

LIST OF NSAD PUBLICATIONS

INTERNATIONAL JOURNALS

1. Vivek A. Kale, K. Obaidurrahman, Avinash J. Gaikwad, "Integrated Modeling of Postulated Rod Drop Incident in A PHWR", Journal of Life Cycle Reliability and Safety Engineering DOI 10.1007/s41872-017-0012-x 2017.
2. Balbir Kumar Singh, Ritu J. Singh, Ramesh Kumar, P. K. Baburajan, R. S. Rao, Avinash J. Gaikwad, "Coupled Thermo-Structural Analysis for In-vessel Retention in PHWR using ABAQUS", Nuclear Engineering and Design, May 2017.
3. Sanjeev Kumar, Obaidurrahman K., Om Pal Singh, Prabhat Munshi, "A Space Time Dependent Study of Control Rods Withdrawal in a Large Size PWR", Journal of Nuclear Engineering and Radiation Science, ASME Vol. 3 / 011015-1, January 2017.
4. Vivek Kale, Rakesh Kumar, Obaidurrahman K., Avinash J. Gaikwad, "Linear Stability Analysis of A Nuclear Reactor Using The Lumped Model", Nuclear Technology & Radiation Protection, Vol. 31, No. 3, pp. 218-227, 2016.
5. Santosh K. Pradhan, Obaidurrahman K., Kannan N. Iyer, Avinash J. Gaikwad, "Development, Validation and Application of Multi-Point Kinetics Model in RELAP5 for Analysis of Asymmetric Nuclear Transients", Nuclear Engineering and Design, 300, pp. 506-516, 2016.
6. Subrata Bera, A. J. Gaikwad, "Impact of Linguistic Proposition of Weather Stability in Gaussian Plume Model", SRESA's International Journal of Life Cycle Reliability and Safety Engineering, Vol. 5, No. 3. Pp. 30-40, 2016.
7. Rakesh Kumar, Obaidurrahman K., J.B. Doshi, Avinash J. Gaikwad, "Solution of PHWR 3D Kinetics Benchmark using TRIKIN Code", Progress in Nuclear Energy, 85, pp. 200-212, 2015.
8. Obaidurrahman K. Avinash J Gaikwad, "Towards an Efficient Multiphysics Model for Nuclear Reactor Dynamics", Journal of Nuclear Technology and Radiation Protection, 30(3), pp. 165-174, 2015.
9. R. Srinivasa Rao, Kannan N. Iyer, S.K. Gupta, Avinash J. Gaikwad, "Implementation And Validation Of The Condensation Model for Containment Hydrogen Distribution Studies", Nuclear Engineering and Design 270, pp. 34-47, 2014.

10. R. Srinivasa Rao, Kannan N. Iyer, S.K. Gupta, Avinash J. Gaikwad, "CFD Code Benchmark Against The Air/Helium Tests Performed in The Mistra Facility", *Annals of Nuclear Energy*, 69, pp. 37-43, 2014.
11. Prashant Sharma, et al. "Dynamic Modeling of Steam Water System of Prototype Fast Breeder Reactor using RELAP5 code", *Annals of Nuclear Energy*, Volume 68, June 2014.
12. Subrata Bera, A. J. Gaikwad, A. Vaidya, U. Sati, D. Datta, "Uncertainty Analysis on Neutron Diffusion Using Fuzzy Alpha-Cut Approach", *International Journal of Computer Science and Applications*, vol. 11, No. 2, p105-113, 2014.
13. Mohd. Kaleem Khan, Manabendra Pathak, Siddharth Suman, Anuj K. Deo, Ritu Singh, "Burst Investigation on Zircaloy-4 Claddings in Inert Environment", *Annals of Nuclear Energy* 69 (2014) 292–300.
14. Ramesh Kumar, P.A Jadhav, Suneel K. Gupta, Avinash J. Gaikwad, "Evaluation of Thermal Stratification Induced Stress in Pipe and its Impact on Fatigue Design", *Procedia Engineering* 86 (2014) 342-349.
15. Mohd. Kaleem Khan, Manabendra Pathak, Anuj K. Deo, Ritu Singh, "Burst Criterion for Zircaloy-4 Fuel Cladding in an Inert Environment", *Nuclear Engineering and Design* 265 (2013) 886– 894.
16. Obaidurrahman K., S. K. Gupta, "Reactor Core Heterogeneity Effects on Radionuclide Inventory", *Annals of Nuclear Energy*, 53, 244–253, 2013.
17. Pradhan S.K., Prem P., Gupta S.K., "Methodology for Estimation of Conditional Probability of Stagnation Channel Break for PHWRs", *Annals of Nuclear Energy*, 43, (2012) 49–55.
18. R. Srinivasa Rao, Abhay Kumar, S.K. Gupta, H.G. Lele, "Uncertainty and Sensitivity Analysis of TMI-2 Accident Scenario using Sampling Based Techniques", *Journal of Nuclear Engineering and Technology*, October 2012.
19. Jain R.P., Obaidurrahman K. "Validation of 3D kinetics code 'TRIKIN' using OECD PWR core transient benchmark", *Int. J. Nuclear Energy Science and Technology*, Vol. 7, No. 2, pp. 131–142. 2012.
20. Pranav Paliwal, U. Parathasarathy, "Characterization of Cellular Convection of Argon in Top Shield Penetrations of Pool Type Liquid Metal Fast Reactors", *International Journal of Nuclear Engineering and Design*, 2012.
21. Singh O.P. and Obaidurrahman K., "Investigations on Neutronic Decoupling Phenomenon in Large Nuclear Reactors", *Elsevier's Energy Procedia*, 7, Pages 384-390, 2011.
22. Tanweer Alam, Mohd. Kaleem Khan, Manabendra Pathak, K. Ravi, Ritu Singh, S.K. Gupta, "A Review on The Clad Failure Studies", *Nuclear Engineering and Design*, Volume 241, Issue 9, September 2011, Pages 3658-3677, ISSN 0029-5493.

23. Obaidurrahman K., Doshi J.B., "Spatial instability Analysis in Pressurized Water Reactors", *Annals of Nuclear Energy*, 38, 286–294. 2011.
24. Mahendra Prasad, R. Srinivasa Rao, S. K. Gupta, "Assessment Methodology for Confidence in Safety Margin for Large Break Loss of Coolant Accident Sequences", *Annals of Nuclear Energy*, 2011.
25. S. K. Dubey, R. Srinivasa Rao, S. Sengupta, S. K. Gupta, "Sampling Based Uncertainty Analysis of Station Blackout in PSB VVER Integral Test Facility", *Journal of Annals of Nuclear Energy*, 2011.
26. S.K. Dubey, R. S. Rao, S. Sengupta, S.K. Gupta, "Sampling Based Uncertainty Analysis of Station Blackout in PSB VVER Integral Test Facility", *Annals of Nuclear Energy*, 38, 2011, pp. 2724–2733, September 24, 2011.
27. Ritu J. Singh, K. Ravi, S.K. Gupta, "Methodology for Developing Channel Disassembly Criteria under Severe Accident Conditions for PHWRs", *Annals of Nuclear Energy*, Volume 38, Issue 9, September 2011, Pages 1884-1890, ISSN 0306-4549.
28. Obaidurrahman, K., Singh, O.P., "Spatial Neutronic Coupling Aspects In Nuclear Reactors", *Nuclear Engineering and Design*, 240, 2755–2760, 2010.
29. S. Sengupta, S.K. Dubey, R. S. Rao, S.K. Gupta, V.K. Raina, "Sampling Based Uncertainty Analysis of 10% Hot Leg Break LOCA in LSTF", *International Journal, Nuclear Engineering and Technology*, Vol. 42, No. 6, pp. 690-703, 2010.
30. Obaidurrahman K., Doshi J. B., Jain R. P., Jagannathan V., "Development and validation of coupled dynamics code 'TRIKIN' for VVER reactors", *Nuclear Engineering and Technology*, 42(3), 259–270.2010.
31. S. Sengupta, S. K. Dubey, R. Srinivasa Rao, S. K. Gupta, V. K. Raina, "Sampling Based Uncertainty Analysis of 10% Hot Leg Break LOCA in LSTF", *Annals of Nuclear Energy*, 2010.
32. Obaidurrahman K., Singh O. P., "A Comparative Kinetics Study of Nuclear Reactors", *Journal of Nuclear Technology and Radiation Protection*, 24(3), 167-176, 2009.
33. Durga Prasad G.V., Pandey M., Pradhan S.K., Gupta S.K., "Study of Flow Instabilities in Double-Channel Natural Circulation Boiling Systems", *Nuclear Engineering and Design* 238 (2008) 1750–1761.

INTERNATIONAL CONFERENCES

1. S.K. Dubey, R.P. Vedula, Kannan N. Iyer, Avinash J. Gaikwad, "Development of Correlation for Heat Transfer Enhancement and Deterioration for Supercritical Fluid Using Freon 22 Experimental Results", IAEA Technical meeting on Heat Transfer, Thermal-Hydraulics and System Design for Supercritical Water Cooled Reactors, August 22-24, Sheffield, United Kingdom, 2016.
2. S.K. Dubey, K.N. Iyer, R.P. Vedula and A.J. Gaikwad, "Explanations of Mechanism of Heat Transfer Enhancement and Deterioration for Supercritical Fluid using Prediction of Experimental Results by CFD", The 3rd International Meeting of Specialists on "Heat Transfer and Fluid Dynamics at Supercritical Pressure (HFSCP2016)" August 25-26, Sheffield, United Kingdom, 2016.
3. Prashant Sharma, Santosh K. Pradhan, Avinash J. Gaikwad, "Evaluation of Effectiveness of Mitigatory Actions for SBO Initiated Severe Accident in PHWR", 23rd National and 1st International ISHMT-ASTFE Heat and Mass Transfer Conference, 17-20 December, 2015, Thiruvananthapuram, India.
4. S.P. Lakshmanan, S.K. Dubey, Pranav Paliwal, Avinash J. Gaikwad, "Analysis of ATWS with Quick Boron Injection System in VVER-1000", Proceedings of CANSAS-2015 (CANDU Safety Association for Sustainability) & NRTHS (New Horizons in Nuclear Reactor Thermal-Hydraulics and Safety), December 8-11, 2015, Mumbai, India.
5. U. K. Paul, P. Harika, S.K. Pradhan, P. K. Baburajan, Avinash Gaikwad, "Simulation of Stratification Behavior in Coolant Channels of RD-14M Test Facility", Proceedings of CANSAS-2015 (CANDU Safety Association for Sustainability) & NRTHS (New Horizons in Nuclear Reactor Thermal-Hydraulics and Safety), December 8-11, 2015, Mumbai, India.
6. Pranav Paliwal, S. K. Dubey, P. Sharma, A. J. Gaikwad, "Performance Evaluation of PDHR System Of Large Pressurised Heavy Water Reactor At Various Power Level", Proceedings of CANSAS-2015 (CANDU Safety Association for Sustainability) & NRTHS (New Horizons

in Nuclear Reactor Thermal-Hydraulics and Safety), December 8-11, 2015, Mumbai, India.

7. Prashant Sharma, et al., "Modelling of IAEA ICSP on HWR Moderator Subcooling Requirements To Demonstrate Backup Heat Sink Capabilities Of Moderator During Accidents Using RELAP5", Proceedings of CANSAS–2015 (CANDU Safety Association for Sustainability) & NRTHS (New Horizons in Nuclear Reactor Thermal-Hydraulics and Safety), December 8-11, 2015, Mumbai, India.
8. Santosh K. Pradhan, Prashant Sharma, Avinash J. Gaikwad, "Overcoming Modeling Issues for LOCA Initiated Severe Accident Analysis of Large PHWR", Proceedings of CANSAS–2015 (CANDU Safety Association for Sustainability) & NRTHS (New Horizons in Nuclear Reactor Thermal-Hydraulics and Safety), December 8-11, 2015, Mumbai, India.
9. Prashant Sharma, Santosh K. Pradhan, Avinash J. Gaikwad, "Mitigation of LOCA initiated Severe Accident in PHWR", Proceedings of CANSAS–2015 (CANDU Safety Association for Sustainability) & NRTHS (New Horizons in Nuclear Reactor Thermal-Hydraulics and Safety), December 8-11, 2015, Mumbai, India.
10. Prashant Sharma, et al., "Thermal Hydraulic Analysis of BWR Containment Venting System", Proceedings of CANSAS–2015 (CANDU Safety Association for Sustainability) & NRTHS (New Horizons in Nuclear Reactor Thermal-Hydraulics and Safety), December 8-11, 2015, Mumbai, India.
11. Pranav Paliwal, S. K. Dubey, P. Sharma and A. J. Gaikwad, "Performance Evaluation of PDHRS system of Large Pressurised Heavy Water Reactor at Various Power Level", Proceedings of CANSAS–2015 (CANDU Safety Association for Sustainability) & NRTHS (New Horizons in Nuclear Reactor Thermal-Hydraulics and Safety), December 8-11, 2015, Mumbai, India.
12. Ramesh Kumar, Balbir K. Singh, Ritu Singh, P. K. Baburajan, Avinash J. Gaikwad, "Reactor pressure vessel lower head structural behaviour during severe accident", Proceedings of CANSAS–2015 (CANDU Safety Association for Sustainability) & NRTHS (New Horizons in Nuclear Reactor Thermal-Hydraulics and Safety), December 8-11, 2015, Mumbai, India.

13. Ramesh Kumar, Balbir K. Singh, Ritu Singh, Mahendra Prasad, Avinash J. Gaikwad, "Structural reliability estimation of pressure tube using Canadian Standard (CAN/CSA N285.8)", Proceedings of CANSAS–2015 (CANDU Safety Association for Sustainability) & NRTHS (New Horizons in Nuclear Reactor Thermal-Hydraulics and Safety), December 8-11, 2015, Mumbai, India.
14. Ramesh Kumar, Balbir K. Singh, Ritu Singh, Avinash J. Gaikwad, "The Behaviour of Cold Rolled Joint between CT and CSTS during Severe Accident Condition", Proceedings of CANSAS–2015 (CANDU Safety Association for Sustainability) & NRTHS (New Horizons in Nuclear Reactor Thermal-Hydraulics and Safety), December 8-11, 2015, Mumbai, India.
15. Balbir K. Singh, Ramesh Kumar, Ritu Singh, P. K. Baburajan, Avinash J. Gaikwad, "Scaling and Heater Design for Experimental Investigations on Calandria-Vessel Retention Studies", Proceedings of CANSAS–2015 (CANDU Safety Association for Sustainability) & NRTHS (New Horizons in Nuclear Reactor Thermal-Hydraulics and Safety), December 8-11, 2015, Mumbai, India.
16. Balbir K. Singh, Ramesh Kumar, Ritu Singh, P. K. Baburajan, R. S Rao, Avinash J. Gaikwad, "Coupled Heat Transfer and Structural Analysis of Calandria Vessel with Debris for a large PHWR using FEM", Proceedings of CANSAS–2015 (CANDU Safety Association for Sustainability) & NRTHS (New Horizons in Nuclear Reactor Thermal-Hydraulics and Safety), December 8-11, 2015, Mumbai, India.
17. Balbir K. Singh, Ritu Singh, Ramesh Kumar, Avinash J. Gaikwad, "3D Simulation Of International Collaborative Standard Problem (ICSP) Exercise To Demonstrate Heat Sink Capabilities Of PHWR Moderator Using ABAQUS", Proceedings of CANSAS–2015 (CANDU Safety Association for Sustainability) & NRTHS (New Horizons in Nuclear Reactor Thermal-Hydraulics and Safety), December 8-11, 2015, Mumbai, India.
18. Obaidurrahman K., Avinash. J. Gaikwad, "Space-Time Kinetics Modelling of Indian NPPs", Paper C08, Proceedings of CANSAS–2015 (CANDU Safety Association for Sustainability) & NRTHS (New Horizons in Nuclear Reactor Thermal-Hydraulics and Safety), December 8-11, 2015, Mumbai, India.

19. Vivek A. Kale, S. Vamshi Krishna, Obaidurrahman K., Avinash. J. Gaikwad, "Effect of Core Axial Power Profile on Critical Heat Flux Ratio", Paper B13, Proceedings of CANSAS–2015 (CANDU Safety Association for Sustainability) & NRTHS (New Horizons in Nuclear Reactor Thermal-Hydraulics and Safety), December 8-11, 2015, Mumbai, India.
20. Santosh K. Pradhan, Dhanesh B. Nagrale, Avinash J. Gaikwad, "Role of In-House Safety Analysis And Research Activities In Regulatory Decision Making", Proceedings of CANSAS–2015 (CANDU Safety Association for Sustainability) & NRTHS (New Horizons in Nuclear Reactor Thermal-Hydraulics and Safety), December 8-11, 2015, Mumbai, India.
21. Anuj Kumar Deo, Dr. P.K. Baburajan, U.K. Paul, Dr. S.P. Lakshmanan, and A. J. Gaikwad, "Modelling of IAEA ICSP on HWR Moderator Subcooling Requirements Using COMSOL", Proceedings of CANSAS–2015 (CANDU Safety Association for Sustainability) & NRTHS (New Horizons in Nuclear Reactor Thermal-Hydraulics and Safety), December 8-11, 2015, Mumbai, India.
22. Anuj Kumar Deo, Subrata Bera, Dhanesh B. Nagrale, S.P. Lakshmanan, P.K. Baburajan, U.K. Paul and A. J. Gaikwad, "Post Fukushima Requirement of Containment Filtered Venting System in NPPs", Proceedings of CANSAS–2015 (CANDU Safety Association for Sustainability) & NRTHS (New Horizons in Nuclear Reactor Thermal-Hydraulics and Safety), December 8-11, 2015, Mumbai, India.
23. Anuj Kumar Deo, Subrata Bera, Dhanesh B. Nagrale, S.P. Lakshmanan, P.K. Baburajan, U.K. Paul and A. J. Gaikwad, "Application of YSZ in PHWRs for Enhancement of Inherent Safety during Severe Accidents", Proceedings of CANSAS–2015 (CANDU Safety Association for Sustainability) & NRTHS (New Horizons in Nuclear Reactor Thermal-Hydraulics and Safety), December 8-11, 2015, Mumbai, India.
24. Dhanesh B. Nagrale, Subrata Bera, Anuj Kumar Deo, U. K. Paul, M. Prasad and A. J. Gaikwad, "Interaction of Radionuclides in Severe Accident Conditions", Proceedings of CANSAS–2015 (CANDU Safety Association for Sustainability) & NRTHS (New Horizons in Nuclear Reactor Thermal-Hydraulics and Safety), December 8-11, 2015, Mumbai, India.
25. R. Srinivasa Rao, P. K. Baburajan, Anuj Kumar Deo, U. K. Paul and A. J. Gaikwad, "Assessment of Severe Accident Management Guidelines", Proceedings of CANSAS–

- 2015 (CANDU Safety Association for Sustainability) & NRTHS (New Horizons in Nuclear Reactor Thermal-Hydraulics and Safety), December 8-11, 2015, Mumbai, India.
26. P. K. Baburajan, Anuj Kumar Deo, U. K. Paul, R. Srinivasa Rao, Avinash Gaikwad, "Thermal Hydraulic Analysis of Calandria In-Vessel Retention Using Relap5", Proceedings of CANSAS-2015 (CANDU Safety Association for Sustainability) & NRTHS (New Horizons in Nuclear Reactor Thermal-Hydraulics and Safety), December 8-11, 2015, Mumbai, India.
27. Obaidurrahman K., Avinash. J. Gaikwad, "Investigations on Neutronic Coupling Aspects of Thorium Fueled AHWR", Thorium Energy Conference 2015 - ThEC15 October 19-22, 2015, Mumbai, India.
28. Rakesh Kumar, Vivek Kale, Obaidurrahman K., Avinash. J. Gaikwad, "Linear Stability Analysis of Thorium Fueled AHWR", Thorium Energy Conference 2015 - ThEC15 October 19-22, 2015, Mumbai, India.
29. Dhanesh B. Nagrale, Subrata Bera, Anuj Kumar Deo, U. K. Paul, M. Prasad and A. J. Gaikwad, "Iodine Chemistry and Associated Interactions Under Severe Accident Conditions", In Symposium on Water Chemistry and Corrosion in Nuclear Power Plants in Asia – 2015, September 2-4, 2015, Anupuram, India.
30. Anuj Kumar Deo, Subrata Bera and A. J. Gaikwad, "Burn Up and Flux Profile Dependent Temperature Distribution in Thoria Pellet", Thorium Energy Conference 2015(ThEC15), Mumbai, India, October 12-15, 2015.
31. Anuj Kumar Deo, S. P. Lakshmanan, Subrata Bera, P. K. Baburajan, R. S. Rao, U. K. Paul & A. J. Gaikwad, "Containment behavior during molten corium concrete interaction", Symposium on Water Chemistry and Corrosion in Nuclear Power Plants in Asia – 2015, Anupuram, India, September 2-4, 2015.
32. Subrata Bera, Anuj Kumar Deo, D. B. Nagrale, U. K. Paul, M. Prasad, A. J. Gaikwad, "Iodine Removal In Containment Filtered Venting System During Nuclear Accident", Symposium on Water Chemistry and Corrosion in Nuclear Power Plants in Asia – 2015, Anupuram, India, September 2-4, 2015.

33. Amitanshu Mishra, S.K. Pradhan, Obaidurrahman. K, A.J. Gaikwad, S.B. Chafle, "Simulation of Multiple Loop Channel Type Natural Circulation BWR for Cold Start-Up with Multi-Point Kinetic Model", Proceedings of the 41st National and 5th International Conference on Fluid Mechanics and Fluid Power (FMFP-2014), December 12-14, 2014, IIT Kanpur, India.
34. Pranav Paliwal, S.K. Dubey, A.J. Gaikwad, "Adequacy of Passive Decay Heat Removal Systems for a Nuclear Power Plant", Proceedings of the 41st National and 5th International Conference on Fluid Mechanics and Fluid Power (FMFP-2014), December 12-14, 2014, IIT Kanpur, India.
35. R. Srinivasa Rao, Kannan N. Iyer, Avinash J. Gaikwad, S. K. Gupta, "Comparison of Lumped Parameter and CFD Code Predictions: Condensation Phenomena", Proceedings of the 41st National and 5th International Conference on Fluid Mechanics and Fluid Power (FMFP-2014), December 12-14, 2014, IIT Kanpur, India.
36. Rupak Raman, R. Srinivasa Rao, Avinash J. Gaikwad, "Effect of Condensation on Distribution of Hydrogen and Steam in a Reactor Containment", Proceedings of the 41st National and 5th International Conference on Fluid Mechanics and Fluid Power (FMFP-2014), December 12-14, 2014, IIT Kanpur, India.
37. Dhanesh B. Nagrale, Subrata Bera, Anuj Kumar Deo, M. Prasad and A. J. Gaikwad, "Uncertainty Aspects of Fire Modeling Using CFD Approach for Fire In Typical Room of Nuclear Power Plants", Proceedings of the 41st National and 5th International Conference on Fluid Mechanics and Fluid Power (FMFP-2014), December 12-14, 2014, IIT Kanpur, India.
38. Subrata Bera, Surajit Mondal, Anuj Kumar Deo, Dhanesh B. Nagrale, and A. J. Gaikwad, "Uncertainty Analysis of Venturi Scrubber Using BEPU Methodology", Proceedings of the 41st National and 5th International Conference on Fluid Mechanics and Fluid Power (FMFP-2014), December 12-14, 2014, IIT Kanpur, India.
39. R. Srinivasa Rao, Kannan N Iyer, Aniket Gupta, Gurav Kumar, Avinash J. Gaikwad, S. K. Gupta, "Comparison of Lumped Parameter and CFD Code Predictions: Sump Evaporation

Phenomena”, Proceedings of the 41st National and 5th International Conference on Fluid Mechanics and Fluid Power (FMFP-2014), December 12-14, 2014, IIT Kanpur, India.

40. Dhanesh B. Nagrale, Subrata Bera, Anuj Kumar Deo, R. S. Rao, Avinash J. Gaikwad, “Review of Important Acceptance Criteria, Considerations and Significance for an Effective Decision Support System for Nuclear Emergency Management”, 16th International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes, 8-11 September 2014, Varna, Bulgaria.
41. Subrata Bera, A. J. Gaikwad, D. Datta, “Selection of Fuzzy Membership Function Based on Probabilistic Confidence”, IEEE Explore-International Conference on Control, Instrumentation, Energy and Communication (CIEC-14), page 612-615, January 31-February 2, 2014, Calcutta University, Kolkata, India.
42. Subrata Bera, Dhanesh B. Nagrale, M. Prasad, D. Datta, Avinash J. Gaikwad, “Estimation of Shannon Entropy With Response Surface Formulations for PCT in LBLOCA”, International Workshop on New Horizons in Nuclear Reactor Thermal Hydraulics & Safety (IW-NRTHS), January 13-15, 2014, Mumbai, India.
43. Subrata Bera, S. P. Lakshmanan, A. J. Gaikwad, “Estimation of Temporal Profile of Fuel Temperature at Stagnant Coolant Condition in a PWR”, International workshop on New Horizons in Nuclear Reactor Thermal Hydraulics & Safety (IW-NRTHS), January 13-15, 2014, Mumbai, India.
44. S.K. Dubey, B. Singh, T. Ramesh, A.J. Gaikwad, “Accident Analysis for PRZ PSD Stuck Open for Acceptance on Cold Pressurization in VVER type Light Water NPP”, International Workshop on New Horizons in Nuclear Reactor Thermal Hydraulics & Safety (IW-NRTHS), January 13-15, 2014, Mumbai, India.
45. S.K. Dubey, A.J. Gaikwad, “Accident Analysis for Acceptance Criteria on Minimum DNBR During AOO in VVER type Light Water NPP”, International Workshop on New Horizons in Nuclear Reactor Thermal Hydraulics & Safety (IW-NRTHS), January 13-15, 2014, Mumbai, India.
46. Obaidurrahman K., Avinash J. Gaikwad, “TRIKIN - An In-house Developed 3D Core Dynamics Model Based on Multiphysics Formulation”, International Workshop on New

Horizons in Nuclear Reactor Thermal Hydraulics & Safety (IW-NRTHS), January 13-15, 2014, Mumbai, India.

47. Rupak Kumar Raman, Obaidurrahman K., Avinash J. Gaikwad, "Modeling of Fission Product Release in Integral Codes", International Workshop on New Horizons in Nuclear Reactor Thermal Hydraulics & Safety (IW-NRTHS), January 13-15, 2014, Mumbai, India.
48. Obaidurrahman K. and A. J. Gaikwad, "Development of Multiphysics Model for Nuclear Reactor Dynamics", Paper No. HMTC1300633, Proceedings of the 22nd National and 11th International ISHMT-ASME Heat and Mass Transfer Conference, December 28-31, 2013, IIT Kharagpur, India.
49. Prashant Sharma, et al. "Extended Station Blackout Analysis of Indian 540 MWe PHWRs" Proceedings of the 22nd National and 11th International ISHMT-ASME Heat and Mass Transfer Conference, December 28-31, 2013, IIT Kharagpur, India.
50. S. K. Pradhan, Obaidurrahman K., A. J. Gaikwad, "Analysis of Critical Break in Pressurized Heavy Water Reactor", Paper No. HMTC1300700, Proceedings of the 22nd National and 11th International ISHMT-ASME Heat and Mass Transfer Conference, December 28-31, 2013, IIT Kharagpur, India.
51. R. Srinivasa Rao, Kannan N. Iyer, S.K. Gupta, Avinash J. Gaikwad, "Modelling of The Containment Sump Behaviour for Hydrogen Distribution Calculations Using CFD Code", Proceedings of the 22nd National and 11th International ISHMT-ASME Heat and Mass Transfer Conference, December 28-31, 2013, IIT Kharagpur, India.
52. Kale Vivek A., Obaidurrahman K., Gaikwad Avinash J., "Development of Reactor Core Thermal Model for Reactivity Feedbacks", Paper No. HMTC1300748, Proceedings of the 22nd National and 11th International ISHMT-ASME Heat and Mass Transfer Conference, December 28-31, 2013, IIT Kharagpur, India.
53. Mahendra Prasad, Dhanesh B. Nagrale. Arjun Mali, R. S. Rao, Avinash J. Gaikwad, "Estimation of Safety Margin In Accident Sequence With Random Sampling and Latin Hypercube Sampling", Proceedings of the 22nd National and 11th International ISHMT-ASME Heat and Mass Transfer Conference, December 28-31, 2013, IIT Kharagpur, India.

54. Aniket Gupta, R. Srinivasa Rao, Obaidurrahman K., Avinash J. Gaikwad, "Assessment of SAMG Provision to Eliminate High Pressure Melt Ejection in Typical VVER-1000 using ASTEC", Paper No. HMTC1300764, Proceedings of the 22nd National and 11th International ISHMT-ASME Heat and Mass Transfer Conference, December 28-31, 2013, IIT Kharagpur, India.
55. R. Srinivasa Rao, Aniket Gupta, Obaidurrahman K., Avinash J. Gaikwad, "Hydrogen Generation Assessment During Severe Accidents for Typical VVER-1000 Using ASTEC", Paper No. HMTC1300771, Proceedings of the 22nd National and 11th International ISHMT-ASME Heat and Mass Transfer Conference, December 28-31, 2013, IIT Kharagpur, India.
56. Subrata Bera, D. Datta, A. J. Gaikwad, "Application of Fuzzy Set Theory to Estimate Temperature Distribution in a Fuel Pellet", Proceedings of the 22nd National and 11th International ISHMT-ASME Heat and Mass Transfer Conference, December 28-31, 2013, IIT Kharagpur, India.
57. Balbir Singh, Ramesh Kumar, Ritu Singh, Avinash J. Gaikwad, "Thermal-Structural Coupled Analysis of PT-CT", Proceedings of the 40th National Conference on Fluid Mechanics and Fluid Power (FMFP), December 12-14, 2013, NIT Hamirpur, India.
58. Anuj Kumar Deo, "IAEA ICSP on HWR Moderator Subcooling Requirements to Demonstrate Backup Heat Sink Capabilities of Moderator During Accidents using COMSOL, (Blind Calculation Report)", Submitted to IAEA, December, 2013.
59. Subrata Bera, D. Datta and A. J. Gaikwad, "Uncertainty Analysis of contaminant Transportation through ground water using fuzzy-Stochastic response surface", International Conference on Facets of Uncertainty and Application (ICFUA-2013), Ramakrishna Mission Institute of Culture, Kolkata, December 05-07, 2013.
60. Ramesh Kumar, Balbir Singh, Ritu Singh, Mahendra Prasad, Avinash J. Gaikwad, "Probabilistic Structural Analysis", International Conference on Facets of Uncertainty and Application (ICFUA-2013), Ramakrishna Mission Institute of Culture, Kolkata, December 05-07, 2013.

61. Dhanesh B. Nagrale, Subrata Bera, Mahendra Prasad, R. S. Rao, D. Datta, Avinash J. Gaikwad, "Safety Margin Estimation and its Comparison Using Various Uncertainty Techniques for Small Break Loss of Coolant Accident Sequences", International Conference on Facets of Uncertainty and Application (ICFUA-2013), Ramakrishna Mission Institute of Culture, Kolkata, December 05-07, 2013.
62. Parthasarathy U., Pranav Paliwal, Velusamy K., Selvaraj P., Chellapandi P., "CFD Investigation of effect of Neighboring Chimney's Exhaust on Thermal Performance of Decay Heat Removal System of PFBR", Proceedings of the 22th National and 11th International ISHMT-ASME Heat and Mass Transfer Conference, December 28-31, 2013, IIT Kharagpur, India.
63. Dhanesh B. Nagrale, Mahendra Prasad, R. S. Rao, Avinash J. Gaikwad, "Methodology for the Assessment of Confidence in Safety Margin for Small Break Loss of Coolant Accident Sequences", International Conference on Topical Issues in Nuclear Installation Safety: Defense in Depth – Advances and Challenges for Nuclear Installation Safety, October 21-24, 2013, Vienna, Austria.
64. Subrata Bera, D. Datta, A. J. Gaikwad, "Role of Fuzzy Set Theory in Air Pollution Estimation, International Conference on Advanced Engineering Optimization Through Intelligent Techniques (AEOTIT)", S. V. National Institute of Technology, Surat-395007, Gujarat, India, July 01-03, 2013.
65. D. Datta, P. S. Sharma, Subrata Bera and A. J. Gaikwad, "Application of Shannon Entropy to Optimize the Data Analysis", International Conference on Advanced Engineering Optimization Through Intelligent Techniques (AEOTIT), S. V. National Institute of Technology, July 01-03, 2013, Surat-395007, Gujarat, India.
66. Ramesh Kumar, Balbir Kumar Singh, Ritu Singh, J. Arunan, Avinash Gaikwad, "Assessment of crack in Reactor Pressure Vessels using ASME code", International Conference and exhibition on Pressure Vessel and Piping, February 13-16, 2013, Kalpakkam, Tamilnadu, India.
67. R. Srinivasa Rao, Avinash J. Gaikwad, S. P. Lakshmanan, "State of the Art and Challenges in Level-2 Probabilistic Safety Assessment for New and Channel Type Reactors in India",

Technical Meeting on Probabilistic Safety Assessment for New Nuclear Power Plants, October 1-5, 2012, IAEA, Vienna, Austria.

68. Anuj Kumar Deo, D. N. Sivayya, S. C. Ravichandar, P. Puthiyavinayagam, P. Chellapandi, "MOX Fuel Irradiation Performance and its Burnup Potential", International Conference CQCNF-2012, Hyderabad, February, 2012.
69. Om Pal Singh and Obaidurrahman K., "Impact of Nuclear Power on Environment", International Humboldt Kolleg, Regional and Expert International Conference on Adaptive Management of Ecosystems, October 19-21, 2011, ISEC, Bangalore.
70. Pranav Paliwal, U. Parathasarathy, "Computational Studies on Cellular Convection in Top Shield of FBR", Proceedings of the 10th ISHMT-ASME Heat and Mass Transfer Conference, December 27-30, 2011, IIT-Madras, India.
71. Ritu Singh, Ravi K, S.K. Gupta, "Development of core disassembly model for PHWRs under severe accident conditions", Proceedings Second International Conference on Reliability Safety and Hazard - Risk Based Technologies and Physics of Failure Methods (ICRESH 2010), December 14-16, 2010, Mumbai, India.
72. Obaidurrahman K., J. B. Doshi, S. M. Lee, "Multiphysics Modeling in Nuclear Reactor Analysis", Paper No. RS-05, Proceedings of 2nd International conference on Asian Nuclear Prospects, October 11-13, 2010, Mamallapuram, Chennai, India.
73. Mahendra Prasad, R. Srinivasa Rao, S. K. Gupta., "Best Estimate With Uncertainty Analysis to Evaluate Safety Margin in case of Large Break Loss of Coolant Accident", Proceedings of ICAPP 2010, June 13-17, 2010, San Diego, USA.
74. Obaidurrahman K., J.B. Doshi, "Development of Coupled Dynamics Model for VVER Reactors", Proceedings of International Conference on Opportunities and Challenges for Water Cooled Reactors in the 21st Century, Paper no. 3P05, October 27-30, 2009, Vienna, Austria.
75. Obaidurrahman K. and Om Pal Singh, "Nuclear Power: An Eco Friendly Energy Source for Sustainable Development", Paper no. 278, Proceedings of International Conference on Peaceful use of atomic energy, September 29-October 01, 2009, New Delhi.

76. Obaidurrahman K. and J.B. Doshi, "Computational Modeling Procedures for Core Dynamic Analysis of large Nuclear Reactors", Proceeding of International Nuclear Conference 2009 (INC'09) & Exhibition, Putra World Trade Centre (PWTC), 29 June-1 July 2009, Kuala Lumpur.
77. Gupta S. K., Ritu J. Singh, Ravi K., "Core Disassembly model for PHWRs, Technical Meeting on Severe Accidents", Accident Management and PSA Application for PHWRs, November 10–13, 2008, Mississauga, Canada.
78. Dhanesh B. Nagrale, R. S. Rao and S. K. Gupta, "Hydrogen Distribution inside Fuelling Machine Vault (North) of TAPP-3&4 using CFD-FDS 4.0 Code", International Conference on Reliability Safety and Quality Engineering (ICRSQE-2008), January 5 -7, 2008, NPCIL, Mumbai, India.
79. Pradhan S.K., Gupta S.K., "Safety Review Methodology for Thermal Hydraulics of Innovative Reactor Designs", International Conference on Reliability Safety and Quality Engineering (ICRSQE-2008) January 5-7, 2008, Mumbai, India.
80. R. Srinivasa Rao, Abhay Kumar, S. K. Gupta, "Severe Accident Analysis of TMI-2 using ASTEC", International Conference on Reliability Safety and Quality Engineering (ICRSQE-2008) January 5-7, 2008, Mumbai, India.
81. P. K. Baburajan, R. Srinivasa Rao, S. K. Gupta, "Simulation of Experiments on Containments Conducted at PANDA Facility", International Conference on Reliability Safety and Quality Engineering (ICRSQE-2008) January 5-7, 2008, Mumbai, India.
82. Ritu J Singh, K Ravi and S.K Gupta, "Computer Adoptable Core Disassembly Model for Indian PHWRs", International Conference on Reliability Safety and Quality Engineering (ICRSQE-2008) January 5-7, 2008, Mumbai, India.
83. K. Ravi, Ritu J. Singh and S.K. Gupta, "Structural Integrity of Nuclear Fuel Bundle", Interquadrennial Conference of the International Congress on Fracture, August 3-7, 2008, IISc. Bangalore, India.
84. Abhay Kumar, R. Srinivasa Rao, Devesh Kumar, R. Chowdary, S. K. Gupta, "Severe Accident Analysis of SBO of VVER-1000 MWe using SCDAP/RELAP5/MOD3.2", 19th

National and 8th ISHMT-ASME Heat and mass transfer conference, JNTU, January 3-5, 2008, Hyderabad, India.

85. Sameeran S., R. Srinivasa Rao, K. Sasidharan, S. K. Gupta, "Feed Water Pipeline Break Analysis for VVER-1000 MWe using RELAP5/MOD3.2", 19th national and 8th ISHMT-ASME Heat and Mass Transfer Conference, January 3-5, 2008, JNTU, Hyderabad, India.
86. Ravi K, Ritu J Singh, Gupta S.K., "Reactor Channel Disassembly Criterion", International Conference on Theoretical Applied Computational and Experimental Mechanics, ICTACEM 2007, December 27-29, 2007, IIT Kharagpur, India.
87. R. Srinivasa Rao, D. B. Nagrale, Sanjeev Kumar, S. C. Utkarsh, S. K. Gupta, "Hydrogen Distribution Analysis for PHWR Containment and Inter-Code Comparison", Proceedings of ICAPP 2007, May 13-18, 2007, Nice, France.
88. S. K. Gupta, R. Srinivasa Rao, "Evaluation of Uncertainty in Best Estimate Accident Analysis", 1st Research co-ordination meeting, October 30 - November 3, 2006, IAEA, Vienna, Austria.
89. Doshi J. B., Obaidurrahman K., "Control of Spatial Xenon Oscillations In Large Power Reactors", PHYSOR-2006, ANS Topical Meeting on Reactor Physics, Sep. 10-14, 2006, Vancouver, British Columbia, Canada.
90. R. Srinivasa Rao, S.K. Dubey and S. K. Gupta, "Severe Accident Analysis for Simultaneous Occurrence of Large Break LOCA and Station Black Out For KK-VVER 1000 MWe using SCDAP/RELAP5", ICONE 14-89664, Proceedings of ICONE 14: 14th International Conference on Nuclear Engineering, July 17-20, 2006, Miami, Florida, USA.
91. Gupta S. K, R. Srinivasa Rao and Chikkanagoudar U. S., "Code Comparison for Severe Accident Analysis of VVER-1000", Technical Meeting on Severe Accident Analysis and Management jointly organized by NUPEC, Japan and Thermal Hydraulics Division of AESJ in cooperation with IAEA, March 14-16, 2006, Tokyo, Japan.
92. S. K. Pradhan, R. Srinivasa Rao, Ritu. S and Gupta S. K., "Analysis of Progression of Severe Accident in Indian PHWR" Technical Meeting on Severe Accident Analysis and Management jointly organized by NUPEC, Japan and Thermal Hydraulics Division of AESJ in cooperation with IAEA, March 14-16, 2006, Tokyo, Japan.

93. R. Srinivasa Rao, H. G. Lele, P. Hajra, S. K. Gupta, V. Venkat Raj, "Sub-channel Analysis of Steamline Break for 1000 MWe", 6th ISHMT-ASME and 17th National HMT conference, January 5-7, 2004, IGCAR, Kalpakkam, India.

NATIONAL CONFERENCES

1. Amitanshu Mishra, S.K. Pradhan, A.J. Gaikwad, S.B. Chafle, "Cold Start-Up transient simulation of Advanced natural circulation based BWR in RELAP5/MOD 3.2", Proceedings of the Forty Second National Conference on Fluid Mechanics and Fluid Power, December 14-16, 2015, NITK Surathkal, Karnataka, India.
2. Prashant Sharma, Santosh K. Pradhan, Avinash J. Gaikwad, "Uncertainty Analysis for Determination of Critical Break for a Large PHWR", Proceedings of the Forty Second National Conference on Fluid Mechanics and Fluid Power, December 14-16, 2015, NITK Surathkal, Karnataka, India.
3. Subrata Bera, Anuj Kumar Deo, U. K. Paul, Avinash J. Gaikwad, "Selection Criteria for Specific Power and Burn-Up to Assess Core Inventory", 20th National Symposium on Radiation Physics (NSRP-20), October 28-30, 2015, Mangalore University, Karnataka, India.
4. Rakesh Kumar, Santosh K. Pradhan, Obaidurrahman K., Avinash. J. Gaikwad, "Validation of Multipoint Kinetics Model against 3D TRIKIN Code", Thorium Energy Conference 2015 (ThEC-15), October 19-22, 2015, Mumbai, India.
5. Dhanesh B. Nagrale, Subrata Bera, Anuj Kumar Deo, and A. J. Gaikwad, "The Study of Atmospheric Dispersion of Radionuclide Near Nuclear Power Plant Using CFD Approach", In Proceedings of the 23rd National Heat and Mass Transfer Conference and 1st International ISHMT-ASTFE Heat and Mass Transfer Conference (IHMTTC-2015), December 17-20, 2015, Thiruvananthapuram, India.
6. Anuj Kumar Deo, Subrata Bera, Avinash J. Gaikwad, "Temperature Distribution of Thorium Pellet in Thermal Reactor Flux Profile in Comparison with Other Fuels", National Conference on Power from Thorium: Present Status and Future Directions (NCPTh-2014), December 22-24, 2014, Mumbai, India.
7. Prashant Sharma, Amitanshu Mishra, S.K. Pradhan, Obaidurrahman K., A.J. Gaikwad, S.B. Chafle, "Internally Coupled Multi-Point Kinetics with Thermal-Hydraulics Analysis for

Asymmetric Power Transient of Natural Circulation BWR using RELAP5", National Conference on Power from Thorium: Present Status and Future Directions (NCPTh-2014), December 22-24, 2014, Mumbai.

8. Dhanesh B. Nagrale, Pavan Sharma, Avinash J. Gaikwad, "Fire Modeling and Heat Fluxes Evaluation during Multiple Cable Fire Scenario Using CFD Approach", National Conference on Fire Research and Engineering (FiRE-2014), March 1-2, 2014, Indian Institute of Technology Roorkee, India.
9. Subrata Bera, Dhanesh B. Nagrale, Avinash J. Gaikwad, "Safety Margin Assessment In Handling Fissile Material Using Probabilistic Approach", SRESA National Conference on Reliability and Safety Engineering, February 13-15, 2014, Anna University, BIT Campus, Tiruchirappalli, Tamilnadu, India.
10. Sharma P., Pradhan S.K., Dubey S.K., Gaikwad A.J., "Extended Station Blackout Analysis of Indian 540 MWe PHWRs", HMTTC1300699, Proceedings of the 22th National and 11th International ISHMT-ASME Heat and Mass Transfer Conference, December 28-31, 2013, IIT Kharagpur, India.
11. Anuj Kumar Deo, S. K. Dubey, Avinash J. Gaikwad, "Station Blackout Analysis for 220 MWe PHWR", Proceedings of the 40th National Conference on Fluid Mechanics and Fluid Power (FMFP 2013), December 12-14, 2013, NIT Hamirpur, Himachal Pradesh, India.
12. Balbir Kumar Singh, Ritu Singh, Ramesh Kumar, Avinash J. Gaikwad, "Thermal-Structural Coupled Analysis of PT-CT", 248, Proceedings of the 40th National Conference on Fluid Mechanics and Fluid Power (FMFP 2013), December 12-14, 2013, NIT Hamirpur, Himachal Pradesh, India.
13. Obaidurrahman K., A. Ramakrishna, "A Comparative Dynamic Assessment of Power Reactors under Startup Reactivity Transients", Advances in Reactor Physics: Simulation Techniques and Analysis Methodologies (ARP-2013), October 23-25, 2013, BARC Training School Hostel, Anushaktinagar, Mumbai, India.
14. Subrata Bera, Anuj Kumar Deo, Dhanesh B. Nagrale, Avinash J. Gaikwad, "Numerical Study of the Effect of Source Splitting in Gaussian Plume Model", 18th National

Symposium on Environment (NSE-18), March-11-12, 2013, JNTUA College of Engineering, Anantapur, India.

15. Subrata Bera, Anuj Kumar Deo, Dhanesh B. Nagrale, Avinash J. Gaikwad., "Numerical Study on Atmospheric Dispersion from Mushroom Shaped Cloud", Eighteenth National Symposium on Environment (NSE-18), March-11-12, 2013, JNTUA College of Engineering, Anantapur, India.
16. Dhanesh B. Nagrale, R. S. Rao, Dr. S. K. Gupta, Avinash J. Gaikwad, "CFD Analysis of Hydrogen-Water Vapour-Air Mixing Inside Full Containment of Nuclear Power Plant using Fire Dynamic Simulator", Severe Accident Analysis & Management (SAAM-2013), Symposium, February 1-3, 2013, IIT Kanpur, India.
17. Obaidurrahman K., A J Gaikwad, "Fission Product Release: Mechanisms and Models", Severe Accident Analysis & Management (SAAM-2013), February 1-3, 2013, IIT Kanpur, India.
18. R.S. Rao, Aniket P. Gupta, Obaidurrahman K., Avinash J. Gaikwad, "Analysis of All Main Steam Line Break of Typical 1000 MWe VVER Using ASTEC", Severe Accident Analysis & Management (SAAM-2013), February 1-3, 2013, IIT Kanpur, India.
19. R. Srinivasa Rao, Kannan N. Iyer, S.K. Gupta, Avinash J. Gaikwad, "Computer Code Benchmark Related to the Air/Helium Tests Performed in The Mistra Facility", Severe Accident Analysis & Management (SAAM-2013), February 1-3, 2013, IIT Kanpur, India.
20. R. Srinivasa Rao, Aniket P. Gupta, Obidurrahman K. R., Avinash J. Gaikwad, "Severe Accident Analysis of Rupture of all Main Steam Lines using ASTEC", International Symposium on Severe Accident Analysis & Management (SAAM-2013), February 1-3, 2013, IIT Kanpur, India.
21. R. Srinivasa Rao, S.P. Lakshmanan, Aniket Gupta, Avinash J. Gaikwad, "Extended Station Black Out Analysis For VVER-1000 MWe Reactor", International Symposium on Severe Accident Analysis & Management (SAAM-2013), February 1-3, 2013, IIT Kanpur, India.
22. Bera S., Pradhan S. K., Gaikwad, A.J., "Development of Empirical Relationship of Cross Section with Reactor State Parameters to Improve the Efficiency of External Code

Coupling”, 19th National Symposium on Radiation Physics (NSRP-19), December 12-14, 2012, Mamallapuram, India.

23. Subrata Bera, Anuj Kumar Deo, “Neutron Flux Shape Dependent Temperature Distribution in a Fuel Pellet”, 19th National Symposium on Radiation Physics (NSRP-19), December 12-14, 2012, Mamallapuram, India.
24. R. Srinivasa Rao, K. Srivasista, S. K. Gupta, Kannan N. Iyer, “Development of Bulk Condensation Model”, Extended Abstract and Poster Presentation, Phase-change Thermal Systems (PCTS-2012), March 19-20, 2012, IIT Kanpur, India.
25. R. Srinivasa Rao, Teany Thomas, Kannan N Iyer, S. K. Gupta, “Development of Condensation Model and Implementation in CFD Codes for Hydrogen Distribution Calculations”, Transactions, SMiRT 21, 6-11 November, 2011, New Delhi, India.
26. R. Srinivasa Rao, Teany Thomas, Kannan N. Iyer, S. K. Gupta, “Validation of the Condensation Model for Containment Thermal Hydraulics”, The 14th International Topical Meeting on Nuclear Reactor Thermal-hydraulics, NURETH-14, September 25-30, 2011, Toronto, Ontario, Canada.
27. Pradhan S.K., Bang Y.S., “Best Estimate Prediction of NFR with Uncertainty Following a LBLOCA of CANDU Plants”, Transactions of the Korean Nuclear Society (KNS) Spring Meeting, May 26-27, 2011, Taebaek, Korea.
28. Bera S., Pradhan S. K., Dubey S. K., Gupta S. K., “Investigation of 3D Spatial Effect on Point Kinetics Estimation of the Thermal Hydraulics Code RELAP for the Analysis of MSLB Accident of KK-NPP”, Proceedings of 4th National Conference on Nuclear Reactor Technology (NRT-4), March 4-6, 2011, Mumbai, India.
29. R. Srinivasa Rao, Mahendra Prasad, S. K. Gupta, “Sampling based Uncertainty and Importance Analysis Methodology and Applications”, Proceedings of 4th National Conference on Nuclear Reactor Technology (NRT-4), March 4-6, 2011, Mumbai, India.
30. U.K. Paul, Ravi K, Ritu Singh, S.K. Gupta, “Break preclusion criterion: Overview”, Proceedings of 4th National conference on Nuclear Reactor Technology (NRT-4), March 4-6, 2011, Mumbai, India.

31. S.P. Lakshmanan, P.K. Baburajan, R. Srinivasa Rao, S.K. Gupta, "Analysis on the Multi-Application Small Light Water Reactor Test Facility Relying on Natural Circulation", Proceedings of 4th National conference on Nuclear Reactor Technology (NRT-4), March 4-6, 2011, Mumbai, India.
32. P. K. Baburajan, R. Srinivasa Rao, S. K. Gupta, "Thermal Hydraulic Transient Analysis of Station Black Out for CANDU6 Plant", Proceedings of 4th National conference on Nuclear Reactor Technology (NRT-4), March 4-6, 2011, Mumbai, India.
33. Pradhan S.K., Rao R. S., Baburajan P.K., Gupta S. K., "Simulation of SBLOCA experiments Conducted at RD-14M Facility", Proceedings of 4th National Conference on Nuclear Reactor Technology (NRT-4), March 4-6, 2011, Mumbai, India.
34. Ravi K., Ritu J. Singh, S.K. Gupta, "Clad deformation Studies Under Accident Conditions", Proceedings of 4th National conference on Nuclear Reactor Technology (NRT-4), Mumbai, March 4-6, 2011, Mumbai, India.
35. Ravi K, Ritu J. Singh, S.K. Gupta, "Fuel Bundle Deformation Under Stratified Flow Scenario", Proceedings of 4th National conference on Nuclear Reactor Technology (NRT-4), March 4-6, 2011, Mumbai, India.
36. Ritu J. Singh, Ravi K, S.K. Gupta, "Flow Accelerated Corrosion Management in Indian NPPs: Current Practices", Proceedings of 4th National conference on Nuclear Reactor Technology (NRT-4), March 4-6, 2011, Mumbai, India.
37. Ritu J. Singh, Ravi K, S.K. Gupta, "Modeling of Progressive Failure Of Calandria Tubes Under Severe Accident Conditions", Proceedings of 4th National conference on Nuclear Reactor Technology (NRT-4), March 4-6, 2011, Mumbai, India.
38. Dhanesh B. Nagrale, M. Prasad, S. K. Gupta, "Fire Modeling of Diesel Generator Room in Nuclear Power Plant Using FDS Code", 4th National Conference on Nuclear Reactor Technology (NRT-4)" March 4-6, 2011, Mumbai, India.
39. Subrata Bera, S. M. Lee, "Criticality Safety of Stacked FBTR Fuel Subassemblies", Eighteenth National Symposium on Radiation Physics, NSRP-18, November 19-21, 2009, Udaipur, India.

40. Obaidurrahman K., J. B. Doshi, R. P. Jain and V. Jagannathan, "Development of the Space-time kinetics model for VVER reactors using Improved Quasistatic Method", Paper no. C05, Proceeding of National Symposium on Radiation Physics, Nov 19-21, 2009, Udaipur, India.
41. Susheel Kumar, Obaidurrahman K., Om Pal Singh, "A Simplified Methodology for Stability Analysis of Nuclear Reactors", Paper no. C15, Proceeding of National Symposium on Radiation Physics, November 19-21, 2009, Udaipur, India.
42. Dhanesh B. Nagrale, "Fire Analysis of Lube Oil Storage Room Similar To That of TAPA-3&4 Using Fire Dynamic Simulator (FDS) Code", Seminar on Challenges & Innovations In Fire Safety, April 29-30, 2008, AERB, India.
43. Solanki R.B., Prasad M., Pradhan S.K., Paul U.K., Gupta S.K., "Some Considerations of Probabilistic Safety Assessment in NPP Design", 7th International Topical Meeting on Nuclear Reactor Thermal Hydraulics, Operation and Safety (NUTHOS-7), October 5-9, 2008, Seoul, Korea.
44. Durga Prasad G.V., Pandey M., Pradhan S.K., Gupta S.K., "Numerical Investigation of On-Power Refueling in a Natural Circulation Boiling Water Reactor", 16th International Conference on Nuclear Engineering (ICONE-16), May 11-15, 2008, Florida, USA.
45. Gupta S.K., Pradhan S.K., "Design Safety Requirements on Natural Circulation Based Primary Heat Removal System for Nuclear Power Plants", One Day Symposium on Honor of Prof. S.P. Sukhatme, 19th national and 8th ISHMT-ASME Heat and Mass Transfer Conference, January 3 – 5, 2008, Hyderabad, India.
46. Dhanesh B. Nagrale, "Theoretical aspects of Diffusion Flame and Fire Plume", Discussion Meet on Fire Modeling on September 21-22, 2007, AERB, India.
47. Subrata Bera, V. Jagannathan, "Analysis of Zr-6 Critical Assembly Benchmark (VVER type) using Lattice Burn-up code EXCEL", Proceeding of 17th National Symposium on Radiation Physics, NSRP-17, Saha Institute of Nuclear Physics, November 14-16, 2007, Kolkata, India.
48. Subrata Bera, C. S. Sunny, V. Jagannathan, K. V. Subbaiah, S. M. Lee, "Fuel Depletion And Fission Product Build-Up Analysis Of VVER-1000 Type Reactor Of KKNPP Project Using

ORIGEN-S Module of SCALE Code System”, Proceeding of 17th National Symposium on Radiation Physics, NSRP-17, Saha institute of Nuclear Physics, November 14-16, 2007, Kolkata, India.

49. Subrata Bera, C. S. Sunny, S. M. Lee, “Criticality safety of stacked fast reactor fuel subassemblies”, Proceeding of 17th National Symposium on Radiation Physics (NSRP-17), Saha institute of Nuclear Physics, November 14-16, 2007, Kolkata, India.
50. K. V. Subbaiah, R. Sarangapani, Subrata Bera, L. Thilagam, “Monte Carlo: Geometry Tracking Method”, Proceeding of 17th National Symposium on Radiation Physics, NSRP-17, Saha institute of Nuclear Physics, November 14-16, 2007, Kolkata, India.
51. Gupta S.K., Pradhan S.K., “Evaluation of Design Safety Issues on Natural Circulation based Primary Heat Removal System of Nuclear Power Plants”, IAEA Topical Meeting on Advanced Safety Assessment Methods for Nuclear Reactors, October 30 - November 2, 2007, Daejon, Republic of Korea.
52. Durga Prasad G.V., Pandey M., Pradhan S.K., Gupta S.K., “Non Linear Dynamics of a Pressure Tube Type Natural Circulation Boiling Water Reactor”, 12th International Topical Meeting on Nuclear Reactor Thermal Hydraulics (NURETH-12), September 30-October 4, 2007, Pennsylvania, USA.
53. Pradhan S.K., Rao R.S., Dubey S.K., Gupta S.K., “Analysis of Stagnation Channel Break in PHWR”, National Conference on Advances in Heat Transfer and Fluid dynamics (AHTFD-2006), September 16-17, 2006, AMU, Aligarh, India.
54. R. Srinivasa Rao, Abhay Kumar, S.K. Dubey, S.K.Gupta, “Severe Accident Analysis for Simultaneous Occurrence of Large Break LOCA and SBO for KK-VVER 1000 MWe using SCDAP/RELAP5”, National Conference on Advances in Heat Transfer and Fluid dynamics (AHTFD-2006), September 16-17, 2006, AMU, Aligarh, India.
55. Gupta S. K., R. Srinivasa Rao, “Different Criteria for Fuel Channel Integrity during Accident Conditions for PHWRs”, High Burn-up Issues in Nuclear Fuels (HBINF-2005), Theme Meeting on Fuel Behaviour under Accident Conditions, March 24, 2006, BARC, Mumbai, India.

56. Gupta S.K., Pradhan S.K, Rao R.S., Singh Ritu, "Analysis of Progression of Severe Accident in Indian PHWR", Technical Meeting on Severe Accident Analysis and Management jointly organized by NUPEC, Japan and Thermal Hydraulics Division of AESJ in cooperation with IAEA, March 14-16, 2006, Tokyo, Japan.
57. Pradhan S.K., Tripathi S.K., Dubey S.K., Gupta S.K., "Severe Core Damage Accidents Beyond the Design Basis for PHWR", XVIII National and VII ISHMT-ASME Heat and Mass Transfer Conference, January 4-6, 2006, IIT Guwahati, India.
58. Solanki R.B., Pradhan S.K., Kumar A., Gupta S.K., "Reliability Evaluation of Thermal-Hydraulic Passive System", XVIII National and VII ISHMT-ASME Heat and Mass Transfer Conference, January 4-6, 2006, IIT Guwahati, India.
59. Dubey S.K., Utkarsh S.C., Pradhan S.K., Gupta S.K., "Accident Analysis of Station Black Out for VVER-1000 MWe PWR Using Thermal Hydraulic Code RELAP-5/Mod 3.2", XVIII National and VII ISHMT-ASME Heat and Mass Transfer Conference, January 4-6, 2006, IIT Guwahati, India.
60. R. Srinivasa Rao, S.K. Dubey and S.K. Gupta, "Severe Accident Analysis for Simultaneous Break of All Main Steam Lines of VVER-1000 MWe using SCDAP/RELAP/MOD3.2", XVIII National & VII ISHMT-ASME HMTTC, January 4-6, 2006, IIT Guwahati, India.
61. B. R. Sehgal, A. K. Nayak and R. Srinivasa Rao, "Study on Water Ingression Phenomena In Melt Pool Coolability", The 11th International Topical Meeting on Nuclear Reactor Thermal-Hydraulics (NURETH-11), Log Number: 449, October 2-6, 2005, Popes Palace Conference Center, Avignon, France.
62. R. Srinivasa Rao, B. Chatterjee, A. Srivastava, A. J. Gaikwad, H. G. Lele, P. Hajra, S. K. Gupta, V. Venkat Raj, "Steamline Break Analysis for 1000 MWe Kudankulam Nuclear Power Plant", 1st National Conference on Nuclear Safety, November 25-27, 2002, Mumbai, India.
63. Utkarsh S. C, A. J. Gaikwad, R. Srinivasa Rao, B. Chatterjee, A. Srivastava, H. G. Lele, S. K. Gupta, V. Venkat Raj, "Modeling and Transient Analysis of Reactor Coolant Pump Shaft Seizure for VVER-1000 Reactor using RELAP5/MOD3.2", 1st National Conference on Nuclear Safety, November 25-27, 2002, Mumbai, India.

64. B. Chatterjee, R. Srinivasa Rao, A. Srivastava, S. Kavimandan, A. J. Gaikwad, H. G. Lele, S. K. Gupta, V. Venkat Raj, "Large Break Loss Of Coolant Accident Analysis For Kudankulam NPP", 1st National Conference on Nuclear Safety, November 25-27, 2002, Mumbai, India.

DIVISIONAL REPORTS

1. A Note on "P-T Curve for TAPS 1&2 Reactor Pressure Vessel for Hydro Test", June 2017.
2. Prashant Sharma, "Performance Analysis of Annular Gas Monitoring System for Standard 220 MWe PHWR", AERB/NSAD/TR/2017/05/Rev.0, May 2017.
3. Santosh K. Pradhan, K. Obaidurrahman, A. J. Gaikwad, "Modeling Improvements and Investigations on Spatial Effects in RELAP5 Multipoint Kinetics", AERB/NSAD/TR/2017/10/Rev.0, May 2017.
4. Mahesh Kareti, Aniket Gupta, R. S. Rao, Avinash J Gaikwad, "Containment Thermal Hydraulics & Hydrogen Distribution Study for 700 MWe KAPP 3&4 using ASTEC - An Independent Verification", AERB/NSAD/TR/2017/9/Rev.1, May 2017.
5. Bhanu Prakash B., Prashant Sharma, Santosh K. Pradhan, Avinash J. Gaikwad, "Effectiveness of SAMG Action of Water Injection into Calandria Vessel for SBO Initiated Severe Accident in 700 MWe PHWR", AERB/NSAD/TR/2017/08/Rev.0, May 2017.
6. Anuj Kumar Deo, P. K. Baburajan, U. K. Paul, "Performance Analysis of AGMS for PHWR 220 MWe", AERB/NSAD/TR/2017/04/Rev.0, April 2017.
7. Anuj Kumar Deo, Subrata Bera, U.K. Paul, Avinash J Gaikwad, "Accident Consequence Analysis of Rajasthan Site Using PC COSYMA Code", AERB/NSAD/TR/2017/25, March 2017.
8. Anuj Kumar Deo, P. K. Baburajan, U. K. Paul, "Independent Assessment of CFVS For TAPS-1&2", March 2017.
9. Prashant Sharma, "Calandria Vault Dew Point Monitoring System Performance for MAPS & RAPS", AERB/NSAD/TR/2017/03/Rev.0, March 2017.

10. Ramesh Kumar, Balbir Kumar Singh, Ritu J. Singh "A note on Flaw characterization of reported flaws in ISI of TAPS-2 during 24 refueling outage", June 2016.
11. Subrata Bera, Anuj Kumar Deo, "Estimation of Axial Radiation Dose Rate Profile at the Outer Surface of the Suppression Pool Wall of Twin Unit of TAPS-1&2", AERB/NSAD/TR/2016/17/Rev.0, 2016.
12. Pranav Paliwal, S. K. Dubey, A. J. Gaikwad, "Estimation of Fuel Failure for the Evaluation of Radiological Impact Assessment for RIH Break in KAPP 700 MWe PHWR" AERB/NSAD/TR/2016/16/Rev.0, 2016.
13. Dhanesh B. Nagrale, Santosh K. Pradhan, U.K. Paul, Avinash J. Gaikwad, "Safety Analysis Report on Computational Fluid Dynamics Analysis to Study Condensation in Annulus Gas Monitoring System (AGMS)", AERB/NSAD/TR/2016/09/Rev.0, December 2016.
14. Anuj Kumar Deo, S. P. Lakshmanan, Subrata Bera, P.K. Baburajan, R.S. Rao, "Estimation of Source Term Release to Containment Following a LOCA with Loss of ECCS Scenario in a PHWR Configuration", AERB Report, AERB/NSAD/TR/2016/22, November 2016.
15. Subrata Bera, Santosh Kumar Pradhan, Amod Kishore Mallick, "Development of Cross Section Correlation for PHWR-540 Lattice", AERB/NSAD/TR/2016/12, 2016.
16. Anuj Kumar Deo, P. K. Baburajan, R. Srinivasa Rao, U. K. Paul, Avinash Gaikwad, "In-vessel Retention Analysis - LOCA + LECCS + LMODC of KGS1&2 (Benchmark Analysis - Phase-3)", AERB Report, AERB/NSAD/TR/2016/06, November 2016.
17. Subrata Bera, Anuj Kumar Deo, S. P. Lakshmanan, P. Paliwal, S. K. Dubey, R. S. Rao, U. K. Paul, A. J. Gaikwad, "Estimation of Radionuclide Release from PHT to Containment towards RIA Guideline Formulation: Case Study for PHWR-700 DBA", AERB/NSAD/TR/2016/18, October 2016.
18. Balbir Kumar Singh, Ramesh Kumar, Ritu J. Singh "Structural Integrity Assessment of TAPS-2 RPV for Reactor Transient for Flaws Observed in ISI during 24thRFO", July 2016, AERB/NSAD/TR/2016/Rev.0.
19. Mahesh Kareti, Aniket Gupta, R. S. Rao, Avinash J Gaikwad, "Containment Thermal Hydraulics & Hydrogen Distribution Study for 700 MWe KAPP 3&4 using ASTEC - An Independent Verification", AERB/NSAD/TR/2016/13, July 2016.

20. Balbir Kumar Singh, Ramesh Kumar, Ritu J. Singh "TAPS RPV Structural Integrity Assessment under Reactor Transient Condition", AERB/NSAD/TR-0/2016/Rev.1, May 2016.
21. Balbir Kumar Singh, Ramesh Kumar, Ritu J. Singh "Flexibility & Weight Analysis of Secondary Sodium Fill and Drain Circuit (SSFDC) and Secondary Sodium Purification During Preheating", AERB/NSAD/TR/2016/08/Rev.0, May 2016.
22. Subrata Bera, Pranav Paliwal, Prashant Sharma, Anuj Kumar Deo, S. K. Pradhan, S. K. Dubey, R. S. Rao, "Input for Experimental Test Matrix Formulation of National Aerosol Facility at IIT, Kanpur", AERB/NSAD/TR/2016/05/Rev.1, March 2016.
23. Prashant Sharma, Santosh K. Pradhan, Avinash J. Gaikwad, "Extended Station Blackout Analysis of Indian 540 MWe PHWRs", AERB/NSAD/TR/2016/04/Rev.0, March 2016.
24. Prashant Sharma, Santosh K. Pradhan, P. K. Baburajan, A. J. Gaikwad, "Development and application of Innovative Methodology to Analyze ESBO in 540 MWe PHWR using RELAP5", AERB/NSAD/TR/2016/04/Rev.0, March 2016.
25. Subrata Bera, Anuj Kumar Deo, "Estimation of radiation field around pipelines of containment filtered venting system of TAPS-1&2", AERB/NSAD/TR/2016/02, 2016.
26. Mahesh Kareti, Aniket Gupta, R. S. Rao, Avinash J Gaikwad, "Severe Accident Analysis of Simultaneous Occurrence of SBO & LB-LOCA As Part of Independent Verification for KKNPP 3&4", AERB/NSAD/TR/2015/16, December 2015.
27. Prashant Sharma, Santosh K. Pradhan, Avinash J. Gaikwad, "LOCA Initiated Severe Accident Analysis of 540 MWe PHWR Using SCDAP/RELAP5 - Modeling Issues", AERB/NSAD/TR/2015/17/Rev.0, December 2015.
28. Santosh K. Pradhan, Dhanesh B. Nagrale, R. S. Rao, A. J. Gaikwad, "Estimation of Effect of Initial Dew Point and Leak from PHT on Final Dew Point for Annulus Gas Monitoring System (AGMS) and Trip Settings", AERB/NSAD/TR/2015/15/Rev.0, November 2015.
29. Dhanesh B. Nagrale, Mahendra Prasad, Rajib Locah, Dr. Avinash Sonawane, Avinash J. Gaikwad, "Probabilistic Safety Assessment of Indigenously Developed Telecobalt Facility", AERB/NSAD/TR/2015/Rev.0, October 2015.

30. Prashant Sharma, Santosh K. Pradhan, R.S. Rao, A. J. Gaikwad, "Extended Station Blackout Analysis of 540 MWe PHWRs with Fire Water Injection to SG", AERB/NSAD/TR/2015/12/Rev.0, October 2015.
31. Ramesh Kumar, Prashant Sharma, Balbir K. Singh, Ritu J. Singh, Santosh K. Pradhan, Avinash J. Gaikwad, "Review and Independent Verification of Safety Analysis for Estimation of Final Crack Size and Structural Safety Assessment of Channel for Proposed Leak Test of KAPS-2", AERB/NSAD/TR/2015/11/Rev.0.
32. P. K. Baburajan, Anuj Kumar Deo, U. K. Paul, Avinash J. Gaikwad, "TAPS-1&2 Mitigated ESBO", AERB Report, AERB/NSAD/TR/2015/09, August 2015.
33. Dhanesh B. Nagrale, Mahendra Prasad, Avinash J. Gaikwad, "Reliability Assessment of TAPS 1&2 Containment Filtered Venting System", AERB/NSAD/TR/2015/07/Rev.0, August 2015.
34. Balbir Kumar Singh, Ramesh Kumar, Ritu Singh, "TAPS RPV Stress Analysis under Upset Condition", AERB/NSAD/TR-0 /2015/Rev.0, August 2015.
35. Balbir Kumar Singh, Ritu Singh, "Heater Design for Investigations on Calandria Vessel Heat Transfer and Structural Behavior during Severe Accident", AERB/NSAD/TR-08/2015, July 2015.
36. Ramesh Kumar, Balbir Kumar Singh, Ritu J. Singh, "Reactor Pressure Vessel Lower Head Structural Behaviour during Severe Accident", AERB/NSAD/TR/2015/06/Rev.0.
37. Prashant Sharma, P. K. Baburajan, Avinash J. Gaikwad, "TECDOC on ICSP on HWR Moderator Sub-Cooling Requirements to Demonstrate Backup Heat Sink Capabilities of Moderator During Accidents (RELAP5 calculations)", June 2015.
38. Balbir Kumar Singh, Ritu Singh, Avinash J Gaikwad, "TECHDOC on IAEA ICSP on HWR moderator sub cooling requirements to demonstrate backup heat sink capabilities of moderator during accidents by ABAQUS 6.13 FEM software (Open calculation)", NSAD, June 2015.
39. Subrata Bera, Anuj Kumar Deo, "Radionuclide Inventory Calculation for RIA Guidelines: Case Study for PHWR-700", June 2015.

40. Pranav Paliwal, S. K. Dubey, A. J. Gaikwad, "Independent Verification of Analysis for SBO with PDHRS in KAPP 700 MWe PHWR", AERB/NSAD/TR/2015/03/Rev.0.
41. Subrata Bera, Anuj Kumar Deo, "Independent Verification of Radionuclide Inventory in TAPS-1&2 Core as an Input for Design Validation of CFVS", April 2015.
42. P. Sharma, A. Mishra, Shri S. K. Pradhan, K. Obaidurrahman, A. J. Gaikwad, "Asymmetric Transient Analysis of Natural Circulation BWR", AERB/NSAD/TR/2014/15, January 2015.
43. Subrata Bera, Anuj Kumar Deo, "Radionuclide Inventory Calculation for RIA Guidelines: Case Study for PHWR-700", AERB/NSAD/TR/2015/07, 2015.
44. Subrata Bera, Anuj Kumar Deo, "Independent verification of radionuclide inventory in TAPS-1&2 core as an input for design validation of CFVS", AERB/NSAD/TR/2015/05, 2015.
45. Subrata Bera, Anuj Kumar Deo, Dhanesh B. Nagrale, "Independent Verification of Radiation Shielding Analysis for Containment Filtered Venting System of TAPS-1&2", AERB/NSAD/TR/2015/02/Rev.1, 2015.
46. R. S. Rao, P. K. Baburajan, Anuj Kumar Deo, U. K. Paul, Avinash J. Gaikwad, "SAMG Independent Verification Analysis - Station Blackout + Loss of Fire Water to Steam Generator + Loss of Moderator Circulation and Cooling of KGS-1&2 with Calandria Hook-Up", November, 2014.
47. Aniket P. Gupta, R. S. Rao, Mahesh K, P.K. Baburajan, Avinash J. Gaikwad, "Containment Peak Pressure Assessment during LBLOCA for KGS-1&2 using ASTEC", AERB/NSAD/TR/2014/18, October 2014.
48. P. K. Baburajan, R. S. Rao, Anuj Kumar Deo, U. K. Paul, Avinash J Gaikwad, "SAMG Independent Verification Analysis - LOCA + LECCS + LMODC of KGS1&2 with Calandria Hook-up", September, 2014.
49. Balbir Kumar Singh, Ramesh Kumar, Ritu Singh, "Heat Transfer and Coupled Thermal and Structural Analysis of Calandria Vessel with Debris in 540 MWe PHWR using ABAQUS", AERB/NSAD/TR/2014/04, July 2014.
50. Anuj Kumar Deo, D. B. Nagrale, "CFD Simulation of Venturi Scrubber for Containment Filtered Venting System", AERB/NSAD/TR/2014/08, June, 2014.

51. Pranav Paliwal, R. S. Rao & A. J. Gaikwad, "CFD Simulation of HM2-0 Test of MISTRA Facility", AERB/NSAD/TR/2014/07.
52. S. K. Pradhan, Obaidurrahman K., U. K. Paul A. J. Gaikwad, "Internally Coupled Multi-Point Neutron Kinetics Model for RELAP5", AERB/NSAD/TR/2014/21/Rev.0, February 2014.
53. Ramesh Kumar, Balbir Kumar Singh, Ritu Singh "The behavior of typical cold rolled joint between CT and CSTS during severe accident condition", AERB/NSAD/TR/2014/04, July 2014.
54. Ramesh Kumar, Balbir Kumar Singh, Ritu Singh "Thermal Stratification Phenomena in Typical Surge Line and Fatigue Damage Estimation", AERB/NSAD/TR/2014/03, June 2014.
55. S. K. Dubey, Pranav Paliwal & A. J. Gaikwad, "Independent Verification of RIH Break in 700 MWe PHWR", AERB/NSAD/TR/2014/01.
56. Anuj Kumar Deo, "Hotspot Factors for Sodium Bonded Metallic Fuels for Future FBRs", PFBR/31110/DN/1086, April, 2013.
57. R. Srinivasa Rao, Aniket Gupta, Obaidurrahman K., Avinash J. Gaikwad, "AERB Technical Report on AERB-IRSN Collaboration", April 2013.
58. Anuj Kumar Deo, "Flow Zoning For Metallic Fuel", PFBR/31110/DN/1093, April, 2013.
59. Ritu Singh, S.K. Pradhan, U.K. Paul, R. S. Rao, Avinash J Gaikwad, "Report on the Feasibility of using SiC as Accident Resistant Clad in Water Cooled Reactors", AERB/NSAD/TR/2013/14 Rev.0, March 2013.
60. Ramesh Kumar, Balbir Kumar Singh, Ritu Singh, "Structural Integrity Assessment of TAPS Reactor Pressure Vessel", AERB/NSAD/TR/2013/11, January 2013.
61. Anuj K. Deo, Subrata Bera, "A report on Accident Consequence Analysis of Kakrapar Site using PC-COSYMA Code", AERB/NSAD/TR/2013, 2013.
62. Anuj Kumar Deo, Subrata Bera, "A Report on the Accident Consequence Analysis of Kakrapar Site Using PC COSYMA Code", AERB/NSAD/TR/2012/08, 2012.

63. Dhanesh B. Nagrale, Subrata Bera, Anuj Kumar Deo, R. S. Rao, Avinash J. Gaikwad, "Decision Support System: Important Consideration for Acceptance", AERB/NSAD/TR/2012/03/Rev.0, September 2012.
64. Subrata Bera, S. Pathak, "Manual of Computer Tool DTANK for the Radiological Assessment of High Dose Therapy", AERB/NSAD/TR/2012/Rev.0, 2012.
65. Subrata Bera, "Skyshine Dose Estimation due to Both Gamma Ray and Neutron Radiation", AERB/NSAD/TR/2012/Rev.0, 2012.
66. Subrata Bera, S. K. Pradhan, S. K. Dubey, S. K. Gupta, "MSLB Analysis of KK-NPP using Coupled Code TRIP", AERB/SADD/SAR/2011/C01, 2011.
67. Subrata Bera, "Coupling of RELAP Code with 3DFAST for PHWR-500 Accident Analysis Phase-1: Cross Section Database Generation using Lattice Code CLUB", AERB/SADD/2011/P01, 2011.
68. R. Srinivasa Rao, Kannan N Iyer, S. K. Gupta, "A Report on the Computer Code Benchmark related to the Air/Helium Tests Performed in the MISTRA Facility", Indian Institute of Technology Bombay, September, 2011. – Submitted to CEA France.
69. Subrata Bera, "Criticality Safety Analysis of Transport Package for APSARA fuel", AERB/SADD/SAR/2010/C02, 2010.
70. Subrata Bera, G. Joseph, K. V. Subbaiah, "Criticality Safety Evaluation of fuel-subassembly(FSA) Dissolver of FRP with Gadolinium as Soluble Poison", AERB/SADD/SAR/2010/C03, 2010.
71. Subrata Bera, G. K. Panda, "Cross-verification of Criticality Safety Analysis of NFG-05 Packages Containing MOX Fuel Pins for PFBR", AERB/SADD/SAR/2010/C01, 2010.
72. R. Srinivasa Rao, Baburajan P.K., S. K. Gupta, "A Report on Severe Accident Analysis", AERB/IRSN Co-operation, November 2009.
73. R. Srinivasa Rao, Abhay Kumar, P. K. Baburajan and S. K. Gupta, "NRC/AERB TMI-2 STANDARD PROBLEM EXERCISE (ACCIDENT ANALYSIS)", September 2008.
74. R. Srinivasa Rao, Abhay Kumar, S. K. Gupta, H.G. Lele, "NRC/AERB TMI-2 Standard Problem Exercise (Uncertainty Analysis), September 2008.

75. Abhay Kumar, Devesh Kumar, S. M. Chaudhary, R. Srinivasa Rao, S. K. Gupta, "Severe Accident Analysis of Station Blackout with Passive Heat Removal System Available for VVER-1000 MWe, Report No.:LWRD/KK/04/07, February 2007.
76. Abhay Kumar, Devesh Kumar, S. M. Chaudhary, R. Srinivasa Rao, S. K. Gupta, "Severe Accident Analysis of Station Blackout for VVER-1000 MWe, Report No.: LWRD/KK/R/02/06, August 2006.
77. Pranav Paliwal, U. Parathasarathy, "Investigation on Cellular Convection – Study 1", PFBR/31310/DN/1018.
78. Pranav Paliwal, U. Parathasarathy, "Air Side Pressure Drop in AHX-B Inlet: Effect of Adjoining Structures", PFBR/34160/DN/1020.
79. Pranav Paliwal, U. Parathasarathy, "Influence of DG Exhaust on AHX Air Inlet Temperature: A 3-D CFD Investigation", PFBR/34000/DN/1039.
80. Pranav Paliwal, U. Parathasarathy, "CFD Analysis of Top Shield Experimental Facility", PFBR/31310/DN/1060.

_ ***** _