

RAS 14296

U.S. NUCLEAR REGULATORY COMMISSION
 to the Board of American Energy Co LLC
 Docket No. 50-0219-LR Official Exhibit No. Citizens' Ex. A
 OFFERED by: Applicant/Licensee Intervenor
 Other
 IDENTIFIED on 1/25/07 Witness/Panel N/A
 Action Taken: ADMITTED REJECTED WITHDRAWN
 Reporter/Clerk DW

CITIZENS' EXHIBIT A

- | <u>No.</u> | <u>Exhibit</u> |
|------------|---|
| 1 | GPU Nuclear, Drywell Steel Shell Plate Thickness Reduction (July 21, 1995). |
| 2 | Partial Cross Section of Drywell and Torus. |
| 3 | Memorandum from Peter Tamburro on the Unclear Documentation of Calculation C-1302-187-5320-024 (AR 00461639 Report) (Mar. 3, 2006). |
| 4* | Exelon Nuclear, Calculation C-1302-187-5320-024 Revision 1: O.C. Drywell Ext. UT Evaluation in Sandbed (Sept. 21, 2006).
NOTE: Intentionally omitted, submitted by AmerGen at Applicant Exh. 18. |
| 5* | Exelon Nuclear, Calculation C-1302-187-E310-041 Revision 0: Statistical Analysis of Drywell Vessel Sandbed Thickness Data 1992, 1994, 1996, and 2006 (Dec. 15, 2006).
NOTE: Intentionally omitted, submitted by AmerGen at Applicant Exh. 20. |
| 6 | Affidavit of Peter Tamburro, Mar. 26, 2007. |
| 7 | AmerGen, NRC Information Request: Audit Question Numbers AMP-141, 210, 356 (Apr. 5, 2006). |
| 8* | AmerGen, Passport 00546049 07 (AR A2152754 E09): Water Found in Drywell Trench 5 - UT Data Evaluation (Nov. 7, 2006).
NOTE: Intentionally omitted, submitted by AmerGen at Applicant Exh. 19. |
| 9 | Structural Integrity Associates, Inc., Statistical Analysis of Oyster Creek |

DOCKETED
USNRC

October 1, 2007 (10:45am)

OFFICE OF SECRETARY
RULEMAKINGS AND
ADJUDICATIONS STAFF

Template = SECY-028

SECY-02

Drywell Thickness Data (Jan. 4, 2007).

- 10 AmerGen, NRC Information Request: Audit Question Numbers AMP-357, 356, 210 (Jan. 24, 2006 and Feb. 16, 2006).
- 11 Email from Peter Tamburro to Ahmed Ouaou (June 8, 2006).
- 12 Memorandum from Dr. Rudolf Hausler, Apr. 25, 2007.
Note: Identical to Attachment 2 to Dr. Hausler's Initial Testimony.
- 13 Memorandum from Dr. Rudolf Hausler, July 18, 2007.
Note: Identical to Attachment 3 to Dr. Hausler's Initial Testimony.
- 14 AmerGen, Reference Material to the ACRS: Photograph of the Sand Bed Region (1992).
- 15 Transcript of Nuclear Regulatory Commission Proceedings, Advisory Committee on Reactor Safeguards Subcommittee on Plant License Renewal Oyster Creek Generating Station (Jan. 18, 2007) (Excerpted Pages: p.1-10, p.132-144, p.207-224, p. 353-358).
- 16 Transcript of Nuclear Regulatory Commission Proceedings, Advisory Committee on Reactor Safeguards Meeting of Plant License Renewal Subcommittee (Oct. 3, 2006) (Excerpted Pages: p.1-8, p.59-63).
- 17 Email from Steven Hutchins to John Hufnagel Jr., with Drywell White Papers attachment (Sept. 18, 2006, 16:51 EST).
- 18 Affidavit of Jon R. Cavallo, Mar. 26, 2007.

- 19 AmerGen, Action Request: Determine the Proper Sealant for Drywell Sandbed Floor Voids (Oct. 25, 2006).
- 20 Letter from Richard J. Conte, Chief Engineering Branch 1, Nuclear Regulatory Commission, to Richard Webster, Esq., Rutgers Environmental Law Clinic (Nov. 9, 2006).
- 21 Letter from J.C. Devine, Jr., Vice President of Technical Functions, GPU Nuclear, to the Nuclear Regulatory Commission (Dec. 5, 1990) (Attachment 3; GPUN Detailed Summary Addressing Water Intrusion and Leakage Effects Related to the Oyster Creek Drywell).
- 22 GPU Nuclear, Clearing of the Oyster Creek Drywell Sand Bed Drains (March 3, 1989).
- 23 AmerGen, Disclosed Document Relating to Drywell Leakage (Ref. # OCLR00013354).
- 24 Transcript of Nuclear Regulatory Commission Proceedings, Advisory Committee on Reactor Safeguards 539th Meeting (Feb. 1, 2007) (Excerpted Pages: p.1-3, p. 172-177, p. 217-224).
- 25 Letter from the Nuclear Regulatory Commission to C. Crane (Jan. 17, 2007) ("Inspection Report").
- 26 Email from Steven Dunsmuir, FIN/Operations RO, Exelon Corp., to Howie Ray, et al. (Oct. 22, 2006, 04:52 EST).
- 27 Email from Tom Quintenz to Kevin Muggleston, et al. (Feb. 1, 2006, 17:02 EST).
- 28 GPU Nuclear, Evaluation of February 1990 Drywell UT Examination Data (Apr. 18, 1990).

- 29 Affidavit of Barry Gordon, Mar. 26, 2007.
- 30 Letter from Jill Lipoti, Director Division of Environmental Safety and Health, New Jersey Dept. of Environmental Protection, to Dr. Pao-Tsin Kuo, Director Division of License Renewal, U.S. Nuclear Regulatory Commission (Apr. 26, 2007).
- 31* AmerGen, Calculation Sheet C-1302-187-5300-011.
NOTE: Intentionally omitted, submitted by AmerGen at Applicant Exh. 23.
- 32* GPU Nuclear, Calculation Sheet C-1302-187-5320-024 Revision 0: Oyster Creek Drywell Exterior Evaluation in Sandbed (Apr. 16, 1993)
NOTE: Intentionally omitted, submitted by AmerGen at Applicant Exh. 17.
- 33* Exelon Nuclear, Calculation C-1302-187-5320-024 Revision 2: O.C. Drywell Ext. UT Evaluation in Sandbed (Mar. 18, 2007).
NOTE: Intentionally omitted, submitted by AmerGen at Applicant Exh. 16.
- 34* ACRS Information Packet (Dec. 8, 2006).
NOTE: Intentionally omitted, submitted by AmerGen at Applicant Exh. 3.
- 35 Letter from AmerGen to the NRC (2103-06-20426) (Dec. 3, 2006) (Excerpted Pages: Dec. 3, 2006 Letter, p.1-3, p. 9-15, p. 17-24).
- 36 Email from Caroline Schlaseman, MPR Associates, Inc. to Howie Ray & Jim Nestell (Nov. 2, 2006), contained within E-mail from Barry Gordon to Howie Ray et al. (Nov. 2, 2006).
- 37 Background and Statement of Facts (July 20, 2007)
Note: Identical to Attachment 5 to Dr. Hausler's Initial Testimony.

- 38 Memorandum from Dr. Rudolf Hausler, Subject: Response To The Questions About Statistics (Aug. 16, 2007).
Note: Identical to Attachment 2 to Dr. Hausler's Rebuttal Testimony.
- 39 Memorandum from Dr. Rudolf Hausler, Subject: Further Discussion of the Nature of the Corroded Surfaces and The Residual Wall Thickness of the Oyster Creek Dry Well (Aug. 16, 2007).
Note: Identical to Attachment 3 of Dr. Hausler's Rebuttal Testimony.
- 40 Email from William Russell to Frederick Polaski, et al., Subject: Challenge Board #1 additional comment (Nov. 30, 2006, 9:48 EST), attached to email from John Hufnagel Jr. to Ahmed Ouaou, et al. (Nov. 30, 2006 10:41 EST).
- 41 GPU Nuclear, Technical Functions Safety/Environmental Determination and 50.59 Review (Jan. 5, 1993).
- 42 Email from Peter Tamburro to Ahmed Ouaou, Cc Howie Ray, et al., Subject: Surface Are (sic) of the Drywell in the sand bed (Apr. 3, 2006 3:24 PM).
- 43 Email from John O'Rourke to Michael Gallagher, et al., Subject: External Inspections of DW in Sandbed Region (Oct. 10, 2006 8:08 AM), attached to email from John Hufnagel to John O'Rourke (Oct. 10, 2006 8:10 AM).
- 44 Memorandum, GPU Nuclear from K. L. Whitmore, Civil/Structural Mgr. to J. C. Flynn, Manager, Special Projects, Engineering Projects, Subject: Inspection of drywell sand bed region and access holes (Jan. 28, 1993).
- 45 AmerGen Technical Evaluation 330592-27-27 (Apr. 20, 2007).
- 46 Email from John O'Rourke to Marcos Herrera, Cc Michael Gallagher et al.,

Subject: Oyster Creek Drywell Thickness to be Used for Base Case Analysis, with OYSTER CREEK DRYWELL THICKNESSES, Rev2.doc attachment (Feb. 28, 2007 7:20 PM).

- 47 Issue # 00557180, Exelon Nuclear Issue - Statement of Confirmation, Originator: Kathy Barnes (Nov. 13, 2006).
- 48 Email from Tom Quintenz to John O'Rourke, Subject: Notes of video inspection results of trough area with Video Inspection of Concrete Trough Notes November 1996 with attachment (Oct. 10, 2006 2:26 PM).
- 49 GPU Nuclear, Material Nonconformance Report (Oct. 27, 1986).
- 50 Memorandum, GPU Nuclear from R. Miranda, Engineer, Technical Functions to Distribution, Subject: 14R Reactor Cavity Leak Detection Effort (Feb. 1, 1993).
- 51 Sketches showing ultrasonic and "Echo to Echo" techniques, and explanations of sketches (OCLR00026641).
- 52 E-mail from Tom Quintenz to Ahmed Ouaou & John Hufnagel, Jr. (September 20, 2006 2:02 EST) AR 00547236 Report
- 53 Letter from Alexander W. Dromerick to John J. Barton (November 19, 1991)
- 54 Letter from Alexander W. Dromerick to John J. Barton (September 2, 1993)
- 55 Memorandum from Goutam Bagchi for John F. Stolz dated April 9, 1992, with attached Safety Evaluation Report with supporting analysis by Brookhaven National Laboratories
- 56 Letter from Alexander W. Dromerick to John J. Barton (April 24, 1992)

- 57 Letter from J.C. DeVine to NRC (May 26, 1992)
- 58 Letter from Alexander W. Dromerick to John J. Barton (June 30, 1992)
- 59* Letter from H.S. Mehta to Dr. Stephen Tumminelli (December 11, 1992)
NOTE: Intentionally omitted. Submitted by AmerGen at Applicant Ex. 39
- 60 Sandia Report on Structural Integrity Analysis of the Degraded Drywall Containment of Oyster Creek Nuclear Generating Station (Jan. 2007) (SAND2007-0055)
NOTE: Portions intentionally omitted; only included pages 77-85. Other relevant pages submitted by NRC Staff
- 61 Memorandum from Rudolf H. Hausler to Richard Webster, Esq., Subject: Further Discussion of the External Corrosion on the Drywall Shell in the Sandbed Region (September 13, 2007)
- 62 Transcript excerpt from the Official Transcript of Proceedings, Nuclear Regulatory Commission – Advisory Committee on Reactor Safeguards, <http://www.nrc.gov/reading-rm/doc-collections/acrs/tr/fullcommittee/2001/ac010906.html> (last visited Sept. 13, 2007) (transcript excerpt from the 485th Meeting held on September 6, 2001)
- 63 Diagram of Oyster Creek Lower Drywall/Sandbed Region. **NOTE: Intentionally omitted. Submitted by AmerGen at Applicant Ex. 7.**
- 64 E-mails ending in e-mail from Gordon to Licina, dated October 24, 2006 (redacted to be non-proprietary)
- 65 E-mail from O'Rourke to Herrera, dated February 7, 2007 (redacted to be non-proprietary)