



RESPONSE TO FREEDOM OF INFORMATION ACT (FOIA) / PRIVACY ACT (PA) REQUEST

2007-0299

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RESPONSE TYPE FINAL PARTIAL

REQUESTER

Maria Webb

DATE

NOV 16 2007

PART I. -- INFORMATION RELEASED

- No additional agency records subject to the request have been located.
- Requested records are available through another public distribution program. See Comments section.
- APPENDICES A,B,C** Agency records subject to the request that are identified in the listed appendices are already available for public inspection and copying at the NRC Public Document Room.
- APPENDICES** Agency records subject to the request that are identified in the listed appendices are being made available for public inspection and copying at the NRC Public Document Room.
- Enclosed is information on how you may obtain access to and the charges for copying records located at the NRC Public Document Room, 11555 Rockville Pike, Rockville, MD 20852-2738.
- APPENDICES** Agency records subject to the request are enclosed.
- Records subject to the request that contain information originated by or of interest to another Federal agency have been referred to that agency (see comments section) for a disclosure determination and direct response to you.
- We are continuing to process your request.
- See Comments.

PART I.A -- FEES

- AMOUNT * You will be billed by NRC for the amount listed. None. Minimum fee threshold not met.
- \$ You will receive a refund for the amount listed. Fees waived.
- * See comments for details

PART I.B -- INFORMATION NOT LOCATED OR WITHHELD FROM DISCLOSURE

- No agency records subject to the request have been located.
- Certain information in the requested records is being withheld from disclosure pursuant to the exemptions described in and for the reasons stated in Part II.
- This determination may be appealed within 30 days by writing to the FOIA/PA Officer, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001. Clearly state on the envelope and in the letter that it is a "FOIA/PA Appeal."

PART I.C COMMENTS (Use attached Comments continuation page if required)

The records identified on Appendices A, B and C are publicly available in the NRC's Public Electronic Reading Room at <http://www.nrc.gov/reading-rm>. If you need assistance in obtaining these records, please contact the NRC's Public Document Room (PDR) at 301-415-4737, or 1-800-397-4209, or by e-mail to pdr@nrc.gov.

The incoming FOIA/PA-2007-0299 request is located in ADAMS at ML072280014.

SIGNATURE - FREEDOM OF INFORMATION ACT AND PRIVACY ACT OFFICER

Russell A. Nichols

APPENDIX A
RECORDS ALREADY PUBLICLY AVAILABLE

<u>NO.</u>	<u>DATE</u>	<u>ACCESSION NUMBER</u>	<u>DESCRIPTION/(PAGE COUNT)</u>
1.	03/08/04	ML033360599	EA-03-214 Confirmatory Order Modifying License for FENOC/Davis-Besse signed by J. Dyer (6 pages)
2.	04/21/05	ML051090552	EA-03-025, 05-066, 05-067, 05-068, 05-069, 05-070, 05-071, 05-072 Letter to G. Leidich, FENOC, from E. Merschoff, DEDO, Subject: NOV and Proposed Imposition of CP - \$5,450,000 (22 pages)
3.	09/14/05	ML052630149	Letter to M. Johnson, OE, from G. Leidich, FENOC, Subject: Reply to NOV (26 pages)
4.	12/06	ML071350034	Report on Reactor Pressure Vessel Wastage at the Davis-Besse Nuclear Power Plant by R. Mattson (63 pages)
5.	03/20/07	ML070860211	Letter to USNRC from D. Pace, FENOC, Subject: Submittal of Exponent Failure Analysis Associates Report (23 pages)
6.	04/02/07	ML070930162	Letter to D. Pace, FENOC, from J. Caldwell, RIII, Subject: Report Prepared by Exponent Failure Analysis Association and Altran Solutions Corporation (Exponent) Regarding Reactor Pressure Vessel Head Wastage at the Davis-Besse Nuclear Power Plant (5 pages)
7.	05/02/07	ML071240299	Letter to USNRC, from D. Pace, FENOC, Subject: Request for Response Regarding Report Prepared by Exponent Failure Analysis Associates and Altran Solutions Corporation Regarding Reactor Pressure Vessel Head Wastage at the Davis-Besse Nuclear Power Plant (11 pages)
8.	05/04/07	ML071240254	Memo to M. Evans, NRR, from W. Cullen, RES, J. Collins, NRR, Subject: Assessment of Exponent Report Project Number BN63097.001, Review and Analysis of the Davis-Besse March 2002 Reactor Pressure Vessel Head Wastage Event," to Ensure

			Current Reactor Pressure Vessel Head Inspection Requirements are Adequate to Prevent Significant Head Wastage (8 pages)
9.	05/14/07	ML071340325	EA-07-123, Letter to A. Alexander, FENOC, from C. Carpenter, OE, Subject: Demand for Information (12 pages)
10.	05/14/07	Att-ML071340333	Memo to M. Lesar, RDB/ADM, from C. Carpenter, OE, Subject: Federal Register Publication DFI Anthony Alexander, Att-FRN (9 pages)
11.	05/14/07	ML071300409	EN-07-123 (2 pages)
12.	06/13/07	ML071640480	Letter to C. Carpenter, OE, from J. Hagan, FENOC, Subject: Response to DFI (63 pages)
13.	06/18/07	ML071780028	Slides by D. Lochbaum, UCS (16 pages)
14.	07/09/07	ML071830470	Letter to B. Garde, from C. Carpenter, OE, Subject: Request for a Transcript of the June 27, 2007, Public Meeting with FirstEnergy Nuclear Operating Company Regarding the NRC's May 14, 2007 Demand for Information (1 page)
15.	07/16/07	ML071970444	Letter to C. Carpenter, OE, from A. Alexander, FENOC, Subject: Supplemental Information Regarding the FENOC Response to DFI (12 pages)
16.	08/13/07	ML072260039	EA-07-199 Letter to A. Alexander, FENOC, from C. Carpenter, OE, Subject: Commitments to be Confirmed by Order Modifying License (12 pages)
17.	08/14/07	ML072260025	Confirmatory Order (2 pages)
18.	08/14/07	ML072260545	Ltr. to C. Carpenter, OE, from G. Halnon, Subject: Confirmation of Commitments by Order Modifying License (2 pages)
19.	08/15/07	ML072260535	EA-07-199 Letter to A. Alexander, FENOC, from C. Carpenter, OE, Subject: Confirmatory Order (16 pages)
20.	4/17/03	ML031080174	NRC News, No. S-03-010 (10 page)
21.	11/14/05	ML053180151	Staff Requirements Memorandum, Briefing on Implementation of Davis Besse (1 page)
22.	10/29/02	ML023020644	NRC News No. S-02-027 (8 pages)

23. 10/21/03 ML032940500 NRC News No. S-03-024 (6 pages)

**APPENDIX B
RECORDS ALREADY PUBLICLY AVAILABLE**

NO.	DATE	ACCESSION NUMBER	DESCRIPTION/(PAGE COUNT)
1.	08/07/2007	ML072070145	Summary of June 27, 2007, Public Meeting Regarding FENOC's Re-analysis of the Time Line and Root Causes for the 2002 Davis-Besse Reactor Pressure Vessel Head Degradation Event. 12 Page(s)
2.	06/21/2007	ML071710346	06/27/2007 Revised Notice of Meeting with FirstEnergy to Discuss Response to NRC's 05/14/2007, Demand for Information Regarding FENOC's Re-analysis of the Timeline and Root Causes for the 2002 Davis-Besse Reactor Pressure Vessel Head Degradation Event. 9 Page(s)
3.	06/27/2007	ML071790596	06/27/2007 Slides from Public Meeting between NRC and FENOC Regarding Response to May 14, 2007, Demand for Information. 24 Page(s)
4.	05/04/2007	ML071350034	Submittal of Expert Witness Report Prepared by Roger J. Mattson. 99 Page(s)
5.	03/20/2007	ML070860216	FirstEnergy Nuclear Operating Company, Submittal of Exponent Failure Analysis Associates Report, "Review and Analysis of the Davis-Besse March 2002 Reactor Pressure Vessel Head Wastage Event." 3 Page(s)
6.	12/15/2006	ML070860242	"Review and Analysis of the Davis-Besse March 2002 Reactor Pressure Vessel Head Wastage Event," Cover and Table of Contents. 18 Page(s)
7.	03/15/2007	ML070860248	"Review and Analysis of the Davis-Besse March 2002 Reactor Pressure Vessel Head Wastage Event," Section 1. Introduction, Purpose and Scope. 5 Page(s)
8.	03/15/2007	ML070860250	"Review and Analysis of the Davis-Besse March 2002 Reactor Pressure Vessel Head Wastage Event," Section 2. Principal Conclusions and Opinions. 15 Page(s)
9.	03/15/2007	ML070860253	"Review and Analysis of the Davis-Besse March 2002 Reactor Pressure Vessel Head

- Wastage Event," Section 3. Background. 16 Page(s)
10. 03/15/2007 ML070860256 "Review and Analysis of the Davis-Besse March 2002 Reactor Pressure Vessel Head Wastage Event," Section 4. The Davis-Besse March 2002 Event. 34 Page(s)
11. 03/15/2007 ML070860261 "Review and Analysis of the Davis-Besse March 2002 Reactor Pressure Vessel Head Wastage Event," Section 5. Worldwide Industry Response to CRDM and Other Alloy 600 Nozzle Cracking. 50 Page(s)
12. 03/15/2007 ML070860264 "Review and Analysis of the Davis-Besse March 2002 Reactor Pressure Vessel Head Wastage Event," Section 6. Boric Acid Wastage of Carbon Steel Components in US PWR Plants. 55 Page(s)
13. 03/15/2007 ML070860268 "Review and Analysis of the Davis-Besse March 2002 Reactor Pressure Vessel Head Wastage Event," Section 7. FENOC/Davis-Besse Response to CRDM Cracking and Boric Acid Corrosion Issues. (53 pages)
14. 03/15/2007 ML070860271 "Review and Analysis of the Davis-Besse March 2002 Reactor Pressure Vessel Head Wastage Event," Section 8. Stress Analysis and Crack Growth Rates for Davis-Besse CRDM Nozzles 2 and 3. (37 pages)
15. 03/15/2007 ML070860276 "Review and Analysis of the Davis-Besse March 2002 Reactor Pressure Vessel Head Wastage Event," Section 9. CFD Modeling of Fluid Flow in CRDM Nozzle and Weld Cracks and through Annulus. 68 Page(s)
16. 03/15/2007 ML070860280 "Review and Analysis of the Davis-Besse March 2002 Reactor Pressure Vessel Head Wastage Event," Section 10. The Unique Nature of the Davis-Besse Nozzle 3 Crack and the RPV Head Wastage Cavity. 29 Page(s)
17. 03/15/2007 ML070860281 "Review and Analysis of the Davis-Besse March 2002 Reactor Pressure Vessel Head Wastage Event," Appendix A, Finite Element Stress Analysis of Davis-Besse CRDM Nozzle 3 Penetration. 31 Page(s)
18. 03/15/2007 ML070860282 "Review and Analysis of the Davis-Besse

- March 2002 Reactor Pressure Vessel Head Wastage Event," Appendix B, Crack Driving Force and Growth Rate Estimates. 16 Page(s)
19. 03/15/2007 ML070860284 "Review and Analysis of the Davis-Besse March 2002 Reactor Pressure Vessel Head Wastage Event," Appendix C, CFD Analysis. 140 Page(s)
20. 03/15/2007 ML070860286 "Review and Analysis of the Davis-Besse March 2002 Reactor Pressure Vessel Head Wastage Event," Appendix D, Leak Rate vs. Crack Length Calculations. 12 Page(s)
21. 03/15/2007 ML070860288 "Review and Analysis of the Davis-Besse March 2002 Reactor Pressure Vessel Head Wastage Event," Appendix E, Fluid Jet Cutting of Davis-Besse RPV Head Materials. 9 Page(s)
22. 03/15/2007 ML070860289 "Review and Analysis of the Davis-Besse March 2002 Reactor Pressure Vessel Head Wastage Event," Appendix F, Ronald M. Latanision, Ph.D. 44 Page(s)
23. 03/15/2007 ML070860291 "Review and Analysis of the Davis-Besse March 2002 Reactor Pressure Vessel Head Wastage Event," Appendix G, Daniel B. Bullen, Ph.D., P.E. 13 Page(s)
24. 03/15/2007 ML070860293 "Review and Analysis of the Davis-Besse March 2002 Reactor Pressure Vessel Head Wastage Event," Appendix H, Professor R.G. Ballinger. 16 Page(s)
25. 04/04/2007 ML070950293 FENOC Submittal of 2/23/07 Letter from Nuclear Electric Insurance Limited (NEIL). 7 Page(s)
- ~~26. 05/14/2007 ML071300400 EN-07-028 FirstEnergy Nuclear Operating Company, Beaver Valley Power Station, Units 1 and 2, Davis-Besse Nuclear Power Station, Perry Nuclear Power Plant. 2 Page(s)~~

**APPENDIX C
RECORDS ALREADY PUBLICLY AVAILABLE**

<u>NO</u>	<u>Accession #</u>	<u>DATE</u>	<u>DESCRIPTION/ (PAGE COUNT)</u>
1	ML021130029	04/18/2002	Confirmatory Action Letter Response - Root Cause Analysis Report (184 pages)
2	ML033650298	09/23/2002	Confirmatory Action Letter Response - Revision 1 to Root Cause Analysis Report regarding Reactor Pressure Vessel Head Degradation (186 pages)
3	ML070860216	09/20/2007	FirstEnergy Nuclear Operating Company, Submittal of Exponent Failure Analysis Associates Report, "Review and Analysis of the Davis-Besse Reactor Pressure Vessel Head Wastage Event" (3 pages)
4	ML070860242	12/15/2006	Review and Analysis of the Davis-Besse March 2002 Reactor Pressure Vessel Head Wastage Event Cover and Table of Contents (18 pages)
5	ML071030138	04/04/2007	Davis-Besse, Submittal of february 23, 2007 letter from Nuclear Electric Insurance Limited (7 pages)
6	ML071210042	04/30/2007	2007/04/30, David Geisen - Letter from Lisa B. Clark to Administrative Judges regarding status of Geisen hearing (1 pages)
7	ML071210285	04/30/2007	G20070297, 05/30/2007 David A. Lochbaum Ltr. Re: Petition Pursuant to 2.206 - Protection Against Control Rod Drive Mechanism (CRDM) Nozzle leakage Fast Corrosion Scenario or More FirstEnergy Falsehoods (5 pages)
8	ML071210427	04/26/2007	2007/04/26 - Davis Geisen - Letter from Richard Poole to Lisa B. Clark regarding David Geisen Proceeding (5 pages)
9	ML071240290	05/04/2007	2007/05/04 - Davis Besse - Letter of 05/05/2007 to DOJ Regarding FENOC Exponent Report (2 pages)
10	ML071240295	05/03/2007	05/03/2007, Acknowledgement of Receipt of FENOC Response to Davis-Besse Exponent Failure Analysis Report (4 page)
11	ML071280385	05/01/2007	G20070318/LTR-07-0322 - Ltr. Representative Dennis J. Kucinich Re: 2.206 Petition Requesting the NRC Take Safety Related actions to Ensure that Reactor Heads Do Not Degrade To The Point of

**APPENDIX C
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			Failure Document Request - 2.206/FirstEnergy (4 pages)
12	ML071290054	05/02/2007	Davis-Besse - Response to NRC Request Regarding Report Prepared by Exponent Failure Analysis associates and Altran Solutions Corporation Regarding Reactor Pressure vessel Head Wastage (11 pages)
13	ML071300245	05/18/2007	G20070297 - Letter to Mr. D. Lochbaum re: Protection Against Control Rod Drive Mechanism Nozzle Leakage Fast corrosion Scenario or More FirstEnergy Falsehoods - Davis-Besse (5 pages)
14	ML071340193	05/10/2007	G20070297 - David Lochbaum Ltr. re Supplement to Petition Pursuant to Section 2.206 - Protection Against control rod Drive Mechanism (CRDM) Nozzle Leakage Fast Corrosion Scenario or More FirstEnergy Falsehoods (3 pages)
15	ML071340331	05/14/2007	Federal Register Notice - demand for Information (DFI), Anthony Alexander, FirstEnergy Nuclear Operating Company (7 pages)
16	ML071340379	05/14/2007	Press Release 07-061 - NRC Demands Information from First Energy Regarding Davis-Besse Nuclear Power Plant (1 page)
17	ML071350034	05/04/2007	Submittal of Expert Witness Report Prepared by Roger J. Mattson (99 pages)
18	ML071380428	05/21/2007	G20070318/LTR-07-0322 - Safety Related Actions to Ensure Reactor Heads to Not Degrad - Letter to Honorable Dennis Kucinich from Lius Reyes (2 pages)
19	ML071520343	06/07/2007	6/08/2007 Notice of Meeting with Union of Concerned Scientists Re Davis-Besse Nuclear Power station 10 CFR 2.206 Petition concerning Protection Against Control Rod Drive Mechanism Nozzle Leakage Fast Corrosion Scenario (6 pages)
20	ML071620212	06/13/2007	06/27/2007, Notice of Meeting with FirstEnergy Regarding May 14, 2007 demand for Information re: Davis-Besse (9 pages)
21	ML071640348	05/22/2007	Y020070131 - Estimated Time it May Take for 7 inches of PWR Upper Head Steel to Dissolve (4 pages)

**APPENDIX C
RECORDS ALREADY PUBLICLY AVAILABLE**

22	ML071710346	06/21/2007	6/27/2007 Revised Notice of Meeting with firstEnergy to discuss Response to NRC's 05/14/2007, demand for information regarding FENOC's Re-analysis of the timeline and Root Causes for the 2002 Davis-Besse Reactor Pressure Vessel Head degradation (9 pages)
23	ML071790100	06/27/2007	Y020070131 - Letter Response to T. Gurdziel, Re: RPV Head Inspections and the Exponent Report (2 pages)
24	ML071800082	07/13/2007	6/18/2007, Summary of Public Meeting with Union of Concerned Scientists (UCS) re: Petition for Enforcement Action Pursuant to 10 CFR 2.206 on Protection Against Control Rod Drive Mechanism Nozzle Leakage Fast Corrosion Scenario for Davis-Besse (8 pages)
25	ML071840004	06/18/2007	6/18/2007, Transcript of Meeting with Union of Concerned Scientists Requesting Action Under 10CFR2.206 Regarding Protection Against control Rod Drive Mechanism Nozzle Leakage Fast Corrosion Scenario (46 pages)
26	ML071870443	07/12/2007	G20070297 - Mr. David Lochbaum Ltr Re: Davis-Besse -2.206 - Protection Against CRDM Nozzle leakage Fast Corrosion Scenairo (7 pages)
27	ML072270150	08/15/2007	Press Release 07-102 - NRC Issues Order to FirstEnergy Regarding Information Relevant to Regulatory Activities (1 page)