	Westinghouse, WCAP-15030-NP-A, Westinghouse Methodology for Evaluating the Acceptability of Baffle-Former-Barrel Bolting Distributions under Faulted Load Conditions (Mar. 2, 1999)	8/10/2015	
ENT000656	NYS-25, NYS-38/RK- TC-5	Westinghouse, Technical Bulletin TB-14-5, Reactor Internals Lower Radial Support Clevis Insert Cap Screw Degradation (Aug. 25, 2014)	8/10/2015	

Entergy Exhibit #	Track 2 Contentions Addressed by Exhibit	Exhibit Name	Exhibit Submission Date	Admitted During Track 1 Hearing?
ENT000657	NYS-25, NYS-38/RK-TC-5	NRC Inspection Manual, Manual Chapter 2516, Policy and Guidance for the License Renewal Inspection Program (“LRIP”) (Aug. 13, 2013)	8/10/2015	
ENT000658	NYS-25, NYS-38/RK-TC-5	J. Smith, Irradiated Materials Testing, Inside MRP (Winter 2012)	8/10/2015	
ENT000659	NYS-25, NYS-26B/RK-TC-1B, NYS-38/RK-TC-5	Letter from R. Kuntz, NRC, to Vice President, Operations, Entergy, “Request for Additional Information for the Review of the Indian Point Nuclear Generating Unit Nos. 2 and 3, License Renewal Application” (May 15, 2012)	8/10/2015	
ENT000660	NYS-25, NYS-38/RK-TC-5	Letter from J. Daly, NRC, to Vice President, Operations, Entergy, “Request for Additional Information for the Review of the Indian Point Nuclear Generating Unit Nos. 2 and 3 License Renewal Application, Set 2013-01 (TAC Nos. MD5407 and MD5408)” (Feb. 6, 2013)	8/10/2015	
ENT000661	NYS-25, NYS-38/RK-TC-5	Letter from K. Green, NRC, to Vice President, Operations, Entergy, “Request for Additional Information for the Review of the Indian Point Nuclear Generating Unit Nos. 2 and 3 License Renewal Application, Set 2013-04 (TAC Nos. MD5407 and MD5408)” (July 26, 2013)	8/10/2015	
ENT000662	NYS-25, NYS-38/RK-TC-5	Letter from K. Green, NRC, to Vice President, Operations, Entergy, “Request for Additional Information for the Review of the Indian Point Nuclear Generating Unit Nos. 2 and 3 License Renewal Application, Set 2014-02 (TAC Nos. MD5407 and MD5408)” (Apr. 9, 2014)	8/10/2015	

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ENT000663	NYS-25, NYS-38/RK-TC-5	Letter from A. McGehee & T. Hanley, EPRI, to NRC Document Control Desk, BWRVIP 2015-025, "Project No. 704 – Summary of Industry Position on Screening Criteria for Thermal and Irradiation Embrittlement for PWR and BWR Reactor Internals Fabricated of Cast Austenitic Stainless Steel" (Mar. 9, 2015)	8/10/2015	
ENT000664	NYS-25, NYS-38/RK-TC-5	Email from J. Holonich, NRC, to K. Amberge, EPRI, et al., "Summary Tables for CASS Position" (Mar. 12, 2014, 1:23 PM)	8/10/2015	
ENT000665	NYS-25, NYS-26B/RK-TC-1B, NYS-38/RK-TC-5	ASME Boiler & Pressure Vessel Code, Section XI, Subsection IWB, "Requirements for Class 1 Components of Light-Water Cooled Plants" (2010) [Full-Text Copyright]	8/10/2015	
ENT00666A-I	NYS-25, NYS-38/RK-TC-5	NUREG/CR-6943, A Study of Remote Visual Methods to Detect Cracking in Reactor Components (Oct. 2007)	8/10/2015	
ENT000667	NYS-25, NYS-38/RK-TC-5	PWROG-14048-P, Rev. 0-A, PWROG, Functionality Analysis: Lower Support Columns (Oct. 2014) [PROPRIETARY]	8/10/2015	
ENT000668	NYS-25, NYS-38/RK-TC-5	EPRI, MRP-219, Rev. 10, Materials Reliability Program: Inspection Data Survey Report (Nov. 2014) [Full-Text Copyright]	8/10/2015	

Entergy Exhibit #	Track 2 Contentions Addressed by Exhibit	Exhibit Name	Exhibit Submission Date	Admitted During Track 1 Hearing?
ENT000669	NYS-25, NYS-26B/RK-TC-1B, NYS-38/RK-TC-5	Regulatory Guide 1.99, Radiation Embrittlement of Reactor Vessel Materials, Revision 2 (May 1988)	8/10/2015	
ENT000670	NYS-25	NL-13-106, Letter from J. Ventosa, Entergy, to NRC Document Control Desk, "Proposed Revision to Reactor Vessel Surveillance Capsule Withdrawal Schedule Per 10 CFR 50 Appendix H" (Aug. 12, 2013)	8/10/2015	
ENT000671	NYS-25	NL-14-129, Letter from J. Ventosa, Entergy, to NRC Document Control Desk, "Proposed Revision to Reactor Vessel Surveillance Capsule Withdrawal Schedule Per 10 CFR 50 Appendix H" (Nov. 5, 2014)	8/10/2015	
ENT000672	NYS-25	Letter from B. Beasley, NRC, to Vice President, Operations, "Indian Point Nuclear Generating Unit No. 2 – Safety Evaluation re: Revision to the Reactor Vessel Surveillance Capsule Withdrawal Schedule per 10 CFR 50 Appendix H (TAC No. MF2558)" (Jan. 14, 2014)	8/10/2015	
ENT000673	NYS-25	Letter from B. Beasley, NRC, to Vice President, Operations, "Indian Point Nuclear Generating Unit No. 3 – Safety Evaluation re: Revision to the Reactor Vessel Surveillance Capsule Withdrawal Schedule per 10 CFR 50 Appendix H (TAC No. MF5148)" (Mar. 4, 2015)	8/10/2015	
ENT000674	NYS-25	NL-08-014, Letter from Fred R. Dacimo, Entergy, to NRC Document Control Desk, "Clarifications to Reactor Vessel Surveillance Program and Neutron Embrittlement Time-Limited Aging Analyses and Audit Item #105; and Revision to License Renewal Regulatory Commitment List" (Jan. 17, 2008)	8/10/2015	

Entergy Exhibit #	Track 2 Contentions Addressed by Exhibit	Exhibit Name	Exhibit Submission Date	Admitted During Track 1 Hearing?
ENT000675	NYS-25	Letter from M. Hodges, NRC, to W. Rasin, Nuclear Management and Resources Council, "Safety Assessment of Report WCAP-13587, Revision 1, 'Reactor Vessel Upper Shelf Energy Bounding Evaluation for Westinghouse Pressurized Water Reactors,' September 1993" (Apr. 21, 1994)	8/10/2015	
ENT000676	NYS-25	NUREG-1785, Safety Evaluation Report Related to the License Renewal of H.B. Robinson Steam Electric Plant, Unit 2 (Mar. 2004)	8/10/2015	
ENT000677	NYS-25	NL-07-140, Letter from F. Dacimo, Entergy, to NRC Document Control Desk, "Reply to Request for Additional Information Regarding License Renewal Application" (Nov. 28, 2007)	8/10/2015	
ENT000678	NYS-26B/RK-TC-1B	Entergy's Revised Statement of Position Regarding Contention NYS-26B/RK-TC-1B (Metal Fatigue) (Aug. 10, 2015)	8/10/2015	
ENT000679	NYS-25, NYS-26B/RK-TC-1B, NYS-38/RK-TC-5	Revised Testimony of Entergy Witnesses Nelson F. Azevedo, Alan B. Cox, Jack R. Strosnider, Randy G. Lott, Mark A. Gray, and Barry M. Gordon Regarding Contention NYS-26B/RK-TC-1B (Metal Fatigue) (Aug. 10, 2015)	8/10/2015	
ENT000680	NYS-26B/RK-TC-1B, NYS-38/RK-TC-5	<i>Curriculum Vitae</i> of Barry M. Gordon	8/10/2015	
ENTR00681	NYS-25, NYS-26B/RK-TC-1B, NYS-38/RK-TC-5	Westinghouse, WCAP-17199-P, Rev. 2, Environmental Fatigue Evaluation for Indian Point Unit 2 (Oct. 2015) [PROPRIETARY]	11/11/2015	

Entergy Exhibit #	Track 2 Contentions Addressed by Exhibit	Exhibit Name	Exhibit Submission Date	Admitted During Track 1 Hearing?
ENTR00682	NYS-25, NYS-26B/RK-TC-1B, NYS-38/RK-TC-5	Westinghouse, WCAP-17200-P, Rev. 2, Environmental Fatigue Evaluation for Indian Point Unit 3 (Oct. 2015) [PROPRIETARY]	11/11/2015	
ENTR00683	NYS-25, NYS-26B/RK-TC-1B, NYS-38/RK-TC-5	Westinghouse, Calculation Note CN-PAFM-13-32, Rev. 4 “Indian Point Unit 2 (IP2) and Unit 3 (IP3) Refined EAF Analyses and EAF Screening Evaluations” (Oct. 2015) [PROPRIETARY]	11/11/2015	
ENT000684	NYS-25, NYS-26B/RK-TC-1B, NYS-38/RK-TC-5	Cases of ASME Boiler and Pressure Vessel, Code Case N-779, “Alternative Rules for Simplified Elastic-Plastic Analysis, Class 1” (Section III, Division 1) (Jan. 26, 2009) [Full-Text Copyright]	8/10/2015	
ENT00686A-C	NYS-25, NYS-26B/RK-TC-1B, NYS-38/RK-TC-5	Westinghouse, WESTEMS™ User Manual, Volume 2: Design Analysis, Rev. 6 (Mar. 2015) [PROPRIETARY]	8/10/2015	
ENT000687	NYS-25, NYS-26B/RK-TC-1B, NYS-38/RK-TC-5	NRC, Safety Evaluation Report, “Topical Report on ASME Section III Piping and Component Fatigue Analysis Utilizing the WESTEMS™ Computer Code” (WCAP-17577, Revision 2) (undated)	8/10/2015	
ENT000688	NYS-25, NYS-26B/RK-TC-1B, NYS-38/RK-TC-5	Westinghouse, Calculation Note CN-PAFM-13-40, Rev. 1, “Indian Point Unit 2 and Unit 3 Pressurizer Spray Nozzle Transfer Function Database Development and Environmental Fatigue Evaluations” (Jan. 15, 2015) [PROPRIETARY]	8/10/2015	

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ENTR00689	NYS-25, NYS-26B/RK-TC-1B, NYS-38/RK-TC-5	Westinghouse, WCAP-12191, Rev. 5, Transient and Fatigue Cycle Monitoring Program Transient History Evaluation Report for Indian Point Unit 2 (Oct. 2015) [PROPRIETARY]	11/11/2015	
ENTR00690	NYS-25, NYS-26B/RK-TC-1B, NYS-38/RK-TC-5	Westinghouse, WCAP-16898-P, Rev. 2, Indian Point Unit 3 Transient and Fatigue Cycle Monitoring Program Transient History Evaluation (Oct. 2015) [PROPRIETARY]	11/11/2015	
ENT000691	NYS-25, NYS-26B/RK-TC-1B, NYS-38/RK-TC-5	EPRI, BWRVIP-187, BWR Vessel and Internals Project: Controlling Intergranular Stress Corrosion Cracking During a BWR Startup-Addition of Hydrazine or Carbohydrazide (Mar. 2008) [PROPRIETARY]	8/10/2015	
ENT000692	NYS-25, NYS-26B/RK-TC-1B, NYS-38/RK-TC-5	Entergy, 0-CY-2310, Rev. 24, Reactor Coolant System Specification and Frequencies (Jan. 16, 2015)	8/10/2015	
ENT000693	NYS-25, NYS-26B/RK-TC-1B, NYS-38/RK-TC-5	IPEC, Unit 3 Chemistry Data (Mar. 21-22, 2015)	8/10/2015	
ENT000694	NYS-25, NYS-26B/RK-TC-1B, NYS-38/RK-TC-5	Z. Szklarska-Smialowska et al., Mechanism of Crack Growth in Alloy 600 in High-Temperature Deaerated Water, 50 Corrosion 676 (Sept. 1994) [Full-Text Copyright]	8/10/2015	

Entergy Exhibit #	Track 2 Contentions Addressed by Exhibit	Exhibit Name	Exhibit Submission Date	Admitted During Track 1 Hearing?
ENT000695	NYS-25, NYS-26B/RK-TC-1B, NYS-38/RK-TC-5	Letter from J. Trapp, NRC, to J. Ventosa, Entergy, "Indian Point Nuclear Generating Unit 2 – NRC License Renewal Team Inspection Report 05000247/2013010" (Sept. 19, 2013)	8/10/2015	
ENT000696	NYS-25, NYS-26B/RK-TC-1B, NYS-38/RK-TC-5	Westinghouse, Calculation Note CN-SGDA-02-214, "4.7% Uprate Structural Evaluation of Primary and Secondary side Components for Indian Point Unit 2 (44F), 10% Plugging" (June 12, 2003) [PROPRIETARY]	8/10/2015	
ENT000697	NYS-25, NYS-26B/RK-TC-1B, NYS-38/RK-TC-5	Entergy, Visual Examination of Reactor Vessel and Internals (VT-3), Summary No. 206913-RVVINT for IP2 (Mar. 10, 2014), and Summary No. 1-1200-VESS. INT. for IP3 (Mar. 13, 2015)	8/10/2015	
ENT000698	NYS-38/RK-TC-5	Entergy's Revised Statement of Position Regarding Contention NYS-38/RK-TC-5 (Safety Commitments) (Aug. 10, 2015)	8/10/2015	
ENT000699	NYS-25, NYS-26B/RK-TC-1B, NYS-38/RK-TC-5	Revised Testimony of Entergy Witnesses Nelson F. Azevedo, Robert J. Dolansky, Alan B. Cox, Jack R. Strosnider, Timothy J. Griesbach, Barry M. Gordon, Randy G. Lott, and Mark A. Gray Regarding Contention NYS-38/RK-TC-5 (Safety Commitments) (Aug. 10, 2015)	8/10/2015	
ENT000700	NYS-38/RK-TC-5	State of New York, Riverkeeper, Inc., Nuclear Regulatory Commission Staff, and Entergy Nuclear Operations, Inc., Joint Stipulation Regarding State of New York Pre-Filed Testimony for Contention NYS-38/RK-TC-5 (Safety Commitments) (June 23, 2015)	8/10/2015	

Entergy Exhibit #	Track 2 Contentions Addressed by Exhibit	Exhibit Name	Exhibit Submission Date	Admitted During Track 1 Hearing?
ENT000701	NYS-38/RK-TC-5	Letter from A. Burritt, NRC, to L. Coyle, Entergy, “Annual Assessment Letter for Indian Point Nuclear Generating Units 2 and 3 (Report 05000247/2014001 and 05000286/2014001)” (Mar. 4, 2015)	8/10/2015	
ENT000703	NYS-38/RK-TC-5	NRC Inspection Manual, Inspection Procedure 71003, Post-Approval Site Inspection for License Renewal (Feb. 25, 2013)	8/10/2015	
ENT000704	NYS-38/RK-TC-5	NRC Inspection Manual, Inspection Procedure 71013, Site Inspection for Plants with a Timely Renewal Application (Sept. 25, 2013)	8/10/2015	
ENT000705	NYS-38/RK-TC-5	NRR Office Instruction, LIC-105, Revision 5, Managing Regulatory Commitments Made by Licensees to the NRC (Sept. 16, 2013)	8/10/2015	
ENT000706	NYS-38/RK-TC-5	NRC Enforcement Manual, Rev. 9 (Sept. 9, 2013)	8/10/2015	
ENT000707	NYS-38/RK-TC-5	Memorandum from S. Dingbaum, Assistant Inspector Gen. for Audits, NRC, to M. Satorius, Exec. Dir. for Operations, NRC, “Status of Recommendations: Audit of NRC’s Management of Licensee Commitments (OIG-11-A-17)” (Nov. 25, 2013)	8/10/2015	
ENT000708	NYS-25, NYS-26B/RK-TC-1B, NYS-38/RK-TC-5	Entergy, Commitment Closure Verification Form, LRC # 43 (Aug. 27, 2013)	8/10/2015	
ENT000709	NYS-25, NYS-26B/RK-TC-1B, NYS-38/RK-TC-5	Entergy, Commitment Closure Verification Form, LRC # 49 (Aug. 27, 2013)	8/10/2015	

Entergy Exhibit #	Track 2 Contentions Addressed by Exhibit	Exhibit Name	Exhibit Submission Date	Admitted During Track 1 Hearing?
ENT000710	NYS-25, NYS-26B/RK-TC-1B, NYS-38/RK-TC-5	Entergy, Commitment Closure Verification Form, LRC # 44 (June 19, 2013)	8/10/2015	
ENT000711	NYS-38/RK-TC-5	H. Kawamura et al., Paper No. 141, The Effect of Zinc Addition to Simulated PWR Primary Water on the PWSCC Resistance, Crack Growth Rate and Surface Oxide Film Characteristics of Prefilmed Alloy 600 (Corrosion 98, 1998) [Full-Text Copyright]	8/10/2015	
ENT000712	NYS-38/RK-TC-5	P.L. Andresen et al., Effects of Hydrogen on Stress Corrosion Crack Growth Rate of Nickel Alloys in High-Temperature Water, 64 Corrosion 707 (Sept. 2008) [Full-Text Copyright]	8/10/2015	
ENT000713	NYS-38/RK-TC-5	B. Gordon, Corrosion and Corrosion Control in Light Water Reactors, 65 Journal of Metals 1043 (Aug. 2013) [Full-Text Copyright]	8/10/2015	
ENT00714A-B	NYS-38/RK-TC-5	H. Cothron et al., EPRI, Slides: NRC/Industry Meeting Regarding Tube-to-Tubesheet Weld and Divider Plate Cracking Report (July 30, 2015)	8/10/2015	
ENT000715	NYS-38/RK-TC-5	NRC, Notice of Meeting with Industry on Divider Plate and Tube-to-Tubesheet Weld (July 1, 2015)	8/10/2015	
ENT000716	NYS-38/RK-TC-5	EPRI, Final Report No. 3002000473, Steam Generator Channel Head Degradation Failure Modes and Effects Analysis (Apr. 2013) [Full-Text Copyright]	8/10/2015	
ENT000717	NYS-38/RK-TC-5	Entergy Procedure SEP-SG-IP3-001, IP3 Steam Generator Program, Revision 1 (May 21, 2014)	8/10/2015	

Entergy Exhibit #	Track 2 Contentions Addressed by Exhibit	Exhibit Name	Exhibit Submission Date	Admitted During Track 1 Hearing?
ENT000718	NYS-38/RK-TC-5	Westinghouse, Technical Manual No. TM 1440-C348, Vertical Steam Generator Instructions for Consolidated Edison Company of New York, Indian Point Station – Unit 2 (2001) [PROPRIETARY] (excerpt)	8/10/2015	
ENT000719	NYS-38/RK-TC-5	T. Couvant et al., Paper Reference No. A004T04, PWSCC of Steam Generator Divider Plates in Alloy 600: Coupling Field Characterizations with R&D Studies (Fontevraud 7, Sept. 26-30, 2010) [Full-Text Copyright]	8/10/2015	
ENT000720	NYS-38/RK-TC-5	M. Boccanfuso, et al., Paper Reference No. A165-T06, Steam Generator Mechanical Plug Failure: A Tribologic Problem (Fontevraud 7, Sept. 26-30, 2010) [Full-Text Copyright]	8/10/2015	
ENT000721	NYS-38/RK-TC-5	EPRI, MRP-55, Rev. 1, Materials Reliability Program: Crack Growth Rates for Evaluating Primary Water Stress Corrosion Cracking (PWSCC) of Thick-Wall Alloy 600 Materials (Nov. 2002) [Full-Text Copyright]	8/10/2015	
ENT000722	NYS-25, NYS-26B/RK-TC-1B, NYS-38/RK-TC-5	Supplemental Testimony of Entergy Witnesses Nelson F. Azevedo, Timothy J. Griesbach, and Randy G. Lott Regarding Contention NYS-25 (Reactor Vessel Internals AMP), NYS-26B/RK-TC-1B (Metal Fatigue), and NYS-38/RK-TC-5 (Safety Commitments) (Oct. 29, 2015)	10/29/2015	
ENT000723	NYS-25, NYS-26B/RK-TC-1B, NYS-38/RK-TC-5	D.J. Gavenda et al., NUREG/CR-6428, “Effects of Thermal Aging on Fracture Toughness and Charpy-Impact Strengths of Stainless Steel Pipe Welds” (May 1996)	10/29/2015	
ENT000724	NYS-25, NYS-26B/RK-TC-1B, NYS-38/RK-TC-5	Westinghouse, Calculation Note CN-RIDA-13-48, Rev. 0 “Indian Point Units 2 and 3 Reactor Internals Lower Support Column Bodies Thermal Embrittlement and Irradiation Embrittlement Screening Assessment” (Oct. 15, 2013) [PROPRIETARY]	10/29/2015	

Entergy Exhibit #	Track 2 Contentions Addressed by Exhibit	Exhibit Name	Exhibit Submission Date	Admitted During Track 1 Hearing?
ENT000725	NYS-25, NYS-26B/RK-TC-1B, NYS-38/RK-TC-5	Westinghouse, WCAP-14574-A, License Renewal Evaluation: Aging Management Evaluation for Pressurizers (Dec. 2000)	10/29/2015	
ENTR00726	NYS-25, NYS-26B/RK-TC-1B, NYS-38/RK-TC-5	Entergy Track 2 Hearing Exhibit List	11/11/2015	
ENT000727	NYS-25, NYS-26B/RK-TC-1B, NYS-38/RK-TC-5	Westinghouse, Calculation Note CN-PAFM-09-21, Rev. 4, Indian Point Units 2 and 3 Charging Nozzles Environmental Fatigue Evaluation (Oct. 2015) [PROPRIETARY]	11/11/2015	
ENT000728	NYS-25, NYS-26B/RK-TC-1B, NYS-38/RK-TC-5	Errata Sheet (noting conforming corrections to the Revised Testimony of Entergy Witnesses Nelson F. Azevedo, Alan B. Cox, Jack R. Strosnider, Randy G. Lott, Mark A. Gray, and Barry M. Gordon Regarding Contention NYS-26B/RK-TC-1B (Metal Fatigue) (Aug. 10, 2015) (ENT000679) and the Revised Testimony of Entergy Witnesses Nelson F. Azevedo, Robert J. Dolansky, Alan B. Cox, Jack R. Strosnider, Timothy J. Griesbach, Barry M. Gordon, Randy G. Lott, and Mark A. Gray Regarding Contention NYS-38/RK-TC-5 (Safety Commitments) (Aug. 10, 2015) (ENT000699) pursuant to the Atomic Safety and Licensing Board's order granting Entergy's Unopposed Motion for Leave to File New and Revised Hearing Exhibits (filed November 11, 2015)).	11/11/2015	