

BWR MARK I AND MARK II VENTS

Mary Lampert

Pilgrim Watch

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Fukushima lessons

Mark I & Mark II BWR's Require:

- **Rupture disc → 100% passive**
- **Filtered Vent → Protect public health
Ensure operators follow
orders**

FILTERS/RUPTURE DISC

QUESTIONS

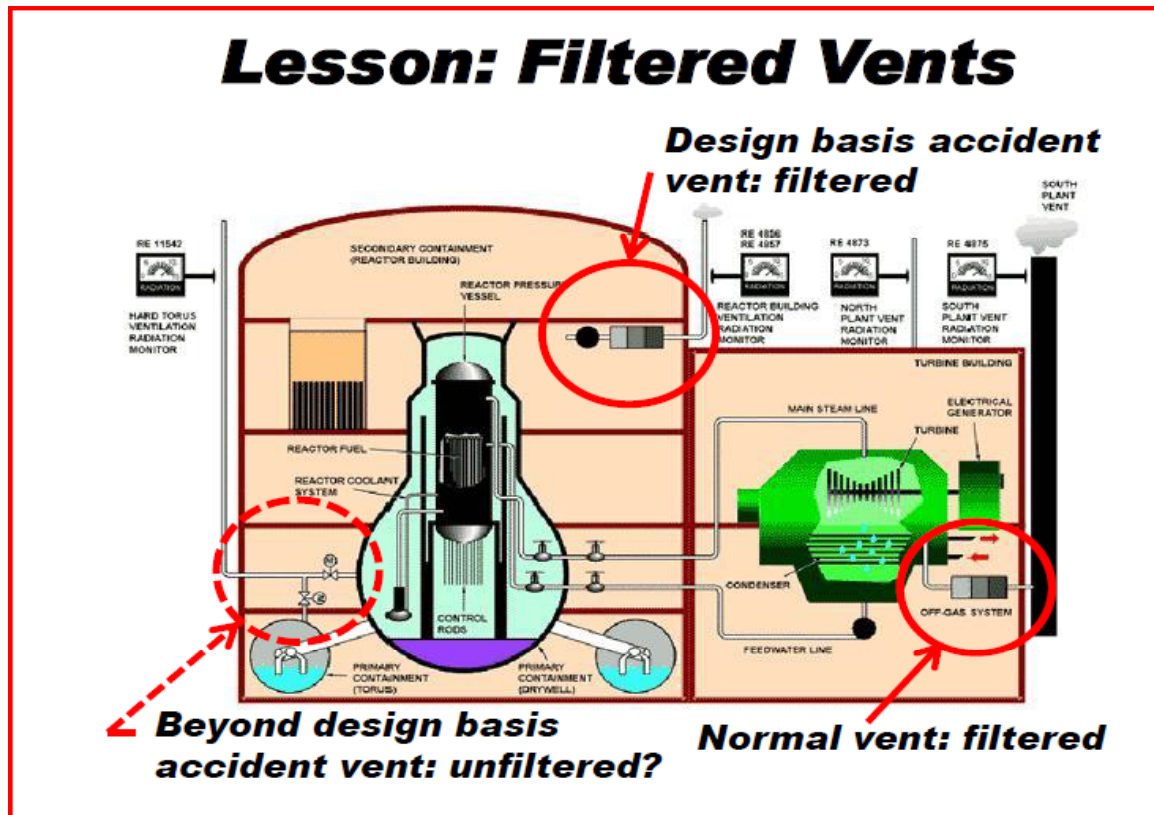
- **How much radiological release is assumed?**
- **Is backpressure an excuse for not installing filters?**
- **How are offsite consequences calculated?**
- **What will the public be told about the analysis and when?**

RUPTURE DISC

**NRC May 2, 2012 Public Meeting:
Robert Dennig (Branch Chief Technical
Staff Containment and Vent Branch
NRR) was asked whether the technical
staff saw any downside to rupture
discs, paired with filters.**

Response, “No.”

How can NRC justify not requiring filtered vent?



Source: Lessons from Fukushima, August 7, David Lochbaum, Union Concerned Scientists

How much radiological release is assumed?

Wetwell Scrubbing vs. Filter

An unfiltered vent releases up to 200 times more radioactivity than do commercially available filtered systems now being used in Europe.

Duration of Release

How long will the vent stay open?

How many times is it vented?

How is NRC Calculating Consequences?



Analysis of Offsite Consequences

QUESTIONS

- **Who is the Analyst – NRC, Sandia, industry?**
- **Tool used - MACCS2?**
- **What lessons learned from Fukushima are incorporated in the model?**
- **What Assumptions and Inputs?**
- **What type of averaging used - 95th percentile or mean?**

MACCS2 UNDERESTIMATES CONSEQUENCES

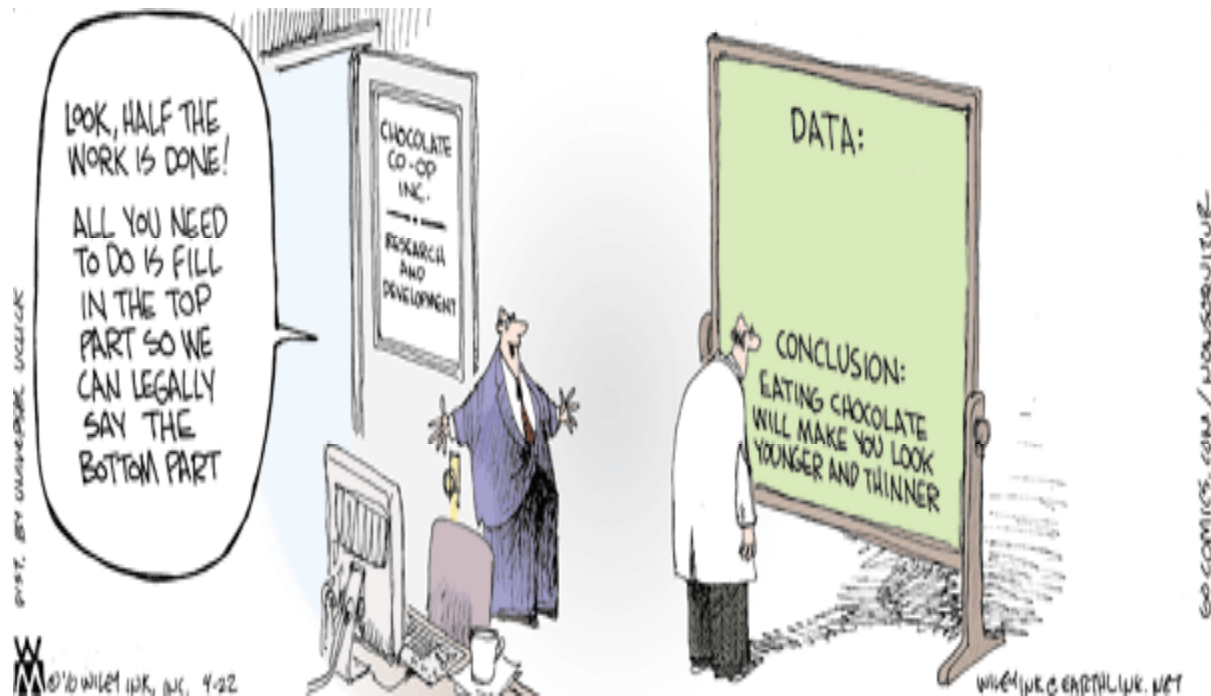
- **Probability of core damage > 10 times that assumed prior to Fukushima**
- **Underestimates Cs-137 release from core**
- **Aqueous discharges not modeled**
- **Duration of accident and release is underestimated**

MACCS2 UNDERESTIMATES CONSEQUENCES

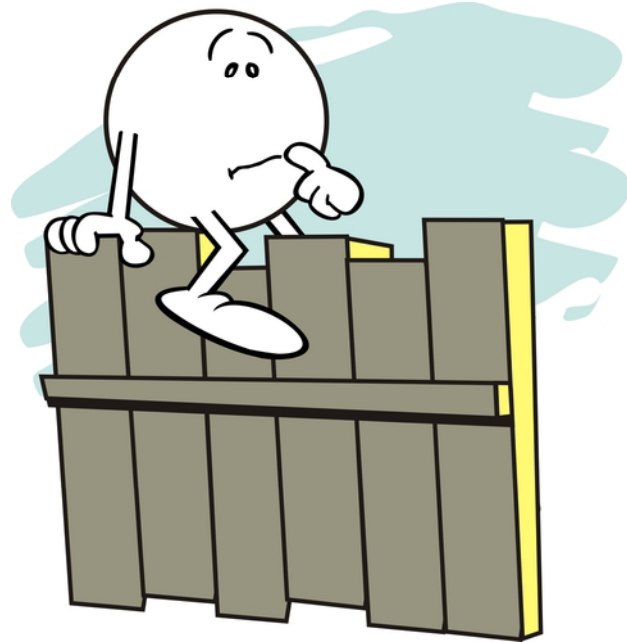
- **Straight-line Gaussian plume model unrealistically limits size of impacted area, particularly if extended release**
- **Cleanup/decontamination costs are underestimated**
- **Underestimates true health and economic costs**
- **Averaging- use of mean underestimates offsite cost**

Public Information

Will the public be shown the data (not just the conclusions) and when?



Whose Side Will NRC Be On?



Protecting the health and safety of American families, or industry's bottom line?