



PDR-016

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

December 17, 1982

Ms. Lynn Connor
DOC-Search Associates
P.O. Box 57
Cabin John, MD 20818

IN RESPONSE REFER
TO FOIA-82-435

Dear Ms. Connor:

This is in further response to your letter dated September 13, 1982, requesting documents pertaining to RAMONA-3 and RAMONA-3B computer codes.

The enclosed Appendix is a list of letters and memoranda covering FY 1980 through FY 1982 pertaining to RAMONA-3 and RAMONA-3B.

Should you wish to review any of the documents on the list, please contact Ms. Nina Toms of my staff, at (301) 492-8133.

This completes NRC's action on your request.

Sincerely,

A handwritten signature in dark ink, appearing to read "J. M. Felton", is written over the typed name and title.

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

Enclosure: As stated

RAMONA-3/3B DOCUMENTS

FOR

CY 1980 - 1982

FY 1980

1. Handout, BNL Program Review, October 17, 1979, 9 pages, RAMONA-III-BWR Transient Analysis.
2. Report: "Fuel Cladding Model for Ramona-3B," by Scandpower, Inc. for BNL, October 30, 1979, 21 pages.
3. Memo, E. Elias, BNL to D. J. Diamond, BNL, October 31, 1979, 20 pages, improved fuel rod heat conduction model for Ramona-3.
4. Memo, S. V. Lekach to Distribution, November 1, 1979, 5 pages, recirculation pump for Ramona-3.
5. Memo, F. Odar, NRR to L. E. Phillips, NRR, November 19, 1979, 4 pages, BNL trip report.
6. Memo, C. Ruger, BNL to D. J. Diamond, BNL, January 14, 1980, 2 pages, local pressure dependence in Ramona-3.
7. Memo, S. V. Lekach, BNL to Distribution, January 23, 1980, 11 pages, plant protection system in Ramona-3.
8. Memo, J. Colman, BNL to Ramona-3 users, February 25, 1980, 6 pages, new version of Ramona-3 files.
9. Letter, D. J. Diamond, BNL to F. Odar and N. Zuber, NRC, March 7, 1980, 7 pages, program-status.
10. Memo, M. Levine, BNL to Files, March 11, 1980, 4 pages, $\dot{P}$ terms in Ramona.
11. Memo, M. Levine, BNL to Files, March 14, 1980, 2 pages, correction for $\dot{P}$ terms in Ramona.
12. Memo, M. Levine, BNL to Files, March 24, 1980, 2 pages, P-Dot contribution to vapor generation.
13. Memo, M. Levine and M. S. Lu, BNL to Files, March 27, 1980, 3 pages, specific heat and heat transfer in Ramona-3.
14. Letter, D. J. Diamond, BNL to F. Odar and N. Zuber, NRC, March 31, 1980, 2 pages and 2 enclosures, Ramona schedules, tasks, and models.

15. Memo, W. Wulff, BNL to Files, March 31, 1980,
4 pages, pressure induced transients in BWR systems.
16. Memo, W. Wulff, BNL to Files, April 10, 1980,
4 pages and enclosure, Ramona models for slip ratio and vapor
generation rate.
17. Report: "Steam Line Dynamics," by W. Wulff, BNL, NUREG/CR-1430,
April 1980.
18. Proposal, Scandpower to BNL, April 1, 1980,
3 pages, improved cross-section representation in Ramona-3.
19. Proposal, Scandpower to BNL, April 15, 1980,
6 pages, dynamic calculation of core upper plenum pressure in
Ramona-3.
20. Letter, L. Moberg, Scandpower to D. J. Diamond, BNL, April 23, 1980,
3 pages, clarification of proposals.
21. Memo, J. Colman, BNL to Files, April 25, 1980,
7 pages, Ramona-3 storage requirements.
22. Memo, J. Colman, BNL to Files, April 29, 1980,
1 page, Ramona-3 reference listings.
23. Memo, J. Colman, BNL to Files, April 29, 1980,
2 pages, Ramona-3 plots using PAD.
24. Memo, M. J. Lu, J. Colman and D. Garber, BNL to Files, April 29, 1980,
9 pages, heated channel experiment analysis with Ramona.
25. Memo, M. Todosow, BNL to D. J. Diamond, BNL, May 2, 1980,
14 pages plus tables and figures, DWARF model for PWR power
distribution.
26. Memo, H. S. Cheng, BNL to D. J. Diamond, BNL, May 12, 1980,
3 pages plus figures, importance of non-uniform heat generation.
27. Memo, S. Lekach, BNL to Distribution, May 13, 1980,
2 pages, recommendation for additional plant protection system.
28. Letter, D. J. Diamond, BNL to F. Odar and N. Zuber, NRC, May 14, 1980,
4 pages, program status.
29. Letter, D. J. Diamond, BNL to N. Zuber, NRC, June 3, 1980,
4 pages plus two attachments, Ramona-3 capabilities and modifications.
30. Letter, N. Zuber, NRC to M. Levine, BNL, June 10, 1980,
2 pages, BNL-NRC agreements.

31. Memo, P. Check, NRR to L. S. Tong, RSR, June 25, 1980, 1 page, Ramona code development at BNL.
32. Letter, N. Zuber, NRC to M. Levine, BNL, July 2, 1980, 2 pages, request for information and instructions.
33. Letter, D. J. Diamond, BNL to R. Audette, NRC, July 17, 1980, 1 page, transmittal of reports.
34. Memo, N. Zuber, NRC to Distribution, July 18, 1980, 3 pages, Ramona-3 information and review meeting agenda.
35. Memo, N. Zuber, NRC to S. Fabric, NRC, July 28, 1980, 3 pages, plus attachments, Ramona-3 information and review meeting minutes.
36. Letter, D. J. Diamond, BNL to N. Zuber, NRC, July 31, 1980, 2 pages plus attachments, Ramona-3 capabilities.
37. Letter, D. J. Diamond, BNL to N. Zuber, NRC, August 6, 1980, 1 page plus attachments, plant protection and control system in Ramona.
38. Report: "Improved Cross-section Representation in Ramona-3," Scandpower for BNL, August 1, 1980.
39. Letter, D. J. Diamond, BNL to N. Zuber, NRC, September 29, 1980, 2 pages, information on documentation.

FY 1981

1. Memo, D. Garber, C. Ruger and S. Lekach, BNL to D. J. Diamond, October 6, 1980, 12 pages, status of SBLOCA capability in Ramona-3.
2. Handout, D. J. Diamond, et al., November 6, 1980, 18 pages, Ramona-3 modification and assessment-status.
3. Telex, D. J. Diamond, BNL to N. Zuber, NRC, December 15, 1980, 2 pages, proposed outline of Ramona-3 report.
4. Letter, D. J. Diamond, BNL to N. Zuber, NRC, January 7, 1981, 2 pages, program schedule.
5. Memo, P. Neogy, BNL to D. J. Diamond and J. F. Carew, BNL, March 16, 1981, 2 pages, reduction of shutdown margins in BWR's.
6. Letter, D. J. Diamond, BNL to D. Fieno, NRC, February 19, 1981, 2 pages, stuck-rod worth calculations using Ramona-3.
7. Letter, D. J. Diamond, BNL to N. Zuber, NRC, March 19, 1981, 3 pages, BWR-ATWS calculations using Ramona-3B.
8. Letter, N. Zuber, NRC to D. J. Diamond, BNL, 6 pages plus attachments, comments on the draft of the Ramona-3B report.
9. Handout, D. J. Diamond, et al., 18 pages, FY 1981 mid-year review.
10. Handout, D. J. Diamond, et al., April 8, 1981, 14 pages, presentation to ACRS on Ramona-3B use for ATWS.
11. Letter, D. Yue, ORNL to D. J. Diamond, BNL, April 21, 1981, 1 page, request for information.
12. Memo, C. Ruger, BNL to Distribution, May 11, 1980, 9 pages, HPCI and RCIC in Ramona-3B.
13. Letter, D. J. Diamond, BNL to D. Yue, ORNL, May 12, 1981, 2 pages, information on Ramona-3B.
14. Memo, H. Connell, BNL to Distribution, June 1, 1981, 2 pages, steady-state and transient restart.
15. Memo, S. Lekach, BNL to Distribution, May 26, 1981, 10 pages, MSIV and SRV representation in Ramona-3B.

16. Memo, W. Wulff, BNL to Ramona Staff, June 9, 1981,
6 pages, thermal non-equilibrium computation in Ramona-3B.
17. Memo, D. Garber, BNL to Distribution, June 26, 1981,
16 pages, boron transport and reactivity in Ramona-3B.
18. Letter, N. Zuber, NRC to R. Cerbone, BNL,
3 pages plus attachments, schedules and status.
19. Memo, P. Saha, BNL to Distribution, September 13, 1981,
2 pages, Ramona-3B modification and evaluation.
20. Letter, D. J. Diamond, BNL to N. Zuber, NRC, June 21, 1981,
2 pages, release of Ramona-3B.
21. Memo, S. Fabric, NRC to E. Shomaker, NRC,
2 pages plus attachments, transmittal of briefing material.

FY 1982

1. Memo, N. Zuber, NRC to Distribution, October 13, 1982,
1 page, announcement of Ramona-3B review meeting.
2. Handouts: "Overview of RAMONA-3B," by P. Saha, BNL, November 1, 1982,
31 pages.
3. Letter, R. Cerbone, BNL to N. Zuber, NRC, March 11, 1982,
2 pages, transmitting draft.
4. Memo, L. Shotkin, NRC to N. Zuber, NRC, March 30, 1982,
2 pages, comments on draft.
5. Handouts: P. Saha, et al., "Ramona-3B Code Improvement-Status,"
April 19, 1982,
36 pages.
6. Letter, E. P. Rahe, Westinghouse Corp., to O. E. Bassett, NRC,
February 22, 1982,
1 page, request for Ramona-3B release.
7. Letter, N. Zuber, NRC to R. Cerbone, BNL, March 12, 1982,
1 page, request for information on communications between BNL and
Scandpower.
8. Letter, R. Cerbone, BNL to N. Zuber, NRC, March 25, 1982,
2 pages plus attachments, communications between BNL and Scandpower, Inc.
9. Memo, O. E. Bassett, NRC to E. C. Shomaker, NRC, March 24, 1982,
2 pages plus attachments, guidelines for renegotiating Ramona-3B
leasing agreement.
10. Letter, W. Kato BNL to R. Smith, Scandpower, Inc., May 4, 1982,
1 page, release of Ramona-3B.
11. Letter, O. E. Bassett, NRC to E. P. Rahe, Westinghouse, Inc.,
May 19, 1982,
2 pages plus attachments, response to Westinghouse's request for
Ramona-3B release.
12. Letter, T. Bohler, Scandpower, to W. Kato, BNL, May 18, 1982,
2 pages, conditions for releasing Ramona-3B.
13. Letter, R. Cerbone, BNL to L. Shotkin, NRC, May 19, 1982,
2 pages, Ramona-3B funding.
14. Handouts: P. Saha, BNL, "Overview of Ramona-3B, June 14, 1982,
10 pages.

15. Letter, W. Kato, BNL to O. E. Bassett, NRC, July 2, 1982,
2 pages plus attachments, negotiation with Scandpower concerning
Ramona-3B release.
16. Letter, O. E. Bassett, NRC to W. Kato, BNL, August 12, 1982,
2 pages, response to Scandpower's propositions.
17. Technical paper: "Calculation of a BWR Partial ATWS Using
Ramona-3B," by D. I. Garber, et al.,
International Meeting on Thermal Nuclear Safety, Chicago, IL.,
August 29 - September 2, 1982.
18. Letter, W. Kato, BNL to O. E. Bassett, NRC, September 9, 1982,
1 page plus attachment, transmitting Scandpower's letter dated
September 1, 1982.

Doc-Search Associates

NRC INFORMATION SERVICE
P.O. BOX 57
CABIN JOHN, MD. 20818
September 13, 1982

Director
Division of Rules and Records
USNRC
Washington, DC

FREEDOM OF INFORMATION
ACT REQUEST

FOIA-82-435
Rec'd 9-20-82

FREEDOM OF INFORMATION ACT REQUEST

Dear Sir:

This is a Freedom of Information Act Request for information pertaining to RAMONA-III and RAMONA 3B computer codes. Please place in the Public Document Room correspondence, reports, User Manuals, meeting minutes and evaluations prepared by the NRC or Brookhaven National Laboratory concerning the RAMONA-III and the ROMONA 3B computer codes.

Thank you.

Sincerely,

Lynn Connor
Lynn Connor

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PDR