



PDR-016

UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

September 12, 1983

Ms. Susan L. Hiatt
OCRE Representative
8275 Munson Road
Mentor, OH 44060

IN RESPONSE REFER
TO FOIA-83-469

Dear Ms. Hiatt:

This is in response to your letter dated August 12, 1983, in which you requested, pursuant to the Freedom of Information Act, 7 categories of documents relating to the BWR Hydrogen Control Owners Group (HCOG).

The documents listed on Appendix A are responsive to items 2, 3, 4, 5, 6, and 7 of your request. These documents are enclosed. The charges for the enclosed 689 pages total \$8.61. You will be billed directly for this amount by our Division of Accounting.

Appendix B is a listing, as requested, of documents related to items 6 and 7.

In addition, listed below are 3 ACRS transcripts which are in response to item 1 of your request:

1. ACRST-1200 - Class 9 Subcommittee Meeting Transcripts (150 pages)
2. ACRST-1201 - Transcript for April 25-26, 1980 (288 pages)
3. ACRST-1209 - Full Committee Meeting Transcripts for May 12-13, 1983 (636 pages)

Access to these transcripts may be obtained by calling (202-634-3273) or writing directly to the PDR, 1717 H Street, NW, Washington, DC 20555.

This completes action on your request.

Sincerely,

(for) J. M. Felton, Director
Division of Rules and Records
Office of Administration

Enclosures: As stated

8312190005 830912
PDR FOIA
HIATT83-469 PDR

APPENDIX A

ITEM 2:

1. 7/27/83 Memo for R. W. Houston from W. R. Butler re: PROPOSED STAFF POSITION DEALING WITH HYDROGEN CONTROL FOR MARK III CONTAINMENTS (2 pages)
2. 8/1/83 Memo for D. Okrent et. al. from H. Alderman et. al. re: HYDROGEN CONTROL FOR THE MARK III CONTAINMENT (3 pages)

ITEMS 3 AND 4:

1. 1/25/82 Letter to Docketing and Service Branch from L. O. DelGeorge re: Proposed Rulemaking and Attached Comments (3 pages)
2. 2/8/82 Letter to Docketing and Service Branch from Susan L. Hiatt re: Proposed Rule on Interim Requirements Related to Hydrogen Control, 46 FR 62281 (2 pages)
3. 2/11/82 Letter to Samuel J. Chilk from E. P. Rahe, Jr., re: COMMENTS ON PROPOSED RULE 10 CFR PART 50 - INTERIM REQUIREMENTS RELATED TO HYDROGEN CONTROL (5 pages)
4. 2/19/82 Letter to Docketing and Service Branch from R. B. Bradbury re: INTERIM REQUIREMENTS RELATED TO HYDROGEN CONTROL (4 pages)
5. 2/22/82 Letter to Docketing and Service Branch from J. P. Bayne re: Comments on Proposed Amendments to 10 CFR 50.44(C) (4 pages)
6. 2/16/82 Letter to Samuel J. Chilk from F. L. Clayton, Jr., re: Alabama Power Company Comments on Proposed Rulemaking Related to Hydrogen Control (3 pages)
7. 2/23/82 Letter to Docket and Service Branch from A. E. Scherer re: INTERIM REQUIREMENTS RELATED TO HYDROGEN CONTROL (4 pages)
8. 2/18/82 Letter to Docketing and Service Branch from John D. Parkyn re: PROPOSED CHANGE TO 10 CFR PART 50 (2 pages)
9. 2/23/82 Letter to Samuel J. Chilk from David G. Mardis re: Crystal River Unit 3 (2 pages)
10. 2/26/82 Letter to Docket and Service Branch from A. L. Cahn re: Comments on Supplementary Information (5 pages)
11. 3/16/82 Letter to Samuel J. Chilk from Cloin G. Robertson re: Interim Requirements Related to Hydrogen Control (2 pages)

APPENDIX A

ITEMS 3 AND 4 - (CONTINUED):

12. 3/25/82 Letter to Docketing and Service Branch from L. O. Del George re: PROPOSED RULEMAKING 10 CFR PART 50 (2 pages)
13. 3/31/82 Letter to Docketing and Service Branch from Cordell Reed re: 10 CFR PART 50 (5 pages)
14. 3/31/82 Letter to Docketing and Service Branch from L. M. Mills re: AMENDMENTS TO 10 CFR 50.44 (4 pages)
15. 4/6/82 Letter to Docketing and Service Branch from G. D. Bouchev re: PROPOSED RULE ON INTERIM REQUIREMENTS RELATED TO HYDROGEN CONTROL (3 pages)
16. 4/6/82 Letter to Docketing and Service Branch from Glenn G. Sherwood re: GENERAL ELECTRIC COMPANY COMMENTS ON PROPOSED REQUIREMENTS SECTION 50.44 (c)(3)(iv) (8 pages)
17. 4/8/82 Letter to Docketing and Service Branch from W. G. Counsil et. al. re: Haddam Neck Plant (7 pages)
18. 4/6/82 Letter to Docketing and Service Branch from C. W. Fay re: COMMENTS ON PROPOSED RULE - POINT BEACH NUCLEAR PLANT, UNITS 1 AND 2 (6 pages)
19. 4/9/82 Letter to Samuel J. Chilk from James P. McGaughy, Jr., re: Mississippi Power and Light Company Comments on Interim Requirements Related to Hydrogen Control (3 pages)
20. 4/8/82 Letter to Samuel J. Chilk from John D. Richardson re: Hydrogen Control Owners Group - Comments on Interim Requirements Related to Hydrogen Control (16 pages)
21. 4/8/82 Letter to Docketing and Service Branch from Bart D. Withers re: Federal Register Comments (4 pages)
22. 4/8/82 Letter to Samuel J. Chilk from Nicholas S. Reynolds re: NOTICE OF PROPOSED RULEMAKING REGARDING INTERIM REQUIREMENTS RELATED TO HYDROGEN CONTROL (40 pages)
23. 4/9/82 Letter to Docketing and Service Branch from D. W. Edwards re: COMMENTS ON PROPOSED RULE PERTAINING TO INTERIM REQUIREMENTS RELATED TO HYDROGEN CONTROL (3 pages)
24. 4/8/82 Letter to Docketing and Service Branch from J. E. Booker re: COMMENTS ON PROPOSED RULE (4 pages)

APPENDIX A

ITEMS 3 AND 4 - (CONTINUED):

25. Letter to Docketing and Service Branch from William L. Porter re: Duke Power Company's Comments on Proposed Interim Requirements Related to Hydrogen Control (3 pages)
26. 4/5/82 Letter to Docketing and Service Branch from R. J. Gary re: INTERIM REQUIREMENTS RELATED TO HYDROGEN CONTROL (4 pages)
27. 4/6/82 Letter to Samuel J. Chilk from John R. Thorpe re: ENCLOSURE - SPECIFIC COMMENTS ON PROPOSED ADDITIONS TO 50.44 (4 pages)
28. 4/12/82 Letter to Secretary of the Commission from L. V. Maurin re: SPECIFIC COMMENTS ON THE PROPOSED RULE (4 pages)

ITEM 7:

1. 8/21/81 Letter to H. R. Denton from L. F. Dale re: GRAND GULF STATION UNITS 1 AND 2 (2 pages)
2. 10/23/81 Letter to H. R. Denton from L. F. Dale re: GRAND GULF STATION UNITS 1 AND 2 (7 pages)
3. 11/2/81 Memo for R. Tedesco et. al. from A. Schwencer et. al. re: GRAND GULF: IGNITER SYSTEM REVIEW FOR INTERIM LICENSING (5 pages)
4. 5/4/82 Memo for Walter R. Butler from Franz P. Schauer re: GRAND GULF NUCLEAR STATIONS HYDROGEN CONTROL - CONTAINMENT ULTIMATE CAPACITY (4 pages)
5. 6/11/82 Letter to H. R. Denton from L. F. Dale re: GRAND GULF NUCLEAR STATION UNITS 1 AND 2 (4 pages)
6. 6/11/82 Letter to H. R. Denton from L. F. Dale re: GRAND GULF NUCLEAR STATION UNITS 1 AND 2 (4 pages)
7. 6/21/82 Memo for F. P. Schauer from W. R. Butler re: REQUEST FOR FURTHER REVIEW OF GRAND GULF'S STRUCTURAL CAPACITY (2 pages)
8. 7/9/82 Memo for Walter R. Butler from Franz P. Schauer re: GRAND GULF NUCLEAR STATION'S HYDROGEN CONTROL - CONTAINMENT ULTIMATE CAPACITY (2 pages)
9. 2/3/83 Letter to John D. Richardson from R. W. Houston re: Review of HCOG Program (14 pages)

APPENDIX A

ITEM 7 - (CONTINUED):

10. 7/15/83 Memo for A. Schwencer from M. D. Houston re: SUMMARY OF BWR HYDROGEN CONTROL OWNERS GROUP (HCOG) MEETING ON 6/28/83 (4 pages)
11. 6/29/83 HCOG/NRC MEETING BETHESDA, MARYLAND (113 pages)
12. 6/82 AN ASSESSMENT OF POSTULATED DEGRADED CORE ACCIDENTS IN THE GRAND GULF REACTOR PLANT by R. D. Gasser (246 pages)
13. 8/23/83 HCOG/NRC BWR CORE HEATUP CODE REVIEW MEETING ATTENDANCE (1 page)
14. 8/23-24/1983 PROPOSED AGENDA - BWR CORE HEATUP CODE MEETING (1 page)
15. 8/23/83 HCOG/NRC BWR CORE HEATUP CODE REVIEW MEETING (2 pages)
16. Undated HYDROGEN GENERATION RATES DURING DEGRADED CORE ACCIDENTS IN BWR/MARK II CONTAINMENTS (5 pages)
17. Undated CAPABILITIES OF THE HYDROGEN IGNITION SYSTEM (3 pages)
18. Undated Note to John Long et. al. from Paul Abranson re: THE BWR CORE HEAT UP CODE (4 pages)
19. 8/26/83 Letter to John Long from Wm. Trevor Pratt re: BNL Memorandum (4 pages)
20. 8/23-24/1983 HYDROGEN GENERATION IN BWR DEGRADED CORE ACCIDENTS - BWR CORE HEATUP CODE MODELING BASIS AND FEATURES by Garry R. Thomas (17 pages)
21. 8/23-24/1983 HYDROGEN GENERATION IN BWR DEGRADED CORE ACCIDENTS - SUMMARY OF EPRI SCOPING STUDY by Garry R. Thomas (34 pages)
22. 3/15-16/1983 MARCH Code Improvements for BWR Degraded Core Studies by L. J. Ott (24 pages)
23. Undated BASIS OF CODE (25 pages)
24. 8/83 CORE ENERGY BALANCE vs H₂ PRODUCTION (1 page)

APPENDIX B

ITEM 6: Correspondence Between NRC and HCOG Concerning Hydrogen Control in Mark III Plants - January 1981 to the Present

1. 1/15/82 Letter to H. Denton from J. Richardson, re: "Containment Sensitivity Study for Hydrogen Generation Event." Accession No. 8201210152
2. 1/15/82 Letter to H. Denton from J. Richardson, re: "Hydrogen Control Program Document." Accession No. 8201210225
3. 4/8/82 Letter to H. Denton from J. Richardson, re: "Report on Hydrogen Control Accident Scenarios, Generation Rates and Equipment Requirements." Accession No. 8204140223
4. 7/22/82 Memo from T. Speis to J. P. Knight
5. 9/9/82 Report on Hydrogen Control Accident Scenarios, Hydrogen Generation Rates and Equipment Requirements. Accession No. 8209140118
6. 10/26/82 Letter from J. Richardson to H. Denton, re: "Report on Hydrogen Control Accident Scenarios, Hydrogen Generation Rates and Equipment Requirements." Accession No. 8211010202
7. 1/14/83 Information on H₂ Combustion Test Programs - Accession No. 8301180285
8. 3/18/83 CIAAI Report - Accession Nos. 8303290369 and 8303290385
9. 5/11/83 Responses to NRC Request for Additional Information - Accession No. 8305130126
10. 8/12/83 Letter from S. H. Hobbs to H. R. Denton re: "1/4 Scale Hydrogen Combustion Test Program."

ITEM 7: List of Correspondence Between NRC and Mississippi Power and Light Concerning Hydrogen Control for Grand Gulf

1. 2/3/81 Letter to MP&L from NRC - Accession No. 8102190768
2. 3/27/81 Letter to NRC from MP&L - Accession No. 8104030405
3. 4/9/81 Letter to NRC from MP&L re: "Description of Hydrogen Control Measures." Accession No. 8104140410
4. 6/19/81 Letter to NRC from MP&L re: "Description of Hydrogen Control Measures." Accession No. 8106240238

APPENDIX B

(Continued)

- ITEM 7: List of Correspondence Between NRC and Mississippi Power and Light Concerning Hydrogen Control for Grand Gulf
5. 7/1/81 Letter to NRC from MP&L re: "Hydrogen Ignition System." Accession No. 8107080396
 6. 8/18/81 Letter to NRC from MP&L re: "Hydrogen Action Status Report."
 7. 8/31/81 Letter to NRC from MP&L re: "Hydrogen Control." Accession No. 8109030063
 8. 9/11/81 Letter to NRC from MP&L re: "Hydrogen Action Items." Accession No. 8109160069
 9. 10/28/81 Letter to MP&L from NRC re: Forwards Chemical Engineering Branch Request for Additional Information on Hydrogen Control. Accession No. 8111120814
 10. 11/6/81 Letter to J. P. McGaughy from A. Schwencer re: "Request for Additional Information - Hydrogen Control Grand Gulf Nuclear Station, Unit 1 and 2. Accession No. 8102030705
 11. 11/19/81 Letter to MP&L from NRC re: Forwards Revision to Request for Additional Hydrogen Control Information. Accession No. 8112090577
 12. 12/21/81 Letter to NRC from MP&L re: "Response to Hydrogen Review Questions." Accession No. 8112290102
 13. 1/12/82 Letter to MP&L from NRC - Accession No. 8202220166
 14. 1/15/82 Letter to NRC from MP&L - Accession No. 8201210225
 15. 1/15/82 Letter to NRC from MP&L - Accession No. 8201250330
 16. 1/18/82 Letter to NRC from MP&L - Accession No. 8201210192
 17. 1/19/82 Report on Equipment Survivability for a Hydrogen Generation Event. Accession No. 8201210193
 18. 1/21/82 Letter to NRC from MP&L - Accession No. 8201260450
 19. 3/2/82 Letter to NRC from MP&L re: "Hydrogen Test Program." Accession No. 8203100181
 20. 3/2/82 Letter to NRC from MP&L re: "Report on Study of Hydrogen Control in the Grand Gulf NS." Accession No. 8203100193

APPENDIX B

(Continued)

- ITEM 7: List of Correspondence Between NRC and Mississippi Power and Light Concerning Hydrogen Control for Grand Gulf
21. 3/10/82 Letter to NRC from MP&L re: "Hydrogen Control - Potential Impact on License Schedule." Accession No. 8203160318
 22. 3/31/82 Letter to NRC from MP&L re: "Effects of Pressure in the Drywell from Hydrogen Burn."
 23. 4/1/82 Letter to NRC from MP&L re: "Response to Informal Questions on AC Power." Accession No. 8204060035
 24. 4/1/82 Letter to NRC from MP&L re: "Containment Ultimate Capacity."
 25. 4/5/82 Letter to NRC from MP&L re: "Containment Atmosphere Mixing During a Hydrogen Generation Event."
 26. 4/6/82 Letter to NRC from MP&L re: "Evaluation of Suppression Pool Swell Induced Dynamic Loads Resulting from a Postulated Drywell Hydrogen Burn."
 27. 4/8/82 Letter to NRC from MP&L re: "Environmental Qualification Test Program." Accession No. 8204120182
 28. 4/20/82 Letter to NRC from MP&L re: "Equipment Survivability." Accession No. 8204230287
 29. 4/30/82 Letter to NRC from MP&L re: "Hydrogen Ignition System Emergency Procedures."
 30. 5/10/82 Letter to NRC from MP&L re: "Hydrogen Ignition System Emergency Procedures." Accession No. 8205140434
 31. 5/17/82 Background Documents for Hydrogen Control - Accession No. 8205270043
 32. 6/7/82 Letter to NRC from MP&L re: "Sensitivity of Containment Response to Heat Sink Nodalization." Accession No. 8206090051
 33. 6/11/82 Letter to NRC from MP&L re: "Effects of Pressure in the Drywell from Hydrogen Burn."
 34. 6/14/82 Letter to NRC from MP&L re: "Evaluation of Emergency Procedures for Activating Hydrogen Ignition." Accession No. 8206160178

APPENDIX B

(Continued)

- ITEM 7: List of Correspondence Between NRC and Mississippi Power and Light Concerning Hydrogen Control for Grand Gulf
35. 6/15/82 Letter to NRC from MP&L re: "Emergency Procedures - Containment Venting."
 36. 6/25/82 Letter to NRC from MP&L re: "Outstanding Information Requests for Hydrogen Control." Accession No. 8206290066
 37. 6/25/82 Letter to NRC from MP&L re: "Hydrogen Control - Equipment Survivability." - Accession No. 8206290310
 38. 6/25/82 Letter to NRC from MP&L re: "Local Detonations."
 39. 6/23/82 Outstanding Information Requests for Hydrogen Control - Accession No. 8207010023
 40. 7/1/82 Letter to NRC from MP&L re: "Detonations and Drywell Head External Pressure Capacity."
 41. 7/6/81 Letter to NRC from MP&L re: "Hydrogen Control." Accession No. 8207080358
 42. 1/28/83 Letter to NRC from MP&L re: "Evaluation of Emergency Procedures for Containment Spray Actuation."
 43. 1/14/83 Letter to NRC from MP&L - Accession No. 8302150295
 44. 5/11/83 Letter to NRC from MP&L - Accession No. 8305130126
 45. 6/16/83 Letter to NRC from MP&L re: "Response to NRC Request for Additional Information." Accession No. 8306230167
 46. 6/23/83 Letter to NRC from MP&L re: "Hydrogen Igniter Performance." Accession No. 8306270285
 47. 7/22/83 Letter to J. P. McGaughy from A. Schwencer re: Mark III BWR Hydrogen Control. Accession Nos. 8308050477 and 8308050594
 48. 8/12/83 Letter to NRC from MP&L re: "Response to NRC Letter on Hydrogen Control."
 49. 8/13/83 Letter to NRC from MP&L - Accession No. 8308170010
 50. 8/23/83 Letter to NRC from MP&L - Accession No. 8308250092