

# ***Near-Term Task Force Recommendation 5.1 Reliable Hardened Vents***

U.S. Nuclear Regulatory Commission  
January 17, 2012

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# *Introduction*

- Welcome
- Administrative Items
  - Please sign in
  - Telephone bridge line participants
  - Slides available via Go To Meeting
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  - Feedback forms
  - Meeting Summary
- Introduction of Meeting Participants

# ***Recommendation 5.1 Project Team***

- Robert Dennig – Technical Lead
- Timothy Collins – Senior Advisor
- Robert Fretz, NRR/JLD – Project Manager
- Jerome Bettel, SCVB
- Nageswara Karipineni, SCVB
- John Lane, RES
- Allen Notafrancesco, RES
- Brian Richter, NRR
- Carrie Safford, OGC
- Aaron Szabo, NRR

# *Agenda*

- Meeting Objective
- NRC Steering Committee Perspectives
- Update Since December 15, 2011 Meeting
- Developing Recommendation 5.1 Requirements
- Regulated Industry Input
- Discussion
- Public Stakeholders' Comments and Questions
- Wrap-up and Closing Remarks

# *Meeting Objective*

- Staff to receive information, comments, and concerns from public stakeholders on:
  - March 2012 order (no filters)
  - Requiring filters on the vents



# ***STEERING COMMITTEE PERSPECTIVE***

# *Update Since December 15 Meeting*

- NRC Steering Committee Guidance
  - Appropriate to modify our approach and prudent to accelerate our schedule
  - Additional information needed on filters, therefore, interim orders will identify this as an issue still under consideration
  - Policy issue on filters will be presented to the Commission in the near-term
  - Licensees should design the reliable hardened vent, in such a way as to not preclude the installation of a filter in the future.
  - Industry input needed.

# *March 2012 Order General Requirements*

- BWR Mark I and Mark II Containments Only
- All actions completed by **March 10, 2015**
- 20-Day Response
  - Unable to comply
  - Compliance would violate current license
  - Adversely impact safe operations
- **90-Day Response**
  - Schedule for achieving compliance
- Final Response
  - Notify NRC when actions completed



# ***March 2012 Order Specific Requirements***

- HCVS Functional (Performance) Requirements
- Schedule – Completion date may be amended if modifications require NRC prior approval (license amendment)

# ***Proposed Performance Requirements for Reliable Hardened Vents***

- The containment venting function should presume the occurrence of significant core damage and the presence of hydrogen.
- The vent should be capable of [passive] operation to limit pressure to the appropriate value, and [active ] operation to permit depressurization at any time, for example to enable low pressure coolant injection into the RPV.

## ***Proposed Performance Requirements for Reliable Hardened Vents (cont.)***

- Operators should be able to vent containment from the wetwell and the dry well using permanently installed equipment under prolonged extended SBO conditions and without undue hazard to personnel.
- *[Venting system should be equipped with a filter to preserve the containment function as a barrier to fission products at all times and facilitate venting decision-making.]*

## ***Proposed Performance Requirements for Reliable Hardened Vents (cont.)***

- Venting system should avoid the use of common systems between units and not interfere with the operation of other safety and non-safety equipment.

# ***Proposed Performance Requirements for Reliable Hardened Vents (cont.)***

- Quality Standards
  - The vent path up to and including the second containment isolation barrier shall be designed consistent with the design basis of the plant (i.e., safety related).
  - Non-safety grade beyond containment isolation barriers.
  - Rugged design – withstand seismic event

Stakeholder Input

# ***REGULATED INDUSTRY APPROACH***

Recommendation 5.1 Requirements

# ***DISCUSSIONS***

Stakeholder Input

***PUBLIC COMMENTS AND  
QUESTIONS FOR NRC STAFF***



Next Steps

# ***MEETING WRAP UP***

*Protecting People and the Environment*

# Next Steps

- Schedule
  - Notation Vote (SECY) Paper – February 17
  - Commission SRM – March 2
  - Issue Order – March 9
  - Filter SECY paper to the Commission for Notation Vote – Summer 2012
- Written comments will be accepted until January 27, 2012
  - [JLD\\_Public.Resource@nrc.gov](mailto:JLD_Public.Resource@nrc.gov)