

## PROGRAMME

Topics, speakers and timings are subject to change.

<b>Day 1</b>			
<b>09:00</b>	<b>IET &amp; Chair's welcome and introduction</b> <b>Poll and ice breaker</b>  <b>Steve Frost, Superintending Nuclear Inspector, Office for Nuclear Regulation (ONR)</b>		
	<b>Advanced Nuclear Technologies</b>		
<b>09.15</b>	<b>Keynote address: Advanced Nuclear Technologies</b> <ul style="list-style-type: none"> <li>Streamlining the regulatory process for SMRs</li> <li>New build, SMR, AMR making savings for first-of-a-kind projects</li> <li>Support for innovation</li> </ul> <b>Richard Deakin, Director, Low Cost Nuclear Challenge UKRI</b>		
<b>09.40</b>	<b>UK Consortium SMR progress</b> <ul style="list-style-type: none"> <li>An overview of the SMR programme</li> <li>The main issues and challenges for C&amp;I</li> <li>The high level architecture</li> </ul> <b>Robin Shirtcliffe, Technical Lead Engineer: Reactor Island Control and Instrumentation, Rolls Royce</b>		
<b>10.05</b>	<b>Comfort break 10 minutes</b>  <b>Safety</b>		
<b>10.15</b>	<b>HPC Progress Update &amp; the Role of Nuclear Assurance During Construction</b> <ul style="list-style-type: none"> <li>Update on construction progress &amp; recent developments at HPC</li> <li>Overview of the HPC Assurance organisation and their role in nuclear safety</li> <li>The role of the site inspection team and assessments recently undertaken / upcoming</li> <li>Reflections on providing nuclear assurance on a construction project vs operating nuclear site</li> </ul> <b>Tom Hughes, Independent Site Inspector, EDF Energy (HPC)</b>		
	<b>Networking and exhibition 30minutes</b>		
<b>10.40</b>	<i>1.Content led break out rooms</i>	<i>2.Delegates who wish to meet can be matched by interest and are able to connect via video chat for 2 minutes. Contact details can be exchanged for further conversations.</i>	<i>3.Virtual exhibition. Download information, watch recordings and meet company representatives via video and text chats.</i>
<b>11.10</b>	<b>Why human aspects of maintenance must be fed into the design lifecycle</b> <ul style="list-style-type: none"> <li>Exploring the link between Human Factors, Operations and Maintenance during the design lifecycle of nuclear new builds</li> <li>Lessons learnt from recent nuclear new build projects and existing operational plants</li> </ul> <b>Helen Jones, ONR HF Specialist inspector on Hinkley Point C</b>		

11.35	<b>Regulatory expectations for safety and cyber security in assessment of CBSIS</b> <ul style="list-style-type: none"> <li>• ONR's approach to regulation of safety and cyber security of CBSIS;</li> <li>• Practical assessment of cyber security vulnerabilities in CBSIS designs;</li> <li>• Developing methodologies and links to relevant TAGs, SAPs and SyAPs.</li> </ul> <b>Colin Griffiths</b> , Principal Nuclear Security Inspector and <b>Tim Parkes</b> , Principal Nuclear Safety Inspector, <b>Office for Nuclear Regulation (ONR)</b>		
12.00	<b>Q&amp;A and final remarks of the day</b>		
12.10	<b>End of day1</b>		
<b>Day 2</b>	<b>Welcome back and poll</b>		
09.00	<b>Laura Ryan</b> , CE&I Security in Design Capability Lead <b>Sellafield &amp; Chair of IET Nuclear Technical Network</b>		
	<b>Developments in cyber security</b>		
09.10	<b>Overview of the National Cyber Security Centre Cyber Security in the Civil Nuclear Sector</b> <ul style="list-style-type: none"> <li>• Understanding the key Threats, Risks and Mitigations</li> <li>• NCSC guidance and advice</li> </ul> <b>National Cyber Security Centre</b>		
09.35	<b>Cyber Security for civil nuclear facilities</b> <ul style="list-style-type: none"> <li>• Threat assessment for civil nuclear operators</li> <li>• Vulnerabilities in physical and digital security</li> <li>• Managing the security of legacy systems</li> <li>• Controlling procurement and the supply chain</li> </ul> <b>Chris Johnson</b> , <b>Queen's University Belfast</b>		
10.00	<b>Comfort break 10 minutes</b>		
10.10	<b>ICS/OT Ransomware in the Supply Chain: Learnings from attacks in 2020</b> <ul style="list-style-type: none"> <li>• 2020 was not a good year for cyberattacks on industrial control systems (ICS) and operational technology (OT) networks:</li> <li>• Nine attacks shut down physical operations at industrial sites all were targeted ransomware.</li> <li>• Learn about the emerging representative and credible threats for 2021 and beyond pervasive threats that all ICS / OT security teams should consider going forward. This discussion will include evaluation of defensive strategies and their efficacy at protection.</li> </ul> <b>Mike Firstenberg</b> , Director, <b>Waterfall Security Solutions Ltd</b>		
	<b>Networking and exhibition 30minutes</b>		
10.35	<i>1.Content led break out rooms</i>	<i>2.Delegates who wish to meet can be matched by interest and are able to connect via video chat for 2 minutes. Contact details can be exchanged for further conversations.</i>	<i>3.Virtual exhibition. Download information, watch recordings and meet company representatives via video and text chats.</i>

	<b>Operational developments at existing plants</b>
<b>11.00</b>	<p><b>Model Based System Engineering benefits to nuclear safety</b></p> <ul style="list-style-type: none"> <li>• Effectively conveying safety substantiation using MBSE</li> <li>• Visualising interfaces and reducing integration risk of digital control systems</li> <li>• A step towards fully electronic safety cases</li> </ul> <p><b>David McNaught</b>, Group Leader - Technology Management &amp; <b>Simon White</b>, Group Leader - Electrical, Control &amp; Instrumentation, <b>Frazer-Nash Consulting</b></p>
<b>11.25</b>	<p><b>Digital Transformation for Plant Availability</b></p> <ul style="list-style-type: none"> <li>• Lessons learned from Aerospace in analytics</li> <li>• Using data to better inform maintenance intervals and pre-empt failures</li> <li>• Data quality and its effects on your decisions</li> </ul> <p><b>Paul Reynolds</b>, PWR 1 &amp; 2 Assistant Chief Engineer - Electrical, <b>Rolls Royce Submarines</b></p>
<b>11.50</b>	<b>Q&amp;A and final remarks</b>
<b>12.10</b>	<b>End of day2</b>