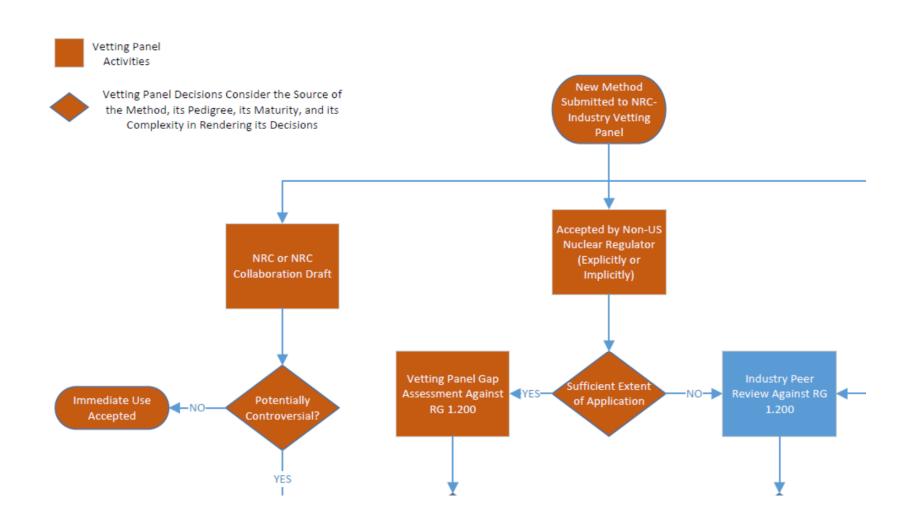
Objective 1: Making PRA Methods Available for Regulatory Application

- Industry led development of white paper outlining several options for making PRA methods available for use in regulatory applications
- Option to be used based on attributes of methods
- Discussed at September public meeting
- Determined need for a joint industry-NRC "vetting panel" to ensure that methods were reviewed using correct process

Vetting Panel

- An Industry/NRC panel of experts who will determine the process for making each new PRA methods available for use.
 - Consists of very experienced, senior experts
 - Broad knowledge of PRA technical areas and existing methods.
 - Well-versed on the ASME/ANS PRA standards
 - Past experience in methods development, with full understanding of how methods development is done.
 - Will not conduct detailed technical reviews, but rather will decide the extent of review required for putting a new method on the street.
 - Will need to be insightful and flexible fit the solution to the problem.

Illustrated Process (Partial)



Process Options

- Vetting panel will one choose from 8 options (6 primary and two variations) for each method submitted.
 - 1. Usage acceptable immediately upon issuance of draft method.
 - Usage acceptable immediately upon conclusion of comment period on draft method.
 - 3. Usage acceptable immediately upon resolution of industry/NRC comments.
 - 4. Usage acceptable immediately following gap assessment against requirements of RG 1.200.
 - a) For non-nuclear methods, add applicability assessment
 - Usage acceptable immediately following peer review of method.
 - a) For non-nuclear methods, add applicability assessment
 - Usage acceptable immediately following Industry/NRC methods panel consensus.

Process Option Selection Criteria

- Vetting panel will balance available options using a number of considerations.
 - Source of method: Refers to the "lead" organization in the development of the method.
 - Pedigree of method: Refers to the extent to which the method has been reviewed/accepted.
 - Maturity of method: Refers to the extent to which the method has been applied.
 - Complexity of method: Refers to the extent to which the method is or is not intuitive or obvious, and the extent to which it is multi disciplinary

Process Option Selection Criteria

- Considerations will be looked at holistically to select the appropriate process.
 - Is the method controversial? Whether the method is sufficiently robust and balanced that it is unlikely to result in significant technical comments that result in major changes to the method.
 - Is the extent of application sufficient? Whether the method is proven enough in application to provide a level of comfort that it is robust, stable, and valid; that there are unlikely to be hidden traps or snares.
 - Is the credibility sufficient? The overall rigor of the development of the method (e.g., inclusiveness, quality assurance, checking)

Process Options Vs. Method Source

Group	Description	Available Process Options
Α	NRC or NRC-Collaboration.(Note: Including collaborations with industry; e.g., MOU)	1, 2, 3
В	Accepted by Non-US Nuclear Regulator (Explicitly or Implicitly). (NOTE: While not strictly a regulatory agency, methods developed or accepted by the IAEA would fall here.)	4, 5
С	Peer Reviewed and Published <i>Independent</i> Research for Nuclear Application.	5
D	Peer Reviewed and Published <i>Independent</i> Research for Non-Nuclear Application.	4a, 5a
Е	Peer Reviewed and Published Collaborative Industry Research for Nuclear Application.	4, 6
F	Non-Collaborative Industry Research for Nuclear Application.	6

Post-Vetting Process

- Once the panel chooses the process for the method, it is implemented.
- If the process chosen requires technical review or development, a separate panel of technical experts is assembled
 - Panel size from 2 to 6, depending on complexity of the method.
 - Panel completes work in 1 to 6 months,
 depending on complexity. Can only be extended with concurrence of NRC and NEI RISCs.

Objective 2: Closure of Peer Review Facts and Observations (F&Os)

- NRC developed white paper identifying key issues and proposing several solution options
- Identified pros and cons of each option
- Discussed with industry at September public meeting
- Preferred option to be identified in draft white paper and presented for RISC consideration

Objective 2: Identified Issues

- Many risk-informed applications only include summaries of F&Os and close outs
- Differing regulatory expectations for various riskinformed applications
- Relevance of F&Os and their dispositions given multiple peer reviews
- Variable quality of peer reviews
- Availability of reviewers
- Inappropriate disposition of F&Os as "documentation only"

Objective 2: Solution Options

- Original peer review team close out
- New peer review team close out
- NRC close out
- Independent utility close out
- Hybrid approach of the above

Objective 3: Additional Gaps in Peer Review Guidance

- One issue identified for evaluation
 - Process for verification of peer reviewer qualifications
- Likely to be resolved via minor editions to NEI peer review guidance
- Later endorsed by NRC in RG 1.200 via routine processes