



Industry Fire PRA Realism Priorities

NRC Fire PRA FAQ Meeting

April 13, 2016

Overview

- Industry proposed many potential efforts to improve Fire PRA realism at November public meeting
- NRC provided valuable feedback
- Industry proposes pursuing all NRC-identified high priority items in 2016
- Additional efforts are also near completion

Very Near Term Work

- Methods Panel review of 2015 EPRI report
 - Topics
 - Liquid/oil spills
 - Wall and corner effects
 - Transient fire propagation parameter
- Finalization of VEWFDS (incipient detection) report
 - Workshop April 26

Proposed for Work in 2016

- RACHELLE-FIRE follow-on
 - Topics
 - Obstructed radiation
 - Fire growth profile timing
 - Cabinet to cabinet fire propagation
 - Pump and motor HRR
 - Cooperative with NRC-RES
 - Joint NUREG/EPRI Report
- Transient fires/HRR methodology
 - EPRI leading effort with NRC-RES participation
 - Kickoff set for June 8-10

Proposed for Work in 2016

- Control room abandonment
 - Joint NUREG/EPRI report nearing completion
 - ACRS discussion scheduled for May 4
 - Public discussion meeting in mid-May
- Fire growth modeling/Bin 15
 - Scope of fire growth modeling report can likely address NRC issue with Bin 15
 - EPRI working on conceptual paper
 - More realistic depiction of likelihood and risk significance of scenarios in response to fires terminated early in their growth
 - Accounts for the potential for more severe and risk significant fires to develop

Proposed for Work in 2016

- Fire PRA FAQs
 - HEAF suppression curve
 - Reviewing domestic and international fire event data
 - Ignition criteria for cable trays
 - Based on existing analysis and previous testing