

OFFICE OF THE SECRETARY
CORRESPONDENCE CONTROL TICKET

Date Printed: Jun 18, 2003 12:56

PAPER NUMBER: LTR-03-0370 **LOGGING DATE:** 06/10/2003
ACTION OFFICE: OGC

AUTHOR: REP Dennis Kucinich
AFFILIATION: REP
ADDRESSEE: Dennis Rathbun
SUBJECT: Request for unredacted documents on Davis-Besse

ACTION: Signature of Director, GPA/OCA
DISTRIBUTION: Chrm, Comrs, RF, EDO/OCIO/FOIA, OCA Ack

LETTER DATE: 06/03/2003

ACKNOWLEDGED: No
SPECIAL HANDLING: Prepared for signature of Director, OCA

NOTES: Commission Correspondence
Prepare response to deny withheld documents. If EDO/OCIO/FOIA releases any of the documents on open FOIAs or appeals, please advise SECY/OGC.

FILE LOCATION: ADAMS

DATE DUE: 07/02/2003 **DATE SIGNED:**

OGC-03- 002275

Secy 017

Secy 06

DENNIS J. KUCINICH
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Congress of the United States
House of Representatives

Committees:
Government Reform
Education
and the
Workforce

www.house.gov/kucinich

June 3, 2003

Mr. Dennis Rathbun
Office of Congressional Affairs
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Mr. Rathbun:

In my ongoing efforts to investigate the safety issues at the Davis Besse nuclear power plant, I request unredacted copies of the documents listed on the attached pages from FOIA 2003-0018 [Appendix D, E, F, G, M, N, O, and P], FOIA 2002-0345 [Appendix B and C], and FOIA 2003-0024 [Appendix B].

These documents are essential to my investigation. Without them, I will not be able to give my constituents, 100 miles downwind of Davis Besse, any assurance that the reactor is safe for operation. As a Member of Congress and a Member of the Government Reform Committee, which has investigative authority over the NRC, I see no reason for withholding any of these materials. As these documents are clearly identified and already assembled as part of a FOIA request, I anticipate that these documents can be made available to my office in a short time frame.

Thank you in advance for your help with this matter. If you have any questions, please contact Auke Mahar-Piersma, of my staff, at (202) 225-5871.

Sincerely,

Dennis J. Kucinich
Member of Congress

DJK:ap

**APPENDIX D
RECORDS BEING WITHHELD IN THEIR ENTIRETY**

| <u>NO.</u> | <u>DATE</u> | <u>DESCRIPTION/(PAGE COUNT)/EXEMPTIONS</u> |
|------------|-------------|--|
| 1. | Undated | Document Re: Some thoughts on the Significance Determination Process (Exemption 5), 3 pages |
| 2. | Undated | Document marked Proprietary Re: Boric Acid Corrosion - European Experience (Exemption 4), 11 pages |
| 3. | Undated | Davis-Besse Risk Significance Determination paper (Exemption 5), 3 pages |
| 4. | Undated | Davis Besse Head Penetration Nozzle Crack Risk Evaluation (Exemption 5), 1page |
| 5. | Undated | Request for Technical assistance-risk assessment of the Davis-Besse reactor head degradation (TIA-2002-___) (DRAFT) (Exemption 5), 5 pgs |
| 6. | Undated | Sketch showing exposed cladding around nozzle 3, (Exemption 5),1 page |
| 7. | 3/18/02 | Document Re: SDP Phase 1 Screening Worksheet for IE, MS, and B Cornerstones (Exemption 5), 9 pages |
| 8. | 04/23/02 | Draft, Phase 3 significance determination for cavity in Davis-Besse Reactor pressure vessel head (Exemption 5), 3 pages |
| 9. | 05/03/02 | Memo from J.A. Grobe to John A. Zwolinski Re: Request for Technical Assistance - Risk Assessment of the Davis-Besse Reactor Head Degradation (TIA 2002-01) (Exemption 5), 11 pages |
| 10. | 05/03/02 | Memo from J. Grobe, RIII, to J. Zwolinski, NRR, Re: Request for technical assistance for risk assessment of the Davis-Besse reactor head degradation (Exemption 5), 8 pages |
| 11. | 5/29/02 | Initiating Event Assessment (SPAR model) (Exemption 5), 3 pages |
| 12. | 06/18/02 | Davis-Besse 0350 Panel Agenda for 6/18/02 (Exemptions 2 and 5), 1 page |
| 13. | 7/26/02 | Email from John Grobe to B. Bateman Re Meeting on D-B Folks Risk Analysis and Significance Assessment (Exemption 5), 1 page |

14. 7/31/02 Email from John Grobe to B. Bateman Re: Davis-Besse Significance Assessment, (Exemption 5), 1 page
15. 8/1/02 Email from Tammy Nordenberg to C. Lipa Re: Fwd: Meeting on D-B Risk Analysis and Significance Assessment (Exemptions 5 and 2), 1 page
16. 8/1/02 Email from Sonia Burgess to C. Lipa Re: Davis-Besse risk strategy comparisons to IMC 0609 (Exemption 5), 4 pages
17. 8/1/02 Email from Sonia Burgess to C. Lipa Re: Davis-Besse risk strategy comparisons to IMC 0609 (Exemption 5), 12 pages
18. 8/5/02 Email from Sonia Burgess to RAO Re: RG 1.174 and Davis-Besse risk (Exemption 5), 4 pages
19. 8/6/02 Briefing for Brian Sheron (Exemption 5), 2 pages
20. 8/6/02 Briefing for NRR Leadership Team (Exemption 5), 3 pages
- 21.. 8/7/02 Briefing for the NRR Executive Team (Exemption 5), 3 pages
22. 8/7/02 Briefing for Bill Kane on Davis-Besse Project (Exemption 5), 4 pages
23. 8/21/02 Email from Jim Dyer to B. Clayton Re: Fwd: Food for Thought, Davis-Besse (Exemption 5), 2 pages
24. 8/21/02 Email from Sonia Burgess to C. Lipa Re: Concerns (Exemption 5), 1 page
25. 8/29/02 Email from Sonia Burgess to C. Lipa Re: Risk (Exemption 5), 4 pages
26. 8/29/02 Email from Laura Collins to 0350 panel Re: Risk Approach (Exemption 5), 4 pages
27. 9/4/02 Email from John Grobe to C. Lipa Re: Fwd: risk approach (Exemption 5), 2 pages
28. 9/5/02 Email from Christine Lipa to A. Mendiola Re: Re: Davis-Besse risk discussion (Exemption 5), 1 page
29. 9/5/02 Email from Laura Collins to J. Grobe Re: Re: Fwd: Enf Manual 3.6 (Exemption 5), 1 page
30. 9/5/02 Email from Sonia Burgess to J. Grobe Re: Re: Fwd: Enf Manual 3.6 (Exemption 5), 1 page

31. 9/6/02 Email from John Grobe to J. Caldwell Re: SDP Task Force (Exemption 5), 2 pages
32. 9/9/02 Document Re: Update on Davis-Besse Oversight Panel (Exemption 5), 1 page
33. 9/17/02 Email from Melvin Holmberg to J. Grobe Re: Nozzle Cracking Data for Risk Assessments (Exemption 5), 2 pages
34. 9/17/02 Email from John Grobe to M. Holmberg Re: Re: Nozzle Cracking Data for Risk Assessments (Exemption 5), 2 pages
35. 9/18/02 Email from Laura Collins to J. Collins Re: Re: Operational Reactor Events Brief - Davis-Besse Issue 9/18/02 (Exemption 5), 1 page
36. 9/19/02 Email from Sonia Burgess to J. Grobe Re: Nozzle Cracking Data for Risk Assessments (Exemption 5), 2 pages
37. 9/19/02 Email from John Grobe to M. Holmberg Re: Re: Nozzle Cracking Data for Risk Assessments (Exemption 5), 2 pages
38. 9/20/02 Email from Sonia Burgess to C. Lipa Re: Initial SERP pkg (Exemption 5), 19 pages
39. 9/20/02 Email from Christine Lipa to C. Thomas Re: Fwd: Initial SERP pkg (Exemption 5), 20 pages
40. 10/ -/02 Document Re SERP Worksheet for Davis-Besse Degraded Reactor Head (Exemption 5), 18 pages

**APPENDIX E
RECORDS BEING WITHHELD IN THEIR ENTIRETY**

| <u>NO.</u> | <u>DATE</u> | <u>DESCRIPTION/(PAGE COUNT)/EXEMPTIONS</u> |
|-------------------|--------------------|--|
| 1. | Undated | Handwritten notes by S. Long, NRR, from telecon with E. Collins, RIV, Re: B&W fuel spacer problem in the event of a LOCA (1 page) Exemption 5 |
| 2. | Undated | Handwritten notes by S. Long, NRR, containing questions that arose from his reading of the FENOC risk assessment for the cavity (1 page) Exemption 5 |
| 3. | Undated | Handwritten notes by T. Valentine, NRR, on cracks found in CRDM nozzle inspections (4 pages) Exemption 5 |
| 4. | Undated | Notes by S. Long and T. Valentine, NRR, concerning tabulation of cracks found in CRDM nozzle inspections (7 pages) Exemption 5 |
| 5. | Undated | Handwritten notes by T. Valentine, NRR, on chemistry of heated boric acid solutions (9 pages) Exemption 5 |
| 6. | Undated | Region II's risk estimation for Oconee 3 inspection finding w/S. Long, NRR, handwritten notes (2 pages) Exemption 5 |
| 7. | Undated | Handwritten notes and computations by S. Long, NRR, on failure pressure of as-found cavity "1st cut calc" (3 pages) Exemption 5 |
| 8. | Undated | Computations by S. Long, NRR, on failure pressure of as-found cavity 2nd cut calc w/handwritten notes (5 pages) Exemption 5 |
| 9. | Undated | Handwritten notes by S. Long, NRR, on risk estimation for leaks of unknown age (1 page) Exemption 5 |
| 10. | Undated | Handwritten notes by S. Long, NRR, on nozzle constraint (1 page) Exemption 5 |
| 11. | Undated | Handwritten notes and computations by S. Long, NRR, "related to time for cavity enlargement..." (3 pages) Exemption 5 |
| 12. | Undated | Handwritten notes and computations by S. Long, NRR, "material related to time for cavity enlargements" (4 pages) Exemption 5 |
| 13. | Undated | Computations by S. Long, NRR, "probability of different amounts of degradation time for Davis-Besse" (2 pages) Exemption 5 |
| 14. | Undated | Note S. Dinsmore, NRR, to S. Long, NRR, requesting specific information to support his review of draft risk assessment (1 page) Exemption 5 |

15. Undated Handwritten comments by Gary Holahan, NRR on "Time for cavity growth" section of risk assessment that was rewritten in response to his comments on previous item (11 pages) Exemption 5
16. Undated Handwritten comments by NRR on the "Time for cavity growth" section the risk assessment (3 pages) Exemption 5
17. Undated Draft memo B. Sheron, NRR, to J. Grobe, RIII, Re: TIA response w/handwritten comments (53 pages) Exemption 5
18. Undated Handwritten notes: C. Carpenter, NRR, Re: EDO brief on Davis Besse (3 pages) Exemption 5
19. Undated Handwritten notes: B. Boger, NRR, Re: Davis Besse RPV SDP (1 page) Exemption 5
20. Undated Davis Besse SDP/Action Matrix; Performance Issues; ROP Process Options (2 pages) Exemption 5
21. 03/11/02 File named risk para.wpd from S. Long, NRR, computer (1 page) Exemption 5
22. 03/13/02 E-mail S. Long, NRR, to K. Karwoski, NRR, Risk Slide for TA Brief (2 pages) Exemption 5
23. 03/14/02 E-mail S. Long, NRR, to K. Karwoski, NRR, Re: Fwd: Davis Besse & INES Rating (1 page) Exemption 5
24. 03/27/02 E-mail S. Long, NRR, to A. Hiser, NRR, Re: Davis-Besse Root Cause Questions (1 page) Exemption 5
25. 03/27/02 E-mail S. Long, NRR, to B. Wetzel, NRR, Re: LOCO Size Definitions for Davis Besse (1 page) Exemption 5
26. 03/28/02 E-mail S. Long, NRR, to D. Pickett, NRR, Verifying Some Davis Besse PRA Info (1 page) Exemption 5
27. 03/28/02 E-mail S. Long, NRR, to J. Chung, NRR, Re: LOCA Size Definitions for Davis Besse (2 pages) Exemption 5
28. 04/01/02 E-mail S. Long, NRR, to A. Hiser, NRR, et al, Re: Fwd: Verifying Some Davis Besse PRA Info, w/att e-mail 03/29/02 M. Leisure, FENOC, to D. Pickett, NRR (4 pages) Exemption 5
29. 04/08/02 E-mail S. Long, NRR, to A. Hiser, NRR, et al, Re: Fwd: Nozzle 2 Corrosion Area (1 page) Exemption 5
30. 04/16/02 E-mail S. Long, NRR, to J. Chung, NRR, et al, Steve's Raised Q4 Davis Besse PSA (4 pages) Exemption 5
31. 04/23/02 E-mail S. Long, NRR to, S. Burgess, R III, Conceptual Basis for an SDP for Davis Besse Head Cavity (4 pages) Exemption 5

32. 04/24/02 E-mail S. Long, NRR, to P. Wilson, NRR, Revised Qs for FENOC's Cavity Risk Assessment (4 pages) Exemption 5
33. 04/24/02 E-mail S. Long, NRR, to M. Caruso, NRR, Revised Qs for FENOC's Cavity Risk Assessment (4 pages) Exemption 5
34. 04/25/02 E-mail S. Long, NRR, to A. Hiser, NRR, Fwd: After Meeting Discussions, w/att e-mail 11/08/01 e-mail J. Strosnider, NRR, to B. Bateman, NRR (2 pages) Exemption 5
35. 05/02/02 E-mail S. Long, NRR, to A. Mendiola, NRR,, et al, Re: 0350 meeting agenda 5/2 (1 page) Exemption 5
36. 05/03/02 Status of SDP risk assessment for licensee performance deficiency that resulted in the cavity in the Davis Besse RPV head w/handwritten notes (2 pages) Exemption 5
37. 05/03/02 File named "risk question def.wpd" on S. Long, NRR, computer (2 pages) exemption 5
38. 05/06/02 E-mail S. Long, NRR, to S. Burgess, R III, Fwd: Davis Besse Risk Assessment, w/att e-mail 05/06/02 W. Dean, NRR, to M. Johnson, NRR (4 pages) Exemption 5
39. 05/13/02 E-mail W. Dean, NRR, to M. Johnson, S. Long, NRR, Re: Fwd: May 9 internal panel meeting (2 pages) Exemption 5
40. 05/13/02 E-mail S. Long, NRR, to W. Dean, NRR, Re: Fwd: May 9 internal panel meeting (1 page) Exemption 5
41. 05/14/02 E-mail S. Long, NRR, to M. Holmberg, R III Re: Risk evaluation for Besse Nozzle Cracks (3 pages) Exemption 5
42. 05/15/02 E-mail S. Long, NRR, to E. Hackett, RES, E-copy of SPSB needs for Davis-Besse Risk Assessment (2 pages) Exemption 5
43. 05/15/02 File named "risk info needs.wpd" from Steve Long's computer (1 page) Exemption 5
44. 05/17/02 E-mail S. Long, NRR, to B. Wetzel, NRR, Collateral Damage Potential Issue (1 page) Exemption 5
45. 5/21/02 E-Mail from Long to Steingass (1 page) Exemption 5
46. 05/21/02 File named "MRP Inspection Plan cmnts.wpd" on Steve Long's (NRR) computer (1 page) Exemption 5
47. 05/24/02 E-mail G. Wilkowski, EMCC, to M. Kirk, RES, et al., Re: Basis for Probability Calcs (4 pages) Exemption 5
48. 05/30/02 File named "schedule.wpd" from S. Long's (NRR) computer (1 page)

49. 06/13/02 E-mail S. Long, NRR, to D. Snowberger, NRR, Re: E-mail to Wilkowski, EMCC (1 page) Exemption 5
50. 06/14/02 E-mail G. Wilkowski, EMCC, to D. Snowberger, NRR, Re: Davis-Besse Cladding Analysis Question (1 page) Exemption 5
51. 06/18/02 E-mail S. Long, NRR, to J. Thompson, NRR, Ideas for Risk-Informed SDP (4 pages) Exemption 5
52. 06/18/02 E-mail S. Long, NRR, to S. Burgess, R III, Re: Davis Besse risk (1 page) Exemption 5
53. 06/20/02 E-mail S. Long, NRR, to D. Pickett, NRR, et al., Re: Green Findings - Davis Besse (1 page) Exemption 5
54. 06/20/02 E-mail S. Long, NRR, to S. Rosenberg, EDO, Straw-Man Risk Informed SDP(4 pages) Exemption 5
55. 06/25/02 E-mail S. Long, NRR, to D. Pickett, NRR, Re: Reactor Containment Sump Info for Davis Besse (2 pages) Exemption 5
56. 06/28/02 File named "2002-06-28 vh+VHP Status Report.wpd" S. Long's (NRR) computer (24 pages) Exemption 5
57. 07/01/02 Copy of "Davis-Besse Reactor Head sample Characterization - Phase 3" with hand-written notes by Dwight Snowberger, NRR (4 pages) Exemption 5
58. 07/03/02 E-mail D. Pickett, NRR, to S. Long, NRR, Re: DB Cavity Path (1 page) Exemption 5
59. 07/05/02 E-mail T. Valentine, NRR, to S. Long, NRR, Re: Viability of Dripping Water Mechanism for Rapid Corrosion (2 pages) Exemption 5
60. 07/08/02 E-mail W. Shack, ANL, to S. Long, RES, Re: Failure of Davis Besse Nozzles by Growth of Circ Cracks, with attachments (5 pages) Exemption 5
61. 07/08/02 E-mail W. Shack, ANL, to S. Long, RES, Re: Failure of Davis Besse Nozzles by Growth of Circ Cracks R1 (2 pages) Exemption 5
62. 07/08/02 E-mail W. Shack, ANL, to S. Long, NRR, Re: A few more notes (2 pages) Exemption 5
63. 07/08/02 E-mail W. Shack, ANL, to S. Long, NRR, Re: Failure of Davis Besse Nozzles by Growth of Circ Cracks R1 (2 pages) Exemption 5
64. 07/08/02 E-mail S. Long, NRR, to A. and S. Hiser, NRR, et al., Re: CGR Values (2 pages) Exemptions 5 and 6

65. 07/08/02 E-mail S. Long, NRR, to B. Bateman, NRR, Re: CGR Values (2 pages) Exemptions 5 and 6
66. 07/08/02 E-mail S. Long, NRR, to WJ. Shack, ANL, Re: Failure of Davis Besse Nozzles by Growth of Circ Cracks R1 (2 pages) Exemption 5
67. 07/08/02 E-mail S. Long, NRR, to WJ. Shack, ANL, Re: Failure of Davis Besse Nozzles by Growth of Circ Cracks R1 (1 page) Exemption 5
68. 07/08/02 E-mail S. Long, NRR, to WJ. Shack, ANL, Re: Failure of Davis Besse Nozzles by Growth of Circ Cracks R1 (2 pages) Exemption 5
69. 07/08/02 E-mail S. Long, NRR, to A. Howell, R IV, et al, Knowledge of Circ Cracks in Central Nozzles (2 pages) Exemption 5
70. 07/09/02 E-mail S. Long, NRR, to W. Shack, ANL, Got your telephone message (1 page) Exemption 5
71. 07/11/02 Hand-written notes by S. Long, NRR on copy of attachment to e-mail W. Shack, ANL, to W. Cullen, RES, and S. Long, NRR, attachment title failure worst lab 0.1.xls (2 pages) Exemption 5
72. 07/11/02 E-mail W. Shack, ANL, to W. Cullen, RES, et al., Re: Worst lab heat with in heat variability, with attachment (2 pages) Exemption 5
73. 07/11/02 E-mail S. Bloom, NRR, to A. Lee, NRR, et al., Re: DB Head Issues with attachment (5 pages) Exemption 5
74. 07/12/02 E-mail M. Marshall, NRR, to A. Lee, NRR, et al., Re: Deadline for Comments on DB Head Activities Table" with attachment (5 pages) Exemption 5
75. 07/15/02 E-mail S. Long, NRR, to A. Hiser, NRR, et al., Re: Deadline for Comments on DB Head Activities Table (1 page) Exemption 5
76. 07/16/02 File named "SDP status" from S. Long, NRR, computer (1 page) Exemption 5
77. 07/17/02 File named "SDP status r1.wpd" from S. Long, NRR, computer (1 page) Exemption 5
78. 07/17/02 E-mail S. Long, NRR, to W. Shack, ANL, Davis-Besse- SDP (2 pages) Exemption 5
79. 07/18/02 E-mail S. Long, NRR, to J. Luehman, OE, Risk Calculations for SDP (1 page) Exemption 5
80. 07/18/02 Materials Reliability Program (MRP) Crack Growth Rates for Evaluating Primary Stress Corrosion Cracking (PWSCC) of Thick-Wall Alloy 600 Material (MRP-55) (35 pages) Exemption 4

81. 07/18/02 E-mail S. Long, NRR, to J. Uhle, COM, GSI-191 & Davis-Besse Cavity (2 pages) Exemption 5
82. 07/22/02 E-mail S. Long, NRR, to W. Cullen, RES., Shack's Spreadsheet for the Worst Heat (1 page) Exemption 5
83. 07/23/02 E-mail S. Long, NRR, to E. Collins, RIV, Re: Found the B&W Fuel Pin Spacer Report (1 page) Exemption 5
84. 07/25/02 Note S. Long, NRR, to G. Holahan & J. Strosnider, NRR, Re: Preservation of Davis-Besse Nozzle 46 before disposal of RVP head w/att memo 06/18/02 S. Long, NRR, to W. Bateman, NRR (5 pages) Exemption 5
85. 07/29/02 E-mail S. Long, NRR, to D. Pickett, NRR, Re: Fwd: Nozzle 3 Cavity Exposed Cladding Area (1 page) Exemption 5
86. 07/29/02 E-mail S. Long, NRR, to B. Jain, RES, Re: Draft wording of sensitivity study in Davis-Besse SDP for GSI-191 Considerations (2 pages) Exemption 5
87. 07/30/02 E-mail S. Long, NRR, to W. Shack, ANL, Slightly Modified Davis-Besse SDP Section (2 pages) Exemption 5
88. 07/31/02 E-mail W. Shack, ANL, to W. Cullen, RES, et al., Re: Update on probability of cracking, w/att 07/31/02 Ltr Shack to Cullen (25 pages) Exemption 5
89. 07/31/02 Hand-written notes by S. Long, NRR on copy of e-mail W. Shack, ANL, to W. Cullen, RES, Re: Update on probability of cracking with attachments (26 pages) Exemption 5
90. 08/01/02 E-mail S. Long, NRR, to M. Marshall, NRR, Re: Request for Comments on Initial Set of Q&As for Proposed Bulletin (1 page) Exemption 5
91. 08/07/02 E-mail S. Long, NRR, to M. Reinhart, NRR, Re: Davis Besse Head SDP (2 pages) Exemption 5
92. 08/08/02 Predecisional Draft: Phase 3 Risk Significance Determination dated "10:40 am 8/8/02" (14 pages) Exemption 5
93. 08/08/02 Predecisional Draft: Phase 3 Risk Significance Determination dated "11:55 am 8/8/02" (15 pages) Exemption 5
94. 08/08/02 Predecisional Draft: Phase 3 Risk Significance Determination dated "11:55 am 8/8/02" w/handwritten notes by R. Caruso, NRR (15 pages) Exemption 5
95. 08/08/02 Predecisional Draft: Phase 3 Risk Significance Determination dated "11:55 am 8/8/02" version of Risk Assessment w/handwritten notes by S. Dinsmore, NRR (15 pages) Exemption 5

96. 08/08/02 S. Long's (NRR) notes from telecon with Davis-Besse (3 pages)
Exemption 5
97. 08/12/02 E-mail S. Long, NRR, to W. Shack, ANL, Re: SDP Phase III (2 pages)
Exemption 5
98. 08/12/02 Memo T. Valentine, NRR, to S. Long, NRR, Re: Comments on Phase 3
Risk significance Determination for Davis-Besse (2 pages) Exemption 5
99. 08/13/02 E-mail W. Shack, ANL, to S. Long, NRR, Re: SDP Phase III) (1 page)
Exemption 5
100. 08/13/02 E-mail WJ Shack, ANL, to S. Long, NRR, Re: SDP Phase III (1 page)
Exemption 5
101. 08/13/02 E-mail W. Shack, ANL, to W. Cullen, RES,, NRC, et. al., Comparisons
with the Bulletin (8 pages) Exemption 5
102. 08/13/02 E-mail S. Long, NRR, to W. Shack, ANL, Re: SDP Phase III (2 pages)
Exemption 5
103. 08/13/02 E-mail S. Long, NRR, to W. Shack, ANL, Re: SDP Phase III (1 page)
Exemption 5
104. 08/13/02 E-mail S. Long, NRR, to L. Dudes, NRR, Re: Status (1 page) Exemption
5
105. 08/13/02 E-mail S. Long, NRR, to M. Reinhart, Highly Predecisional D-B Results
(1 page) Exemptions 5 and 6
106. 08/14/02 Predecisional Draft: Phase 3 risk significance determination for the
CRDM nozzle cracking and associated RPV head wastage event at the
Davis Besse nuclear power station w/handwritten notes dated "1:40 pm
8/14/02" (18 pages) Exemption 5
107. 08/14/02 Predecisional Draft: Phase 3 risk significance determination for the
CRDM nozzle cracking and associated RPV head wastage event at the
Davis Besse nuclear power station w/handwritten notes dated "1:40 pm
8/14/02" (16 pages) Exemption 5
108. 08/14/02 Predecisional Draft: Phase 3 risk significance determination dated "1:40
pm 8/14/02" (16 pages) Exemption 5
109. 08/15/02 Version of risk assessment dated "8:45 am 8/15/02" (16 pages)
Exemption 5
110. 08/16/02 E-mail W. Dean, NRR, to L. Dudes, NRR, Re: ROP and Davis Besse (1
page) Exemption 5
111. 08/16/02 E-mail W. Dean, NRR, to B. Boger, NRR, Re: Fwd: ROP/Davis Besse (1
page) Exemption 5

112. 08/16/02 Predecisional Draft: Phase 3 risk significance determination dated "2:00 pm 8/12/02" File named Kirk Markup Davis-Besse Preliminary Phase 3 SDP.wpd (23 pages) Exemption 5
113. 08/19/02 E-mail S. Long, NRR, to M. Kirk, RES, Re: Clarification (1 page) Exemption 5
114. 08/20/02 E-mail S. Long, NRR, to M. Kirk, RES, Re: more comments (1 page) Exemption 5
115. 08/22/02 E-mail W. Dean, NRR, to S. Burgess, RIII, Re: Assessing Significance of Davis Besse (1 page) Exemption 5
116. 08/23/02 E-mail S. Long, NRR, to S. Burgess, RIII, Re: Food for thought-Davis Besse (2 pages) Exemption 5
117. 08/28/02 Predecisional Draft: Phase 3 risk assessment and insights dated "2:40pm 8/28/02 w/handwritten notes by S. Dinsmore, NRR (19 pages) Exemption 5
118. 08/28/02 Predecisional Draft: Phase 3 risk assessment and insights dated "2:40 pm 8/28/02" (19 pages) Exemption 5
119. 08/28/02 Predecisional Draft: Phase 3 risk assessment and insights dated "4:00 pm 8/28/02" (20 pages) Exemption 5
120. 08/28/02 Predecisional Draft: Phase 3 risk assessment and insights dated "4:00 pm 8/28/02" w/handwritten notes S. Long, NRR (20 pages) Exemption 5
121. 08/28/02 Predecisional Draft: Application of the Principles of Risk-Informed Decision-Making to Phase 3 Significance Determination for Cavity in Davis Besse Reactor Pressure Vessel Head" dated 8/28/02 6:00 pm (2 pages) Exemption 5
122. 08/28/02 E-mail S. Long, NRR, to A. & Suzanne Hiser, NRR, Re: Effects of Temperature, w/att e-mail 08/27/02 S. Long, NRR, to A. and S. Hiser, NRR (2 pages) Exemptions 5 and 6
123. 08/29/02 E-mail S. Long, NRR, to S. Burgess, R III, Re: Call about D-B SDP (23 pages) Exemption 5
124. 08/29/02 Draft Predecisional memo M. Johnson, NRR, to J. Grobe, RIII, Re: Response to Request for Technical Assistance - Risk Assessment of Davis-Besse reactor head Degradation (TIA 2002-01) dated "9:50 am 8/29/02" (5 pages) Exemption 5
125. 08/29/02 Handwritten note S. Long, NRR, to RES and NRR staff who contributed to risk assessment work, asking for their review of the current draft (1 page) Exemption 5
126. 08/30/02 E-mail M. Reinhart, NRR, to S. Long, NRR, Re: Your Response to Region III TIA on Davis-Besse (1 page) Exemption 5

127. 08/30/02 Note M. Reinhart, NRR, to S. Long, NRR, Re: TIA response w/ handwritten notes on draft TIA response dated "9:50 am 8/29/02" (32 pages) Exemption 5
128. 08/30/02 Draft Predecisional memo M. Johnson, NRR, to J. Grobe, RIII, Re: Response to Request for Technical Assistance - Risk Assessment of Davis-Besse reactor head Degradation (TIA 2002-01) dated "9:50 am 8/29/02" w/handwritten comments by M. Reinhart and M. Johnson, NRR (28 pages) Exemption 5
129. 08/30/02 Draft Predecisional memo J. Grobe, RIII, to J. Zwolinski, NRR, Re: Request for Technical Assistance-Risk Assessment of Davis-Besse reactor head Degradation (TIA 2002-01) dated 05/03/02 w/handwritten comments by NRR staff (30 pages) Exemption 5
130. 08/30/02 E-mail S. Long, NRR, to S. Dinsmore, NRR, My Mistake In Additional Years of Operation (1 page) Exemption 5
131. 08/30/02 E-mail M. Reinhart, NRR, to C. Carpenter, NRR, Re: SPSB Response to Region III TIA 2002-01 on the Davis Besse RV Head (1 page) Exemption 5
132. 09/03/02 Response to comments raised by Ellis Merschoff via e-mail on 8/30/02 regarding ORNL stress analysis of Davis Besse corrosion wastage (3 pages) Exemption 5
133. 09/03/02 E-mail D. Coe, NRR, to C. Carpenter, NRR, Re: SPSB response to Region III TIA 2002-01 on the Davis Besse RV head (1 page) Exemption 5
134. 09/04/02 E-mail S. Long, NRR, to R. Barrett, NRR, Re: Risk Assessment (1 page) Exemption 5
135. 09/04/02 Draft Predecisional memo M. Johnson, NRR, to J. Grobe, RIII, Re: Response to Request for Technical Assistance - Risk Assessment of Davis-Besse reactor head Degradation (TIA 2002-01) dated "9:50 am 8/29/02" w/handwritten notes G. Holahan, NRR (27 pages) Exemption 5
136. 09/05/02 E-mail S. Long, NRR, to M. Marshall, NRR, Re: Fwd: Davis Besse discussion group (1 page) Exemption 5
137. 09/05/02 Handwritten notes by S. Long, NRR, on list of reactor EDY and EFPY from A. Hiser, NRR (2 pages) Exemption 5
138. 09/06/02 E-mail W. Dean, NRR, to S. Black, NRR, et al., Re: Davis Besse Assessment Effort (what else) (1 page) Exemption 5
139. 09/06/02 E-mail M. Johnson, NRR, to S. Black, NRR, Re: Davis Besse Assessment Effort (What else) (1 page) Exemption 5

140. 09/06/02 Draft risk assessment approach rev 2.wpd Davis-Besse Risk Significance Determination for staff telecon w/handwritten notes (5 pages) Exemption 5
141. 09/09/02 E-mail D. Coe, NRR, to C. Carpenter, NRR, Re: Davis Besse Assessment Effort (what else) (2 pages) Exemption 5
142. 09/09/02 Slides: draft slides for "NRR ET Briefing on Preliminary Risk Assessment of the Davis-Besse RPV Head Wastage Event" by S. Long, NRR (10 pages) Exemption 5
143. 09/10/02 Slides: predecisional slides for "NRR ET Briefing on Preliminary Risk Assessment of the Davis-Besse RPV Head Wastage Event" by M. Johnson & S. Long, NRR (10 pages) Exemption 5
144. 09/10/02 E-mail B. Boger, NRR, to C. Carpenter, NRR, Re: Fwd: Re: SPSB Briefing on Davis Besse (1 page) Exemption 5
145. 09/10/02 Slides: Predecisional - NRR ET briefing on preliminary risk assessment of the Davis Besse RPV head wastage event w/handwritten notes (11 pages) Exemption 5
146. 09/11/02 E-mail drwuokko @firstenergycorp.com, FENOC, to S. Long NRR, Re: RPV Coolant Outlet Temperature (2 pages) Exemption 5
147. 09/11/02 S. Long, NRR handwritten notes from telecon with Davis-Besse (1 page) Exemption 5
148. 09/12/02 Performance Deficiency & Consequential Effects (File named "ET RA brf PD sld.wpd" from S. Long, NRR, computer) (1 page) Exemption 5
149. 09/12/02 Slides: EDO Briefing on Preliminary Risk Assessment of the Davis-Besse head Wastage Event by M. Johnson and S. Long, NRR (10 pages) Exemption 5
150. 09/13/02 E-mail W. Dean, NRR, to S. Collins, NRR, Re: Fwd: Finding for Davis Besse (Performance Deficiency) w/handwritten notes (1 page) Exemption 5
151. 09/16/02 Draft memo B. Sheron, NRR, to J. Grobe, RIII, Re: Response to Request for Technical Assistance...w/handwritten comments (28 pages) Exemption 5
152. 09/17/02 S. Long, NRR, handwritten notes from meeting with MRP (3 pages) Exemption 5
153. 09/17/02 E-mail S. Long, NRR, to M. Caruso, NRR, Re: highlight (1 page) Exemption 5
154. 09/17/02 E-mail S. Long, NRR, to I. Jung, NRR, Re: Slides for Tomorrow's Briefing (1 page) Exemption 5

- 155. 09/20/02 E-mail S. Long, NRR, to P. Koltay, NRR, Re: Nozzle Cracking Data for Risk Assessment (1 page) Exemption 5
- 156. 09/20/02 Draft memo B. Sheron, NRR, to J. Grobe, RIII, Re: Response to Request for Technical Assistance...(28 pages) Exemption 5
- 157. 09/30/02 S. Long, NRR, handwritten notes on Davis-Besse RPV head temp during operating lifetime (1 page) Exemption 5

**APPENDIX F
RECORDS WITHHELD IN THEIR ENTIRETY**

| <u>NO.</u> | <u>DATE</u> | <u>DESCRIPTION/(PAGE COUNT)/EXEMPTIONS</u> |
|-------------------|--------------------|---|
| 1. | 6/25/02 | E-Mail from S Long to A Mendiola, Subject: Outcome of Resource Meeting Between NRR and RES (2 pages) EX. 5 |
| 2. | 7/29/02 | E-mail from J Grobe to B Bateman et al., Subject: Meeting on D-B Folks, Isk Analysis and Significance Assessment (1 page) EX. 5 |
| 3. | 9/4/02 | E-Mail from J Grobe to S Long, Subject: Risk Approach (6 pages) EX. 5 |
| 4. | 9/5/02 | E-Mail from S Burgess to C Lipa, Subject: Call About D-B SDP(3 pages) EX. 5 |
| 5. | 9/5/02 | E-Mail from L Collins to C Lipa, Subject: Risk Approach (10 pages) EX. 5 |
| 6. | 9/5/02 | E-Mail from W Dean to S Burgess et al., Subject: Risk Approach (5 pages) EX. 5 |
| 7. | 9/9/02 | E-Mail from J Grobe to C Carpenter et al., Subject: Davis Besse Assessment Effort (17 pages) EX. 5 |
| 8. | 9/13/02 | E-Mail from W Dean to C Carpenter et al., Subject: Finding for Davis Besse (Performance Deficiency)(2 pages) EX. 5 |
| 9. | 9/13/02 | E-Mail from C Carpenter to J Dyer et al., Subject: Finding for Davis Besse (Performance Deficiency) (1 page)EX. 5 |
| 10. | 9/16/02 | E-Mail from S Long to J Grobe, Subject: Finding for Davis Besse (Performance Deficiency) (3 pages) EX. 5 |
| 11. | 9/17/02 | E-Mail from S Long to M Holmberg and S Burgess, Subject: Nozzle Cracking Data for Risk Assessments (1 page) EX. 5 |
| 12. | 9/19/02 | E-Mail from S Long to J Grobe et al., Subject: Nozzle Cracking Data for Risk Assessments (2 pages)EX. 5 |
| 13. | 9/19/02 | E-Mail from W Dean to C Carpenter, Subject: Nozzle Cracking Data for Risk Assessment (2 pages) EX. 5 |
| 14. | 9/19/02 | E-Mail from W Dean to S Burgess et al., Subject: Nozzle Cracking Data for Risk Assessments (4 pages) EX. 5 |

15. 9/19/02 E-Mail from S Long to C Carpenter et al., Subject: Nozzle Cracking Data for Risk Assessments (2 pages) EX. 5
16. 9/19/02 E-Mail from M Johnson to C Carpenter et al., Subject: Nozzle Cracking Data for Risk Assessments (3 pages) EX. 5
17. 9/19/02 E-Mail from J Grobe to J Jacobson, Subject: Finding for Davis Besse (Performance Deficiency) (2 page) EX. 5
18. 10/2/02 E-Mail from C Lipa to D Passehl, Subject: SDP Process/Davis Besse SERP Conference Call (2 pages) EX. 5
19. 10/3/02 E-Mail from J Grobe to C Lipa et al., Subject: SDP Process/Davis Besse SERP Conference Call (1 page) EX. 2 and 5
20. 8/31/02 E-mail from E Merschoff to B Sheron et al., Subject: Davis Besse Reactor Head Degradation SDP (1 page) EX. 5

**APPENDIX G
RECORDS BEING WITHHELD IN PART**

| <u>NO.</u> | <u>DATE</u> | <u>DESCRIPTION/(PAGE COUNT)/EXEMPTIONS</u> |
|-------------------|--------------------|--|
| 1. | Undated | Notes on telecon with authors of GSI-191 study (5 pages) (2 pages Released) Exemption 5 |
| 2. | Undated | Computations on failure pressure of as-found cavity FENOC Cavity Analysis w/handwritten notes (9 pages) (1 page Released) Exemption 5 |
| 3. | Undated | Handwritten notes on industry history of RCS pressure transients (ORNL search results of SCSS database) (4 pages) (2 pages Released) Exemption 5 |
| 4. | Undated | Handwritten notes and computations on B&W plant operating histories (6 pages) (5 pages Released) Exemption 5 |
| 5. | 04/23/02 | E-mail S. Long, NRR, to D. Pickett, NRR, Fwd: Davis-Besse risk assessment telecon, w/att 04/22/02 e-mail M. Johnson, NRR, to S. Burgess, RIII (2 pages) Exemption 5 |
| 6. | 05/07/02 | Slides: Root Cause Analysis of the Reactor Pressure Vessel Head Degradation at the Davis-Besse Nuclear Power Station by FENOC w/handwritten noted by S. Long, NRR (45 pages) Exemption 5 |
| 7. | 05/01/02 | Davis Besse 0350 Panel Agenda for May 1, 2002 meeting (1 page) Exemption 2 |
| 8. | 05/07/02 | E-mail S. Long, NRR, to M. Johnson, NRR, Definition of Davis Besse Risk Question and Data Needs (3 pages) (1 page Released) Exemption 5 |
| 9. | 05/28/02 | E-mail D. Pickett to DB Dally; DB0350, Re: Davis-Besse Tele-Conference 2:00p.m. today w/att e-mail 05/24/02 M. Leisure, FENOC, to D. Pickett, NRR (7 pages) Exemption 2 |
| 10. | 05/29/02 | E-mail D. Pickett, NRR, to DB Dally Call, Re: Davis-Besse Safety Significance Telecon (2 pages) Exemption 2 |
| 11. | 06/05/02 | Slides: MRP Update to ACRS Materials Subcommittee w/att handwritten notes by S. Long, NRR (29 pages) Exemption 5 |
| 12. | 06/20/02 | E-mail D. Pickett, NRR, A. Hansen, NRR, et al., Davis Besse Telecon (2 pages) Exemption 2 |
| 13. | 07/08/02 | E-mail S. Long, NRR, to D. Snowberger, NRR, Re: Meetings (1 page) Exemption 2 |

14. 07/08/02 E-mail S. Long, NRR, to D. Snowberger, NRR, Fwd: Conference Call, w/att e-mail (2 pages) Exemption 2
15. 07/09/02 E-mail S. Long, NRR, to D. Snowberger, NRR, Fwd: 7/10/02 Conf Call Time Change, w/att e-mail 07/09/02 N. Keller (2 pages) Exemption 2
16. 07/13/02 Handwritten comment on Preliminary FENOC submission titled Responses to NRC Staff Comments and Questions on Davis-Besse Safety Significance Assessment (SIA-W-DB-01Q-301) submitted April 8, 2002 (25 pages) Exemption 5
38
17. 07/17/02 E-mail S. Long, NRR, to M. Johnson, NRR, Davis-Besse SDP Status Slides - Revised (2 pages) (1 page Released) Exemption 5
18. 07/19/02 E-mail J. Dyer, RIII, to C. Lupa, RIII, Re: Fwd: Davis-Besse SDP Status Update w/att email 07/18/02 S. Collins, NRR, to J. Dyer, RIII, w/att e-mail 07/18/02 B. Sheron, NRR, to . Rosenberg, EDO (5 pages) (4 pages Released) Exemption 5
19. 07/25/02 Status of SDP Risk Assessment for License Performance Deficiency that resulted in the cavity in the Davis-Besse RPB head w/att Reg. Guide 1.174 (30 pages) (26 pages Released) Exemption 5
20. 07/30/02 E-mail S. Long, NRR, to D. Pickett, NRR, Details for Discussion with FENOC this week (2 pages) Exemption 2
21. 08/08/02 E-mail S. Long, NRR, to wjshack@anl.gov, First-draft D-B SDP (16 pages) (1 page Released) Exemption 5
22. 08/12/02 E-Mail S Long, NRR to M Kirk, RES, Current Draft of Preliminary SDP for Davis Besse (16 pages) (1 page Released) Exemption 5
23. 08/14/02 E-mail S. Long, NRR, to M. Johnson, NRR, As-Is Draft Davis-Besse SDP (15 pages) (1 page Released) Exemption 5
24. 08/14/02 E-mail S. Long, NRR, to L. Collins, R III, Highly Predecisional D-B SDP (17 pages) (1 page Released) Exemption 5
25. 08/20/02 E-mail S. Long, NRR, to G. Demoss, RES, Current Drafts of D-B SDP (20 pages) (1 page Released) Exemption 5
26. 08/22/02 E-mail S. Long, NRR, to M. Marshall, NRR, Re: Working Meeting on PRV Top Head PFM (1 page) Exemption 6
27. 08/23/02 E-mail M. Lelsure, FENOC, to jbh1 (J. Hopkins), NRR, Re: NRC Request re: Cavity Mold w/att handwritten notes and computations by S. Long, NRR on cavity dimensions and growth required for failure including basis material from licensee and RES (16 pages) (4 pages Released) Exemption 5
28. 09/09/02 E-mail S. Long, NRR, to M. Johnson, NRR, ET Slides (12 pages) (1 page Released) Exemption 5

29. 09/10/02 E-mail M. Johnson, NRR, to L. Collins, RIII, et al., Re: ET Update-Davis Besse Risk Assessment w/att e-mail 09/10/02 S. Long, NRR, to M. Johnson, NRR, w/attached Slides (12 pages) (2 pages Released) Exemption 5
30. 09/11/02 E-mail S. Long, NRR, to M. Johnson, NRR, Revisions to slides for EDO brf. (11 pages) (1 page Released) Exemption 5
31. 09/16/02 E-mail S. Long, NRR, to M. Kirk, RES, Re: Deputy EDO Briefing (11 pages) (1 page Released) Exemption 5
32. 09/20/02 E-mail S. Long, NRR, to S. Burgess, RIII, Re: Draft TIA Response (31 pages) (1 page Released) Exemption 6
33. 10/17/02 E-mail S. Long, NRR, to J. Grobe, R III, Draft TIA Response (31 pages) (1 page Released) Exemption 5
34. 8/12/03 E-Mail from M M Kirk to S Long, Subject: Some Comments (24 pages) (1 page Released) Exemption 5
35. 8/31/02 E-Mail from E Merschoff to B Sheron, Subject: Davis Besse Reactor Head Degradation SDP (1 page) Exemption 5
36. 8/5/02 Memo from M Kirk to N Chokshi, Subject: Status of ORNL Calculations of Burst Pressure for Cavities that are Larger than the Cavity Found at Davis Besse with handwritten notes (5 pages) Exemption 5
37. 10/30/01 Letter to NRC from Campbell, FENOC, Subject: Responses to Requests for Additional Information Concerning NRC Bulletin 2001-01, "Circumferential Cracking of Reactor Pressure Vessel Head Penetration Nozzles" (253 pages) (37 pages Released) Exemption 4
38. 8/20/02 E-Mail from E Merschoff to B Sheron, Subject: Food for Thought - Davis Besse (1 page) Exemption 5
39. 8/23/02 E-Mail from E Merschoff to J Dyer, Subject: Food for Thought - Davis Besse (4 pages) (1 page Released) Exemption 5
40. 5/31/02 E-Mail from M Kirk to S Long, Subject: Probabilistic Calcs for DB (2 pages) Exemption 6
41. 7/21/02 E-Mail from E Hackett to A Howell, Subject: Info and Proxy (1 page) Exemption 6
42. 11/1/01 Letter to NRC from G Campbell, FirstEnergy, Subject: Transmittal of Davis-Besse Nuclear Power Station Risk Assessment of Control Rod Drive Mechanism Nozzle Cracks with handwritten notes (18 pages) Exemption 5

- 43. 4/18/02 Letter to J Dyer, NRC from H Bergendahl, FENOC, Subject: Confirmatory Action Letter Response - Root Cause Analysis Report with handwritten notes (~~186~~ page) Exemption 5
181
- 44. 4/8/02 Letter to J Dyer, NRC from H Bergendahl, FENOC, Subject: Safety Significance Assessment of the Davis Besse Nuclear Power Station Unit 1 Reactor Pressure Vessel Head Degradation with handwritten notes (55 pages) (31 pages Released) Exemptions 4 and 5
- 45. 9/23/02 E-Mail from S Burgess to C Lipa, Subject: Draft TIA Response (33 pages) (3 pages Released) Exemption 5
- 46. 7/3/02 E-Mail from M Kirk to S Long, Subject: Failure Model for DB (32 pages) Exemption 4
- 47. 8/4/02 Stochastic Failure Model for the Davis-Besse RPV Head (44 pages) Exemption 4
- 48. 9/02 Stochastic Failure Model for the Davis Besse RPV Head (~~48~~ page) Exemption 4
52

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**APPENDIX M
RECORDS WITHHELD IN PART**

| <u>NO.</u> | <u>DATE</u> | <u>DESCRIPTION/(PAGE COUNT)/EXEMPTIONS</u> |
|-------------------|--------------------|--|
| 1. | 4/15/02 | E-Mail from S Long to A Hiser et al., Subject: Items for Today's 2:00 pm Davis Besse Call (2 pages)Exemption 5 |
| 2. | 5/5/02 | NRC Assessment of Margin Available at Davis Besse (11 pages) Exemption 5 |
| 3. | 9/5/02 | Evolution of MRP-55 Report on Alloy 600 Crack Growth Rates (19 pages) Exemption 5 |
| 4. | 5/23/02 | E-Mail from S Long to W Cullen, Subject: NRC Questions on Safety Significance Assessment (3 pages)Exemption 5 |
| 5. | 6/19/02 | E-Mail from S Long to D Snowberger, Subject: Additional Analyses of Disk Burst Tests (4 pages) (3 pages Released)Exemption 5 |
| 6. | 7/1/02 | E-Mail from J Grobe to DB0350, Subject: Davis Besse Analysis Schedule (4 pages) (2 pages Released) Exemption 5 |
| 7. | 7/15/02 | E-Mail from S Long to D Snowberger, Subject: Failure Model for DB (3 pages) (2 pages Released) Exemption 5 |

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**APPENDIX N
RECORDS WITHHELD IN THEIR ENTIRETY**

| <u>NO.</u> | <u>DATE</u> | <u>DESCRIPTION/(PAGE COUNT)/EXEMPTIONS</u> |
|-------------------|--------------------|---|
| 1. | 8/22/02 | Risk Considerations Associated with GSI-191, 'Assessment of Debris Accumulation on PWR Sump Performance' (21 pages) Exemption 5 |
| 2. | 3/28/02 | E-Mail from S Long to W Cullen, Subject: More Davis Besse Analysis (2 pages) Exemption 5 |
| 3. | 4/15/02 | E-Mail from S Long to E Hackett, Subject: Items for Today's 2:00 p.m. Davis Besse Call (1 page) Exemption 5 |
| 4. | 4/26/02 | E-Mail from W Cullen to S Sands, Subject: Safety Significance Assessment and Exposed Cladding Area Size (2 pages) Exemption 5 |
| 5. | 10/xx/02 | Memorandum to S Collins from A Thadani, Subject: Comments on Draft "Response to Request for Technical Assistance - Risk Assessment of Davis-Besse Reactor Head Degradation" (5 pages) Exemption 5 |
| 6. | 5/21/02 | E-Mail from Y Wang to M Kirk, Subject: Information Request and Thought on Work Scope for NRR on DB (6 pages) Exemption 5 |
| 7. | 5/24/02 | E-Mail from G Wilkowski to M Kirk, Subject: Davis Basis for Probability Calcs (3 pages) Exemption 5 and 6 |
| 8. | 6/12/02 | RES/ORNL Spreadsheet (14 pages) Exemption 5 |
| 9. | 6/12/02 | Preliminary Results of ORNL Analyses of Disk Burst Tests (26 pages) Exemption 5 |
| 10. | 6/18/02 | E-Mail from W Cullen to M Kirk, Subject: Materials Props Data for D-B Safety Assessment (3 pages) Exemption 5 |
| 11. | 6/25/02 | E-Mail from S Long to D Rasmuson, Subject: Davis Besse Safety Relief Valve Demands (1 page) Exemption 5 |
| 12. | 6/27/02 | E-Mail from S Long to M Kirk, Subject: MEB Analysis of Davis Besse (2 pages) Exemption 5 |
| 13. | 7/2/02 | E-Mail from S Long to M Kirk, Subject: MEB Analysis of Davis Besse (2 pages) Exemption 5 |

14. 7/3/02 E-Mail from W Shack to W Cullen, Subject: Failure of Davis Besse Nozzles by Growth of Circ Cracks (15 pages) Exemption 5
15. 7/5/02 E-Mail from W Shack to W Cullen, Subject: Failure of Davis Besse Nozzles by Growth of Circ Cracks R1 (24 pages) Exemption 5
16. 7/30/02 E-Mail from S Long to D Pickett, Subject: Nozzle 3 Cavity Exposed Cladding Area (7 pages) Exemption 5
17. 7/30/02 E-Mail from R Bass to M Kirk, Subject: Cavity Growth Model II (2 pages) Exemption 5
18. 8/12/02 E-Mail from M Kirk to S Long, Subject: Some Comments (20 pages) Exemption 5
19. 8/15/02 Draft Memorandum to M Johnson from N Chokshi, Subject: Predecisional Draft of Phase 3 Risk Significance Determination for Davis Besse (2 pages) Exemption 5
20. 9/18/02 E-Mail from M Kirk to S Long, Subject: Your Reference #1 (1 page) Exemption 5

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**APPENDIX O
RECORDS WITHHELD IN PART**

| NO. | DATE | <u>DESCRIPTION/(PAGE COUNT)/EXEMPTIONS</u> |
|------------|-------------|---|
| 1. | 4/30/02 | Failure Criterion Development and Parametric Finite Element Analyses to Assess Margins for the Davis Besse RPV Head Corrosion with handwritten notes (28 pages) Exemption 5 |
| 2. | 5/3/02 | E-mail from G Wilkowski to W Norris, Subject: Davis Besse Head Corrosion Margin Report (59 pages) Exemption 5 and 6 |
| 3. | 5/21/02 | E-mail from S Long to Bassbr@ornl.gov , Subject: Mike Johnson Just Called and Wanted to Discuss Support For Their Davis Besse Significance Determination (2 pages) Exemption 6 |
| 4. | 5/21/02 | E-Mail from R Bass to C Briggs, Subject: Mike Johnson Just Called and Wanted to Discuss Support for their Davis Besse Significance Determination (7 pages) Exemption 5 |

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**APPENDIX P
RECORDS WITHHELD IN ENTIRETY**

| <u>NO.</u> | <u>DATE</u> | <u>DESCRIPTION/(PAGE COUNT)/EXEMPTIONS</u> |
|-------------------|--------------------|---|
| 1. | 9/10/02 | E-Mail from S Long to M Kirk, Subject: Clad Flaw Distribution for Davis Besse (4 pages) Exemption 5 |
| 2. | Undated | Safety Significance Determination files with color images (1 page) Exemption 5 |
| 3. | Undated | Phase 3 Significance Determination for Cavity in Davis Besse Reactor Pressure Vessel Head (3 pages) Exemption 5 |
| 4. | 4/23/01 | Draft Phase 3 Significance Determination for Cavity in Davis Besse Reactor Pressure Vessel Head (3 pages) Exemption 5 |

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**APPENDIX B
RECORDS BEING WITHHELD IN PART**

| <u>NO.</u> | <u>DATE</u> | <u>DESCRIPTION/(PAGE COUNT)/EXEMPTIONS</u> |
|-------------------|--------------------|---|
| 1. | 10/3/01 | Commissioners' Technical Assistants Brief with handwritten notes (14 pages) EX. 4 |

**APPENDIX C
RECORDS WITHHELD IN THEIR ENTIRETY**

| <u>NO.</u> | <u>DATE</u> | <u>DESCRIPTION/(PAGE COUNT)/EXEMPTIONS</u> |
|------------|-------------|--|
| 1. | Undated | Outline for Phone Calls with Licensees for Davis Besse, H.B. Robinson, North Anna Unit 2 and Surry Unit 2 (1 page) EX. 5 |
| 2. | 10/5/01 | Memorandum to Chairman Meserve from D Roberts re: Staff's intention to issue order requiring plants to conduct inspections of reactor pressure vessel head penetration for control rod drive mechanism housing leaks before 12/31/01 (5 pages) EX. 5 |
| 3. | 10/11/01 | Handwritten notes of suggested topics M. Lopez-Otin in preparation for Commissioner Diaz's meeting with Commission McGaffigan with handwritten notes (1 page) EX. 5 |
| 4. | 10/15/01 | Operations Center Event Report (3 pages) EX. 5 |
| 5. | 10/24/01 | Handwritten notes of suggested topics by M. Lopez-Otin in preparation for Commissioner Diaz's meeting with handwritten notes (1 page) EX. 5 |
| 6. | 11/6/01 | Draft Order Modifying License (Immediately Effective) for Indiana Michigan Power Company, Donald C. Cook Nuclear Plant (17 pages) EX. 5 |
| 7. | 11/26/01 | E-Mail from A Levin to D Roberts, M Tschiltz re: order for Davis Besse (1 page) EX. 5 |
| 8. | 11/27/01 | E-Mail from M Tschiltz to Chairman Meserve re: Davis Bess (2 pages) EX. 5 |
| 9. | 11/28/01 | Handwritten notes of suggested topics by M. Lopez-Otin in preparation for Commissioner Diaz's meeting with Chairman Meserve with handwritten notes (2 pages) EX. 5 |
| 10. | 11/28/01 | Handwritten notes of suggested topics by M. Lopez-Otin in preparation for Commissioner Diaz's meeting with Commissioner McGaffigan with handwritten notes (2 pages) EX. 5 |
| 11. | 12/12/01 | Handwritten notes for Commissioner Diaz's meeting with S Collins (1 page) EX. 5 |

FOIA-2003-0224

**APPENDIX B
RECORDS BEING WITHHELD IN THEIR ENTIRETY**

| <u>NO.</u> | <u>DATE</u> | <u>DESCRIPTION/PAGE COUNT/EXEMPTIONS</u> |
|-------------------|--------------------|---|
| 1. | Undated | Memorandum to Davis Besse Nuclear Power Station IMC 0350 Panel from J Grobe, Subject: Minutes of Internal Meeting of the Davis Besse Oversight Panel (13 pages) EX. 5 |
| 2. | Various | Records located in file RIII-2003-A-0005 (approximately 100 pages) EX. 7A |