EMERGENCY PREPAREDNESS WHAT'S WRONG?

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FUKUSHIMA'S LESSONS

Wake up Call or Snooze Alarm?



WHAT'S FUNDAMENTALLY WRONG?

1

Rules Lack Specificity Requirements

RULES PROVIDE FLEXIBILITY LACK ACCOUNTABILITY

<u>Capability Based Rules =</u>

- Licensee given flexibility
- Licensee saves money
- · Licensee no real accountability

<u>Performance Based Rules</u> =

- Enforceable/Accountability
- Public Safety First

WHAT'S FUNDAMENTALLY WRONG?

#2
What Rules Do Not Address

Until the basic issues are facedno "reasonable assurance"

EMERGENCY PLANNING ZONE 20/25 MILES

- NRC advised U.S. citizens in Japan within 50 miles to evacuate
- NRC says advice was an ... "ABUNDANCE OF CAUTION"
- Why not the same "ABUNDANCE OF CAUTION" for citizens here?

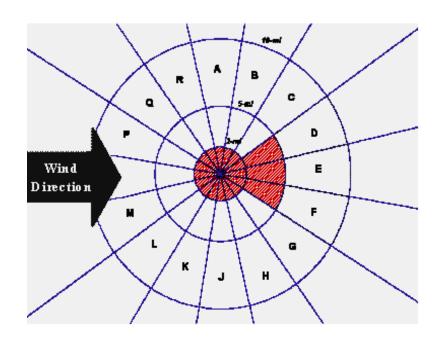
DOSE PROJECTIONS What's Wrong?

Likely Amount & Impact Radiation Released Minimized

- PAGs not based on BEIR VII
- · Large accidents ignored, e.g.
 - >spent fuel pool fire
 - >hydrogen explosions
 - >core or containment breach
 - >more than 1% fuel failure

PLUME MODELING What's Wrong?

Key Hole



PLUME MODELING

What's Wrong?

 Plume modeling based simplistic straight-line, Gaussian plume; not suited for complex sites (nontemporal, non-spatial)

What's Needed?

 Advanced variable models and multiple meteorological towers for both pre-planning & response

NOTIFICATION What's Wrong?

Require Multiple Redundant Systems & Backup

- Sirens- outdoor alert
- Reverse 911- indoor alert
- Electronic Reader Boards
- Emergency Alert System

PROTECTIVE ACTIONS EVACUATION

What's Wrong?

- Reception Centers equipped for only 20% population.
 Where will 80% get monitored, decontaminated, serviced?
- "Shadow Evacuation" ignored
- ETEs based "best case" scenario

RADIOLOGICAL PROTECTION

POTASSIUM IODIDE (KI):

- -support stockpiling to 20 miles (bioterrorism act, 2002)
- -require both tablets & liquid KI for young children

3-M TYPE MASKS:

- require stockpiling both adult & children's sizes in schools/shelters

EMERGENCY WORKERS

What's Wrong?

- <u>Communications</u>: Require interoperability
- Protective Gear: Require protective clothing/masks & training for its use
- <u>REWMDs</u>: Radiological Emergency Worker Monitoring Decontamination Centers - require multiple centers per EPZ, located > 20 miles from reactor

RETURN & RECOVERY

What's Wrong?

- No Agreed Clean-Up Standard
- No Federal Agency In Charge
- No Money- Price Anderson pays damages, not clean-up
- MACCS2 (MELCOR Accident Consequence Code System) is used but outdated – code severely underestimates offsite costs