


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 Docket #: 05000247 05000286 Exhibit #: RIVR14001-00-BD01 Admitted: 11/5/2015 Rejected: Other:	Identified: 11/5/2015 Withdrawn: Stricken:
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RIVR14001
Revised: November 5, 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				
Riverkeeper ("RIV") Hearing Exhibits				
RIV Exhibit #	Contentions Addressed by Exhibit	Exhibit Name	Exhibit Submission Date	Exhibit Status
RIVR14001	All	Riverkeeper Track 2 Tailored Hearing Exhibit List	Nov. 5, 2015	Proffered
RIV000004	RK-TC-2; RK-TC-1B; RK-TC-5	Curriculum Vitae of Joram Hopenfeld ("Hopenfeld CV")	Dec. 22, 2011	Admitted during Track 1 Hearings (10-15-2012)
RIV000034	RK-TC-1B	Dr.Hopenfeld Pre-filed Testimony	Dec. 22, 2011	Admitted during Track 1 Hearings (10-15-2012)
RIV000035	RK-TC-1B; RK-TC-5	Dr. Hopenfeld Report	Dec. 22, 2011	Admitted during Track 1 Hearings (10-15-2012)
RIV000036	RK-TC-1B; RK-TC-5	Westinghouse "EnvFat User's Manual Version 1" IPECPROP00056785	Dec. 22, 2011	Admitted during Track 1 Hearings (10-15-2012)
RIV000037	RK-TC-1B; RK-TC-5	Official Transcript, ACRS Subcommittee, 12/6/2006	Dec. 22, 2011	Admitted during Track 1 Hearings (10-15-2012)

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RIV000038	RK-TC-1B; RK-TC-5	NRC IN 2011-04	Dec. 22, 2011	Admitted during Track 1 Hearings (10-15-2012)
RIV000039	RK-TC-1B; RK-TC-5	Entergy Nuclear Vt. Yankee, Affidavit of Kenneth C. Chang, 5/12/08	Dec. 22, 2011	Admitted during Track 1 Hearings (10-15-2012)
RIV000040	RK-TC-1B; RK-TC-5	Taylor, EPRI R & D Status Report, Jan/Feb 1983	Dec. 22, 2011	Admitted during Track 1 Hearings (10-15-2012)
RIV000041	RK-TC-1B; RK-TC-5	Entergy, Table of Environmental Correction Actions for Metal Fatigue, 11/6/07	Dec. 22, 2011	Admitted during Track 1 Hearings (10-15-2012)
RIV000042	RK-TC-1B; RK-TC-5	DC Cook Charging Nozzle LR Fatigue Evaluations, IPECPROP00061294	Dec. 22, 2011	Admitted during Track 1 Hearings (10-15-2012)

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RIV000043	RK-TC-1B; RK-TC-5	Diablo Canyon Unit 1 Insurge/Outsurge Eval, IPECPROP00061179	Dec. 22, 2011	Admitted during Track 1 Hearings (10-15-2012)
RIV000044	RK-TC-1B; RK-TC-5	NRC Bulletin 88-08	Dec. 22, 2011	Admitted during Track 1 Hearings (10-15-2012)
RIV000045	RK-TC-1B; RK-TC-5	NRC Bulletin 88-08 Supp. 1	Dec. 22, 2011	Admitted during Track 1 Hearings (10-15-2012)
RIV000046	RK-TC-1B; RK-TC-5	NRC Bulletin 88-08 Supp. 2	Dec. 22, 2011	Admitted during Track 1 Hearings (10-15-2012)

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RIV000047	RK-TC-1B; RK-TC-5	NRC IN 97-46	Dec. 22, 2011	Admitted during Track 1 Hearings (10-15-2012)
RIV000048	RK-TC-1B; RK-TC-5	Final Report of the NESC-Thermal Fatigue Project, EUR22763	Dec. 22, 2011	Admitted during Track 1 Hearings (10-15-2012)
RIV000049	RK-TC-1B; RK-TC-5, RK-TC-2	Entergy Indian Point U3, FAC, 3RF13 Outage, 2005	Dec. 22, 2011	Admitted during Track 1 Hearings (10-15-2012)
RIV000050	RK-TC-1B; RK-TC-5	Westinghouse, WCAP-14950, IPECPROP00059247	Dec. 22, 2011	Admitted during Track 1 Hearings (10-15-2012)
RIV000051	RK-TC-1B; RK-TC-5	Kwang Chu Kim, Journal of Mechanical Science/Technology, 2008	Dec. 22, 2011	Admitted during Track 1 Hearings (10-15-2012)

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RIV000052A-D	RK-TC-1B; RK-TC-5	Combustion Engineering, Inc., CENC-1110	Dec. 22, 2011	Admitted during Track 1 Hearings (10-15-2012)
RIV000053	RK-TC-1B; RK-TC-5	Combustion Engineering, Inc., CENC-1122	Dec. 22, 2011	Admitted during Track 1 Hearings (10-15-2012)
RIV000054	RK-TC-1B; RK-TC-5	letter from P. Bessette to D. Brancato, 10/18/11	Dec. 22, 2011	Admitted during Track 1 Hearings (10-15-2012)
RIV000055	RK-TC-1B; RK-TC-5	Westinghouse CN-PAFM-09-64, IPECPROP00058077	Dec. 22, 2011	Admitted during Track 1 Hearings (10-15-2012)
RIV000056	RK-TC-1B; RK-TC-5	Systems Standard Design Criteria, IPECPROP00059698	Dec. 22, 2011	Admitted during Track 1 Hearings (10-15-2012)

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RIV000057	RK-TC-1B; RK-TC-5	RAI Indian Point U2 and U3 LRA, 2/10/11	Dec. 22, 2011	Admitted during Track 1 Hearings (10-15-2012)
RIVR000058	RK-TC-1B; RK-TC-5	Response to RAI, Indian Point U2 and U3, 3/28/11	Oct. 9, 2012	Admitted during Track 1 Hearings (10-15-2012)
RIV000102	RK-TC-5	Pre-Filed Testimony of Joram Hopfenfeld in Support of RK-TC-5	June 19, 2012	Admitted during Track 1 Hearings (10-15-2012)
RIV000103	RK-TC-5; RK-TC-1B	Hopfenfeld, Small Sodium-to-Gas Leak Behavior in Relation to LMFBR Leak Detection System Design (International Conference on Liquid Metal Technology, May 3-6, 1976)	June 19, 2012	Admitted during Track 1 Hearings (10-15-2012)

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RIV000104	RK-TC-5; RK-TC-1B	Memorandum from S. Collins (NRR) to W. Travers (EDO), Re: Steam Generator Action Plan Revision to Address Differing Professional Opinion on Steam Generator Tube Integrity (WITS ITEM 200100026), May 11, 2011	June 19, 2012	Admitted during Track 1 Hearings (10-15-2012)
RIV000105	RK-TC-5; RK-TC-1B	NUREG-1740, Voltage-Based Alternative Repair Criteria, A Report to the Advisory Committee on Reactor Safeguards by the Ad Hoc Subcommittee on a Differing Professional Opinion (March/Feb. 2001)	June 19, 2012	Admitted during Track 1 Hearings (10-15-2012)
RIV000106	RK-TC-5; RK-TC-1B	Associated Press, Nuke inspectors focus on 'unusual' wear on tubes, Fox News.com, February 3, 2012	June 19, 2012	Admitted during Track 1 Hearings (10-15-2012)
RIV000114	RK-TC-1B	Prefiled Rebuttal Testimony of Dr. Joram Hopenfeld Regarding Contention NYS-26B/TC-1B - Metal Fatigue	June 29, 2012	Admitted during Track 1 Hearings (10-15-2012)

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RIV000115	RK-TC-1B; RK-TC-5	NRC Bulletin No. 88-11: Pressurizer Surge Line Thermal Stratification (December 20, 1988)	June 29, 2012	Admitted during Track 1 Hearings (10-15-2012)
RIV000116	RK-TC-1B; RK-TC-5	Audit of NRC's License Renewal Program, OIG-07-A-15, September 6, 2007	June 29, 2012	Admitted during Track 1 Hearings (10-15-2012)
RIV000117	RK-TC-1B; RK-TC-5	Makoto Higuchi, Takao Nakamura, & Yasuaki Sugie, Development of an Environmental Fatigue Evaluation Method for Nuclear Power Plants in JSME Code* , J. of Environment and Engineering Vol. 6, No. 2, 2011	June 29, 2012	Admitted during Track 1 Hearings (10-15-2012)

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RIV000118	RK-TC-1B; RK-TC-5	G. T. Yahr and R. C. Gwaltney (Oak Ridge National Laboratory), Ao K. Richardson and W. L. Server (EG&G Idaho, Inc), Case Study of the Propagation of a Small Flaw Under PWR Loading Conditions and Comparison with the ASME Code Design Life, Comparison of the ASME Code Section III and XI , CONF-860722—12, TI86 005150	June 29, 2012	Admitted during Track 1 Hearings (10-15-2012)
RIV000119	RK-TC-1B; RK-TC-5	International Atomic Energy Agency, Applicability of the leak before break concept, Report of the IAEA Extrabudgetary Programme on the Safety of WWER-440 Model 230 Nuclear Power Plants, Status report on a generic safety issue, IAEA-TECDOC-710, ISSN 1011-4289 (June 1993)	June 29, 2012	Admitted during Track 1 Hearings (10-15-2012)

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RIV000132	RK-TC-2; RK-TC-5	Excerpt of IP3, RO13 FAC Inspection Report (2005), IP00044076	Oct. 17, 2012	Admitted during Track 1 Hearings (10-17-2012)
RIV000133	RK-TC-2; RK-TC-5	Excerpt of IP3, RO15 FAC Inspection Report (2009), IPEC00213685	Oct. 17, 2012	Admitted during Track 1 Hearings (10-17-2012)
RIV000134	RK-TC-5	Prefiled Rebuttal Testimony of Dr. Joram Hopenfeld Regarding Contention NYS-38/RK-TC-5	Nov. 9, 2012	Filed/Proffered during Track 1, not Admitted
RIV000135	RK-TC-5; RK-TC-1B	Entergy Ultrasonic Examination Reports, IPEC00020933	Nov. 9, 2012	Filed/Proffered during Track 1, not Admitted

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RIV000136	RK-TC-5; RK-TC-1B	New York Power Authority Ultrasonic Examination Report, Report No.: 99UT155, IPEC00021837	Nov. 9, 2012	Filed/Proffered during Track 1, not Admitted
RIV000137	RK-TC-5; RK-TC-1B	New York Power Authority Ultrasonic Examination Report, Report No.: 99UT251, IPEC00021885	Nov. 9, 2012	Filed/Proffered during Track 1, not Admitted
RIV000138	RK-TC-5; RK-TC-1B	J.S. Kim & J.S. Seo, Development of Engineering Formulae for Stress Concentration Factors of Local Wall Thinning in CANDU Feeder Pipe Under Pressure, Proceedings of the ASME 2011 Pressure Vessels & Piping Division Conference, PVP2011, July 17-21, 2011, Baltimore, Maryland, USA, PVP2011-57930	Nov. 9, 2012	Filed/Proffered during Track 1, not Admitted
RIV000139	RK-TC-5; RK-TC-1B	M.J. Jhung, Fatigue Analysis of a Reactor Pressure Vessel For SMART, Nuclear Engineering and Technology, Vol. 44, No. 6 (August 2012)	Nov. 9, 2012	Filed/Proffered during Track 1, not Admitted

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RIV000140	RK-TC-5; RK-TC-1B	François Vaillant, et al., Influence of a Cyclic Loading on the Initiation and Propagation of PWSCC in Weld Metal 182, Proceedings of the 12th International Conference on Environmental Degradation of Materials in Nuclear Power System – Water Reactors – Edited by T.R. Allen, P.J. King, and L. Nelson TMS (The Minerals, Metals & Materials Society), 2005	Nov. 9, 2012	Filed/Proffered during Track 1, not Admitted
RIV000141	RK-TC-5; RK-TC-1B	E.C. Eggertson, et al, Turbulent Mixing and its Effects on Thermal Fatigue in Nuclear Reactors, World Academy of Science, Engineering and Technology 52 (2011)	Nov. 9, 2012	Filed/Proffered during Track 1, not Admitted
RIV000142	RK-TC-5; RK-TC-1B	Supplemental Prefiled Written Testimony of Dr. Joram Hopenfeld Regarding Contention NYS-26B/RK-TC-1B	June 9, 2015	Filed/Proffered for Track 2, not Admitted

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RIV000143	RK-TC-5; RK-TC-1B	Supplemental Prefiled Written Testimony of Dr. Joram Hopenfeld Regarding Contention NYS-38/RK-TC-5	June 9, 2015	Filed/Proffered for Track 2, not Admitted
RIV000144	RK-TC-5; RK-TC-1B	Supplemental Report of Dr. Joram Hopenfeld in Support of Contention NYS-26B/RK-TC-1B and Amended Contention NYS-38/RK-TC-5 (Non-Public/Non-Redacted) [PROPRIETARY]	June 9, 2015	Filed/Proffered for Track 2, not Admitted
RIV000145	RK-TC-5; RK-TC-1B	K L Murty, Materials Ageing and Degradation in Light Water Reactors (Woodhead Publishing Ltd. 2013) [EXCERPT; COPYRIGHT]	June 9, 2015	Filed/Proffered for Track 2, not Admitted
RIV00146A-B	RK-TC-5; RK-TC-1B	NUREG-1150, Severe Accident Risks: An Assessment for Five U.S. Nuclear Power Plants (1990), available at http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1150/	June 9, 2015	Filed/Proffered for Track 2, not Admitted

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RIV000147	RK-TC-5; RK-TC-1B	NUREG-75/014 (WASH-1400), Reactor Safety Study: An Assessment of Accident Risks in U.S. Commercial Nuclear Power Plants (1975)	June 9, 2015	Filed/Proffered for Track 2, not Admitted
RIV000148	RK-TC-5; RK-TC-1B	Declaration of Dr. Joram Hopenfeld (February 12, 2015) [PROPRIETARY]	June 9, 2015	Filed/Proffered for Track 2, not Admitted
RIV000149	RK-TC-5; RK-TC-1B	Material Aging Institute International Conference on Plants Materials Degradations, Chemical conditioning of Light Water reactors Systems (2008), IPEC00265853	June 9, 2015	Filed/Proffered for Track 2, not Admitted
RIV000150	RK-TC-5; RK-TC-1B	ANL, Report on Assessment of Environmentally-Assisted Fatigue for LWR Extended Service Conditions, ANL-LWRS-47 (September 2011)	June 9, 2015	Filed/Proffered for Track 2, not Admitted

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RIV000151	RK-TC-5; RK-TC-1B	NASA, Nuclear and Space Radiation Effects on Materials, NASA SP-8053 (June 1970), available at, http://ntrs.nasa.gov/archive/nasa/casi.ntrs.nasa.gov/19710015558.pdf	June 9, 2015	Filed/Proffered for Track 2, not Admitted
RIV000152	RK-TC-5; RK-TC-1B	G. E. Korth & M. D. Harper, Effects of Neutron Radiation on the Fatigue and Creep/Fatigue Behavior of Type 308 Stainless Steel Weld Metal at Elevated Temperatures (Seventh ASTM International Symposium on Effects of Radiation on Structural Materials, June 1974), available at, http://www.osti.gov/scitech/servlets/purl/4294682	June 9, 2015	Filed/Proffered for Track 2, not Admitted

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RIV000153	RK-TC-5; RK-TC-1B	Argonne National Laboratory, Corrosion and Mechanics of Materials, Light Water Reactors, Irradiation-Induced Stress Corrosion Cracking of Austenitic Stainless Steels, http://www.ne.anl.gov/capabilities/cmm/highlights/ssc_austenitic_ss.html (last visited June 2, 2015)	June 9, 2015	Filed/Proffered for Track 2, not Admitted
RIV000154	RK-TC-5; RK-TC-1B	S. Mohanty, S. Majumdar, & K. Natesan, Argonne National Laboratory, A Review of Stress Corrosion Cracking/Fatigue Modeling for Light Water Reactor Cooling System Components (June 2012)	June 9, 2015	Filed/Proffered for Track 2, not Admitted
RIV000155	RK-TC-5; RK-TC-1B	S. McKelvey & A. Fatemi, "Effect of Forging Surface on Fatigue Behavior of Steels: A Literature Review (University of Toledo)	June 9, 2015	Filed/Proffered for Track 2, not Admitted

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RIV000156	RK-TC-5; RK-TC-1B	Westinghouse, Indian Point Unit 2 Reactor Vessel Core Support Pad Fatigue Reevaluation, CN-MRCDA-13-11, IPECPROP00079179 [PROPRIETARY]	June 9, 2015	Filed/Proffered for Track 2, not Admitted
RIV000157	RK-TC-5; RK-TC-1B	Pilkey & Pilkey, Peterson's Stress Concentration Factors, 3rd Edition, ISBN: 978-0-470-04824-5 (2008) [EXCERPT; COPYRIGHT]	June 9, 2015	Filed/Proffered for Track 2, not Admitted
RIV000158	RK-TC-5; RK-TC-1B	Herve Bodineau & Thierry Sollier, Tube support plate clogging up of French PWR steam generators, Eurosafe, IRSN – Reactor Safety Division, BP17 (2009)	June 9, 2015	Filed/Proffered for Track 2, not Admitted
RIV000159	RK-TC-5; RK-TC-1B	NUREG/BR-0058, Rev.4, Regulatory Analysis Guidelines of the U.S. Nuclear Regulatory Commission (2004), available at http://www.nrc.gov/reading-rm/doc-collections/nuregs/brochures/br0058/br0058r4.pdf	June 9, 2015	Filed/Proffered for Track 2, not Admitted

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RIV000160	RK-TC-5; RK-TC-1B	U.S. NRC, Commissioner Apostolakis, Application of Risk Assessment and Management to Nuclear Safety (DOE Nuclear Safety Workshop, September 2012), available at, http://energy.gov/sites/prod/files/2013/12/f5/Apostolakis.pdf	June 9, 2015	Filed/Proffered for Track 2, not Admitted
RIV000161	RK-TC-5; RK-TC-1B	Report of Dr. Joram Hopenfeld in Response to Entergy and NRC Staff Testimony Regarding Contention NYS-26/RK0TC-1B and Amended Contention NYS-38/RK-TC-5 [PROPRIETARY]	Sept. 9, 2015	Filed/Proffered for Track 2, not Admitted
RIV000162	RK-TC-5; RK-TC-1B	Prefiled Rebuttal Testimony of Dr. Joram Hopenfeld Regarding Contention NYS-38/RK-TC-5 [PROPRIETARY]	Sept. 9, 2015	Filed/Proffered for Track 2, not Admitted
RIV000163	RK-TC-5; RK-TC-1B	Prefiled Rebuttal Testimony of Dr. Joram Hopenfeld Regarding Contention NYS-26B/RK-TC-1B [PROPRIETARY]	Sept. 9, 2015	Filed/Proffered for Track 2, not Admitted

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RIV000164	RK-TC-5; RK-TC-1B	NUREG-1740, ACRS, Voltage-Based Alternative Repair Criteria: A Report to the Advisory Committee on Reactor Safeguards by the Ad Hoc Subcommittee on a Differing Professional Opinion (2001), available at, http://pbadupws.nrc.gov/docs/ML0107/ML010750315.pdf	Sept. 9, 2015	Filed/Proffered for Track 2, not Admitted
RIV000165	RK-TC-5; RK-TC-1B	U.S. NRC, Office of the Inspector General, OIG-07-A-15, Audit of NRC's License Renewal Program (September 6, 2007), available at, http://pbadupws.nrc.gov/docs/ML0724/ML072490486.pdf	Sept. 9, 2015	Filed/Proffered for Track 2, not Admitted