



16th SMiRT Post-Conference Seminar on Fire Safety in Nuclear Power Plants and Installations

Ottawa, ONT, Canada; October 28-29, 2019

Provisional Agenda

Sunday, October 27, 2019

17:00 h *Registration and FSEP 2019 / SMiRT Fire Seminar Informal Welcome (Sneak Peak)*

Monday, October 28, 2019

07:30 h *Speakers and Delegates Breakfast*

08:00 h Registration

08:30 h *FSEP 2019 Plenary Session (see FSEP 2019 Program)*

10:15 h *Coffee Break*

10:30 h *FSEP 2019 Plenary Session (see FSEP 2019 Program)*

12:00 h *Lunch Break*

13:00 h *SMiRT Post-Conference Fire Seminar Introduction and Welcome by the Organizers*

R. Cronk, PLC, Canada;
A. Bounagui, CNSC, Canada,
M. Röwekamp GRS, Germany

13:15 h *Regulation, Standards and Guidelines, Protection Programs*

Chairpersons:
M. Lehto, S. Thompson

13:15 h Fire and Explosion Hazards in Advanced Nuclear Reactor Technologies: Regulatory Insights from the United Kingdom

D. Lisbona, ONR, United Kingdom
G. Williams

13:40 h Canadian Fire Protection Regulatory Requirements for Small Modular Reactors

A. Bounagui, CNSC, Canada
et al.

14:05 h Proposed Performance-Based Code Alternative Solution Models in the Nuclear Industry

H. Shalabi, Carleton University, Canada
D. Esposito, Jensen Hughes, Canada

14:30 h *Operating Experience and Lessons Learned*

Chairpersons:
M. Roewekampe, A. Bounagui

14:35 h Insights on Successful Combustible Controls Programs

P. Boulden Jr. Appendix R Solutions, USA

15:00 h *Coffee Break*

15:20 h *Operating Experience and Lessons Learned (contd.)*

Chairpersons:
M. Roewekampe, A. Bounagui

15:20 h Most Important Fire Events from Finnish NPPs and Consequential Improvements and Plant Modifications

M. Lehto STUK, Finland

15:45 h	Fires of Radioactive Materials During and After Drying Processes in German Nuclear Installations	B. Forell	GRS, Germany
16:10 h	Operating Experience with Fires in Nuclear Installations – The OECD/NEA FIRE Database	M. Beilmann, et al.	OECD NEA, France, FIRE member countries
16:35 h	Break		
16:45 h	Behavior of Fire Detection and Control Systems in Case of Smoke Spreading Through Fire Barriers – Consequences and Opportunities	A. Niggemeyer	Framatome, Germany
17:10 h	Operating Experience with Fire Dampers in German Nuclear Power Plants	B. Forell	GRS, Germany
17:35 h	Adjourn of the first Seminar day		
17:00 h	FSEP 2019 and SMiRT Fire Seminar Wine and Cheese Reception and Student Poster Presentation		

Tuesday, October 29, 2019

07:30 h	Speakers and Delegates Breakfast		
08:30 h	Briefing		
08:45 h	FESP 2019 Plenary Session (see FSEP 2019 Program)		
10:15 h	Coffee Break		
10:30 h	Operating Experience and Lessons Learned (contd.)	Chairpersons: L. Kuriene, M. Roewekamp	
10:30 h	Experience Regarding Qualification of Fire Detection and Control Systems	D. Heinert, et al.	Framatome, Germany
10:55 h	Nuclear Power Stations Fire Brigade Organization, Responsibilities and Challenges in Different OECD/NEA FIRE Member Countries	K. McGrath, J.-P. Cayla, M. Roewekamp, et al.	ONR, United Kingdom, IRSN, France, GRS, Germany
11:25 h	Special Topic: High Energy Arcing Faults (HEAF)	Chairpersons: K. Shirai, N. Melly	
11:30 h	U.S. NRC Pre-Generic Issue 0-18 High Energy Arcing Faults (HEAF) Involving Aluminum	N. Melly, M. H. Salley	NRC, USA
12:00 h	Lunch Break		
13:00 h	Special Topic: High Energy Arcing Faults (HEAF) contd.	Chairpersons: K. Shirai, N. Melly	
13:00 h	OECD/NEA High Energy Arcing Faults (HEAF) Research – Second Phase of Testing	N. Melly, M. H. Salley	NRC, USA
13:25 h	Medium Voltage Breakers from Nuclear Power Plants to be Tested	L. Kuriene, M. Roewekamp	ANVS, Netherlands GRS, Germany

	Within the OECD Nuclear Energy Agency Experimental Project HEAF 2	
13:50 h	Experimental Fire Research and Modelling	Chairpersons: S. Suard, N. Melly
13:55 h	Common Cable Fire Benchmark Activity of the OECD Nuclear Energy Agency Projects PRISME 3 and FIRE	S. Bascou, et al. IRSN, France
14:20 h	SEVEN Expert System: A Decision Support Tool for Fire Safety Analysis in the Nuclear Area	W. Plumecocq, IRSN, France et al.
15:00 h	Coffee Break	
15:20 h	Experimental Fire Research and Modelling (contd.)	Chairpersons: S. Suard, N. Melly
15:15 h	Implementation Strategies of a Semi-Empirical Cable Fire Model in the FDS Fire Simulation Code	Y. H. Jung, KAERI, Korea D. I. Kang
15:40 h	Fire Safety Analysis and Modelling	Chairpersons: W. Plumecocq, M. Roewekamp
15:40 h	Foundations for A Successful Fire PRA Project	P. Boulden Jr. Appendix R Solutions, USA
16:05 h	KAERI's Research and Development Activities for the Construction and Quantification of Fire Event PSA Model	D. I. Kang, KAERI, Korea Y. H. Jung
16:30 h	Break	
16:40 h	Fire Safety Analysis and Modelling (contd.)	Chairpersons: W. Plumecocq, M. Roewekamp
16:40 h	Improving Realism in Fire PRAs for Nuclear Power Plant Applications	N. Melly, NRC, USA D. Stroup
17:05 h	Case Study for proposed CANDU Fire Probabilistic Risk Assessment Model	H. Shalabi, Carleton University, et al. Canada
17:30 h	Concluding Panel Discussion	Chairperson: A. Bounagui
	<i>Panel participants:</i>	M. Lehto, S. Thompson, N. Melly, M. Roewekamp, K. Shirai, S. Suard
17:45 h	Adjourn of the second Seminar day	
18:00 h	Common FSEP/SMiRT FireSeminar Cocktail Reception and Banquet	

Wednesday, October 30, 2019

07:30 h *Speakers Breakfast*

07:45 h *Delegates Breakfast*

08:45 h *Common FESP 2019 and SMiRT Fire Seminar Plenary Session
(see FSEP 2019 Program)*

08:45 h Fire Safety at Nuclear Sites: Challenges for the Future – An International Perspective M. Roewekamp GRS, Germany

09:30 h Overview of the OECD PRISME 3 Project S. Suard IRSN, France

10:15 h *Coffee Break*

10:30 h Advances in Fire Safety Solutions through Research J. A. Milke UMD, USA

11:15 h Proposal of an Evaluation Method for Prevention of High Energy Arcing Fault (HEAF) Induced Fires at Low and High Voltage Electrical Cabinets K. Shirai CRIEPI, Japan

12:00 h *Final Conference Lunch*

14:00 h *Adjourn of FSEP 2019 and SMiRT Post-Conference Fire Seminar*