



Discussions on the Recommendations from the ACRS Concerning the Transition to NFPA 805

**Industry, NEI, NRR\DRA,
NRR\DORL, RES\DRA, &
Concerned Stakeholders
April 14, 2011**

ACRS Recommendation # 1

- The staff should consider establishment of a mutually-agreed-upon firm schedule for sequential submittals of license amendment requests for transition to the risk-informed licensing framework under 10 CFR 50.48(c).

ACRS Recommendation # 2

- Uncertainties should be quantified and propagated through the fire PRA models according to current state-of-the-practice methods and guidance.

ACRS Recommendation # 3

- The quantified risks from fires and internal events should be combined to develop an overall plant risk profile. Post-transition analyses of the changes to the risk from fires, the risk from internal initiating events, and the overall plant risk should be made to provide a balanced assessment of these contributions.

ACRS Recommendation # 4

- The updated fire events database should consistently account for plant-to-plant variability in the available operating experience as a distinct contribution to uncertainties in the fire ignition frequencies. Efforts should be expedited to develop data for “component-level” fire ignition frequencies, rather than the currently applied “plant-level” frequencies.

ACRS Recommendation # 5

- Caution is warranted regarding expectations that in-progress efforts to enhance the industry fire events database will result in significant reductions in the quantified risk from electrical cabinet fires. Those efforts will improve the overall experience base and understanding of these fires, and they should continue to completion. However, other initiatives and research are needed to address this technical issue in a more integrated manner.

ACRS Recommendation # 6

- The general category of "electrical cabinets" in NUREG/CR-6850 should be subdivided into functional subgroups that can consistently account for fire ignition frequencies, potential fire severities, typical characteristics of plant locations, and potential risk consequences. Results and engineering insights from the completed pilot plant studies and in-progress PRAs should be used to guide the definitions of these groups.

ACRS Recommendation # 7

- The NRC should encourage industry to expedite active engagement of the senior technical review and oversight group to facilitate consistent interpretation and application of focused modeling techniques or methods that have generic applicability to multiple plants. The staff should facilitate efficient reviews of departures from the guidance in NUREG/CR-6850 and communicate interim technical positions on issues that may have generic applicability.

ACRS Recommendation # 8

- The staff should continue current initiatives for collaboration and coordination of research. Research priorities should be established by demonstrated needs to support specific refinements to PRA methods, models, and data that have the most potential benefit for the largest number of stakeholders.