



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

2001-0102

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RESPONSE TYPE FINAL PARTIAL

REQUESTER

Andrew Russell

DATE

APR 04 2001

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** 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 **B** 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, 2120 L Street, NW, Washington, DC. *11555 Rockville Pike (One White Flint North) Rockville, MD 20852*
- 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 *
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- 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)

Records with a ML Accession Number (identified on Appendix A) are publicly available in NRC's Public Electronic Reading Room at <http://www.nrc.gov/NRC/ADAMS/index.html>. If you need assistance in obtaining these records, please contact the NRC's Public Document Room.

This confirms your March 8, 2001 telephone conversation with Ms. Mary Jean Pool of my staff in which you agreed to accept the 100 pages you are entitled to free of charge and you will obtain the remaining records from the NRC's Public Document Room. Therefore, enclosed are copies of records 1 thru 12 identified on Appendix B.

SIGNATURE - FREEDOM OF INFORMATION ACT AND PRIVACY ACT OFFICER

Carol Ann Reed

**APPENDIX A
RECORDS ALREADY AVAILABLE IN THE PDR**

<u>NO.</u>	<u>DATE</u>	<u>ACCESSION NO.</u>	<u>DESCRIPTION (PAGE COUNT)</u>
1.	Undated		NUREG-0554, Single-Failure-Proof Cranes for Nuclear Power Plants
2.	Undated		NUREG/CR-5042, Evaluation of External Hazards to Nuclear Power Plants in the United States
3.	12/75		Regulatory Guide 1.13, Revision 1 (3 pages)
4.	07/80		NUREG-0612, Control of Heavy Loads at Nuclear Power Plants
5.	02/16/82	8210010008	Memo from M. El-Zeftawy, AEOD, to File, RE: Potential Consequences of Heavy Load Drop Accidents in LWRS (1 page)
6.	09/82		NUREG/CR-2944, Tornado Damage Risk Assessment
7.	05/08/85	8506060695	Memo from V. Sailor & K. Perkins, Brookhaven National Laboratory to W. Pratt (25 pages)
8.	04/11/96	9604080259	NRC Bulletin 96-02: Movement of Heavy Loads Over Spent Fuel, Over Fuel in the Reactor Core, or Over Safety-Related Equipment (8 pages)
9.	07/26/96	9611180017	Memo from J. Taylor, EDO, to Chairman Jackson, Commissioners Rogers & DECUS, Re: Resolution of Spent Fuel Storage Pool Action Plan Issues (26 pages)
10.	04/02/99	9904070106	Memo from R. Dudley, NRR, to M. Masnik, NRR, Re: Forthcoming Meeting w/NRC, NEI, and Public Stakeholders Re A Risk-Informed Approach to Decommissioning Regulations (1 page)
11.	04/19/99	ML003714155	Memo from B. Sheron, NRR, to A. Thadani, RES, Re: Proposed Generic Safety Issue-Potential Risk & Consequences of Heavy Load Drops in Nuclear Power Plants (9 pages)
12.	04/28/99	9905030030	Ltr from L. Hendricks, Nuclear Energy Institute to J. Zwolinski, NRR, Re: NRC's Seismic Analysis for Examining Beyond Design Basis Accidents (9 pages)

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|-----|----------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 13. | 06/30/99 | 9907120282 | Memo from W. Travers, EDO, to The Commissioners, Re: Improving Decommissioning Regulations for Nuclear Power Plants (16 pages) |
| 14. | 08/19/99 | 9909090239 | Ltr A. Nelson, Nuclear Energy Institute, to R. Dudley, NRR, Re: NRC July 15-16 Workshop, Seismic Screening Criteria for Assessing Potential Fuel Pool Vulnerabilities (8 pages) |
| 15. | 08/30/99 | 9909010025 | Ltr from L. Hendricks, Nuclear Energy Institute, to R. Dudley, NRR, Re: NEI providing comments on NRC study (85 pages) |
| 16. | 10/25/99 | 9910280064 | Ltr from S. Richards, NRR, to L. Hendricks, Nuclear Energy Institute, Re: Industry Studies on Spent Fuel Pool Risk (4 pages) |
| 17. | 11/02/99 | ML993140206 | Ltr from A. Nelson, Nuclear Energy Institute, to R. Dudley, NRR, Re: Project Number 689 (7 pages) |
| 18. | 11/12/99 | ML993340413 | Ltr from L. Hendricks, Nuclear Energy Institute, to R. Barrett, NRR, Re: Industry is committed to performing decommissioning (2 pages) |
| 19. | 11/12/99 | ML993200212 | Ltr from D. Powers, ACRS, to W. Travers, EDO, Re: Spent Fuel Fires Associated with Decommissioning (3 pages) |
| 20. | 12/16/99 | ML993420186 | Ltr from W. Travers, EDO, to D. Powers, ACRS, Re: Spent Fuel Fires Associated with Decommissioning (4 pages) |
| 21. | 04/13/00 | ML010800439 | Ltr from D. Powers, ACRS, to Chairman Meserve, Re: Draft Final Technical Study of Spent Fuel Pool Accident Risk at Decommissioning Nuclear Power Plants (5 pages) |
| 22. | 04/14/00 | ML003715896 | Ltr from D. Curran, Harmon, Curran, Spielberg, et al., Re: Draft Final Technical Study of Spent Fuel Pool Accident Risk at Decommissioning Reactors (26 pages) |
| 23. | 04/19/00 | ML003725350 | Ltr from L. Hendricks, Nuclear Energy Institute, to A. Vietti-Cook, NRC, Re: Draft Final Technical Study of Spent Fuel Pool Accident Risk at Decommissioning Nuclear Power Plants (19 pages) |
| 24. | 05/25/00 | ML003725891 | Ltr from K. Jacobs, Westinghouse Owners Group, to Document Control Desk, Re: Westinghouse Owners Group Response Request for Public Comments on Draft Final Technical Study... (5 pages) |

25. 11/06/00 ML003773707 Ltr from M. Soler, Holtec, to E. W. Brach, NMSS, Re: Potential Affect of a Computer Code Error on NUREG-1726 Report Results (3 pages)

26. 10/21-23/96 NUREG/CP-0157, Twenty-Fourth Water Reactor Safety Information Meeting, Volume 3

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

<u>NO.</u>	<u>DATE</u>	<u>DESCRIPTION (PAGE COUNT)</u>
1.	Undated	Draft White Paper, An Assessment on Industry Comments on Spent Fuel Zirconium Fires (2 pages)
2.	8/1/00	Final TWG Report, J Hannon (4 pages)
3.	Undated	Draft Assessment of Aircraft Crashes (6 pages)
4.	Undated	Draft Appendix 10, Aircraft Crashes into Spent Fuel Pools (5 pages)
5.	Undated	Draft Rev 1, Appendix 6, Aircraft Crashes into Spent Fuel Pools (6 pages)
6.	Undated	Draft Appendix 2c, Structural Integrity of Spent Fuel Pool Structures Subject to Heavy Loads Drops (10 pages)
7.	Undated	Draft Appendix 2c, Structural Integrity of Spent Fuel Pool Structures Subject to Heavy Loads Drops (10 pages)
8.	Undated	Draft Rev 1, app4.fin.wpd, Appendix 4, Structural Integrity of Spent Fuel Pool Structures Subject to Tornados and High Winds (12 pages)
9.	Undated	Draft Rev 1, app4_rv1.wpd, Appendix 4, Structural Integrity of Spent Fuel Pool Structures Subject to Tornados and High Winds (12 pages)
10.	Undated	Draft Rev 1, app4_rv2.wpd, Appendix 4, Structural Integrity of Spent Fuel Pool Structures Subject to Tornados and High Winds (12 pages)
11.	Undated	Draft Rev 1, app4finl.wpd, Appendix 4, Structural Integrity of Spent Fuel Pool Structures Subject to Tornados and High Winds (12 pages)
12.	Undated	Draft Rev 1, app4fint.wpd, Appendix 4, Structural Integrity of Spent Fuel Pool Structures Subject to Tornados and High Winds (12 pages)
13.	Undated	Draft Rev 1, app5_fin.wpd, Appendix 5, Structural Integrity of Spent Fuel Pool Structures Subject to Heavy Loads Drops (16 pages)
14.	Undated	Draft Rev 1, app5_rv1.wpd, Appendix 5, Structural Integrity of Spent Fuel Pool Structures Subject to Heavy Loads Drops (16 pages)
15.	Undated	Draft Rev 1, app5_rev2.wpd, Appendix 5, Structural Integrity of Spent Fuel Pool Structures Subject to Heavy Loads Drops (16 pages)

16. Undated Draft Rev 1, app5finl.wpd, Appendix 5, Structural Integrity of Spent Fuel Pool Structures Subject to Heavy Loads Drops (16 pages)
17. Undated Draft Rev 1, app5fint.wpd, Appendix 5, Structural Integrity of Spent Fuel Pool Structures Subject to Heavy Loads Drops (17 pages)
18. Undated Draft Rev 3, app5rev3.wpd, Appendix 5, Revision 3 Structural Integrity of Spent Fuel Pool Structures Subject to Heavy Loads Drops (17 pages)
19. Undated Draft Rev 4, app5rev4.wpd, Appendix 5, Revision 4 Structural Integrity of Spent Fuel Pool Structures Subject to Heavy Loads Drops (12 pages)
20. Undated Revision 5, Summary of Other Heavy Load Drop Studies (1 page)
21. Undated Draft Rev 1, app6_fin.wpd, Appendix 6, Structural Integrity of Spent Fuel Pool Structures Subject to Aircraft Crashes (6 pages)
22. Undated Draft Rev 1, app6_rv1.wpd, Appendix 6, Structural Integrity of Spent Fuel Pool Structures Subject to Aircraft Crashes (6 pages)
23. Undated Draft Rev 1, app6_rv2.wpd, Appendix 6, Structural Integrity of Spent Fuel Pool Structures Subject to Aircraft Crashes (6 pages)
24. Undated Draft Rev 1, app6finl.wpd, Appendix 6, Structural Integrity of Spent Fuel Pool Structures Subject to Aircraft Crashes (6 pages)
25. Undated Draft Rev 1, app6fint.wpd, Appendix 6, Structural Integrity of Spent Fuel Pool Structures Subject to Aircraft Crashes (6 pages)
26. Undated Appsum_2.wpd - Summary Updates for Decommissioning Risk Study and Comments on NEI Review (4 pages)
27. Undated Summary Updates for Decommissioning Risk Study and Comments on NEI Review (10 pages)
28. Undated Assessment of Aircraft Crashes (5 pages)
29. Undated Draft Appendix 9, Assessment of Heavy Loads (8 pages)
30. Undated Assessment of Human Errors (5 pages)
31. Undated Assessment of Tornadoes & High Winds (9 pages)
32. Undated Fault Trees for Loss of Cooling Event Tree (1 page)
33. Undated Draft, Revision 1, Appendix 9, Assessment of Heavy Loads (19 pages)
34. Undated Draft Rev 1, hloadrv2m.wpd, Appendix 5, Assessment of Heavy Loads (16 pages)
35. Undated Draft Assessment of Heavy Loads (6 pages)
36. Undated Reassessment of NUREG-0612 for Spent Fuel Pool Risk-Informed Evaluation (2 pages)
37. Undated Reassessment of NUREG-0612 for Spent Fuel Pool Risk-Informed Evaluation (2 pages)
38. Undated Reassessment of NUREG-0612 for Spent Fuel Pool Risk-Informed Evaluation (3 pages)
39. Undated Tornadoes (1 page)
40. Undated Aircraft (1 page)
41. Undated Heavy Load Drops (1 page)
42. Undated Aircraft (3 pages)

- 43. Undated PRA Evaluation for Heavy Loads Drop (1 page)
- 44. Undated Draft Revision 1, Appendix 9, Assessment of Heavy Loads (15 pages)
- 45. Undated Draft Response to Public Comments (4 pages)
- 46. Undated The base data used in this evaluation...(1 page)
- 47. Undated Comments on the final draft SFP report (1 page)
- 48. Undated PSA Branch references (1 page)
- 49. Undated Draft, Rev 1, Appendix 4, Assessment of Tornados and High Winds (10 pages)
- 50. Undated Draft Assessment of Tornados and High Winds (9 pages)
- 51. Undated 3.4.2, Aircraft Crashes (2 pages)
- 52. Undated 3.4.3, Tornados and High Winds (2 pages)
- 53. Undated Note to Glenn: Here is a verbal discussion of numerics (1 page)
- 54. Undated Summary from Appendix A2, NUREG/CR-2944 Charts, Heavy Loads Charts, Tornadoes (4 pages)
- 55. Undated Highlight (1 page)
- 56. Undated Chart from NUREG/CR-5042, "Probability of Penetration (1 page)
- 57. Undated Table 3.1, Spent Fuel Pool Cooling Risk Analysis Frequency of Fuel Uncovery (per year) (1 page)
- 58. Undated Viewgraph - HRA "Requantification Issue" (1 page)
- 59. Undated Viewgraph - Terminology (1 page)
- 60. Undated Viewgraphs - Nuclear Energy Institute, Probabilistic Risk Assessment Input to Decommissioning Requirements, Industry's Event Mitigation Activities (7 pages)
- 61. Undated Viewgraphs - Recommended Criteria, Approaches, & Methods (6 pages)
- 62. Undated Viewgraphs - Duke Engineering & Services, Risk Informed Decommissioning Emergency Planning (10 pages)
- 63. Undated 2.0 Risk-Informed Decision Making (4 pages)
- 64. Undated 5.0 Summary and Conclusions (2 pages)
- 65. Undated 4.0 Implications of Spent Fuel Pool Risk for Regulatory Requirements (9 pages)
- 66. Undated 4.3 Implications for Regulatory Requirements Related to Emergency Preparedness, Security, and Insurance (4 pages)
- 67. Undated Working Group Plan to Support Technical Analysis of Spent Fuel Pool Accidents for Decommissioning Plants (4 pages)
- 68. Undated Technical Staff Working Group Mission Statement (1 page)
- 69. Undated Working Group Items to Consider (1 page)
- 70. Undated Spent Fuel Pool Accident Risk Report (1 page)
- 71. Undated Spent Fuel Pool Human Reliability Analysis (HRA) 12 pages)
- 72. Undated Q & A's Related to the Release of the Technical Study on Spent Fuel Pool Accident Risk at Decommissioning Nuclear Power Plants (5 pages)
- 73. Undated SDAs & IDCs (3 pages)

- 74. Undated Measures to Prevent Human Error From Draining Spent Fuel Pool and Heavy Load Drops in the Pool (1 page)
- 75. Undated Old Report (2 pages)
- 76. Undated Seismic Conservatism (3 pages)
- 77. Undated Handwritten notes Re: Lack Sufficient Knowledge to Predict Time & Temperature (1 page)
- 78. Undated Handwritten notes Re: W/O EP (4 pages)
- 79. Undated Items from Last Week's Meetings on TWG Report (2 pages)
- 80. Undated Options (1 page)
- 81. Undated SRKB (2 pages)
- 82. Undated 9. Partial Draindown (2 pages)
- 83. Undated Chart - Decommissioning Plant Spent Fuel Pool Event Timing & Probability Summary Matrix (1 page)
- 84. Undated Page 3 from NUREG-1275, Vol. 12 (1 page)
- 85. Undated Note to Joe, Glenn, Ed, Diane, Jim, Larry, Re: Accidents at Decommissioned Plants (1 page)
- 86. Undated Issues, Objectives, and Requirements for HRA (2 pages)
- 87. Undated Quattro Pro Raw Data Files on Tornados (1,002 pages)
- 88. 02/17/98 Memo from L. Marsh, NRR, to J. Stoltz, NRR, Re: Followup Activities from the Spent Fuel Storage Pool Action Plan (30 pages)
- 89. 06/17/98 Handwritten note (1 page)
- 90. 10/16/98 Findings & Recommendations of the Crane Accident Workgroup (15 pages)
- 91. 02/25/99 Handwritten notes (43 pages)
- 92. 03/03/99 Handwritten note (1 page)
- 93. 03/17/99 Handwritten note Re: Comm Briefing - Power Rx Decomm. (1 page)
- 94. 03/17/99 Viewgraphs Reactor Decommissioning Program Status (22 pages)
- 95. 03/17/99 E-mail from D. Jackson, NRR, to G. Kelly, S. Long, NRC (1 page)
- 96. 03/18/99 E-mail from D. Jackson, NRR, to A. El-Bassioni, C. Gratton, et al., NRC (2 pages)
- 97. 03/22/99 G:\sectiona\jackson\staffgud.dec (4 pages)
- 98. 03/22/99 Handwritten notes (1 pages)
- 99. 03/25/99 Draft Outline of Plan to Deal with Spent Fuel Pool Risk at Decommissioned Nuclear Power Plants (5 pages)
- 100. 03/29/99 Draft 1.1 Outline of Plan to Deal with Spent Fuel Pool Risk at Decommissioned Nuclear Power Plants (7 pages)
- 101. 03/30/99 Handwritten notes (1 page)
- 102. 03/31/99 Draft 1.3 Outline of Plan to Deal with Spent Fuel Pool Risk at Decommissioned Nuclear Power Plants (7 pages)
- 103. 04/99 Notes and background information for trip to decommissioning facilities (57 pages)
- 104. 04/01/99 Working Group Plan to Support Technical Analysis of Spent Fuel Pool Accidents for Decommissioning Plants (4 pages)
- 105. 04/01/99 Handwritten notes (1 page)

- 106. 04/01/99 Handwritten notes (1 page)
- 107. 04/02/99 E-mail from R. Barrett, NRR, to D. Jackson, E. Throm, G. Kelly, et al, NRR, Re: Consequences of Spent Fuel Pool Accidents (1page)
- 108. 04/05/99 Handwritten notes Re: SFP Decommissioned Plants (2 pages)
- 109. 04/05/99 Handwritten notes Re: SFPs at Decommissioned Plants (3 pages)
- 110. 04/05/99 Handwritten notes Re: SFP Working Group (1 page)
- 111. 04/05/99 Working Group Plan to Support Technical Analysis of Spent Fuel Pool Accidents for Decommissioning Plants (4 pages)
- 112. 04/06/99 Spent Fuel Pool Accidents for Decommissioning Plants Working Group Plan (1 page)
- 113. 04/06/99 E-mail from V. Ordaz, NRR, to G. Kelly, NRR, Re: Glenn (1 page)
- 114. 04/07/99 E-mail from G. Bagchi, NRR, to V. Ordaz, NRR, Re: Spent Fuel Pool Structures (1 page)
- 115. 04/07/99 E-mail from D. Jackson, NRR, to G. Kelly, NRR, Re: NEI mtg slides (1 page)
- 116. 04/07/99 E-mail from G. Kelly, NRR, to D. Jackson, NRR, Re: NEI mtg slides (1 page)
- 117. 04/07/99 E-mail from V. Ordaz, NRR, to G. Bagchi, NRR, Re: Spent Fuel Pool Structures (1 page)
- 118. 04/08/99 Handwritten notes Re: Offsite Releases (1 page)
- 119. 04/09/99 Draft Task for INNEL to Study the Risk From Loss of Spent Fuel Cooling at Decommissioned Plants (2 pages)
- 120. 04/09/99 Draft Task for INNEL to Study the Risk From Loss of Spent Fuel Cooling at Decommissioned Plants (2 pages)
- 121. 04/09/99 Questions, Version 1.0 (2 pages)
- 122. 04/09/99 E-mail from V. Ordaz, NRR, to D. Jackson, J. Staudenmeier, Re: Good News (1 page)
- 123. 04/11/99 E-mail from V. Ordaz, NRR, to G. Kelly, NRR, Re: Fwd: SFPs and EPRI (1 page)
- 124. 04/12/99 Spent Fuel Pool Accidents for Decommissioning Plants Working Group Plan (1 page)
- 125. 04/12/99 Outline - Joseph Staudenmeier, NRR
- 126. 04/12/99 Fire Protection, Decommissioning Working Group (1 page)
- 127. 04/12/99 E-mail from D. Jackson, NRR, to E. Throm, NRR, Re: -1353/-0612 Question (1 page)
- 128. 04/12/99 Heavy Loads Search Summary (4 pages)
- 129. 04/12/99 Outline of SPLB/BOP input (1 page)
- 130. 04/12/99 Draft 1.4, Outline of Plan to Deal with Spent Fuel Pool Risk at Decommissioned Nuclear Power Plants (5 pages)
- 131. 04/12/99 Working Group Plan to Support Technical Analysis of SFP Accidents for Decommissioning Plants (5 pages)
- 132. 04/12/99 Heavy Loads Search Summary (4 pages)
- 133. 04/12/99 Handwritten notes (1 page)
- 134. 04/13/99 Handwritten notes Re: Risk Informed Rulemaking at Decommissioned Plants (3 pages)

135. 04/13/99 Viewgraphs "Risk Informing 10 CFR 50 for Decommissioning" (48 pages)
136. 04/13/99 Viewgraphs "Exploring Risk-Informed Rulemaking for Decommissioned Plants (13 pages)
137. 04/14/99 E-mail from D. Jackson, NRR, to C. Boyd, C. Gratton, et al, NRC, Re: Response from NEI Mtg. (2 pages)
138. 04/15/99 E-mail from D. Lochbaum, Union of Concerned Scientists, to R. Dudley, NRR, Re: Comments on Risk-informing Decommissioning Regulations (3 pages)
139. 04/19/99 Supporting References for Use in Spent Fuel Pool Risk Assessment (2 pages)
140. 04/20/99 E-mail from M. Rubin, NRR, to M. Cheok, V. Ordaz, NRR, Re: Technical Basis Outline (2 pages)
141. 04/20/99 E-mail from G. Bagchi, NRR, to G. Kelly, NRR, Re: Decommission Task Group: Seismic Hazard Curves (1 page)
142. 04/21/99 E-mail from V. Ordaz, NRR, to R. Dudley, NRR, Re: 4/28 Conf. Call (1 page)
143. 04/22/99 E-mail from D. Jackson, NRR, to C. Boyd, RES, C. Gratton, NRR, et al., Re: Defense in Depth for Spent Fuel (1 page)
144. 04/23/99 Working Group Technical Basis Outline (3 pages)
145. 04/26/99 E-mail from V. Ordaz, NRR, to Working Group, Re: Working Group Members (1 page)
146. 04/26/99 E-mail from V. Ordaz, NRR, to M. Cheok, NRR, Re: NEI Call on 4/28 (1 page)
147. 04/26/99 E-mail from D. Jackson, NRR, to G. Kelly, M. Rubin, NRR, Re: SFP Question (1 page)
148. 04/26/99 Draft Chart: Mean Consequences from RES MACCS Calculations for Severe Spent Fuel Pool Accident (1 page)
149. 04/27/99 Handwritten notes (2 pages)
150. 04/28/99 What We Need from Goutam Bagchi (1 page)
151. 04/28/99 Input to NEI Letter of 4/28/99 (1 page)
152. 04/29/99 Charts: Susquehanna & Pilgrim Hazards (PGAs) (10 pages)
153. 04/29/99 Handwritten notes Re: 04/29/99 Meeting (1 page)
154. 05/03/99 Handwritten notes Re: SFP Seismic (2 pages)
155. 05/05/99 Solicitation for Additional Information (Maine Yankee) (6 pages)
156. 05/11/99 Draft Appendix 8, Structural Integrity of Spent Fuel pool Structures Subject to Tornadoes and High Winds (9 pages)
157. 05/11/99 Memo from J. Hannon, NRR, to G. Bagchi & R. Rothman, NRR, Re: Input for Working Group on Decommissioning Rulemaking (10 pages)
158. 05/11/99 E-mail E. Throm, NRR to B. Thomas, G. Kelly, G. Bagchi, NRR, Re: Revised Assessment of NUREG-0612 (3 pages)
159. 1/5/01 E-Mail from Hubbard to Kelly, Subject: SFP TWG Comm Plan Q/A's (1 page)

160. 05/26/99 Note from E. Thom, NRR, to G. Kelly, M. Cheok, NRR, RE: SFP Risk-Assessment (1 page)
161. 06/02/99 E-mail from G. Parry, NRR, to D. Jackson, G. Kelly, M. Rubin, et al., NRR, Re: REG 1.174 (1 page)
162. 06/02/99 Handwritten notes Re: Monday Meeting (3 pages)
163. 06/03/99 Handwritten notes: Re: Dollars for INEEL (2 pages)
164. 06/03/99 Handwritten notes: Re: E.T. Briefing (1 page)
165. 06/04/99 Handwritten notes: Re: EDO Briefing (1 page)
166. 06/04/99 Handwritten notes: Re: Sam Collins (1 page)
167. 06/07/99 Viewgraphs Re: Meeting with Public Stakeholders on the Preliminary Technical Results of Spent Fuel Pool Accidents for Decommissioned Plants (17 pages)
168. 06/08/99 Public Meeting on Decommissioning, Industry Comments and Suggested Responses (2 pages)
169. 06/09/99 Handwritten notes: Re: Meeting, Workshop - Mid-July (1 page)
170. 06/14/99 E-mail from R. Barrett, NRR, to G. Kelly, NRR, Re: Fwd: SECY paper (1 page)
171. 06/16/99 Handwritten notes: Re: Pre-workshop meeting (2 pages)
172. 06/16/99 Technical Working Group (TWG) Plan (1 page)
173. 06/22/99 E-mail from E. Thom, NRR, to G. Kelly, M. Cheok, V. Ordaz, NRR, Re: Tornado Risk for SFP (1 page)
174. 07/06/99 Handwritten notes: Re: Pre-workshop meeting (2 pages)
175. 07/08/99 Handwritten notes: Re: Credible Sequence Brainstorm (2 pages)
176. 07/09/99 Organization Nuclear Energy Institute Re: Summary of Meeting with the Nuclear Energy Institute & Public Stakeholders (4 pages)
177. 07/13/99 Handwritten notes: Re: Chip Cameron (1 page)
178. 07/15/99 Viewgraphs Re: Probabilistic Risk Assessment Input to Decommissioning Requirements, NRC/Industry/Public Workshop by NEI (Nuclear Energy Institute) (42 pages)
179. 07/15/99 Viewgraphs Re: Probabilistic Risk Assessment Input to Decommissioning Requirements, NRC/Industry/Public Workshop, Risk Informed Basis for Decommissioning Exemption Guidance (4 pages)
180. 07/15/99 Viewgraphs Re: Thermal Hydraulics of Spent Fuel Pool for Decommissioning Plants, by K. Niyogi, Holtec Internl. (25 pages)
181. 07/15/99 Viewgraphs Re: Workshop on Risk Related to Spent Fuel Pool Accidents at Decommissioning Plants, Credible Sequences for Long-Term Mitigation Events Discussion Session (14 pages)
182. 07/15/99 Agenda for NRC Public Workshop on Risk Related to Spent Fuel Pool Accidents for Decommissioning Plants (3 pages)
183. 07/16/99 Excerpts from the Official Transcript of Proceedings, Reactor Decommissioning Risk Workshop (8 pages)
184. 07/16/99 Viewgraphs Re: Workshop on Risk Related to Spent Fuel Pool Accidents at Decommissioning Plants, Thermal Hydraulic Discussion Session (16 pages)

185. 07/16/99 Viewgraphs Re: Workshop on Risk Related to Spent Fuel Pool Accidents at Decommissioning Plants, Heavy Loads Discussion Session (10 pages)
186. 07/16/99 Viewgraphs Re: Workshop on Risk Related to Spent Fuel Pool Accidents at Decommissioning Plants, Seismic Discussion Session (14 pages)
187. 07/16/99 Viewgraphs Re: Public Workshop, Risk Informed Basis for Exemption Guidance for Certain Decommissioning Regulations, Heavy Loads Evaluation (6 pages)
188. 07/16/99 Viewgraphs Re: Public Workshop, Risk Informed Basis for Exemption Guidance for Certain Decommissioning Regulations, Heavy Loads Discussion Session (6 pages)
189. 07/19/99 Follow-up to SFP Workshop, Heavy Loads (1 page)
190. 07/19/99 What Did We Learn? (3 pages)
191. 07/21/99 E-mail from D. Jackson, NRR, to G. Parry, NRR, Re: Inspectors-Decommissioning (1 page)
192. 07/22/99 E-mail from S. Khericha, INEEL to G. Kelly, NRR, Re: List of HRA Experts (1 page)
193. 07/29/99 E-mail from D. Jackson, NRR, to B. Thomas, E. Throm, G. Parry, et al., NRR, Re: Meetings with Gary on Decommissioning Plants (7 pages)
194. 08/02/99 Handwritten notes: Re: Risk w/NR-0612 Fixes (2 pages)
195. 08/09/99 Draft for Comment, Reassessment of Heavy Loads (11 pages)
196. 08/11/99 E-mail from T. Eaton, NRR, to G. Parry, G. Kelly, J. Staudenmeier, NRR, Re: TAC Number for INEEL/PNNL/Sciencetech Contracts (1 page)
197. 08/30/99 Evaluation of PNNL Maine Yankee Heatup Calculation (4 pages)
198. 08/31/99 The staff has performed a semi-quantitative comparison...(6 pages)
199. 09/01/99 We have considered the risk associated with delaying potential NRC actions... (5 pages)
200. 09/01/99 The staff considered the potential risk significance of this issue...(3 pages)
201. 09/02/99 E-mail from D. Jackson, NRR, to G. Hubbard, G. Kelly, T. Eaton, NRR, Re: Information Necessary for Rulemaking (2 pages)
202. 09/03/99 Ltr from D. Lochbaum, Union of Concerned Scientists, to Commissioners, Re: Inadequately Monitored Spent Fuel Pool Temperature and Operator Response Times at Permanently Closed Plants (3 pages)
203. 09/07/99 E-mail from D. Jackson, NRR, to D. Barss, F. Kantor, I. Dinitz, et al., NRR, Re: Completeness of TWG Effort for Decommissioning Rulemaking (2 pages)
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205. 09/23/99 E-mail R. Dudley, NRR, to G. Hubbard, NRR, Re: Sheron Memo (6 pages)
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217. 11/16/99 Draft 1. Model Development (44 pages)
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222. 11/30/99 Fax transmittal sheet from G. Kelly, NRR, to S. Khericha, INEEL (1 page)
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225. 12/02/99 E-mail from M. Cheok, NRR, to G. Kelly, NRR, Re: Electronic Copy of SFP Analysis File (1 page)
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229. 12/22/99 Fax from G. Kelly, NRR, to T. Leahy, INEEL, Re: Expectations for INEEL Submittal (3 pages)
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231. 01/12/00 Fax from G. Kelly, NRR, to S. Khericha, INEEL, Re: Corrected FT for Fire Initiator (2 pages)
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233. 01/25/00 E-mail from M. Rubin, NRR, to D. Diec, NRR, Re: NCWarn Press Release (1 page)
234. 01/27/00 Draft Appendix 2e, Structural Integrity of Spent Fuel Pool Structures Subject to Tornados and High Winds (15 pages)
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236. 03/02/00 E-mail from R. Rothman, NRR, to G. Kelly, NRR, Re: Documentation of 8 sites with SSEs that may require Plant-Specific Analyses (1 page)
237. 03/08/00 Note from M. Rubin, NRR, to W. Huffman, NRR, Re: Draft Simplified Thermal-Hydraulic Heatup Analysis for Spent Fuel Pool Zirconium Fire Vulnerability Assessment (1 page)
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239. 03/15/00 E-mail from S. Rohrer, NUC Berkeley, to NRCREP (NRC mailbox for receipt of public comments), Re: Draft Final Technical Study of Spent Fuel Pool Accident Risk at Decommissioning Nuclear Power Plants (1 page)
240. 03/21/00 E-mail from R. Dudley, NRR, to A. Nelson, NEI?, D. Lochbaum, Scientist??, D. Katz, et al., Re: Upcoming ACRS Meeting on Decommissioning Risk Report (1 page)
241. 03/22/00 E-mail from S. Rohrer, NUC Berkeley, to M. Cheok, NRR, Re: Draft Final Technical Study of Spent Fuel Pool Accident Risk at Decommissioning Nuclear Power Plants (2 pages)
242. 03/24/00 E-mail from G. Hubbard, NRR, to G. Kelly, R. Dudley, NRR, Re: Fwd: Upcoming ACRS Meeting on Decommissioning Risk Report (1 page)
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247. 1/5/01 E-Mail from Hubbard to Kelly Subject: SFP TWG Comm Plan Q/A's (1 page)
248. 04/19/00 E-mail from M. Cheok, NRR, to S. Rohrer, NUC Berkeley, Re: Draft Final Technical Study of Spent Fuel Pool Accident Risk at Decommissioning Nuclear Power Plants (1 page)
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252. 04/21/00 E-mail from R. Barrett, NRR, to F. Eltawila, RES, G. Holahan, NRR, J. Hannon, RIV, Re: SFP (1 page)
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254. 04/26/00 E-mail from G. Hubbard, NRR, to C. Tinkler and J. Schaperow, RES, and J. Staudenmeier, NRR, Re: Fwd: VB:Comments nr2.to Draft Final Technical Study SFP Risks at Decom NPPs (5 pages)
255. 04/27/00 E-mail from R. Dudley, NRR, to G. Hubbard, NRR, Re: Fwd: VB:Draft Final Technical Study SFP Risks at Decomm NPPs (5 pages)
256. 04/27/00 E-mail from G. Bagchi, NRR to G. Parry,, J. Hannon, J. Staudenmeier, M. Rubin, R. Barrett, Re: Fwd: VB: Draft Final Technical Study SFP Risks at Decom NPPs (1 page)
257. 05/00 Decommissioning SFP Risk Study (Presentation to EDO & Technical Assistants-May 2000 (11 pages)
258. 05/02/00 Note G. Kelly, NRR, to Ed, Re: Enclosed markup of modifications to Section 3.4.2 and 3.4.3...(6 pages)
259. 05/02/00 E-mail from G. Parry, NRR, to G. Kelly, M. Cheok, NRR, Re: Revised LOSP-SW Quantification (1 page)
260. 05/03/00 E-mail from S. Khericha, INEEL, to G. Kelly, NRR, Re: Revised LP2-ET (5 pages)
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266. 05/11/00 E-mail from J. Staudenmeier, NRR, to G. Kelly, NRR, Re: Writeup is attached (2 pages)
267. 05/11/00 E-mail from M. Cheok, NRR, to G. Hubbard, NRR, Re: ACRS Response on Decision Criteria (2 pages)
268. 05/16/00 Ltr from L. Hendricks, Nuclear Energy Institute, to J. Zwolinski, NRR, Re: Transmittal of Industry White Paper on Options for Improving Decommissioning Regulations (22 pages)
269. 05/23/00 E-mail from G. Hubbard, NRR, to C. Tinkler, D. Jackson, F. Eltawila, F. Akstulewicz, G. Parry, G. Holahan, G. Kelly, et al., NRC, Re: Fwd: Trouble for NRC, CP&L (1 page)
270. 05/23/00 E-mail from R. Laufer, NRR, to C. Gratton, G. Hubbard, H. Berkow, R. Correia, Susan Uttal, NRC, Re: Fwd: Trouble for NRC, CP&L (7 pages)
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274. 05/25/00 E-mail from R. Barrett, NRR, to G. Kelly, M. Rubin, NRR, Re: My Concern with Decommissioning Rulemaking (1 page)
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276. 06/05/00 Handwritten notes Re: Adiabatic (1 page)
277. 06/07/00 Note from T. Eaton, J. Lehning, NRR, to G. Bagchi, S. Richards, G. Hubbard, J. Hannon, M. Rubin, R. Emch, J. Wermiel, G. Tracy, C. Carpenter, NRR, and F. Eltawila, RES, Re: Public Comments (56 pages)
278. 06/08/00 E-mail from G. Kelly, NRR, to W. Huffman, NRR, Re: SPSB Comments on Staff Response to NEI Assertions in White Paper (5 pages)
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283. 06/26/00 E-mail from W. Huffman, NRR, to G. Kelly, NRR, Re: Staffing at Decommissioning Sites (1 page)
284. 06/27/00 Final Report Concurrence Schedule for Spent Fuel Pool Accident Risk at Decommissioning Plants (3 pages)

285. 06/28/00 Final Report Concurrence Schedule for Spent Fuel Pool Accident Risk at Decommissioning Plants (2 pages)
286. 06/28/00 E-mail from G. Bagchi, NRR, to D. Jackson, T. Eaton, NRR, Re: Decommissioning: Responses (4 pages)
287. 06/29/00 Response 2.wpd, Version 1, SPSB Response to Public Comments on the Draft Final Technical Study of Spent Fuel Pool Accident Risk at Decommissioning Plants (13 pages)
288. 06/20/00 Ltr from D. Powers, ACRS, to Chairman Meserve, Re: Proposed Resolution of Generic Safety Issue-173A, Spent Fuel Storage Pool for Operating Facilities (2 pages)
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291. 07/05/00 Summary of Issues/Problems for Spent Fuel Pool Decommissioning (6 pages)
292. 07/07/00 IOLB Public Comment Responses (Received 7/7/00) (5 pages)
293. 07/10/00 E-mail from G. Hubbard, NRR, to F. Akstulewicz, G. Kelly, J. Staudenmeier, NRR, Re: RES Input on ACRS Comments (1 page)
294. 07/12/00 E-mail from G. Bagchi, NRR, to G. Kelly, NRR, Re: Revision: Seismic Risk: Spent Fuel Pool Failures at 69 Sites (1 page)
295. 07/17/00 Handwritten notes Re: NEI Comments (1 page)
296. 07/18/00 E-mail from G. Hubbard, NRR, to C. Tinkler, J. Flack, S. Basu, RES, Re: Questions Joe is responding to (2 pages)
297. 07/18/00 Statements from Appendix 1 that can be used out of context to discredit SFP Risk Assessment (4 pages)
298. 07/20/00 Draft Appendix 4B, Pool Performance Guideline (8 pages)
299. 07/24/00 Draft Appendix 4A, Effect of Source Term and Plume-Related Parameters on Consequences (14 pages)
300. 07/26/00 Draft Appendix 2b, Structural Integrity of Spent Fuel Pools Subject to Seismic Loads (4 pages)
301. 07/31/00 Agenda-Discussion on Input Needed for Revised TWR Report (5 pages)
302. 08/ /00 Additional Comments Concerning Seismic Screening & Seismic Risk of Spent Fuel Pools for Decommissioning Plants by R. P. Kennedy, RPK Structural Mechanics Consulting (4 pages)
303. 08/01/00 Handwritten notes Re: Partial Draindown (1 page)
304. 08/02/00 E-mail from G. Parry, NRR, to G. Hubbard, G. Bagchi, NRR, Re: Spent Fuel Pool Decommissioning Seismic Screening (1 page)
305. 08/08/00 E-mail from G. Hubbard, NRR, to G. Kelly, NRR, Re: Fwd: 08/04/00 Mtg w/NEI/NRC on Seismic Issues and Technical Study of Spent Fuel Pool Accident at Decom PI (1 page)
306. 08/09/00 E-mail from G. Hubbard, NRR, to C. Tinkler, RES, D. Barss, NRR, D. Jackson, NRR, et al., Re: Goals for TWG Report (3 pages)

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308. 08/10/00 E-mail from D. Jackson, NRR, to C. Tinkler, C. Boyd, RES, G. Hubbard, NRR, Re: Meeting Today at 2:00 on Decommissioning Risk Study (1 page)
309. 08/11/00 E-mail from G. Hubbard, NRR, to G. Kelly, NRR, Re: Fwd: Seismic Input for TWG Report: Decommissioning (1 page)
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311. 08/11/00 E-mail from G. Bagchi, NRR, to G. Hubbard, NRR, Re: Seismic Input for TWG Report: Decommissioning (4 pages)
312. 08/14/00 E-mail from J. Staudenmeier, NRR, to G. Kelly, NRR, Re: Heatup Times Attached (3 pages)
313. 08/14/00 E-mail from D. Jackson, NRR, to G. Hubbard, G. Kelly, G. Bagchi, M. Rubin, NRR, Re: Seismic Risk (1 page)
314. 08/14/00 E-mail from G. Bagchi, NRR, to G. Parry, G. Hubbard, NRR, and N. Chokshi, RES, Re: Spent Fuel Pool Decommissioning: Seismic Screening (2 pages)
315. 08/14/00 Heatup Times (2 pages)
316. 08/15/00 E-mail from T. O'Hara, Duke Engineering, to G. Bagchi, NRR, RE: Corrected G-mean (1 page)
317. 08/15/00 Heatup Times (2 pages)
318. 08/15/00 E-mail from G. Bagchi, NRR, to G. Hubbard, NRR, J. Hannon, RIV, N. Chokshi, RES, Re: Spent Fuel Pool Decommissioning: Seismic Screening (6 pages)
319. 08/15/00 E-mail from J. Staudenmeier, NRR, to G. Kelly, NRR, Re: Revised Tables with More Assumptions Listed (3 pages)
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321. 08/18/00 E-mail from E. Throm, NRR, to C. Tinkler, RES, D. Jackson, NRR, G. Hubbard, NRR, J. Schaperow, RES, Re: 3.5 Cores for SFP Accidents (1 page)
322. 08/21/00 E-mail from J. Staudenmeier, NRR, to G. Hubbard, G. Kelly, R. Caruso, R. Palla, NRR, Re: Heatup Times with New Peaking Factors (3 pages)
323. 08/21/00 E-mail from G. Bagchi, NRR, to R. Kennedy, RPK Structural Mechanics Consulting, Inc., Re: Revised: Fwd: Corrected G-mean (1 page)
324. 08/22/00 E-mail from G. Hubbard, NRR, to J. Staudenmeier, NRR, Re: Resend-Re: Heatup Times with New Peaking Factors (1 page)
325. 08/23/00 Handwritten notes Re: Meeting with NEI (1 page)
326. 08/23/00 E-mail from D. Jackson, NRR, to R. Palla, NRR, Re: EP and Seismic (2 pages)
327. 08/24/00 Handwritten notes Re: 1,2,5,10 yrs, small prob HEPs (1 page)
328. 08/24/00 E-mail from G. Hubbard, NRR, to G. Kelly, R. Palla, NRR, Re: Fwd: Spent Fuel Temp (10 pages)

329. 08/24/00 E-mail from G. Kelly, NRR, to G. Hubbard, NRR, Re: If you like this, please pass on to Goutam & Nielish (Draft Section 3.5.1, Version 5) (29 pages)
330. 08/29/00 E-mail from G. Bagchi, to G. Hubbard, NRR, N. Chokshi, RES, R. Rothman, NRR, Re: If you like this, please pass on to Goutam & Nielish (1 page)
331. 08/29/00 Draft Appendix 4B, Pool Performance Guidelines (12 pages)
332. 08/29/00 E-mail from G. Bagchi, NRR, to T. O'Hara, Duke Engineering, Re: llnl Figure (1 page)
333. 08/30/00 E-mail from G. Hubbard, NRR, to G. Kelly, T. Collins, NRR, Re: Fwd: Re:lnl Figure (1 page)
334. 08/31/00 E-mail from W. Huffman, NRR, to R. Palla, NRR, Re: EP for Decommissioning (2 pages)
335. 09/ /00 Response to Questions Concerning Spent Fuel Pool Seismic-Induced Failure Modes and Locations and the Expected Level of Collateral Damage by R. P. Kennedy, RPK Structural Mechanics Consulting (4 pages)
336. 09/07/00 E-mail from S. La Vie, NRR, to R. Palla, T. Collins, NRR, Re: Dose Conversion Factors for Inhalation (1 page)
337. 09/07/00 Note to B. Palla, M. Cheok, G. Hubbard, NRR, Re: The warning that the public would receive...(1 page)
338. 09/14/00 E-mail from R. Kennedy, RPK Structural Mechanics Consulting, Inc., to S. Pullani, N. Chokshi, RES, RE: Spent Fuel Letter Report (5 pages)
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340. 09/18/00 E-mail from G. Bagchi, NRR, to N. Chokshi, RES, R. Palla, NRR, S. Pullani, RES, Re: Fwd: Spent Fuel Letter Report (1 page)
341. 09/19/00 Draft 4.0, Implications of Spent Fuel Pool Risk for Regulatory Requirements (13 pages)
342. 09/25/00 E-mail from D. Jackson, NRR, to G. Hubbard, R. Pall, NRR, Re: EPRI Mean: 1.92E-7 (1 page)
343. 09/27/00 Draft Appendix 4D, Maximum Risk Increase Associated with EP Relaxations (10 pages)
344. 09/27/00 Draft 2.0, Risk-Informed Decision Making (6 pages)
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348. 10/06/00 E-mail from G. Hubbard, NRR, to G. Kelly, NRR, Re: Additional Kennedy Input (1 page)
349. 10/06/00 Draft Appendix 4C, Pool Performance Guideline (8 pages)

- 350. 10/12/00 E-mail from W. Huffman, NRR, to D. Barss, D. Jackson, F. Kantor, G. Hubbard, G. Tracy, K. Gibson, R. Palla, T. Collins, NRR, Re: Summary of Telecon with FEMA on Decommissioning EP (2 pages)
- 351. 10/18/00 Viewgraphs: Spent Fuel Pool Accident Risk Study, ACRS Fuels Subcommittee Meeting (9 pages)
- 352. 10/18/00 NRR Staff Presentation to the ACRS (19 pages)
- 353. 11/02/00 Viewgraphs Re: The Response of the Spent Fuel Pool to Postulated Accident Conditions, presented by R. Henry, Fauske & Associates, Inc. (6 pages)
- 354. 11/02/00 Illustrations Accompanying a Presentation by Gordon Thompson to the Advisory Committee on Reactor Safeguards on 11/2/00 Regarding Risk Associated with Spent Fuel Storage in High-Density Pools (8 pages)
- 355. 11/27/00 E-mail from G. Hubbard, NRR, to B. Sheron, NRR, Re: Decommissioning Risk Study (1 page)
- 356. 01/05/01 E-mail from S. Richards, NRR, to R. Dudley, NRR, Re: Fwd: SFP TWG Comm Plan Q/A's (1 page)
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