



EPA Role in Nuclear Power Plant Regulation and Oversight



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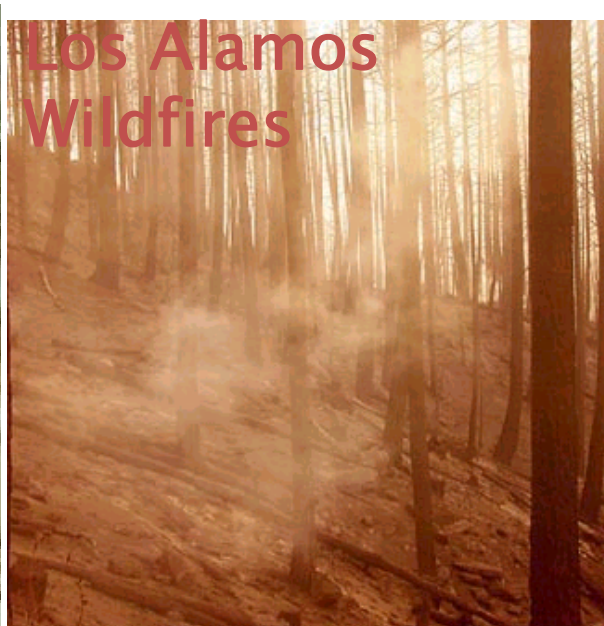
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Radiation Protection at EPA

- ▶ EPA is the Federal agency mandated to protect human health and the environment.
- ▶ Major activities:
 - Homeland security/ emergency response
 - Public protective action recommendations
 - Cleanup/waste management
 - Emissions regulation
 - RadNet
 - Science and technology
 - Information and outreach

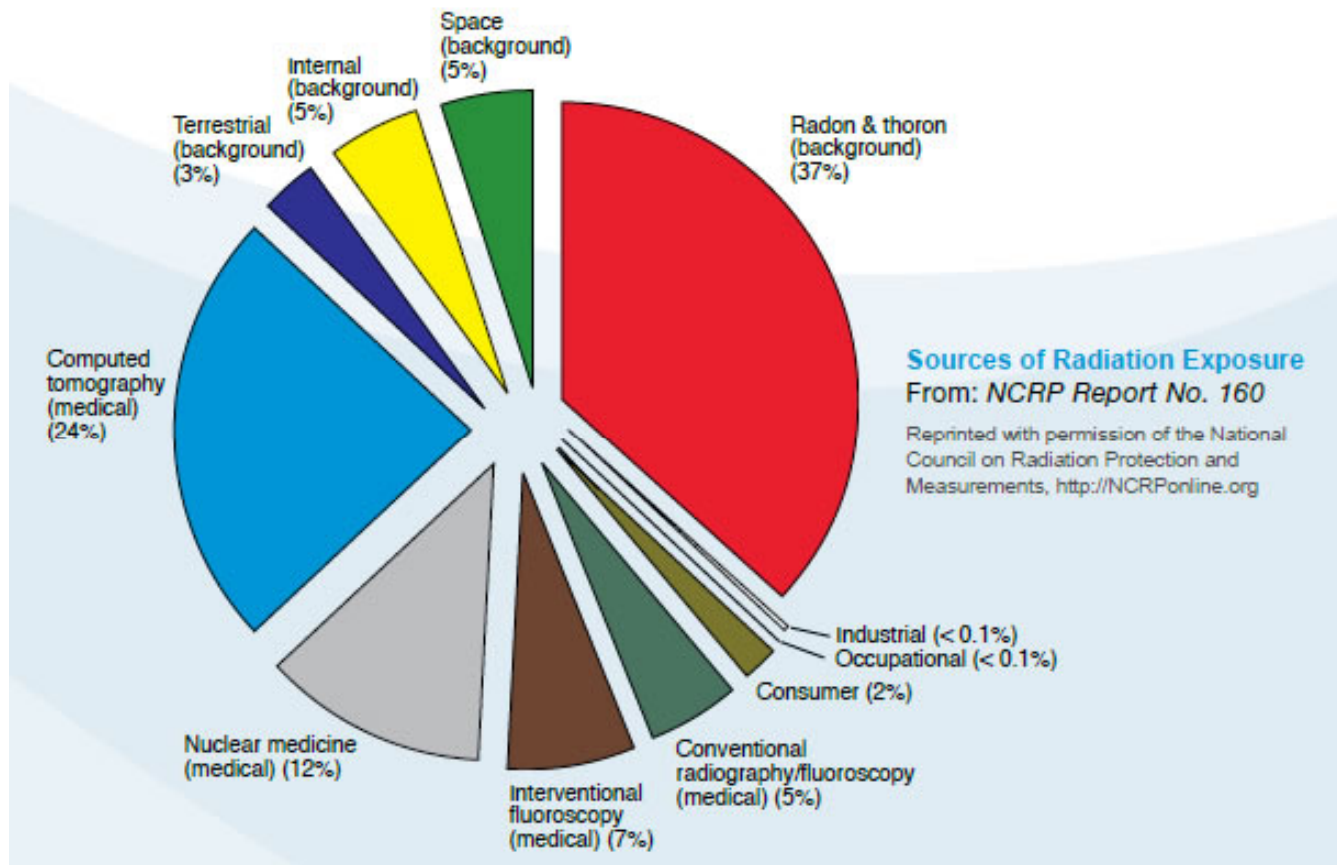


Types of Radiological Incidents and Emergencies



- ▶ Nuclear facility accidents
- ▶ Nuclear weapon and device accidents
- ▶ Nuclear terrorism
- ▶ Sabotage
- Contaminated imports
- Transportation accidents
- Satellite Reentry
- Orphan sources
- **Foreign incidents**

Putting Fukushima Risk in Perspective



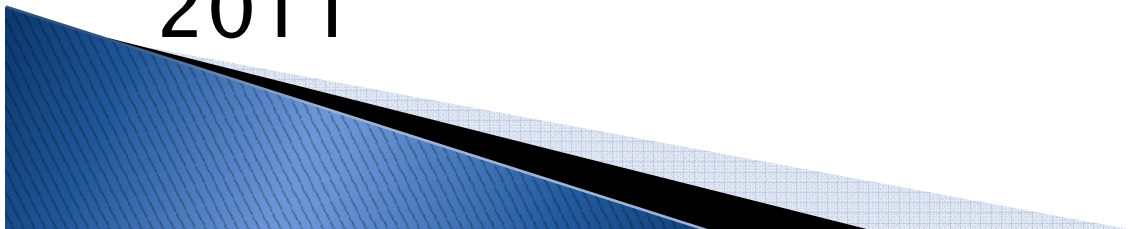
Average annual radiation dose per person in the U.S. is 620 mrem

Calculate your estimated annual radiation dose:

<http://www.epa.gov/radiation/understand/calculate.html>

EPA RadNet System

- Currently, 125 permanent RadNet stations
- Deployable stations set up in Alaska, Hawaii, Guam, and Northern Marianas Islands
- Capable of detecting above background levels, but do not expect any harmful levels
- Real-time data have shown only typical background fluctuations
- For daily RadNet data: www.epa.gov/japan 2011

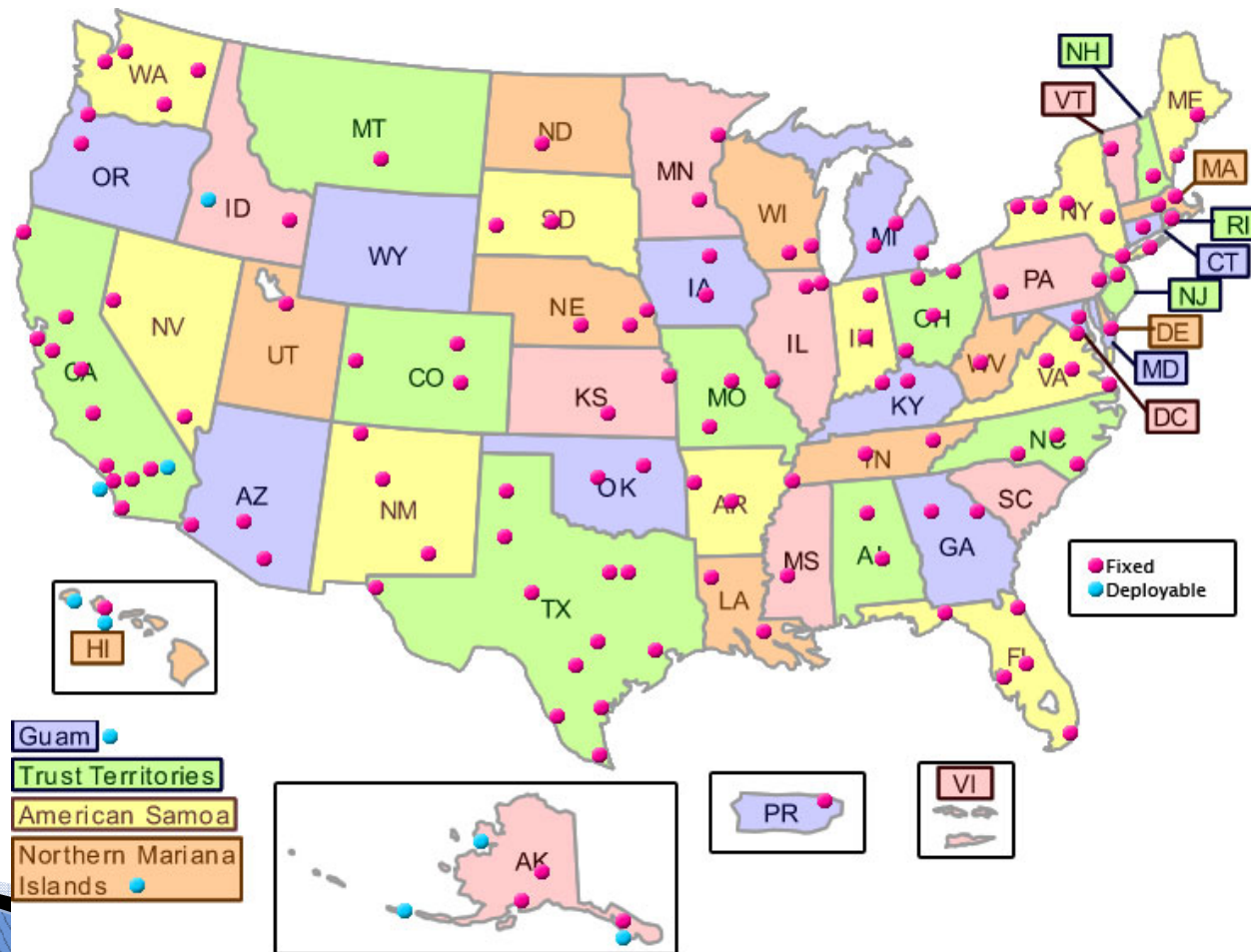




RADNET

Tracking Environmental Radiation Nationwide

Air Monitoring Stations





RADNET

Tracking Environmental Radiation Nationwide

National Radiation Monitoring System



- ▶ EPA's RadNet monitors across the US show typical fluctuations in background radiation levels.
- ▶ Additional Deployable Monitors were sent to the Aleutian islands, Hawaii, Guam and Saipan to improve monitoring coverage for this event.
- ▶ The levels detected are far below levels of concern

What is Additional Risk from Fukushima?

- ▶ Trace levels of radioactive isotopes measured are consistent with the Japanese nuclear incident and far below levels of public health concern.
- ▶ Additional exposure from well below 1 mrem
for individuals in US and Territories
- ▶ Measured levels hundreds to thousands of times lower than FDA Derived Intervention Levels (DILS)
- ▶ Greater risk from Radon – 257 mrem/yr
- ▶ Bottom line? Test your house for radon!

NCRP 160, 2009

Ongoing EPA Commitment

"While we do not expect radiation from the damaged Japanese reactors to reach the United States at harmful levels, I want to assure you that EPA will continue our coordination with our federal partners to monitor the air, milk, precipitation and drinking water for any changes, and we will continue our outreach to the public and the elected officials to provide information on our monitoring results."

– Administrator Lisa P. Jackson

For more information and updates...

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FAQs on Japan Nuclear Emergency

www.epa.gov/japan2011/japan-faqs.html

Summary of monitoring results

www.epa.gov/japan2011/rert/radnet-data-map.html

Summary of laboratory results

www.epa.gov/japan2011/rert/radnet-sampling-data.html

