



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

2006-0115

2

RESPONSE TYPE FINAL PARTIAL

REQUESTER

Paul Gunter

DATE

MAR 17 2006

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.
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| APPENDICES C |
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 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.
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| APPENDICES D |
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 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.
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| APPENDICES D |
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 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 * \$ | <input type="checkbox"/> You will be billed by NRC for the amount listed. | <input type="checkbox"/> None. Minimum fee threshold not met. |
| | <input type="checkbox"/> You will receive a refund for the amount listed. | <input type="checkbox"/> 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)

Records D/27, D/100, D/113 and D/114 are copyrighted and therefore not enclosed. Should you wish to view 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-2006-0115 request is located in ADAMS at ML060460387.

SIGNATURE - FREEDOM OF INFORMATION ACT AND PRIVACY ACT OFFICER

Russell A. Nichols

**APPENDIX C
RECORDS ALREADY PUBLICLY AVAILABLE**

| <u>NO.</u> | <u>DATE</u> | <u>ACCESSION NUMBER</u> | <u>DESCRIPTION/(PAGE COUNT)</u> |
|------------|-------------|-----------------------------|---|
| 1. | 04/26/2002 | ML021200100 | Part 1 of 2, Braidwood Station, Units 1 and 2, 2001 (184 pages) |
| 2. | 04/25/2003 | ML031220640 | Braidwood Units 1 & 2, 2002 Radioactive Effluent Release Report (1 page) |
| 3. | 04/30/2004 | ML041270044 | Braidwood Units 1 & 2, 2003 Radioactive Effluent Release Report (69 pages) |
| 4. | 06/23/2004 | ML041830057 | Addendum to 2003 Braidwood Station Annual Radioactive Effluent Release Report (4 pages) |
| 5. | 04/27/2005 | ML051300022 | Braidwood Station, Units 1 & 2, 2004 Radioactive Effluent Release Report (65 pages) |
| 6. | 05/11/2005 | ML051390303 | Braidwood Station, Units 1 & 2, 2004 Annual Radiological Environmental Operation Report (179 pages) |
| 7. | 02/03/2006 | ML060340583 | PNO-III-05-016C (2 pages) |

**APPENDIX D
RECORDS BEING RELEASED IN THEIR ENTIRETY
(If copyrighted identify with *)**

| <u>NO.</u> | <u>DATE</u> | <u>DESCRIPTION/(PAGE)</u> |
|------------|-------------|---|
| 1 | Undated | EDO Daily Note - Braidwood Tritium Contamination (1 page) |
| 2 | Undated | CRA Draft Memorandum (8 pages)] |
| 3 | Undated | Figure 21.5-25 Geologic Section H-H' Braidwood Station Updated Final Safety Analysis Report (1 page) |
| 4 | Undated | Drawing showing Braidwood Station, Essex Road, Blowdown Structure at River screen House and 11 OCW numbered items (1 page) |
| 5 | Undated | Aerial View Showing North (1 page) |
| 6 | Undated | Anne Boland - 16841-00(PRES003) GN-WA002-Figure 1.pdf (1 page) |
| 7 | Undated | Anne Boland - 16841-00(PRES003) GN-WA005-Figure 3.pdf (1 page) |
| 8 | Undated | Braidwood Tritium Issue (1 page) |
| 9 | Undated | Aerial View Map with VB and Named Property Locations (1) |
| 10 | Undated | Table 1 Chronological list of events (1 page) |
| 11 | Undated | Background Information - Circ Water Blowdown System for Root cause report for the 2000 evaluation with drawing (2 pages) |
| 12 | Undated | Diagram of plume from VB-3, Tritium Results (Picocuries/Liter) (1 page) |
| 13 | Undated | Outdoor Piping Arrangement M-900 |
| 14 | Undated | Figure 1 Site Plan and Well Locations Braidwood Station (1 page) |
| 15 | Undated | Presentation Slides, Eli A. Port, CHP, CIH, P.E. (15 pages) |
| 16 | Undated | Questions (1 page) |
| 17 | Undated | Diagram - APCO Slow Closing Air/Vacuum Valves (1 page) |
| 18 | Undated | Glossary - Illinois Environmental Protection Act (8 pages) |
| 19 | Undated | Handwritten notes (1page) |

- 20 Undated Exelon Nuclear, ER-BR-400-01, Unit Common Circulating Water System Blowdown and Makeup Vacuum Breaker Valve Annual Inspection (15 pages)
- 21 Undated Handwritten notes - EDO Dail Note - Plan of Action (1 page)
- 22 Undated Illinois Department of Health Business cards for Runkle, Flentge, Allen (1 page)
- 23 Undated Map of Braidwood Station showing Blowdown House at River and River Screen House on page 3 (3 pages)
- 24 Undated Note: Per the EDO's request, an update being provided...(1 page)
- 25 Undated Opening Remarks by Steve Orth (5 pages)
- 26 Undated Administrative Controls Programs and Manuals 5.5 (5 pages)
- 27 Undated Chicago Tribune Metro Article, Radioactive spill in preserve (1 page)
- 28 Undated Site Specific Hydrogeologic Profile (1 page)
- 29 Undated 10CFR50.75(g) for Circulating Water Vacuum Breaker Valve (OCW030) Leak Revision 0 (3 pages)
- 30 Undated Characterization Report for Vacuum Breaker 1 and Ditch East of Switchyard (10 pages)
- 31 Undated Braidwood Groundwater Contamination (1 page)
- 32 2000 Braidwood Nuclear Power Station Radioactive Effluent Release Report for 2000, Unit 1 and 2 Combined (Docket Numbers 50-456 and 50-457) Braidwood Nuclear Power Station (1 page)
- 33 11/06/2000 10CFR50.75(g)(1) Documentation on Circulating Water Blowdown Line Vacuum Breaker Leak discovered on 11/6/2000 (7 pages)
- 34 11/06/2000 Circ Water Blowdown Line Vacuum Breaker Failure due to loss stress,...(19 pages)
- 35 11/06/2000 PIF#2000-04281, Failed Circ Water Blowdown Vacuum Breaker Caused Unplanned Flooding Outside of the Power Block (2 pages)
- 36 11/07/2000 Photo dated 11/7/2000 11:01 am (1 page)
- 37 11/07/2000 Photo dated 11/7/7/2000 11:08 am (1 page)
- 38 01/2001 Braidwood Revision 5 of Table 11a (Continued) Teen Inhalation Dose Factors (40 pages)

39 02/05/2001 Document from Kim Aleshire and Rick Thacker re: CW0557/58 Vacuum Breaker Vault Leak (9 pages)

40 05/2001 Braidwood Revision 5 to Chapter 12.0, May 2001 (70 pages)

41 10/2001 Braidwood Revision 4 to Chapter 10, Braidwood Annex Index (22 pages)

42 01/2002 Braidwood Revision 5 to Chapter 10, Braidwood Annex Index (22 pages)

43 01/2002 Exelon Nuclear Offsite Dose Calculation Manual, Revision 3, January 2002 (300 pages)

44 07/2002 EPA Facts About Tritium (2 pages)

45 12/2002 B/B - UFSAR, Section 11.2, Liquid Waste Management Systems (45 pages)

46 2/2005 Fact Sheet, USNRC, Environmental Monitoring (2 pages)

47 03/24/2005 Aerial Photo of Braidwood Piezometers, Blowdown Line etc...(1 page)

48 04/01/2005 AR #00328451 Report: Tritium Indicated in Samples Taken from Onsite Culvert (3 pages)

49 06/09/2005 Draft Proposed Staff Gauge and Monitoring Well Locations (1 page)

50 07/22/2005 Basemap Showing Approximate Location of Proposed Borings, Exelon - Braidwood Station (1 page)

51 08/2005 Argonne National Laboratory, Human Health Fact Sheet, Tritium (Hydrogen-3) (2 pages)

52 11/2005 Braidwood Station Tritium Monitoring Update to NRC and IEMA (9 pages)

53 11/2005 November 2005 Log - Liquid Release (1 page)

54 11/03/2005 Exelon Work Order #00769127, Circ Water Blowdown & Makeup Vacuum Breaker Annual Inspection (19 pages)

55 11/04/2005 AR #00371248 Report: NRC Questions on Previous Actions with CW Blwdwn Vac Brkrs (2 pages)

56 11/04/2005 AR #00371248, Assign # 02, In progress notes (2 pages)

57 11/17/2005 Braidwood Station Tritium Sample Results; NRC Split Sample Results (6 pages)

58 11/17/2005 John House - Tritium Sample Results.xls (4 pages)

59 11/28/2005 Groundwater Contours, November 2005 Braidwood Station (1 page)

60 11/28/2005 Figure 1, Site Plan and Well Locations Braidwood Station (1 page)

61 11/28/2005 Figure 1, Site Plan and Well Locations Braidwood Station (1 page)

62 11/28/2005 Figure 1, Site Plan and Well Locations Braidwood Station (1 page)

63 11/28/2005 Figure 3, Tritium In Groundwater November 2005 Braidwood Station (1 page)

64 11/28/2005 Figure, Tritium Contours November 2005 Braidwood Station (1 page)

65 11/28/2005 Figure, Tritium Contours November 2005 Braidwood Station (1 page)

66 11/28/2005 Figure, Tritium Contours November 2005 Braidwood Station (1 page)

67 11/29/2005 PIF Summary Report (PIF #A1998-04324) (4 pages)

68 11/30/2005 NRC email from Richard Skokowski to Steven Orth re:Fwd: Crs re: tritium leak frm vac brkrs (14 pages)

69 11/30/2005 NRC email from Richard Skokowski to James Caldwell re:Braidwood Groundwater Tritium Issue (2 pages)

70 11/30/2005 Braidwood Notice of Elevated Tritium Levels In on-site monitoring wells (3 pages)

71 11/30/2005 Braidwood Groundwater Contamination (1 page)

72 12/2005 Aerial Photo: Average Groundwater Level Contours (1 page)

73 12/01/2005 NRC email Grant to Boland et al re: Braidwood Groundwater (1 page)

74 12/01/2005 NRC email from Mark Satorius to Anne Boland, et al re: Fwd: Braidwood Tritium (1 page)

75 12/01/2005 NRC email from Steven Orth to Monte Phillips re: Braidwood EDO Bulletin (2 pages)

76 12/01/2005 NRC email from James Caldwell to Anne Boland; Cynthia Pederson Re:Fwd: Braidwood Tritium (1 page)

77 12/01/2005 Exelon email from Dale Ambler to Steve Orth (sko) Re: Attendees at PN debrief (4 pages)

78 12/01/2005 NRC email from Anne Boland to Geoffrey Grand and James Caldwell RE:Fwd: PNO-R111-05-016 (4 pages)

79 12/01/2005 Exelon email from Dale Ambler to Steve Orth (sko) RE: Attendees at PN Debrief (1 page)

80 12/01/2005 NRC email from Anne Boland to Steven Orth RE: Fwd: Braidwood Tritium (1 page)

81 12/01/2005 NRC email from Steven Orth to ATB (Anne Boland) RE: Fwd: Braidwood Tritium (1 page)

82 12/01/2005 Figure 2, Tritium In Groundwater and Surface Water, Braidwood Station (2 pages)

83 12/01/2005 Document: Environmental, Inc. Midwest Laboratory to John Wilson Health Physics, Report No. 8004-100-1863 (1 page)

84 12/01/2005 NRC email w/att, from Jan Strasma to Richard Skokowski et al re: Draft PN on Braidwood (2 pages)

85 12/02/2005 Midwest Laboratories email from Ellen Saar to James R. Meister et al; Tritium (1 page)

86 12/02/2005 NRC email from Nirodh Shah to Richard Skokowski RE: Fwd FW: News Release to be issued at 10am today, Friday 12/2/2005 (6 pages)

87 12/02/2005 NRC email from Justine Burza to WEBWORK RE: Document public availability notice - PNO - Potential Off-Site Migration of Tritium Contamination (1 page)

88 12/02/2005 NRC email from Nirodh Shah to Steven Orth, RE: Tritium Comm. Plan (1 page)

89 12/02/2005 Webcontractor email to Justine Burza and Viktoria Mitlyng RE: PNO-RIII-05-016 (1 page)

90 12/02/2005 NRC email from Justine Burza to Steven Orth, RE: Fwd: Re: PNO-RIII-05-016 (1 page)

91 12/02/2005 NRC email from Steven Orth to Peter Habighorst RE: Braidwood Groundwater Sampling and Analysis (1 page)

92 12/02/2005 NRC email from John House to Steven Orth RE: Braidwood Samples (1 page)

93 12/02/2005 NRC email from Anne Boland to Steven Orth RE: Fwd: Re: Braidwood Communication Plan (DRAFT) (1 page)

94 12/02/2005 Figure 6, Recent Sample Results (2 pages)

95 12/02/2005 Request for Analysis and Chain of Custody (2 pages)

96 12/02/2005 Request for Analysis and Chain of Custody (11 pages)

97 12/02/2006 EPA Information Home Page - Tritium (4 pages) *

98 12/02/2005 NRC email from Boland to Orth re: Fwd: Re: Braidwood Communication Plan (DRAFT) (1 pages)

99 12/03/2005 NRC email from Anne Boland to Steven Orth, RE: Braidwood Communication Plan (DRAFT) (1 page)

100 12/04/2005 Chicago Tribune Online Edition - High Radiation near power plant (2 pages)

101 12/05/2005 NRC email from Steven Orth to Thomas Kozak, Re: Braidwood EDO Note for 05Dec2005 (2 pages)

102 12/05/2005 NRC email from Jan Strasma to Anne Boland et al; RE:News media coverage of Braidwood tritium in the environment (1 page)

103 12/05/2005 NRC email from Anne Boland to Mark Satorius RE: Green Ticket (URGENT) INITIATION (1 page)

104 12/05/2005 NRC email from Anne Boland to Cynthia Pederson RE: News media coverage of Braidwood tritium in the environment (1 page)

105 12/05/2005 NRC email from Anne Boland to Steven West RE: Braidwood green ticket/AITS (1 page)

106 12/05/2005 NRC email from Anne Boland to Peter Habighorst et al; RE:News media coverage of Braidwood tritium in the environment (1 page)

107 12/05/2005 NRC email from Nirodh Shah to Steven Orth et al; RE: Braidwood Station Sample Results (1 page)

108 12/05/2005 NRC email from Anne Boland to Michael Case et al; RE: Braidwood Groundwater Sampling and Analysis (1 page)

109 12/05/2005 NRC email from Anne Boland to Bruce Boger et al; RE Braidwood green ticket/AITS (1 page)

110 12/05/2005 NRC email from Anne Boland to Steven Orth RE: fwd question (1 page)

111 12/05/2005 Exelon email from Kenneth Ainger to John House; RE: Braidwood Station Aerial Photos (4 pages)

112 12/05/2005 John House - EDO Bullet (05Dec05).wpd (1 page)

113 12/05/2005 Herald News Online - Elevated tritium levels not a danger (2 pages)

114 12/05/2005 Morris Daily Herald Online - High level of tritium no threat to public (2 pages)

115 12/05/2005 Event Notification Report; Offsite Notification - Elevated Levels of Tritium

Found in Groundwater (1 page)

116 12/05/2005 NRC email from Satorius to Branch Chiefs re: Fwd: Green Ticket (URGENT) INITIATION (1 pages)

117 12/06/2005 NRC email from Justine Burza to Betsy Keeling et al; RE: Memo 12/6/05 Braidwood Comm Plan (3 pages)

118 12/06/2005 NRC email from Richard Skokowski to Anne Boland et al; RE: Braidwood sample pictures (25 pages)

119 12/06/2005 NRC email from Jan Strasma to Anne Boland et al; Exelon's external activities at Braidwood (1 page)

120 12/06/2005 NRC email from Anne Boland to Cynthia Pederson RE: Exelon's external activities at Braidwood (1 page)

121 12/06/2005 Diagram of Circulating Water Make-up Units 1 and 2 (1 page)

122 12/06/2005 Figure Estimated Tritium Concentrations December 6, 2005 Braidwood Station (6 pages)

123 12/06/2005 Figure Estimated Tritium Concentrations December 6, 2005 Braidwood Station (1 page)

124 12/06/2005 Figure Estimated Tritium Concentrations December 6, 2005 Braidwood Station (1 page)

125 12/06/2005 DRAFT - Figure Version 2 Select Locations - Hand Contours December 6, 2005 Braidwood Station (1 page)

126 12/07/2005 NRC email Strasma to Boland et al re: Draft Braidwood PN Update (1 page)

127 12/07/2005 NRC email from Anne Boland to Jan Strasma RE: Exelon's external activities at Braidwood (1 page)

128 12/07/2005 NRC email from Justine Burza to PN Recipients RE: PNO-III-05-016A (4 pages)

129 12/07/2005 NRC email from Justine Burza to Steven Orth RE: PNO-III-05-016A

130 12/07/2005 NRC email from Anne Boland to Stephen Klementowicz RE: Radiological Release Information for Chairman's Staff (1 page)

131 12/07/2005 NRC email from Anne Boland to Betsy Keeling et al; PNO-III-05-016A (1 page)

132 12/07/2005 NRC email from Anne Boland to A. Randolph Blough et al; PNO-III-05-016A (1 page)

- 133 12/07/2005 NRC email from Anne Boland to John White RE: PNO-III-05-016A (1 page)
- 134 12/07/2005 Exelon email from Allan Hager to Steven Orth RE: Attendees at conference call (1 page)
- 135 12/08/2005 Exelon email from Kenneth Ainger to Steven Orth RE: Braidwood Station Tritium (2 pages)
- 136 12/08/2005 NRC email from Steven Orth to Braidwood Communications Team; RE: Braidwood Tritium – Recent Contamination Contours, etc. (2 pages)
- 137 12/08/2005 WEBCONTRACTOR email to Justine Burze RE: PNO-III-05-016A (1 page)
- 138 12/08/2005 NRC email from Steven Orth to A. Randolph Blough et al; RE Braidwood Tritium – Recent Contamination Contours, etc. (3 pages)
- 139 12/08/2005 NRC E-mail from Jamnes Cameron to Decommissioning Branch, RE: Braidwood Water Samples (1 page)
- 140 12/08/2005 NRC email from Steven Orth to Eugenio Bonano et al; Re: Braidwood water samples (1 page)
- 141 12/08/2005 NRC email from Anne Boland to Cynthia Pederson et al; 50.72 reports since 1985 dealing with Tritium (3 pages)
- 142 12/08/2005 John House - EDO Bullet (08Dec2005).wpd Braidwood Broundwater Contamination (Update) (1 page)
- 143 12/08/2005 Email from John Gumnick to Vickers, Robert et al re: Potential ODCM Pathways (1 page)
- 144 12/09/2005 NRC email from Steven Orth to Plant Support Team RE: Braidwood water samples (2 pages)
- 145 12/09/2005 NRC email from Steven Orth to Thomas Kozak RE: Braidwood EDO Call Bullet for December 8, 2005 (2 pages)
- 146 12/09/2005 NRC email from Steven Orth to Thomas Kozak, RE: Braidwood EDO Daily Note (December 9, 2005) (2 pages)
- 147 12/09/2005 NRC email from Monte Phillips to Steven Orth et al; RE: Braidwood EDO Daily Note (December 9, 2005) (1 page)
- 148 12/09/2005 NRC email from Steven Orth to Jan Strasma et al; RE: Braidwood Meeting Location - - Monday, December 12, 2005 (1 page)
- 149 12/09/2005 NRC email from Steven Orth to John House RE: Division Meeting -

Thursday Dec 13 (1 page)

- 150 12/09/2005 NRC email from Jan Strasma to Anne Boland et al; RE: Monday's meeting (3 pages)
- 151 12/09/2005 NRC email from Anne Boland to Geoffrey Grant and James Caldwell RE: Revision 1 to Braidwood Communications Plan (1 page)
- 152 12/09/2005 Braidwood Plant Inspection Plan - Event Followup Inspection - Tritium Release (3 pages)
- 153 12/09/2005 Condition Report #428868, Root Cause Investigation Charter, Tritium Release from Braidwood Station with a Potential to Affect the Public (2 pages)
- 154 12/12/2005 NRC email from Anne Boland to James Lynch et al; RE: Short Meeting this Morning (1 page)
- 155 12/12/2005 NRC email from Richard Skokowski to John House et al; RE: Braidwood EDO Call Bullet for December 8, 2005 (3 pages)
- 156 12/12/2005 NRC email from John House to Anne Boland; RE: Braidwood EDO Call Bullet for December 8, 2005 (4 pages)
- 157 12/12/2005 NRC email from Anne Boland to Monte Phillips RE: Update EDO Note (2 pages)
- 158 12/12/2005 NRC email from Anne Boland to Cynthia Pederson et al; RE: Briefing with Senator Obama's Staff (1 page)
- 159 12/12/2005 NRC email from Phillips to DRP et al re: OpE - Braidwood - Tritium Contamination in Ground Water (1 page)
- 160 12/12/2005 NRC email from Gregory Roach to Wayne Slawinski RE: Tritium update (1 page)
- 161 12/12/2005 Figure Site Plan with Monitoring Locations, Braidwood Station (1 page)
- 162 12/12/2005 Exelon Presentation, Braidwood Generating Station Groundwater Update (12 pages)
- 163 12/12/2005 NRC email from Nirodh Shah to Jan Strasma, et al, re: FW: Requested Local Residents Meeting Info (Monday, Dec. 12) (1 pages)
- 164 12/13/2005 NRC email from John House to Ryan Alexander RE: Braidwood Station Sample Results (7 pages)
- 165 12/13/2005 NRC email from Wayne Salwinski to Anne Boland RE: Final Draft of Communication Plan (1 page)

- 166 12/13/2005 NRC email from Anne Boland to Monte Phillips RE: EDO Note (1 page)
- 167 12/13/2005 Internet email from Dale Condra to Eugenio Bonano RE: Second Submission of Preliminary Tritium Data for selected water samples from Braidwood NGS 12-13-05 (3 pages)
- 168 12/13/2005 NRC email from Eugenio Bonano to John House et al; RE: Second Submission of Preliminary Tritium Data for selected water samples from Braidwood NGS 12-13-05 (3 pages)
- 169 12/13/2005 NRC email from Anne Boland to Nirodh Shah RE: Thanks (1 page)
- 170 12/13/2005 NRC email from Nirodh Shah to Jan Strasma RE: Questions from Bwd semi-public mtg on tritium 12/12 (7 pages)