



EPRI

ELECTRIC POWER
RESEARCH INSTITUTE



Fire PRA Methods Expert Review Panel



April 14, 2011



Rick Wachowiak

Sr Project Manager,

Risk and Safety Management



Purpose

- Extension of peer review process
- Provide consistent and thorough technical review
- Identify limits of application
 - Including discrimination of capability category
- Help the utility to justify deviations from 6850

More options for scenario specific issues

Makeup of Panels

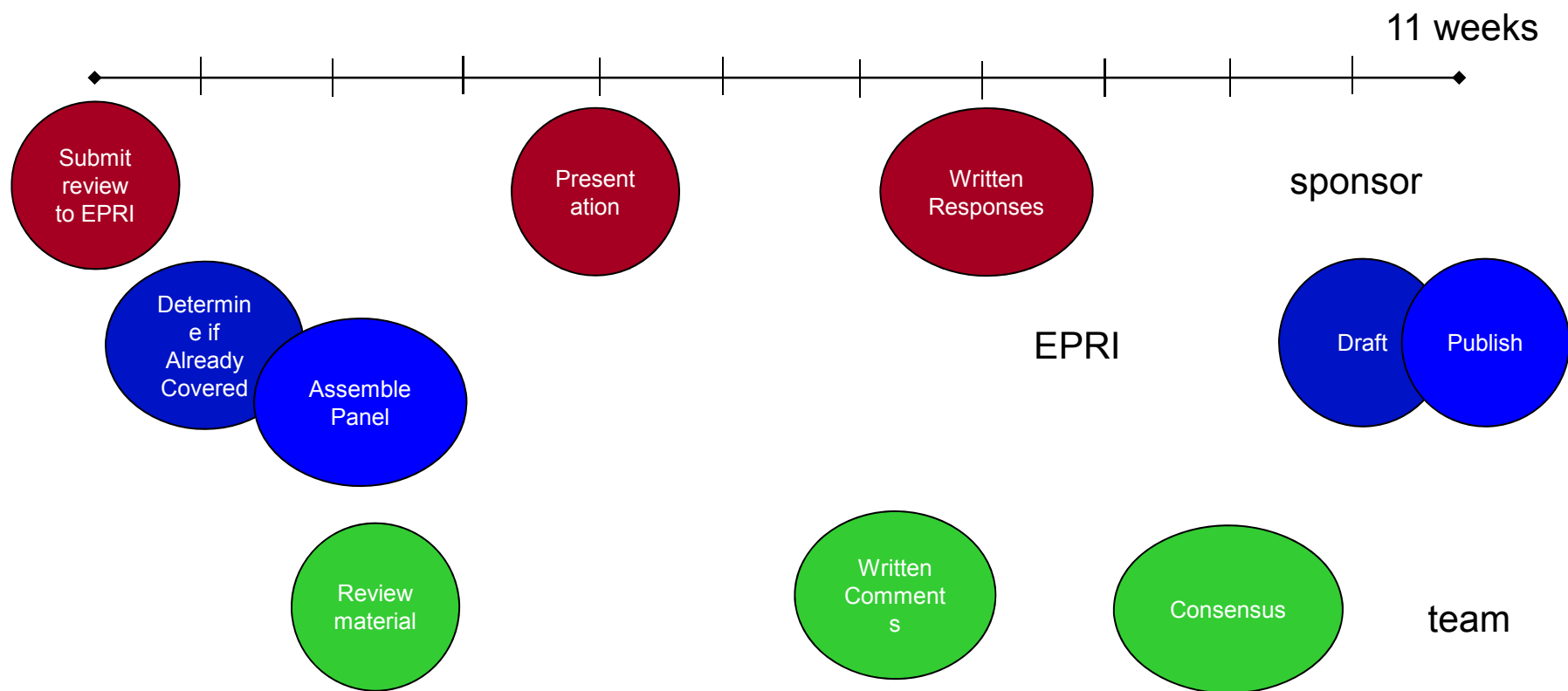
- Owner's Groups
 - Utilities
 - NRC
 - Consultants
-
- Mix of expertise
 - 6 – 10 members

Expertise Matches the Subject of Review

Review Scope

- Accuracy – gives reasonable results
- Usability – can be implemented
- Interface – how to interface with other tasks
- Limitations – when you can and can't use
- Capability Category – are there different levels

New Methods Schedule



Ideal schedule

Submittal Content

- Title of Method
- Sponsor Information
- Methodology has been implemented in varying degrees at:
- Use of method
- Necessity
- Description
- Limitations of Applicability
- Need Date
- Peer Review Comments
- Suggested Expertise of Reviewers
- Example
- References
- Attachments

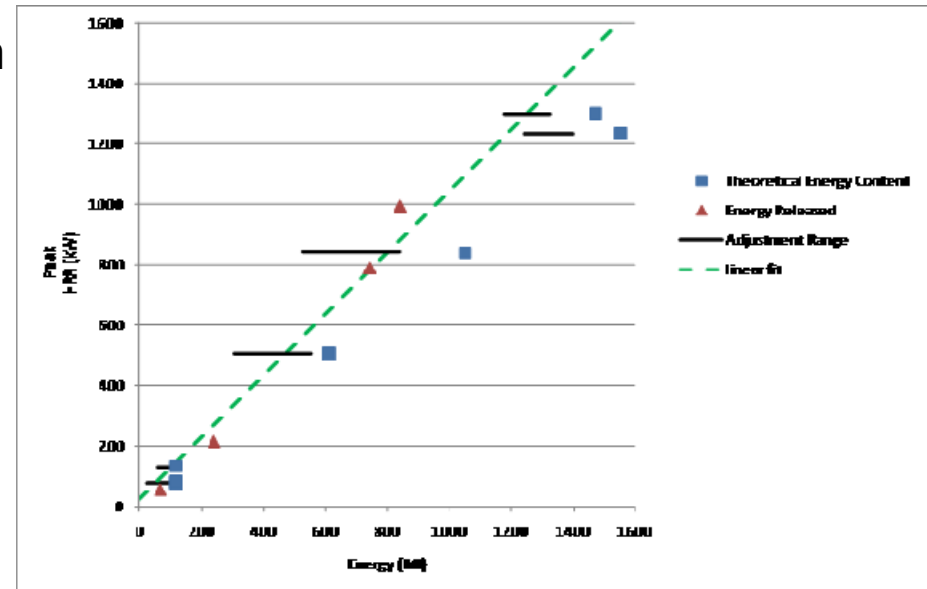
Ground Rules

- Nothing proprietary
 - Information is confidential during the reviews
- Written comments
 - Expectation that comments and responses will be public
- Keep up with the schedule
- Final product will be an EPRI public document

Vertical Electrical Cabinet Heat Release Rate

- Purpose of study: Re-evaluate the heat release rates (HRRs) of cabinet fires recommended for use in NUREG/CR-6850 (Table G-1)
- Scope limited to:
 - Vertical cabinets
 - No consideration of external influences, or of fire propagation to other cabinets
 - No consideration of fire duration
- Model developed to characterize potential HRR for cabinet fires

Next Draft – End of April 2011



Electrical Cabinet HRR Panel Makeup

- PWROG – Clarence Worrell
- BWROG – Dennis Henneke
- EPRI – Sean Hunt
 - Bob Bertucio
 - Kiang Zee
- Utilities – Dave Miskiewicz
- NRC – Ray Gallucci

ERIN Alignment Factors

- Hot Work Fire Frequency Alignment Factor
- Pump Oil Fire Frequency Alignment Factor
- Transient Fire Frequency Alignment Factor
- Electrical Cabinet Fire Frequency Alignment Factor
- Many in use at utilities
- F&O from peer reviews on some

Kickoff Meeting 4/11/2011

Electrical Cabinet HRR Panel Makeup

- PWROG – Clarence Worrell
- BWROG – Dennis Henneke
- EPRI – Sean Hunt
 - Bob Bertucio
 - Paul Amico
- Utilities – Rob Cavedo
- NRC – Ray Gallucci

Summary

- Process in its shakedown run
- Will be adjusted as we get through it
- More methods expected
- MOU reports would not go through process
- Reviewer support is key to the process



Together...Shaping the Future of Electricity