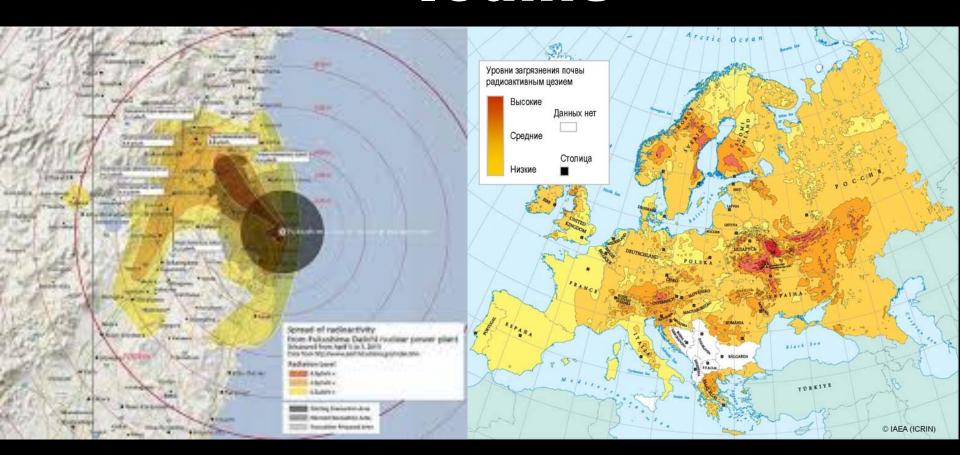
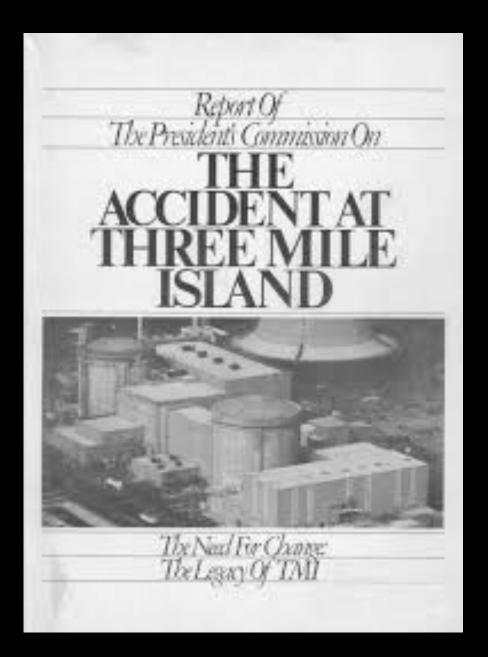
Lessons for U.S. Emergency Planning from Chernobyl and Fukushima 131 | Odine



Paul Gunter, Reactor Oversight Project Beyond Nuclear

Radioactive iodine from nuclear accidents & sabotage

- ¹³¹ iodine radioactive half-life of 8 days
- Can be filtered out of containment venting at reactors to reduce uncontrolled radioactive releases to the environment
- Effective prophylactic protection of the thyroid gland is available to civil society with potassium iodide (KI)



The lesson was learned in 1979 at Three Mile Island



The lesson relearned April 26, 1986 and September 11, 2001





The lesson relearned March 11, 2011 at Fukushima

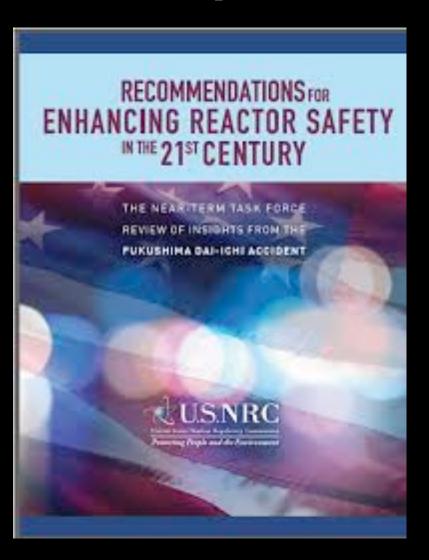


Widespread population exposure to radioactive iodine and other radioactive isotopes

100% containment failure rate for GE Mark I boiling water reactor containment system



A Lesson Unlearned for the United States: NRC failure to act on flawed containments to require filtered containment vents



NRC Japan Lessons
Learned Task Force
recommends Order for
Filtered Containment Vents
on 31 U.S. reactors

Industry opposes on grounds of cost

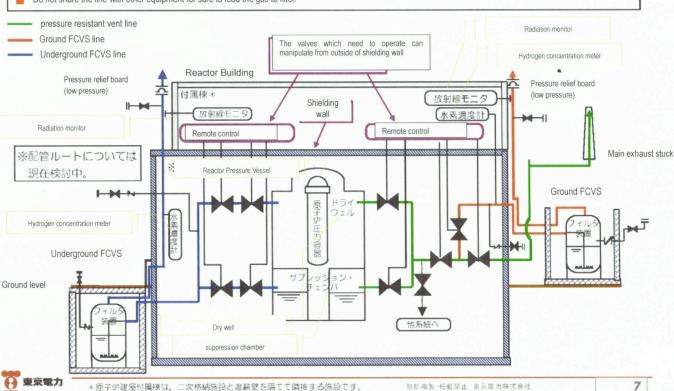
Commission rejects requiring installation of radiation filters on containment vents

Japan requires Filtered Containment Vents

Overview of ground and underground filter vent equipment

地上式及び地下式フィルタベント装置の概要について

- Ground FCVS lead vent line from pressure resistant vent line (underground FCVS leads directly from containment vessel), then decrease radioactive material then vent it from the roof of reactor building.
- The valves which need to operate can manipulate from outside of shielding wall during accident.
- Do not share the line with other equipment for sure to lead the gas to filter.



A Lesson Unlearned for the United States: NRC Failure to Act on Effective Prophylactic Protection with Potassium Iodide (KI)



As recommended by ATA,

Pre-distribution by direct delivery to every resident within the radius of 50-miles of nuclear reactors

Stockpiling hospitals, police stations and fire departments within a radius of 200-miles of nuclear reactors

Nuclear "Regulatory Capture"

