



Summer Workshop
2016

Structural Integrity Aspects in Nuclear Safety

4th – 9th September 2016



At Amec Foster Wheeler RSD,
Warrington, United Kingdom



ETSON JSP Summer Workshop 2016

The European Technical Safety Organisation Network Junior Staff Programme (ETSON JSP) 2016 Summer Workshop is to be hosted by Amec Foster Wheeler's Regulatory Support Directorate (RSD).

The workshop is a networking event bringing together young nuclear experts from Technical Safety Organisations (TSOs) and creating an environment where participants can collaborate on a specific topic. The subject for this year's workshop is "*Structural Integrity Aspects in Nuclear Safety*". Presentations will be given by participants, providing an opportunity to learn from one another and develop a network of contacts within their field of nuclear safety.

This year's workshop also includes a technical visit to the Nuclear Advanced Manufacturing Research Centre (NAMRC), part of the University of Sheffield, and the Dalton Nuclear Institute.

Venue

The workshop will be held at Amec Foster Wheeler Regulatory Support Directorate's offices near Warrington in the UK.

Participation is free of charge but prior approval from the JSP representative of your institution is required. You can find further information regarding the Junior Staff Programme and the representatives at:

www.etsongroup.eu/Initiatives/Pages/JSP.aspx

Participants are encouraged to stay in Manchester, a short train ride away from the location of the workshop.

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Programme: ETSON JSP Summer Workshop 2016 Structural Integrity Aspects in Nuclear Safety



		Sunday 04/09	Monday 05/09	Tuesday 06/09	Wednesday 07/09	Thursday 08/09	Friday 09/09
AM	9:00-11:00	Arrivals	Welcome speech Peter Moore, Head of RSD General presentations by ETSON Members Structural Integrity: Risk & Safety Phil Horrocks, RSD	Topic: Aspects of Structural Integrity Through Life ASME structural design assessments (N Shallcross) Material and degradation effects of structural integrity (M Rogers, C Derry, V Addepalli)	Technical visit to the Nuclear Advance Manufacturing Centre (NAMRC), Rotherham	Topic: Mechanical Aspects Mechanical testing of RPV and DMWs (S Lindqvist) Structural integrity of nuclear facilities under fire: - Mechanical Mechanisms (M Roosefid) - Consequences of the failure of steel-concrete structures (E Dorne)	Topic: Safety-related and Procedural Aspects Structural integrity safety-related aspects in new nuclear installations. (F Russo & C Juanos Cabanas) Full-system decontamination in NPP – safety-related procedural and material aspects (S Faust)
	11:00-11:30		Coffee break	Coffee break		Coffee break	
	11:30:12:30		Topic: RPVs and other NPP Components Structural integrity of the RPV of Tihange2/Doel 3 after the finding of unexpected hydrogen flakes in the low-alloy steel part (A Gendebien) Neutron and gamma radiation environment on the nuclear reactor vessel and beyond (neutron fluence, kerma, dpa) (M Brovchenko)	Inspection and validation of structural integrity (S Wedge, K Stone) Structural integrity: impact of water intrusion: return of experience (J Depuydt)		Mini-workshop	Workshop Closure
	12:30-14:00		Lunch	Lunch		Lunch	Lunch
PM	14:00-15:30	Arrivals	Using database of defects in the metal of equipment and pipelines of Russian NPPs in safety analysis (S Korableva) Topic: Accidental and Beyond Design Basis Conditions Assessment of creep rupture behaviour of PWR pressure boundary components under beyond-design loads (C Bläsius) Integrity analysis of SG tubes for implementation of selected scenario in severe accident conditions for WWER-1000 (M Mustafin)	Topic: Ageing Merging of statistical data and structural integrity analysis results (I Zutautaitė) Ageing and vessel integrity (WPR) (E Viard) Analysis of justification of structural integrity of VVER reactor pressure vessel in aspects of radiation embrittlement during lifetime prolongation to 60 years (P Borodkin)	Non-technical visit (location weather dependent)	Amec Foster Wheeler lab visit Birchwood Park, Warrington	Departures
	15:30-16:00		Coffee break	Coffee break			
	16:00-17:00		Potential loss of integrity of experimental devices in a research reactor (L Mourey)	Measurement and evaluation of neutron fluence impact on Reactor Pressure vessel for VVER 440 and VVER 1000 (P Montero)			
	Evening		Welcome get-together	Free			