



BWROG Containment Venting Perspectives

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Regulatory Information
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Overview

Background

BWROG Reliable Hardened Vent (RHV)
Program

Technical Considerations

RHV Design Criteria

Reduction of Potential Radionuclide Release

External Interfaces

Summary

Background

2011 SECY 11-0137 Recommendation 5.1,
“Reliable Hardened Vents”

Fukushima Steering Committee assigned
BWROG as industry lead for issue resolution

Two public meetings between NRC / BWROG
(December 2011, January 2012)

Content of orders reviewed

Orders published March 2012

BWROG RHV Program

Design criteria for Mark I/II containments

Interim Staff Guidance (ISG) due August 2012

Implementation plans due February 2013

Modifications due December 2016 or two outages after February 2013, whatever comes first

Evaluation of design criteria and site specific design

Technical Considerations

Removal of decay heat from containment is the primary function of a containment vent

- RHV involves hardware, procedural direction and potential in-field remote access
- Reactor pressure vessel (RPV) pressure is dependent on containment pressure

RHV design criteria considers most (but not all) containment conditions resulting from beyond design basis events

RHV Design Criteria

In development by BWROG

- Approximately 20 criteria

Criteria pulled from a combination of earlier requirements, Fukushima insights, and March 2012 orders

Criteria will form basis for ISG input and utility implementation plans

Aligned with industry FLEX initiative

Emergency procedural direction incorporated

Reduction of Radionuclide Release

BWROG Working through Fukushima Steering Committee / Building Block (BB) 7

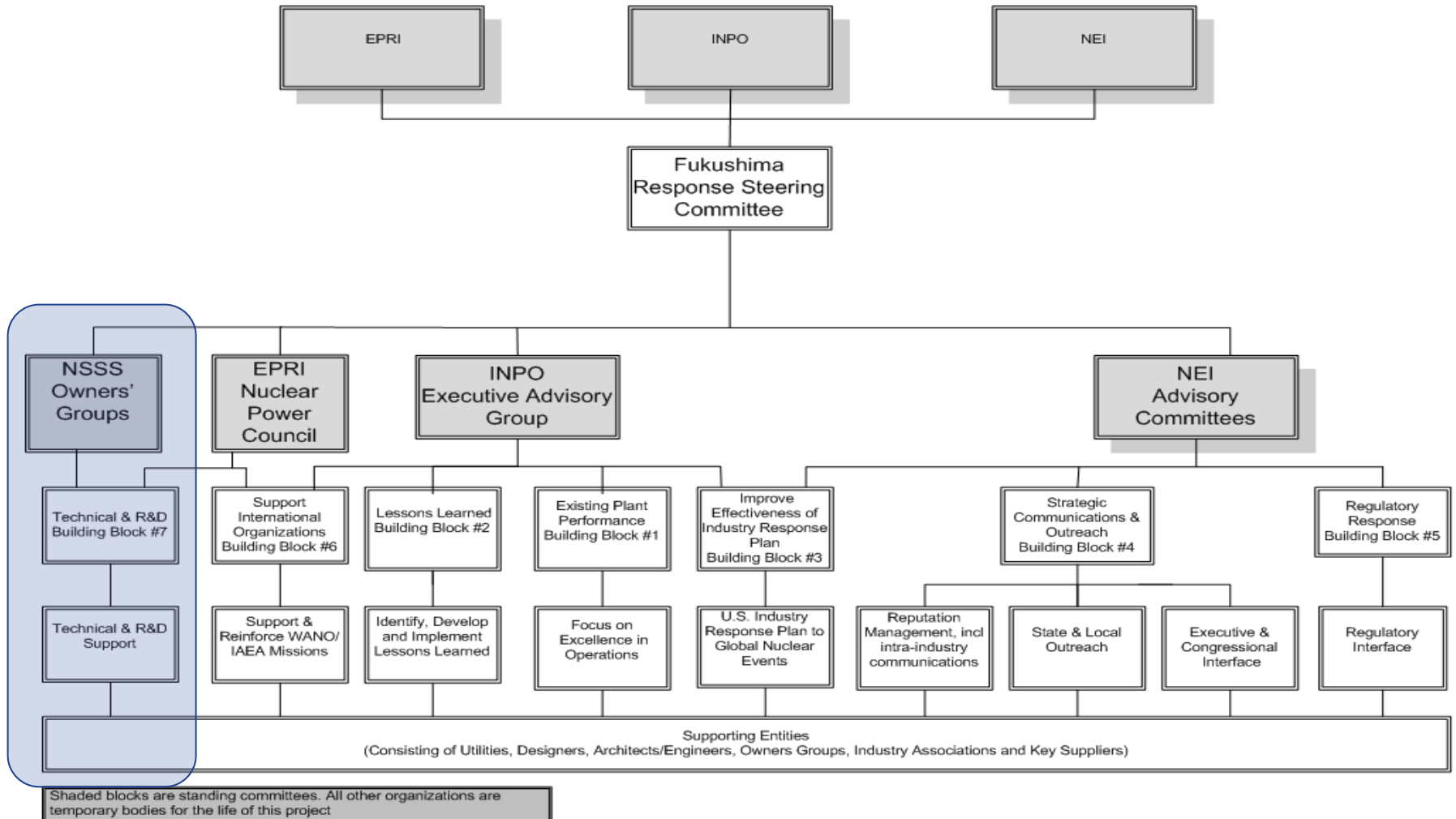
BWROG/Industry white papers addressing alternatives to prevent/reduce radionuclide release

NRC engagement through 2nd Quarter 2012

Potential for additional design criteria development within BWROG

Regulatory decision/input planned - July 2012

External Interfaces



Summary

Developing details associated with RHV design and implementation

RHV design criteria informed by other NTTF recommendation areas

Leading broad industry effort to address reduction of radionuclide release