

List of publications in peer-reviewed journals (11)

1. D. Pizzocri, G. Pastore, T. Barani, A. Magni, L. Luzzi, P. Van Uffelen, S.A. Pitts, A. Alfonsi, J.D. Hales, “A model describing intra-granular fission gas behavior in oxide fuel for advanced engineering tools”, Journal of Nuclear Materials (2018), doi: 10.1016/j.jnucmat.2018.02.024
2. P. Rouxelin, G. Strydom, A. Alfonsi, K. Ivanov, “The IAEA CRP on HTGR uncertainties: Sensitivity study of PHISICS/RELAP5-3D MHTGR-350 core calculations using various SCALE/NEWT cross-section sets for Ex. II-1a”, Nuclear Engineering and Design, ISSN 0029-5493, <https://doi.org/10.1016/j.nucengdes.2017.12.008>
3. A. Alfonsi, G. Mesina, A. Zoino, N. Anderson, C. Rabiti, “Combining RAVEN, RELAP5-3D and PHISICS for Fuel Cycle and Core Design Analysis”, ASME Journal of Nuclear Engineering and Radiation Science, vol.3, num. 2, # NERS-16-1120
4. A. Zoino, A. Alfonsi, C. Rabiti, R.H. Szilard, F. Giannetti, G. Caruso, “Performance-based ECCS cladding acceptance criteria: A new simulation approach”, Annals of Nuclear Energy, vol.100, num. 2, pp 204-216
5. C. Rabiti, A. Alfonsi, A. S. Epiney, “New Simulation Schemes and Capabilities for the PHISICS/RELAP5-3D Coupled Suite”, Nuclear Science and Engineering, vol.182, num. 1, pp 104-118
6. P. Balestra, C. Parisi, A. Alfonsi, C. Rabiti, “AER DYN-003 control rod ejection benchmark RELAP5-3D/PHISICS coupled simulation”, Nuclear Technology, vol. 193, num 1, pp 175-182
7. D. Mandelli, C. Smith, T. Riley, J. Nielsen, J. Schroeder, A. Alfonsi, C. Rabiti, J. Cogliati, D. Maljovec, V. Pascucci, B. Wang, “BWR Station Black Out: a RISMIC Analysis Using Raven and RELAP5”, Nuclear Technology, vol. 193, num. 1, pp 161-174
8. G. Strydom, A. S. Epiney, A. Alfonsi, C. Rabiti, “PHISICS/RELAP5-3D Ring and Block Model Results for Phase I of the OECD MHTGR-350 Benchmark”, Nuclear Technology, vol. 193, num. 1, pp 15-35

9. D. Mandelli, S. Prescott, C. Smith, A. Alfonsi, C. Rabiti, J. Cogliati, R. Kinoshita, “A Flooding Induced Station Blackout Analysis for a Pressurized Water Reactor Using the RISMC Toolkit”, *Science and Technology of Nuclear Installations*, vol. 2015, ID 308163
10. Di Maio, A. Bandini, E. Zio, A. Alfonsi, C. Rabiti, “An approach based on Support Vector Machines and a K-D tree search algorithm for identification of the failure domain and safest operating conditions in nuclear systems”, *Progress in Nuclear Energy*, Volume 88, April 2016, pp 297–309
11. P. Balestra, F. Giannetti, G. Caruso, A. Alfonsi, “New RELAP5-3D Lead and LBE Thermo-Physical Properties Implementation for Safety Analysis of Gen IV Reactors”, *Science and Technology of Nuclear Installations*, vol. 2016, ID 1687946

List of publications in conferences (46)

1. P. Balestra, A. Alfonsi, G. Strydom, R. S. Sen, C. Rabiti, F. Giannetti, G. Caruso “New PHISICS Perturbation Method Module Verification Using the HTTR Neutronic Model,” *Proceedings American Nuclear Society 2017 Winter Meeting*, Washington, DC, US, October 2017.
2. D. Mandelli, A. Alfonsi, C. Smith, “Risk Monitoring Capabilities from Dynamic PRA Data,” *Proceedings American Nuclear Society 2017 Winter Meeting*, Washington, DC, US, October 2017.
3. I. Kinoshita, C. Rabiti, A. Alfonsi, “Uncertainty and Sensitivity Analysis of LSTF Small Break LOCA Tests Using RELAP5 and RAVEN,” *International Topical Meeting on Probabilistic Safety Assessment and Analysis (PSA 2017)*, Pittsburg USA, September 2017
4. D. Mandelli, C. Parisi, A. Alfonsi, D. Maljovec, S. St Germain, R. Boring, S. Ewing, C. Smith, C. Rabiti “Dynamic PRA of a Multi-Unit Plant,” *International Topical Meeting on Probabilistic Safety Assessment and Analysis (PSA 2017)*, Pittsburg USA, September 2017
5. D. Mandelli, C. Parisi, A. Alfonsi, D. Maljovec, S. St Germain, R. Boring, S. Ewing, C. Smith, C. Rabiti “Dynamic PRA of a Multi-Unit Plant,” *International Topical Meeting on Probabilistic Safety Assessment and Analysis (PSA 2017)*, Pittsburg USA, September 2017

6. D. Mandellim Z. Ma, C. Parisi, A. Alfonsi, C. Smith, "Measuring Risk Importance in a Dynamic PRA Framework," International Topical Meeting on Probabilistic Safety Assessment and Analysis (PSA 2017), Pittsburg USA, September 2017
7. A. Alfonsi, C. Rabiti, D. Mandelli, "Assembling Multiple Models within the RAVEN Framework", Proceedings of 2017 American Nuclear Society Annual Meeting, June 11-15, 2017, San Francisco
8. P. Balestra, A. Alfonsi, G. Strydom, C. Rabiti, F. Giannetti, G. Caruso, "Improvements to PHISICS/RELAP5-3D© Capabilities for Simulating HTGRs", Proceedings of 2017 American Nuclear Society Annual Meeting, June 11-15, 2017, San Francisco
9. A. S. Epiney, A. Alfonsi, C. Rabiti, J. Chen, "Economic Assessment of Nuclear Hybrid Energy Systems: Optimization using RAVEN", Proceedings of 2017 American Nuclear Society Annual Meeting, June 11-15, 2017, San Francisco
10. A. S. Epiney, C. Parisi, A. Alfonsi, H. Zhang, R. Szilard, "RISMC Industry Application #1 (ECCS/LOCA): Core Characterization Automation: Reference PWR Designs for IA#1", Proceedings of 2017 American Nuclear Society Annual Meeting, June 11-15, 2017, San Francisco
11. C. Picoco, T. Aldemir, V. Rychkov, A. Alfonsi, D. Mandelli, C. Rabiti, "Coupling of RAVEN and MAAP5 for the Dynamic Event Tree analysis of Nuclear Power Plants", proceedings of European Safety and Reliability Conference - ESREL, June 18-22, 2017, Portoroz, Slovenia
12. P. Rouxelin, G. Strydom, A. Alfonsi, K. Ivanov, "IAEA CRP on HTGR Uncertainties: Sensitivity Study of PHISICS/RELAP5-3D MHTGR-350 Core Calculations using Various SCALE/NEWT Cross-Section Sets for Ex. II-1a", proceedings of 2016 International Topical Meeting on High Temperature Reactor Technology (HTR 2016), November 6-10, 2016, Las Vegas, NV, USA
13. D. Mandelli, A. Alfonsi, C. Smith, C. Rabiti, "Generation and Use of Reduced Order Models for Safety Applications Using RAVEN," Proceedings American Nuclear Society 2015 Winter Meeting, November 8-12, 2015, Washington, DC, US
14. A. Zoino, A. Alfonsi, C. Rabiti, F. Giannetti, G. Caruso, "Simulation Tools and Approaches for the Compliance with Performance-Based ECCS Cladding Acceptance Criteria (10 CFR 50.46C),"

Proceedings American Nuclear Society 2015 Winter Meeting, November 8-12, 2015, Washington, DC, US

15. A. Alfonsi, G. Mesina, A. Zoino, C. Rabiti “A fuel cycle and core design analysis method for new cladding acceptance criteria using PHISICS, RAVEN and RELAP5-3D” Proceedings of the 24th International Conference on Nuclear Engineering (ICONE24), June 26-30, 2016, Charlotte, USA
16. C. Wang, P. W. Talbot, C. Rabiti, A. Alfonsi, D. Mandelli, J. Cogliati “An Efficient Sampling-Based Method for Sensitivity and Uncertainty Analysis Through RAVEN,” 2016 ANS annual meeting proceedings, New Orleans LA, USA (June 12-16)
17. A. Alfonsi, A. Zoino, C. Rabiti, F. Giannetti, G. Caruso, “Enhanced Shuffling and Fuel Management Capability in PHISICS Code, Proceedings of 2016 ANS annual meeting proceedings, New Orleans LA, USA (June 12-16)
18. A. Alfonsi, D. Mandelli, C. Rabiti “RAVEN Facing the Problem of assembling Multiple Models to Speed up the Uncertainty Quantification and Probabilistic Risk Assessment Analyses “Proceedings of 13th International Conference on Probabilistic Safety Assessment and Management (PSAM 13), Oct. 2-6 2016, Seoul, South Korea
19. P. W. Talbot, K. Gamble, C. Rabiti, C. Wang, A. Alfonsi, J. Cogliati, D. Mandelli, A. K. Prinja “Time-Dependent Sensitivity Analysis of OECD Benchmark using BISON and RAVEN,” Proceedings of 2016 ANS winter meeting, November 6-10, 2016, Las Vegas, NV
20. D. Mandelli, D. Maljovec, A. Alfonsi, C. Picoco, C. Smith, C. Rabiti “Analysis of Time Dependent Data and PRA,” Proceedings of 2016 ANS winter meeting November 6-10, 2016, Las Vegas, NV
21. B. Cohn, A. Alfonsi, D. Mandelli, C. Rabiti “Comparison of Surrogate Model to Physical Model for Dynamic Probabilistic Risk Analysis using the RAVEN Code, Proceedings of 2016 ANS winter meeting, November 6-10, 2016, Las Vegas, NV
22. C. Rabiti, J. Cogliati, G Pastore, R. J Gardner, A. Alfonsi, “Fuel Reliability Analysis Using BISON and RAVEN,” International Topical Meeting on Probabilistic Safety Assessment and Analysis (PSA 2013), April 26-30, Sun Valley, ID, USA, 2015

23. D. Maljovec, B. Wang, P. Rosen, A. Alfonsi, G. Pastore, C. Rabiti, V. Pascucci, "Rethinking Sensitivity Analysis of Nuclear Simulations with Topology," Pacific Visualization Symposium (PacificVis), 2016 IEEE. April 12-22, Taipei, Taiwan, 2016
24. D. Mandelli, S. Prescott, C. Smith, A. Alfonsi, C. Rabiti, J. Cogliati, R. Kinoshita, "Modeling of a Flooding Induced Station Blackout for a Pressurized Water Reactor Using the RISMCM Toolkit," International Topical Meeting on Probabilistic Safety Assessment and Analysis (PSA 2013), April 26-30, Sun Valley, ID, USA, 2015
25. A. Alfonsi, C. Rabiti, D. Mandelli, J. Cogliati, R. Kinoshita, "Hybrid Dynamic Event Tree Sampling Strategy in RAVEN," International Topical Meeting on Probabilistic Safety Assessment and Analysis (PSA 2013), April 26-30, Sun Valley, ID, USA, 2015
26. I. Rinaldi, A. Alfonsi, C. Rabiti, J. Cogliati, F. Giannetti, G. Caruso, "A Comprehensive Validation Approach Using The RAVEN Code," Proceedings American Nuclear Society 2015 Annual Meeting, June 7-11, 2015, San Antonio, TX, US
27. A. Alfonsi, C. Rabiti, D. Mandelli, J. Cogliati, R. Kinoshita, A. Naviglio "RAVEN and Dynamic Probabilistic Risk Assessment: Software Overview," European Safety and Reliability Conference Wroclaw Poland, September 2014
28. D. Mandelli, C. Smith, C. Rabiti; A. Alfonsi, "Analysis of the Space Propulsion System Problem Using RAVEN," PSAM 12 Probabilistic Safety Assessment and Management, Honolulu, Hawaii, June 2014
29. C. Rabiti, A. Alfonsi, D. Mandelli, J. Cogliati, R. Kinoshita, "RAVEN, a New Software for Dynamic Risk Analysis," PSAM 12 Probabilistic Safety Assessment and Management, Honolulu, Hawaii, June 2014
30. C. Rabiti, D. Mandelli, A. Alfonsi, J. Cogliati, R. Kinoshita "Introduction of Supervised Learning Capabilities of the RAVEN Code for Limit Surface Analysis," Proceedings American Nuclear Society 2014 Annual Meeting, June 15-19, 2014, Reno, NV, US

31. D. Mandelli, C. Smith, C. Rabiti, A. Alfonsi, J. Cogliati, R. Kinoshita "New Methods and Tools to Perform Safety Analysis within RISMCM," Proceedings American Nuclear Society 2013 Winter Meeting, November 10-14, 2013, Washington, DC
32. D. Mandelli, C. Smith, C. Rabiti, A. Alfonsi, R. Youngblood, V. Pascucci, B. Wang, D. Maljovec, P. T. Bremer "Dynamic PRA: An Overview of New Algorithms to Generate, Analyze and Visualize Data," Proceedings American Nuclear Society 2013 Winter Meeting, November 10-14, 2013, Washington, DC
33. A. Alfonsi, C. Rabiti, D. Mandelli, J. Cogliati, R. Kinoshita, A. Naviglio " Dynamic Event Tree Analysis Through RAVEN", International Topical Meeting on Probabilistic Safety Assessment and Analysis (PSA 2013), September 22-26, Columbia, SC, USA, 2013
34. A. Alfonsi, C. Rabiti, D. Mandelli, J. Cogliati, R. Kinoshita, "RAVEN As a tool for Dynamic Probabilistic Risk Assessment: Software Overview", International Conference on Mathematics and Computational Methods Applied to Nuclear Science & Engineering (M&C 2013), May 5-9, Sun Valley, Idaho, USA, 2013
35. C. Rabiti, D. Mandelli, A. Alfonsi, J. Cogliati, R. Kinoshita, "Mathematical Framework for the Analysis of Dynamic Stochastic Systems with the RAVEN code", International Conference on Mathematics and Computational Methods Applied to Nuclear Science & Engineering (M&C 2013), May 5-9, Sun Valley, Idaho, USA, 2013
36. A. Alfonsi, C. Rabiti, D. Mandelli, J. Cogliati, R. Kinoshita, "Performing Probabilist Risk Assessment Through RAVEN", Proceedings American Nuclear Society 2013 Annual Meeting "Next Generation Nuclear Energy: Prospects and Challenges", June 16-20, 2013, Atlanta, GA
37. C. Rabiti, D. Mandelli, A. Alfonsi, J. Cogliati, R. Kinoshita, et al., "RAVEN: a GUI and an Artificial Intelligence Engine in a Dynamic PRA Framework", Proceedings American Nuclear Society 2013 Annual Meeting "Next Generation Nuclear Energy: Prospects and Challenges", June 16-20, 2013, Atlanta, GA

38. A. Mabe, A. Alfonsi, C. Rabiti, A. Epiney, M. Lineberry, "Development of Fuel Shuffling Module for PHISICS", Proceedings American Nuclear Society 2013 Annual Meeting "Next Generation Nuclear Energy: Prospects and Challenges", June 16-20, 2013, Atlanta, GA
39. F. Lodi, A. Alfonsi, C. Rabiti, A. Epiney, M. Sumini, "Hot Zero and Full Power Validation of PHISICS RELAP-5 Coupling", Proceedings American Nuclear Society 2013 Annual Meeting "Next Generation Nuclear Energy: Prospects and Challenges", June 16-20, 2013, Atlanta, GA
40. A. Alfonsi, C. Rabiti, A. S. Epiney, Y. Wang, J. Cogliati, "PHISICS Toolkit: Multi-Reactor Transmutation Analysis Utility – MRTAU." Proc. PHYSOR 2012 Advances in Reactor Physics Linking Research, Industry, and Education, Knoxville, Tenn., April 15-20, 2012, on CD-ROM, American Nuclear Society, LaGrange Park, Ill (2012).
41. A. Epiney, C. Rabiti, A. Alfonsi, Y. Wang, J. Cogliati, G. Strydom, "PHISICS Multi-group Transport Neutronics Capabilities for RELAP5," 2012 International Congress on Advances in National Power Plants (ICAPP '12) Chicago, IL June 24-28, 2012, ISBN: 978-0-89448-091-1
42. A. Epiney, G. Strydom, A. Alfonsi, C. Rabiti, "New Multi-group Transport Neutronics (PHISICS) Capabilities for RELAP5-3D and its Application to Phase I of the OECD/NEA MHTGR-350 MW Benchmark", 6th International Topical Meeting on High Temperature Reactor Technology(HTR 2012),Tokyo, Japan, October 28 – November 2, 2012
43. D. Mandelli, C. Rabiti, A. Alfonsi, "Pre-Processing of Cross-Sections Using Dimensionality Reduction Techniques," Proceedings American Nuclear Society 2012 Annual Winter Meeting, November 11-15, 2012, SAN Diego, CA.
44. C. Rabiti, A. Alfonsi, D. Mandelli, J. Cogliati, R. Martineau "RAVEN as Control Logic and Probabilistic Risk Assessment Driver for RELAP-7," Proceedings American Nuclear Society 2012 Annual Winter Meeting, November 11-15, 2012, SAN Diego, CA.
45. C. Rabiti, Y. Wang, G. Palmiotti, H. Hiruta, J. Cogliati, A. Alfonsi, A. Epiney, T. Grimmet "PHISICS: New Features and Advancements," Proceedings American Nuclear Society 2011 Annual Winter Meeting, Washington, D. C., USA, October 30-November 3 (2011).

46. C. Rabiti, Y. Wang, G. Palmiotti, H. Hiruta, J. Cogliati, A. Alfonsi “PHISICS: a New Reactor Physics Analysis Toolkit,” Proceedings American Nuclear Society 2011 Annual Meeting, Hollywood, Florida, USA, June 27-30 (2011).

List of peer-reviewed publicly available reports (32)

1. A. Alfonsi, C. Wang, J. Cogliati, D. Mandelli, C. Rabiti “Status of Adaptive Surrogates within the RAVEN framework”, Idaho National Laboratory, Idaho Falls, Idaho, INL/EXT-17-43438
2. A. S. Epiney, C. Rabiti, A. Alfonsi, P. Talbot, F. Ganda, “Report on the Economic Optimization of a Demonstration Case for a Static N-R HES Configuration using RAVEN”, Idaho National Laboratory, Idaho Falls, Idaho, INL/EXT-17-41915
3. C. Rabiti, A. Epiney, P. Talbot, J. S. Kim, S. Bragg-Sitton, A. Alfonsi, A. Yigitoglu, S. Greenwood, S. M. Cetiner, F. Ganda, G. Maronati, “Status Report on Modelling and Simulation Capabilities for Nuclear-Renewable Hybrid Energy Systems”, Idaho National Laboratory, Idaho Falls, Idaho, INL/EXT-17-42441
4. D. Mandelli, C. Parisi, A. Alfonsi, D. Maljovec, S. Ewing, R. Boring, S. St Germain, C. Smith, M. Rasmussen, C. Rabiti, “Dynamic PRA Modeling of a Multi-Unit Power Plant”, Idaho National Laboratory, Idaho Falls, Idaho, INL/LTD-17-42398
5. D. Mandelli, C. Parisi, Z. Ma, D. Maljovec, A. Alfonsi, C. Smith, “Risk-Informed Analysis of Commercial Nuclear Reactors: the RISMC Approach and 10CFR50.69”, Idaho National Laboratory, Idaho Falls, Idaho, INL/LTD-17-43208
6. C. Smith, A. Alfonsi, C. Rabiti, D. Mandelli, J. Cogliati, “External review of Risk Analysis and Virtual Environment (RAVEN) software for RISMC applications”, Idaho National Laboratory, Idaho Falls, Idaho, INL/EXT-17-42310
7. A. Alfonsi, J. Cogliati, S. Prescott, D. Mandelli, C. Rabiti . “RAVEN modifications supporting optimization under the MOOSE framework”, Idaho National Laboratory, Idaho Falls, Idaho, INL/EXT-17-42395

8. J. Cogliati, J. Chen, J. Patel, D. Mandelli, D. Maljovec, A. Alfonsi, P. Talbot, C. Wang, C. Rabiti “Time-dependent data mining in RAVEN,” Idaho National Laboratory, Idaho Falls, Idaho, INL/EXT-16-39860
9. A. Alfonsi, C. Rabiti, D. Maljovec, D. Mandelli, J. Cogliati “Enhancements to the RAVEN code in FY16” Idaho National Laboratory, Idaho Falls, Idaho, INL/EXT-16-40094
10. B. W. Spencer, M. Backman, P. T. Williams, W. M. Hoffman, A. Alfonsi, T. L. Dickson, B. R. Bass, H. B. Klasky “Probabilistic Fracture Mechanics of Reactor Pressure Vessels with Populations of Flaws” Idaho National Laboratory, Idaho Falls, Idaho, INL/EXT-16-40050
11. D. Mandelli, D. Maljovec, A. Alfonsi, C. Parisi, P. Talbot, C. Picoco, J. Cogliati, C. Wang, C. Smith, C. Rabiti “Data Analysis Approaches for the Risk-Informed Safety Margins Characterization Toolkit,” Idaho National Laboratory, Idaho Falls, Idaho, INL/EXT-16-39851
12. C. Rabiti, A. Alfonsi, J. Cogliati, D. Mandelli, R. Kinoshita, C. Wang, D. Maljovec, P. Talbot “RAVEN Beta 1.0 Release” INL/EXT-16-37953
13. A. Alfonsi, C. Rabiti, J. Cogliati, D. Mandelli, S. Sen, R. Kinoshita, C. Wang, P. Talbot, D. Maljovec, A. Slaughter, C. Smith, "Dynamic Event Tree Advancements and Control Logic Improvements," INL/EXT-15-36758, September 2015
14. S. Sen, D. Maljovec, A. Alfonsi, C. Rabiti, "Developing and Implementing the Data Mining Algorithms in RAVEN", INL/EXT-15-36632, September 2015
15. D. Mandelli, C. Smith, A. Alfonsi, C. Rabiti, J. Cogliati, H. Zhao, I. Rinaldi, D. Maljovec, P. Talbot, B. Wang, V. Pascucci, "Reduced Order Model Implementation in the Risk-Informed Safety Margin Characterization Toolkit," INL/EXT-15-36649, September 2015
16. R. Szilard, C. Frepoli, J. Yurko, R. Youngblood, A. Alfonsi, A. Zoino, C. Rabiti, H. Zhang, P. Bayless, H. Zhao, G. Swindlehurst, C. Smith, “ Industry Application Emergency Core Cooling System Cladding Acceptance Criteria Early Demonstration,” INL/EXT-15-36541, September 2015
17. D. Mandelli, C. Smith, A. Alfonsi, C. Rabiti, J. Cogliati, “Improved Sampling Algorithms in the Risk-Informed Safety Margin Characterization Toolkit”, INL/EXT-15-35933, August 2015

18. A. Alfonsi, C. Rabiti, D. Mandelli, J. Cogliati, S. Sen, C. Smith, "Improving Limit Surface Search Algorithms in RAVEN Using Acceleration Schemes," INL/EXT-15-36100, July 2015
19. R. Szilard, R. Youngblood, C. Frepoli, J. Yurko, G. Swindlehurst, H. Zhang, H. Zhao, P. Bayless, C. Rabiti, A. Alfonsi, C. Smith, "Industry Application Emergency Core Cooling System Cladding Acceptance Criteria Problem Statement," INL/EXT-15-35073, April 2015
20. A. Alfonsi, C. Rabiti, D. Mandelli, J. Cogliati, R. Kinoshita, "RAVEN: Development of the Adaptive Dynamic Event Tree Approach", INL/MIS-14-33246, September 2014
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23. C. Rabiti, A. Alfonsi, D. Mandelli, J. Cogliati, R. Kinoshita, "Advanced Probabilistic Risk Analysis Using RAVEN and RELAP-7", INL/EXT-14-32491, June 2014
24. C. Rabiti, P. Talbot, A. Alfonsi, D. Mandelli, J. Cogliati "Implementation of Stochastic Polynomials Approach in the RAVEN Code," INL/EXT-13-30611, October 2013
25. A. Alfonsi, C. Rabiti, D. Mandelli, J. Cogliati, R. Kinoshita, "RAVEN: Dynamic Event Tree Approach. Level III Milestone", Idaho National Laboratory, Idaho Falls, Idaho, INL/EXT-13-30332
26. D. Mandelli, C. Smith, T. Riley, J. Schroeder, C. Rabiti, A. Alfonsi, et. al., "Support and Modeling for the Boiling Water Reactor Station Black Out Case Study Using RELAP and RAVEN", Idaho National Laboratory, Idaho Falls, Idaho, INL/EXT-13-30203
27. L. Swiler, D. Mandelli, C. Rabiti, A. Alfonsi, "DAKOTA Reliability Methods applied to RAVEN/RELAP-7", Sandia National Laboratory, Albuquerque, New Mexico, SAND2013-8439
28. C. Rabiti, A. Alfonsi, J. Cogliati, D. Mandelli, R. Kinoshita, "Deployment and Overview of RAVEN Capabilities for a Probabilistic Risk Assessment Demo for a PWR Station Blackout", Idaho National Laboratory, Idaho Falls, Idaho, INL/EXT-13-29510

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30. A. Alfonsi, G. Youinou, “LWR First Recycle of TRU with Thorium Oxide for Transmutation and Cross Sections”, Idaho National Laboratory, Idaho Falls, Idaho, INL/EXT-12-26633, FCRD-FCO-2012-000197, July 2012
31. A. Alfonsi, G. Youinou, “Impact of fission products impurity on the plutonium content in PWR MOX fuels”, Idaho National Laboratory, Idaho Falls, Idaho, INL/EXT-12-26114, March 2012
32. A. Alfonsi, S. E. Bays, C. Rabiti, Steven J. Piet, “Multi-Reactor Transmutation Analysis Utility (MRTAU,α1): Verification” Idaho National Laboratory, Idaho Falls, Idaho, USA, INL/EXT-11-21384, February 2011