



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

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APR 25 1985

Mr. Robert Alvarez, Director  
Nuclear Power and Weapons Project  
Environmental Policy Institute  
218 D Street, SE  
Washington, DC 20003

IN RESPONSE REFER  
TO FOIA-85-110

Dear Mr. Alvarez:

This is a second partial response to your letter dated January 29, 1985, in which you requested, pursuant to the Freedom of Information Act (FOIA), all records relating to the current American Physical Society (APS) source term review.

The documents listed on enclosed Appendices C, D and E are responsive to your request. All of these documents, excluding those marked with asterisks, are being placed in the NRC's Public Document Room (PDR), in file folder FOIA-85-110 for your inspection and copying. The documents bearing the asterisks have previously been made available for inspection and copying at the PDR. Access to these documents may be acquired by referring to the accession number listed by each of these documents.

As indicated in our earlier response of April 15, 1985, the review of additional documents is still ongoing. You will be notified at the completion of this review.

Sincerely,

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

Enclosures: As stated

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APPENDIX C

Viewgraphs, Articles and Reports

1. Undated Various Charts - Cesium Release VS. Containment Failure Time (3 pages)
2. Undated Cyclone Design: Sensitivity, Elasticity and Error Analysis (6 pages)
3. Undated Draft - Accident Sequence Likelihood Information for NUREG-0956 (25 pages)
4. 04/1982 IDCOR - Technical Report 2.0 - Ground Rules for the IDCOR Program (140 pages)
5. 06/1982 IDCOR - Technical Report 3.1 - Define Initial Likely Sequences (130 pages)
6. 03/1983 Final Report on Core-Concrete Interactions by Fauske & Associates, Inc. (113 pages)
7. 04/1983 IDCOR - Technical Report 16.1 - Assess Available Codes, Define Use, and Follow and Support Ongoing Activities (57 pages)
8. 04/1983 Final Report - Hydrogen Distribution in Reactor Containment Buildings by J. J. Haugh (599 pages)
9. 05/1983 Final Report - Hydrogen Distribution in Reactor Containment Buildings by J. J. Haugh (379 pages)
10. 05/1983 Volume 1 Review of the MAAP/PWR Core by P. Nakayama and M. Ringham (135 pages)
11. 06/1983 IDCOR - Technical Report 12.1 - Hydrogen Generation During Severe Core Damage Sequences (117 pages)
12. 06/1983 IDCOR - Technical Report 14.1A - Dey Phenomenological Models for Assessing Explosive Steam Generation Rates (150 pages)
13. 06/1983 IDCOR - Technical Report 14.1B - Key Phenomenological Models for Assessing Non-Explosive Steam Generation Rates (114 pages)

14. 06/1983 Final Report - Analysis of In-Vessel Core Melt Progression - Volume IV User's Manual and Modeling Details for the Fission Product Release and Transport Code (FPRAT) (136 pages)
15. 06/1983 IDCOR - Technical Report 15.2A - Effects of a Hypothetical Core Melt Accident on a PWR Vessel with Top-Entry Instruments (113 pages)
16. 07/1983 IDCOR - Technical Report 3.3 - Selection of Dominant Sequences-Update (358 pages)
17. 07/1983 IDCOR - Technical Report 15.1A - In-Vessel Core Melt Progression Phenomena (77 pages)
18. 08/1983 IDCOR - Technical Report 15.2B - Debris Coolability, Vessel Penetration, and Debris Dispersal (135 pages)
19. 08/1983 IDCOR - Technical Report 16.2-3 - Modular Accident Analysis Program User's Manual Volume I (201 pages)
20. 08/1983 IDCOR - Technical Report 16.2-3 - Modular Accident Analysis Program User's Manual Volume II (811 pages)
21. 10/1983 Final Report - EDCOR Subtask 11.2 Identifying Pathways on Fission Product Transport by Impell Corp. (170 pages)
22. 10/1983 IDCOR - Technical Report 3.2 - Define Initial Likely Sequences (455 pages)
23. 10/1983 IDCOR - Technical Report 11.1, 11.4 & 11.5 - Estimation of Fission Product and Core-Material Characteristics (331 pages)
24. 11/1983 Fission Product Transport in Degraded Core Accidents by Impell Corporation (318 pages)
25. 06/1984 Sequoyah Nuclear Plant - IDCOR Task 23.1 - Integrated Containment Analysis by William Mims (134 pages)
26. Undated IDCOR - Technical Report 23.1 - Sequoyah Nuclear Plant Integrated Containment Analysis (776 pages)
- \*\* 27. 09/1984 IDCOR - Technical Report 9.1R - Preventive Methods to Arrest Sequences of Events Prior to Core Damage, Revision 1 (334 pages) Acc. No. 8412110226
28. 09/1984 IDCOR Task 24.4 - Operator Response to Severe Accidents Final Report (935 pages)
- \*\* 29. 11/1984 IDCOR - Technical Report IDCOR Task 21.1 - Risk Reduction Potential Acc. No. 8412110205 (291 pages)
30. 12/1984 Sequoyah Nuclear Plant - Integrated Containment Analysis Final Report (118 pages)

31. 10/31/84 - Note to Mel Silberberg from Chris Ryder, enclosing Update on Lanthanum Problem. (37 pages)
32. Undated - Tables - Aerosol Composition and Total Release for Peach Bottom, AE (3 pages)
33. 11/2 - Vanesa Results for Limerick TQIV - Corcon Modi Driver (13 pages)
34. 12/14/84 - APS Request (4 pages)
35. 3/13/84 - Varied typed pages re: Corcon (6 pages)
36. 12/82 - Quick Look Report - Severe Fuel Damage Test Series Severe Fuel Damage Scoping Test (116 pages)
37. 10/83 - Quick Look Report - Severe Fuel Damage Test 1-1 (133 pages)
38. Undated - LWR Aerosol Containment Experiments (LACE) Report (7 pages)
39. 8/83 - Interim Report on Accident Sequence Likelihood Reassessment (Accident Sequence Evaluation Program)
40. Undated - Accident Sequence Likelihood Information for NUREG-C956 (24 pages)
41. 10/4/84 - Letter to Dr. S. Goren from Christopher Ryder transmitting a summary report entitled, "Results and Code Predictions for ABCOVE Aerosol Code Validation - Test AB5." (51 pages)
42. 2/85 - NUREG-0956 Appendix on Accident Sequence Likelihood Information (30 pages)
43. 9/84 - Aerosol Behavior in a Steam-Air Environment (13 pages)
44. Undated - Physical and Chemical Factors Influencing Fission Product Retention in Reactor Primary Systems (11 pages)
45. 9/84 - LWR Aerosol Containment Experiments (LACE) Program and Initial Test Results (12 pages) - PEDL-SA 3055
46. 9/84 - The ABCOVE Program Preliminary Results of Tests AB5 and AB6 (17 pages) - HEDL SA-3115FP
47. 6/79 - Nuclear Aerosols in Reactor Safety Report (266 pages)

\*\*Previously placed in the PDR.

APPENDIX D

Transcripts

1. 01/11/84 Peer Review - BCL Report on the Radionuclide Release Under Specific BWR Accident Conditions (38 pages)
2. 05/24/83 Peer Review Meeting - BMI-2104 Report (Draft) Radionuclide Release Under LWR Specific Accident Conditions, Volume II (944 pages)
- \*\*3. 07/28/83 Peer Review - BCL Report on Radionuclide Release Under Specific BWR Accident Conditions Acc. No. 8309060590 (1102 pages)
4. 10/12/83 Peer Review of the BCL Report on Radionuclide Release Under Specific LWR Accident Conditions - Volume IV, V and VI (705 pages)
5. 01/26/84 BMI-2104 Report (Draft) Radionuclide Release Under LWR Specific Accident Conditions (1054 pages)

\*\*Previously placed in the PDR.

APPENDIX E

Correspondence

1. Undated Telex to Mel Silberberg Re: Source Term Reports Peer Review (2 pages)
2. Undated To M. Silberberg from Petrangeli Re: NUREG-0956 Draft (5 pages)
3. 01/28/83 Letter to Melvin Silberberg from Herbert Kouts Re: Comments on Draft NUREG-0956 w/attachment Draft (4 pages)
4. 01/31/83 Letter to M. Silberberg from A. Welford Castleman Re: Peer Review Meeting on NUREG-0956 w/enclosure Peer Review Meeting Paper (5 pages)
5. 02/02/83 Letter to Dr. Mel Silberberg from R. L. Ritzman Re: Peer Review Draft Report w/enclosure Comments on Peer Review of NUREG-0956 (10 pages)
6. 02/02/83 Letter to M. Silberberg from E. A. Warman Re: Peer Review Comments on NUREG-0956 Vol. I w/attachment Comments (8 pages)
7. 02/03/83 Letter to M. Silberberg from Gordon Thompson Re: Peer Review Meeting (2 pages)
8. 02/03/83 Letter to Melvin Silberberg from S. J. Niemczyk Re: Source Term Estimation Methods (2 pages)
9. 02/03/83 Letter to M. Silberberg from Theodore Ginsberg Re: Source Term Peer Review Meeting (2 pages)
10. 02/03/83 Letter to Mel Silberberg from D. O. Campbell Re: NUREG-0956 (5 pages)
11. 02/04/83 Letter to M. Silberberg from Carl Johnson Re: Peer Group (3 pages)
12. 02/04/83 Telecopier Transmittal Request to M. Silberberg from R. Hobbins Re: Review Comments on NUREG-0956 (4 pages)

13. 02/06/83 Letter to M. Silberberg from D. W. Cooper Re: Radionuclide Release Under Specific Accident Conditions (3 pages)
14. 02/08/83 Letter to M. W. Jankowski from Salomon Levy Re: Comments on Draft NUREG-0956 (6 pages)
15. 02/10/83 Letter to M. W. Jankowski from J. L. Kelly Re: Comments on NUREG-0956 w/enclosure Comments on Review of NUREG-0956 (4 pages)
16. 02/11/83 Letter to M. W. Jankowski from W. D. Harrington Re: Boston Edison Comment and Position of Draft NUREG-0956, Volume 1 (2 pages)
17. 02/15/83 Letter to Mel Silberberg from Charles Pelletier Re: Peer Review of NUREG-0956 (2 pages)
18. 02/22/83 Letter to M. Silberberg from B. R. Sehgal Re: Review of Draft NUREG-0956, "Radionuclide Release Under LWR Specific Accident Conditions" (4 pages)
19. 03/16/83 Letter to M. W. Jankowski from E. P. Rahe Re: NUREG-0956 w/enclosure NUREG-0956 Comments (7 pages)
20. 04/1983 On the Propagation of Error in Air Pollution Measurements, by John Evans, Douglas Cooper and Patrick Kinney (28 pages)
21. 05/20/83 Letter to M. W. Jankowski from Salomon Levy Re: Peer Review Committee Meeting (3 pages)
22. 05/22/83 Letter to M. Silberberg from D. W. Cooper Re: Review of the Transcript of the Meetings 25-26 January 1983 on Radionuclide Release Under Specific Accident Conditions (2 pages)
23. 05/31/83 Letter to Melvin Silberberg from W. E. Kastenbergh Re: Peer Review Meeting (3 pages)
24. 05/31/83 Note to I. B. Wall from R. L. Ritzman Re: March 2.0 Comments w/enclosure Comments on the March 2.0 Computer Code and Draft User's Manual (4 pages)
25. 06/01/83 Letter to Michael Jankowski from Doug Cooper Re: Review Group Session (2 pages)
26. 06/06/83 Memo to R. Bernero and M. Silberberg from A. B. Reynolds Re: Comments on Source Term Review Second Meeting w/enclosure Comments on Meeting (5 pages)

27. 06/06/83 Letter to Mr. Jankowski from C. D. Thomas Re: Peer Review Group w/attachment Some Comments on Reported Tellurium Measurements at TMI-II (3 pages)
28. 06/10/83 Letter to Melvin Silberberg from Bal Raj Sengal Re: Comments on Draft BMI-2104 "Radionuclide Release Under LWR Specific Accident Conditions (4 pages)
29. 08/01/83 Letter to Michael Jankowski from Salomon Levy Re: Comments about BMI-2014 Draft (5 pages)
30. 08/04/83 Letter to Michael Jankowski from Douglas Cooper Re: Source Term Estimation Meeting (4 pages)
31. 08/08/83 Letter to Melvin Silberberg from W. E. Kastenberg Re: Per Review Meeting (4 pages)
32. 08/15/83 Letter to Mel Silberberg from Donald Rowe Re: Peer Review Meeting w/enclosure Draft Report: Description and State of Verification of the ORIGEN2 Code (11 pages)
33. 08/22/83 Letter to M. W. Jankowski from S. J. Niemczyk Re: BMI-2104 Review Meeting (2 pages)
34. 09/05/83 Memo to Mel Silberberg from Herb Isbin Re: NRC Source Terms (2 pages)
35. 10/17/83 Letter to M. N. Jankowski from Salomon Levy Re: Source Term Peer Review Meeting of October 12 and 18, 1983 (3 pages)
36. 10/21/83 Letter to M. Silberberg from Sudarshan Loyalka Re: Peer Review Process (5 pages)
37. 10/24/83 Letter to Mel Silberberg from W. E. Kastenberg Re: Peer Review Meeting (3 pages)
38. 10/27/83 Memo to Accident Source Term Program Office from L. R. Zumwalt Re: Post Meeting of Oct. 12-13 Comments and Suggestions Regarding BMI-2104 (4 pages)
39. 11/01/83 Letter to Melvin Silberberg from Richard Vogel Re: Draft Report BMI-2104 (2 pages)
40. 12/09/83 Letter to Michael Jankowski from A. B. Reynolds Re: Source Term Review Committee w/enclosure Comments on the October Source Term Review Meeting and on Chapter V (8 pages)



41. 02/02/84 Letter to M. Jankowski from F. Abbey Re: BMI-2104 Peer Review Meeting, January, 1984 (2 pages)
42. 02/02/84 Letter to W. M. Jankowski from J. L. Kelly Re: Peer Review Meeting w/enclosure Temperature Dependence of Fission Product Release Rates (12 pages)
43. 02/02/84 Letter to M. W. Jankowski from David Wren Re: BMI-2104 Meeting w/enclosure Peer Review Report (6 pages)
44. 02/06/84 Letter to M. W. Jankowski from R. K. Hilliard Re: Comments on BMI-2104, Volumes I Through VI, Radionuclide Release Under Specific LWR Accident Conditions w/enclosure Comments on BMI-2104 Draft (4 pages)
45. 02/10/84 Letter to Mel Silberberg from A. Welford Re: Reactor Safety Research (4 pages)
46. 02/17/84 Letter to Michael Jankowski from S. J. Neimczyk Re: BMI-2104 Peer Review Meeting (3 pages)
47. 02/20/84 Letter to Mel Silberberg from W. E. Kastenberg Re: Peer Review Meeting (2 pages)
48. 02/21/84 Letter to Mel Silberberg from D. Rowe Re: Comments Relative to Peer Review Meeting January 26-27, 1984 w/enclosure Comments by D. S. Rowe (7 pages)
49. 02/21/84 Letter to Mel Silberberg from D. S. Rowe Re: Comments Relative to NRC/IDCOR Meeting w/enclosure Comments (7 pages)
50. 02/21/84 Letter to Melvin Silberberg from W. E. Kastenberg Re: NRC/IDCOR Meeting on Fission Product Release and Transport (2 pages)
51. 02/21/84 Letter to Melvin Silberberg from S. J. Niemczyk Re: Peer Review Meeting (2 pages)
52. 02/22/84 Letter to Melvin Silberberg from R. C. Vogel Re: Comments on Draft Sections of Report BMI-2104 (3 pages)
53. 02/28/84 Letter to Michael Jankowski from A. B. Reynolds Re: Peer Review Committee Meeting w/enclosure Comments on January and February Meetings on Source Term (5 pages)
54. 04/30/84 Letter to Michael Jankowski from A. B. Reynolds Re: QUEST Study of the Surry TMLB Scenario w/enclosure Preliminary Comments on the QUEST Study (6 pages)

# ENVIRONMENTAL POLICY INSTITUTE

FREEDOM OF INFORMATION  
ACT REQUEST

FOIA-85-110

Rec'd 2-19-85

Nuclear Regulatory Commission  
Director, Division of Rules and Records  
Office of Administration  
Washington, D.C. 20555

January 29, 1985

Dear Director:

Pursuant to the Freedom of Information Act (5 U.S.C. section 552), this letter requests copies of documents relating to the current American Physical Society (APS) source term review, including but not limited to:

- a. Any correspondence to or from Professor Richard Wilson, or any other member of the APS review team;
- b. Any correspondence to or from the NRC Commissioners, NRC Staff, or NRC contractors, especially Battelle Labs;
- c. Any draft statements or reports which have been provided to NRC, and;
- d. Any internal NRC correspondence or statements concerning the APS review.

As used above, the term "documents" is employed in its broadest sense and covers any writing or other tangible item, including but not limited to, all writings or notes of any kind, and also including any mechanical, magnetic or other data compilations from which information relevant to this request can be obtained.

If any part of this request is denied, please list the specific exemptions which are claimed for withholding information along with an identification of the documents being withheld. FOIA also provides that if only portions of a file are exempted from release, the remainder must be released. We therefore request that we be provided with all non-exempt portions which

are reasonably segregable. We, of course, reserve the right to appeal the withholding or deletion of any information.

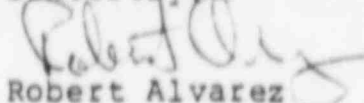
In accordance with 5 U.S.C. Section 554(a)(4), the Environmental Policy Institute requests that any fee for costs incurred in the collection or duplication of this material be waived. EPI is a not-for-profit corporation which is exempt from federal income taxation pursuant to Section 501(c)(3) of the Internal Revenue Code. EPI has been formally recognized as a bona fide public interest group and granted waiver of fees for FOIA requests by the U.S. Department Of Energy (Case No. HFA-0116, 1983).

Since 1974, EPI has worked with local citizens and citizen organizations from around the country advising them on energy development proposals and other actions that might effect the quality of their environments. In addition, EPI assists citizens in the exercise of their rights to obtain information and to participate in the decision-making process on various actions as provided for under state and federal laws. Any information obtained by EPI pursuant to this request will be provided and explained to interested citizens free of charge. EPI's long experience and commitment to the issues addressed in this request, together with its full-time professional, interdisciplinary staff of over twenty (20) individuals will help to insure that the information obtained is adequately disseminated and explained.

Thank you for your cooperation. As provided in the FOIA, we will expect a reply to this request within ten (10) working days. If we do not receive a response within that time, we will treat our request as denied and pursue the necessary appeal.

We will be pleased to work with you and your staff to explain or reformulate this request as necessary to facilitate your efforts to comply with its terms.

Sincerely,



Robert Alvarez  
Director, Nuclear Power &  
Weapons Project  
Environmental Policy Institute  
218 D Street SE  
Washington, D.C. 20003

cc: Suellen Keiner  
Director of Litigation, EPI