DOCKETED USNRC

April 15, 2008 (10:00am)

OFFICE OF SECRETARY RULEMAKINGS AND ADJUDICATIONS STAFF

OFFICIAL		PARTY NAME	PARTY EX #	WITNESS/	IDENTIFIED DATE	ADMITTED DATE	: -	Action:	
EA #	EXHIBIT TITLE		EX #	PANEL		DAIL	Admitted	Rejected	Withdrawn
1	Testimony of Alan Cox, Brian Sullivan, Steve Woods, and William Spataro on Pilgrim Watch Contention 1, Regarding Adequacy of Aging Management Program for Buried Pipes and Tanks and Potential Need for Monitoring Wells to Supplement Program, including the Declarations and CVs of Alan B. Cox, Brian R. Sullivan, Steven P. Woods, and William H. Spataro	Entergy	A	Cox / Sullivan / Woods / Spataro	4/10/08	4/10/08	V		
2	Rebuttal Testimony of Alan Cox, Brian Sullivan, Steve Woods, and William Spataro on Pilgrim Watch Contention I, Regarding Adequacy of Aging Management Program for Buried Pipes and Tanks and Potential Need for Monitoring Wells to Supplement Program and Response to Atomic Safety and Licensing Board's Questions of February 2 1, 1008, including the Declarations of Alan B. Cox, Brian R. Sullivan, Steven P. Woods, and William H. Spataro	Entergy	В	Cox / Sullivan / Woods / Spataro	4/10/08	4/10/08	V		
3	Plant Layout Diagram	Entergy	1A	Cox / Sullivan / Woods / Spataro	4/10/08	4/10/08	V		

April 10, 2008 Exhibit List

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OFFICIAL EX #		PARTY	PARTY EX #	WITNESS/ PANEL		ADMITTED DATE	-	Action:	
EX #	EXHIBIT TITLE	NAME		PANEL			Admitted	Rejected	Withdrawn
4	Condensate Storage System Sketch	Entergy	1B	Cox / Sullivan / Woods / Spataro	4/10/08	4/10/08	V		
5	License Renewal Application - Appendix B (Excerpts)	Entergy	2	Cox / Sullivan / Woods / Spataro	4/10/08	4/10/08	V		
6	Specification No. 6498-M-306, "Specification for External Surface Treatment of Underground Metallic Pipe for Unit No. 1 Pilgrim Station No. 600 Boston Edison Company"	Entergy	3	Cox / Sullivan / Woods / Spataro	4/10/08	4/10/08	\checkmark		
7	NUREG-1 801, Generic Aging Lessons Learned ("GALL") Report, Vol. 1, Rev. 1 and Vol. 2, Rev. 1 (Excerpts)	Entergy	4	Cox / Sullivan / Woods / Spataro	4/10/08	4/10/08	, V		
8	Procedure No. EN-DC-343, Rev. 0, Buried Piping and Tanks Inspection and Monitoring Program	Entergy	5	Cox / Sullivan / Woods / Spataro	4/10/08	4/10/08	V		
9	License Renewal Application, Appendix A, Section A.2.1.2 (Excerpts)	Entergy	6	Cox / Sullivan / Woods / Spataro	4/10/08	4/10/08	V		

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OFFICIAL EX #	·	PARTY	PARTY EX #	WITNESS/ PANEL	IDENTIFIED DATE	ADMITTED DATE		Action:	
	EXHIBIT TITLE			FANEL			Admitted	Rejected	Withdrawn
• 10	NUREG-1 89 1, "Safety Evaluation Report Related to the License Renewal of Pilgrim Nuclear Power Station," (Sept. 2007; Published Nov. 2007) Appendix A (Excerpts)	Entergy	7	Cox / Sullivan / Woods / Spataro	4/10/08	4/10/08	V	• •	•
11	License Renewal Application, Appendix B.0.3	Entergy	8	Cox / Sullivan / Woods / Spataro	4/10/08	4/10/08			
12	Entergy's Answer to Board Questions (Feb. 11,2008), including the Declaration and CV of Stephen J. Bethay	Entergy	9	Cox / Sullivan / Woods / Spataro	4/10/08	4/10/08	\checkmark		
13	Testimony of Arnold Gundersen Supporting Pilgrim Watch Contention 1, March 6, 2008	Pilgrim Watch (PW)	1-A	Gundersen / Ahfeld	4/10/08	4/10/08	V		
14	Witness, Arnold Gundersen: Declaration of Arnold Gundersen Supporting Pilgrim Watch's Petition for Contention 1, January 26, 2008; and Curriculum Vitae, Arnold Gundersen, January 2008	PW	1-B	Gundersen / Ahfeld	4/10/08	4/10/08	V		
15	Witness, David P. Ahlfeld: Declaration of David P. Ahlfeld, PhD, PE Regarding Groundwater Monitoring Requirements for PNPS, January 28, 2008; Biographical Sketch David P. Ahlfeld.	PW	2	Gundersen / Ahfeld	4/10/08	4/10/08	V		

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OFFICIAL EX #		PARTY	PARTY EX #	WITNESS/ PANEL				Action:	
				PANEL			Admitted	Rejected	Withdrawn
16	10 CFR 54.21	PW	3	Gundersen / Ahfeld	4/10/08	4/10/08	√		
17	Advisory Committee on Reactor Safeguards, Official Transcript of Proceedings, 485 th Meeting, September 6, 2001 - discussion reasonable assurance, 95% confidence.	PW	4	Gundersen / Ahfeld	4/10/08	4/10/08	V		
18	10 CFR Appendix B to Part 50, Quality Assurance Criteria for Nuclear Power Plants, NRC; and NRC Inspection Manual, Part 9900 Technical Guidance Operability Determinations & Functionality Assessments for Resolution of Degraded or Nonconforming Conditions Adverse to Quality or Safety, NRC, 09/26/05	PW	5	Gundersen / Ahfeld	4/10/08	4/10/08	√		
19	NUREG-1891, Safety Evaluation Report Related to the License Renewal of Pilgrim Nuclear Power Station, Docket No. 50-293, 3- 36 to 3-38. Section 3.0.3.2.1 Buried Piping and Tanks Inspection Program.	PW	6	Gundersen / Ahfeld	4/10/08	4/10/08	V		

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OFFICIAL EX #			PARTY EX #	WITNESS/ PANEL		ADMITTED DATE		Action:	
							Admitted	Rejected	Withdrawn
20	Liquid Radioactive Release Lessons Learned Task Force Final Report, September 1, 2006; Executive Summary; pages 19 and 26; Appendix B Consolidated Recommendations List.	PW	7	Gundersen / Ahfeld	4/10/08	4/10/08	V		
21	NUREG/CR 6876, Risk Informed Assessment of Degraded Buried Piping Systems in Nuclear Power Plants; Brookhaven National Laboratory; US Nuclear Regulatory Commission, June 2005. From Sections (3.1.1) Aging Mechanisms; (3.3) Important Aging Effects for Use in Study; (3.4) Degradation Rates for Corrosion and Loss Material/Pitting; (4.1) Detection of Age-related Degradation and Condition Assessment; (6) Risk Evaluation of Degraded Buried Piping Systems; (7.3) Guidance on the Use of degradation Acceptance Criteria; and (8) Conclusions and Recommendations	PW	8	Gundersen / Ahfeld	4/10/08	4/10/08			
22	SSW: Declaration of Alan Cox In Support of Entergy's Motion for Summary Disposition of Pilgrim Watch Contention 1, June 5, 2007. Describes purpose SSW System, therein.	PW	9	Gundersen / Ahfeld	4/10/08	4/10/08	V		

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OFFICIAL EX #		PARTY	PARTY EX #	WITNESS/ PANEL		ADMITTED DATE		Action:	
							Admitted	Rejected	Withdrawn
23	Corrosion: U.S. Nuclear Plants in the 21 st Century: The Risk of a Lifetime, by David Lochbaum, Union of Concerned Scientists. (May 2004); and "Using Reliability-Centered Maintenance As The Foundation For An Efficient And Reliable Overall Maintenance Strategy," National Aeronautics and Space Administration (NASA), 2001; and Declaration David Lochbaum attesting to fact stands by the contents of the report today. Bathtub Curve discussed therein.	PW	10	Gundersen / Ahfeld	4/10/08	4/10/08	V		
24	SSW: Declaration of Alan Cox in Support of Entergy's Motion for Summary Disposition of Pilgrim Watch Contention 1, June 5, 2007, at FN. 6, page 11. SSW carbon steel piping - exterior coatings and surface of the original carbon steel SSW inlet piping was not examined when inlet piping replaced.	PW	11	Gundersen / Ahfeld	4/10/08	4/10/08	V		
25	Corrosion: NRC Preliminary Notification of Event or Unusual Occurrence, PNO-III-07- 021, "Both Units at Byron Shut Down Due to Leak in Pipe", October 23, 2007, ML072960109; and Union of Concerned Scientists Issue Paper, Help Wanted: Dutch Boy at Byron (October 25, 2007).	PW	12	Gundersen / Ahfeld	4/10/08	4/10/08	√		

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OFFICIAL EX #		PARTY	PARTY EX #	WITNESS/ PANEL		ADMITTED DATE	· · · · · · · · · · · · · · · · · · ·	Action:	
	EXHIBIT TITLE		LA #				Admitted	Rejected	Withdrawn
26	Topography: Pilgrim Nuclear Power Station, Boston Edison Company Docket No. 50-293, May 1972 –U.S. Atomic Energy Commission, Division of Radiological and Environmental Protection, Final EIS, pages 9-10. Topography Pilgrim Station discussed therein.	PW	13	Gundersen / Ahfeld	4/10/08	4/10/08	V		
27	BPTIMP: Buried Piping and Tanks Inspection and Monitoring Program, Entergy, 11.19.07	PW	14	Gundersen / Ahfeld	4/10/08	4/10/08	1		
28	Counterfeit and Substandard Products: United States General Accounting Office, Report to the Chairman, Subcommittee on Oversight and Investigations, Committee on Energy and Commerce, House of Representatives, Nuclear Safety and Health Counterfeit and Substandard Products Are A Government Wide Concern, GAO/RCED-91-6; October 1990.	PW	15	Gundersen / Ahfeld	4/10/08	4/10/08	V		
29	Seismic: <u>New England not immune to strong</u> <u>temblors and specialists say that a major</u> <u>event in only a matter of time,</u> Boston Globe, Bryan Bender, April 16, 2006.	PW	16	Gundersen / Ahfeld	4/10/08	4/10/08	V		

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OFFICIAL EX #		PARTY	PARTY EX #	WITNESS/				Action:	
EA #	EXHIBIT TITLE	NAME		PANEL			Admitted	Rejected	Withdrawn
30	BPTIP: NUREG-1891, Rev.1, X I M32, 3.0.3.2.1 Buried Pipes and Tanks Inspection Program, 3-36 to 3-38.	PW	17	Gundersen / Ahfeld	4/10/08	4/10/08	· 1		
31	GALL: NUREG-1801, Vol. 1, Rev. 1, Generic lessons Learned (GALL) Report, September 2005, X1M-12 [10. Operating Experience, BWR Intergranular Stress]; and XI M-96 [10. Operating Experience "Corrosion pits from the outside diameter have been discovered in buried piping with far less than 60 years of service.; XI.M32 One-time Inspection]; XI.M2 Water Chemistry.	PW	18	Gundersen / Ahfeld	4/10/08	4/10/08	V		
32	LRA: Pilgrim Nuclear Power Station License Renewal Application A.2.1.2; B.1.2	PW	19	Gundersen / Ahfeld	4/10/08	4/10/08	V		
33	Monitoring Wells: Testimony of Alan Cox, Brian Sullivan, Steve Woods, and William Spataro on Pilgrim Watch Contention 1, regarding Adequacy of Aging Management Program for Buried Pipes and Tanks and Potential need For Monitoring Wells to Supplement Program, June 8, 2008, A36.	PW	20	Gundersen / Ahfeld	4/10/08	4/10/08	1		

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OFFICIAL EX #			PARTY EX #	WITNESS/ PANEL			· · ·	Action:	
EX #				PANEL			Admitted	Rejected	Withdrawn
34	Handling: Affidavit of Dr. James A. Davis Concerning Entergy's Motion for Summary Disposition of Pilgrim Watch Contention 1, June 28, 2007, 16. Reliance industry practice qualified by there is not damage in application coating and handling therein.	PW	21	Gundersen / Ahfeld	4/10/08	4/10/08	↓		
35	OIG: Office of Inspector General's Audit of NRC's License Renewal Program, OIG-07-A- 15, September 6, 2007.	ΡW	22	Gundersen / Ahfeld	4/10/08	4/10/08	V		
36	Safety Review Process: Event Notification Report, Number 43832, Palisades, 12/10/2007. Notification to Offsite Agencies Due to Elevated Tritium Levels.	PW	23	Gundersen / Ahfeld	4/10/08	4/10/08	V		
37	Monitoring Well Location: Approximate location Monitoring Wells Document Provided by Entergy, November 2007.	PW	25	Gundersen / Ahfeld	4/10/08	4/10/08	1		

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OFFICIAL EX #		PARTY NAME	PARTY EX #	WITNESS/ PANEL		ADMITTED DATE		Action:	
	EXHIBIT TITLE						Admitted	Rejected	Withdrawn
38	Tritium Leak, PNPS: <u>Discovery in Pilgrim</u> <u>wells fuels debate</u> , Robert Knox, Boston Globe, December 20, 2007; and Analysis Tritium samples for Massachusetts Department of Public Health Split Samples, December 5, 2007 with cover letter from Mr. Robert Walker, Director MA Department Public Health Radiation Control Program; December 26, 2007.	PW	26	Gundersen / Ahfeld	4/10/08	4/10/08	V		
39	NRC STAFF TESTIMONY OF DR. JAMES A. DAVIS CONCERNING PILGRIM WATCH CONTENTION 1 (JANUARY 29, 2008)	NRC	1	Davis / Chan / Keim	4/10/08	4/10/08			
40	NRC STAFF TESTIMONY OF TERENCE L. CHAN AND ANDREA T. KEIM CONCERNING PILGRIM WATCH CONTENTION 1 (JANUARY 29, 2008)	NRC	2	Davis / Chan / Keim	4/10/08	4/10/08	V		
41	REBUTTAL TESTIMONY AND RESPONSES TO BOARD QUESTIONS OF DR. JAMES A. DAVIS, TERENCE L. CHAN AND ANDREA T. KEIM CONCERNING PILGRIM WATCH CONTENTION 1 (MARCH 6, 2008)	NRC	3	Davis / Chan / Keim	4/10/08	4/10/08	√ •. •		
42	NUREG-1801, Rev. 1 (Sept. 2005) EXCERPT - XI.M34 "BURIED PIPING AND TANKS INSPECTION"	NRC	4	Davis / Chan / Keim	4/10/08	4/10/08	V		

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EA #	EXHIBIT TITLE	NAME	EA #	PANEL			Admitted	Rejected	Withdrawn
43	NUREG-1801, Rev. 1 (Sept. 2005) EXCERPT - XI.M20 "OPEN-CYCLE COOLING WATER SYSTEM"	NRC	5	Davis / Chan / Keim	4/10/08	4/10/08	\checkmark		
44	07/18/1989 GENERIC LETTER RE SERVICE WATER SYSTEM PROBLEMS AFFECTING SAFETY-RELATED EQUIPMENT (GENERIC LETTER 89-13)	NRC	6	Davis / Chan / Keim	4/10/08	4/10/08	V		
45	PILGRIM LICENSE RENEWAL APPLICATION EXCERPT - B.1.2 "BURIED PIPING AND TANKS INSPECTION"	NRC	7	Davis / Chan / Keim	4/10/08	4/10/08	V		
46	PILGRIM LICENSE RENEWAL APPLICATION EXCERPT - B.1.28 "SERVICE WATER INTEGRITY"	NRC	8	Davis / Chan / Keim	4/10/08	4/10/08	√		
47	NUREG-1891 (Sept. 2007, Published Nov. 2007) EXCERPT - 3.0.3.2.16 "SERVICE WATER INTEGRITY PROGRAM"	NRC	9	Davis / Chan / Keim	4/10/08	4/10/08	V		
48	PDC No. 99-21 "EXCAVATION FOR SSW PIPE REPLACEMENT (RFO #12 SCOPE)	NRC	10	Davis / Chan / Keim	4/10/08	4/10/08	V		
49	NUREG-1891 (Sept. 2007, Published Nov. 2007) EXCERPT - 3.0.3.1.13 "WATER CHEMISTRY CONTROL BWR PROGRAM"	NRC	11	Davis / Chan / Keim	4/10/08	4/10/08	V.		

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OFFICIAL EX #		PARTY	PARTY EX #	WITNESS/ PANEL		ADMITTED DATE		Action:	
LX #			ĻA #				Admitted	Rejected	Withdrawn
50	NUREG-1891 (Sept. 2007, Published Nov. 2007) EXCERPT - 3.0.3.1.8 "ONE-TIME INSPECTION PROGRAM"	NRC	12	Davis / Chan / Keim	4/10/08	4/10/08	V		
51	12/06/2002 LETTER FROM ENTERGY TO NRC RE "PILGRIM NUCLEAR POWER STATION FOURTH TEN-YEAR INSERVICE TESTING (IST) PROGRAM AND REQUEST FOR APPROVAL OF IST RELIEF REQUESTS	NRC	13	Davis / Chan / Keim	4/10/08	4/10/08	V	· .	
52	AMENDMENT NO. 176 EXCERPT (3/4.5-7 – 3/4.5-8)	NRC	14	Davis / Chan / Keim	4/10/08	4/10/08	√		
53	PNPS-FSAR EXCERPT – 11.9 "CONDENSATE STORAGE SYSTEM"	NRC	15	Davis / Chan / Keim	4/10/08	4/10/08	V		
54	PNPS-FSAR REV. 26 EXCERPT – "QUALITY ASSURANCE PROGRAM"	NRC	16	Davis / Chan / Keim	4/10/08	4/10/08	√		
55	06/29/2005 LETTER FROM ENTERGY TO NRC RE PILGRIM FOURTH TEN-YEAR INSERVICE INSPECTION PROGRAM PLAN, AND THE ASSOCIATED RELIEF REQUESTS FOR NRC APPROVAL	NRC	17	Davis / Chan / Keim	4/10/08	4/10/08	V		

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LA #				PANEL		, DATE	Admitted	Rejected	Withdrawn
56	ATTACHMENT 71111.07 (ISSUE DATE 05/25/2006) "HEAT SINK PERFORMANCE"	NRC	18	Davis / Chan / Keim	4/10/08	4/10/08	V		
57	05/12/2006 LETTER FROM CLIFFORD ANDERSON (NRC) TO ENTERGY RE PILGRIM NUCLEAR POWER STATION – NRC INTEGRATED INSPECTION REPORT 05000293/2006002	NRC	19	Davis / Chan / Keim	4/10/08	4/10/08	1		
58	PNPS-FSAR - EXCERPT – 10.7 "SALT SERVICE WATER SYSTEM"	NRC	20	Davis / Chan / Keim	4/10/08	4/10/08	. 1		
59	11/07/1991 GENERIC LETTER (GENERIC LETTER 91-18) RE "INFORMATION TO LICENSEES REGARDING TWO NRC INSPECTION MANUAL SECTIONS ON RESOLUTION OF DEGRADED AND NONCONFORMING CONDITIONS AND ON OPERABILITY	NRC	21	Davis / Chan / Keim	4/10/08	4/10/08	. √		

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Exhibit List

OFFICIAL EX #		PARTY	PARTY EX #	WITNESS/ PANEL	IDENTIFIED DATE		Action:		
	EXHIBIT TITLE					UNIL	Admitted	Rejected	Withdrawn
60	NRC REGULATORY ISSUE SUMMARY 2005-20: REVISION TO GUIDANCE FORMERLY CONTAINED IN NRC GENERIC LETTER 91-18, "INFORMATION TO	NRC	22	Davis / Chan / Keim	4/10/08	4/10/08	V		
	LICENSEES REGARDING TWO NRC INSPECTION MANUAL SECTIONS ON RESOLUTION OF DEGRADED AND NONCONFORMING CONDITIONS AND ON OPERABILITY"								
61	NUREG-1891 (Sept. 2007, Published Nov. 2007) EXCERPT - 3.0.2 "STAFF'S REVIEW PROCESS"	NRC	23	Davis / Chan / Keim	4/10/08	4/10/08	V		
62	NRC BULLETIN NO. 87-01: THINNING OF PIPE WALLS IN NUCLEAR POWER PLANTS (JULY 9, 1987)	NRC	24	Davis / Chan / Keim	4/10/08	4/10/08	\checkmark		
63	CORROSION INDUCED BY LOW-ENERGY RADIONUCLIDES (2004) EXCERPT – "STRATEGY FOR CONTROLLING CORROSION"	NRC	25	Davis / Chan / Keim	4/10/08	4/10/08	V		
64	NRC INSPECTION MANUAL – INSPECTION PROCEDURE 35101 - QA PROGRAM IMPLEMENTATION INSPECTION FOR OPERATIONAL PROGRAMS (10/03/2007)	NRC	26	Davis / Chan / Keim	4/10/08	4/10/08			

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OFFICIAL	EXHIBIT TITLE	PARTY NAME	PARTY EX #	WITNESS/ PANEL	IDENTIFIED DATE	ADMITTED DATE	Action:		
EX #							Admitted	Rejected	Withdrawn
65	AFFIDAVIT OF DR. JAMES A. DAVIS AND ANDREA T. KEIM IN RESPONSE TO LICENSING BOARD QUESTIONS IN ORDER (BOARD QUESTIONS FOR THE NRC STAFF AND APPLICANT)	NRC	27	Davis / Chan / Keim	4/10/08	4/10/08	V		
66	NRC REGION III REPORT EXCERPT – SERVICE WATER (SX) SYSTEM	NRC	28	Davis / Chan / Keim	4/10/08	4/10/08	V		
67	Photographs of Corrosion on Pipes at Pilgrim Nuclear Power Station	PW	53	Gundersen / Ahfeld	4/10/08	4/10/08	√		
68	Entergy Condition Report CR-PNP-2003- 01706	Entergy	10	Cox / Sullivan / Woods / Spataro	4/10/08	4/10/08	V		
69	Entergy Nonconformance Report	Entergy	11	Cox / Sullivan / Woods / Spataro	4/10/08	4/10/08	V		
70	AMRM-H, Aging Management Review of the Salt Service Water System	Entergy	12	Cox / Sullivan / Woods / Spataro	4/10/08	4/10/08	V		

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71	GALL Report, XI M-95 - XI M-96	PW	58	Gundersen / Ahfeld	4/10/08	4/10/08	√		
72	Pilgrim Nulcear Power Station Chemistry Corporate Assessment	PW	52A	Gundersen / Ahfeld	4/10/08	4/10/08	V		