NRC/Industry Workshop on Improving Fire PRA Realism
October 3-5, 2017

Objectives

- To develop a common understanding of NRC and industry priorities on research work for 2018-2023 to enhance realism in plant fire PRAs.
- To highlight specific conservatisms driving results in plant Fire PRAs to better understand challenges.
- To identify potential approaches for prioritized research.
- To identify approaches to documentation of Fire PRA method improvements.

Guiderails

- Both NRC and industry desire to move forward and use constrained resources in a reasonable and prudent manner to advance nuclear safety and reliability.
- The workshop is intended to identify research which needs to be done, along with relative priorities for this research. The objective is to identify topics meriting additional research; extensive debate focusing on past conflicts or presupposing future research findings are unproductive and should be avoided.
- Sensitivity studies are done to highlight the quantitative impacts of certain parameters on the fire PRA results; it is unproductive to belabor the bases for these, as future research will support the eventual conclusions. Discussions on the bases for the sensitivity studies should be limited during the workshop.
- Realism is best achieved when focus is given to the full spectrum of scenarios; therefore, scenarios under discussion should be reasonably likely (e.g., estimated to be $> 10^{-5}$); Risk informed decisions are preferred, building on deterministic and defense in depth decisions.
- The focus of the workshop is on what research is needed to support licensing and other regulatory functions; plant-specific licensing actions and oversight are out of scope.
- Remain focused on a given conservatism under discussion during a specific agenda topic.
- While singular events provide insights, undue discussion on singular events is unproductive for the purposes of this workshop.