

## 2017 Joint EPRI/NRC-RES Fire PRA Workshop, Module III – Fire Analysis

Task Number	Task Title	Updates Summary
Task 1	Plant Boundary Definition and Partitioning	No updates since NUREG/CR-6850
Task 6	Fire Ignition Frequencies	<p><b>Supplement 1 to NUREG/CR-6850 (EPRI 1019259):</b></p> <ul style="list-style-type: none"> <li>• Published in 2010</li> <li>• FAQ 06-0016- Counting guidance for electrical cabinets</li> <li>• FAQ 06-0017- Counting guidance for high energy arcing faults</li> <li>• FAQ 06-0018- Counting guidance for main control board</li> <li>• FAQ 07-0031- Miscellaneous counting guidance clarifications</li> <li>• FAQ 07-0035- Counting guidance for high energy arcing faults on bus ducts</li> <li>• FAQ 08-0042- Propagation of fires from electrical cabinets/Well sealed panels</li> <li>• FAQ 08-0048- Generic fire ignition frequencies</li> </ul> <p><b>Additional FAQs:</b></p> <ul style="list-style-type: none"> <li>• FAQ 13-0005- Counting and modeling of SICF and CFW</li> <li>• FAQ 13-0005- Counting and modeling of Junction Boxes</li> <li>• FAQ 14-0008- Clarification on counting the main control board</li> <li>• FAQ 12-0064- Influence factors for transient and hotwork fires</li> </ul> <p><b>NUREG-2169 / EPRI 3002002936:</b></p> <ul style="list-style-type: none"> <li>• Published in 2014</li> <li>• New generic frequencies</li> </ul>

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Task Number	Task Title	Updates Summary
Task 8	Scoping Fire Modeling	<p><b>Supplement 1 to NUREG/CR-6850 (EPRI 1019259):</b></p> <ul style="list-style-type: none"> <li>• Published in 2010</li> <li>• FAQ 08-0043- Location of fires within electrical cabinets</li> <li>• FAQ 08-0044- Main feed water pump oil spills</li> </ul> <p><b>Additional FAQs:</b></p> <ul style="list-style-type: none"> <li>• FAQ 14-0009- Treatment of well-sealed MCCs</li> </ul> <p><b>NRR Closure Memo</b></p> <ul style="list-style-type: none"> <li>• June 21, 2012, ML12171A583</li> <li>• New severity factors for pump/oil fires</li> </ul> <p><b>NUREG-2178 / EPRI 3002005578</b></p> <ul style="list-style-type: none"> <li>• New heat release rate probability distributions for electrical cabinets</li> <li>• Obstructed plume</li> </ul>

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Task Number	Task Title	Updates Summary
Task 11a	Detailed Fire Modeling/Single Compartment Analysis	<p><b>Supplement 1 to NUREG/CR-6850 (EPRI 1019259):</b></p> <ul style="list-style-type: none"> <li>• Published in 2010</li> <li>• FAQ 07-0035- Zone of influence for high energy arcing faults on bus ducts</li> <li>• FAQ 08-0042- Propagation of fires from electrical cabinets/Well sealed panels</li> <li>• FAQ 08-0043- Location of fires within electrical cabinets</li> <li>• FAQ 08-0049- Cable tray fire propagation</li> <li>• FAQ 08-0046- Incipient fire detection system</li> <li>• FAQ 08-0050- Manual suppression probabilities</li> <li>• FAQ 08-0050- Transient fire heat release rate growth profile</li> </ul> <p><b>Additional FAQs:</b></p> <ul style="list-style-type: none"> <li>• FAQ 13-0004- Modeling treatment for sensitive electronics</li> <li>• FAQ 13-0005- Counting and modeling of SICF and CFW</li> <li>• FAQ 13-0006- Counting and modeling of Junction Boxes</li> <li>• FAQ 14-0009- Treatment of well-sealed MCCs</li> </ul> <p><b>NUREG &amp; EPRI Publications</b></p> <ul style="list-style-type: none"> <li>• NUREG 1805 Supplement 1 (2013)</li> <li>• NUREG/CR-7010 Vol 1, FLASH-CAT Model for cable fire HRR (2012)</li> <li>• NUREG/CR-6931, Vol. 3, THIEF Model for cable heating (2007)</li> <li>• NUREG 1934 / EPRI 1023259 - Fire Modeling Users Guide (2012)</li> <li>• NUREG 1824 / EPRI 1011999 - Fire Modeling Verification and Validation (2007)</li> <li>• NUREG 1824 Supplement 1 / EPRI 3002002182 - Fire Modeling Verification and Validation (2016)</li> <li>• EPRI 3002000830 - FIVE Rev 2 (2014), Updated &amp; new spreadsheets</li> <li>• NUREG-2169 / EPRI 3002002936 (2014), New manual suppression probability curves</li> </ul> <p><b>NUREG-2178 / EPRI 3002005578, RACHELLE FIRE</b> New heat release rate probability distributions for electrical cabinets and treatment for obstructed fire plumes</p> <p><b>NUREG/CR-7197, HELEN FIRE</b>, Electrical cabinet heat release rate tests</p>

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Task Number	Task Title	Updates Summary
		<b>NUREG-2180, DELORES FIRE</b> Treatment of incipient detection systems
Task 11b	Detailed Fire Modeling/Main Control Room Analysis	No updates since NUREG/CR-6850 on the fire modeling guidance. Ongoing research on modeling control room abandonment scenarios from human reliability/plant response model perspective.
Task 11c	Detailed Fire Modeling/Multi Compartment Analysis	No updates since NUREG/CR-6850
Task 13	Seismic Fires Interactions Assessment	No updates since NUREG/CR-6850
Tasks 1, 6, 8, 11, 13	ASME/ANS RA-Sa-2009	Fire PRA Standard