



# U.S.NRC

UNITED STATES NUCLEAR REGULATORY COMMISSION

*Protecting People and the Environment*

## NRC Highlights and Insights

For  
**RETS-REMP and Groundwater**

Richard Conatser  
Richard.Conatser@NRC.gov  
Division of Risk Assessment  
Office of Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission

## Outline

- Decommissioning Planning Rule
- Cancer Study
- Rad Monitor Failures
- Purpose or Objective of REMP
- NRC Annual Effluent Summary Reports
- Information Notice

---Continued Next Slide ----



## Outline (Continued)

- Temporary Instruction
- ROP Cornerstone Enhancements
- Options Paper on Groundwater
- The List of Leaks and Spills

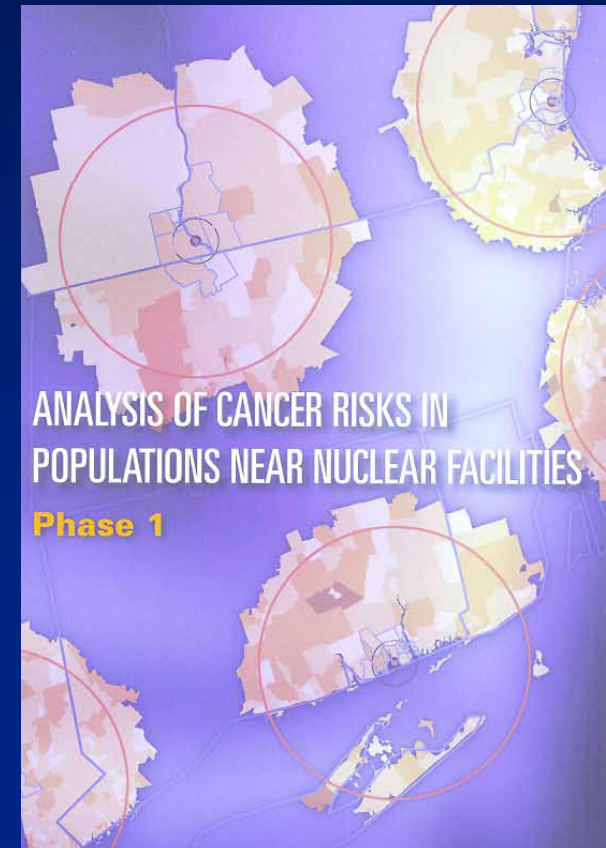


## Decommissioning Planning Rule

- Becomes Effective December 2012
- No change in GW requirements
  - ☐ GW Monitoring (explicit, 20.1501)
  - ☐ Records for decommissioning
  - ☐ Minimization of contamination
- Reg Guide
  - Expect by Dec 2012
  - Public Meeting/Webinar July 12, 2012
  - Will have a second comment period

## Cancer Study

- National Academy of Science
- Phase I Report, May 2012
- Various Proposals
- Pilot Study (limited number of plants, effluent/Met data)
- Phase II Recommended
- NRC is evaluating a path forward

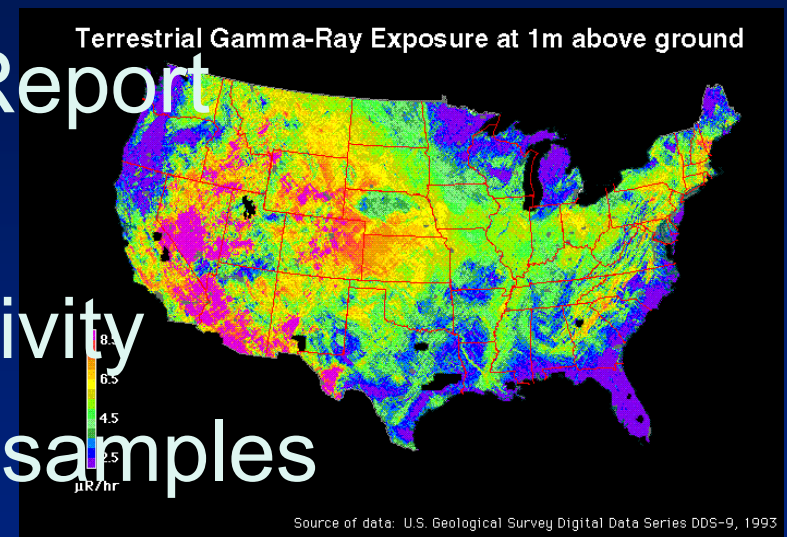


# Rad Monitor Failures

- Several rad monitor failures
- Alternate sampling requirements
  - Predetermined backup sampler(s)
  - Duplicate sampling, analysis, evaluation
  - May involve advanced planning
- Some gas sampling requirements are “continuous” so timing of establishing alternate sampler is important.

## Purpose or Objective of REMP

- Nuclide(s) may be identified in REMP
- Disposition in Annual Report
  - Plant-related activity
  - Not plant-related activity
- Statistical treatment of samples
- REMP objective is to distinguish background from plant related activity





## Annual RETS REMP Reports

- Some ARERRs include Fukushima in effluents
- Some AREORs reflect Fukushima impact
- Annual NRC Effluent Summary Rpts
  - 2009 Report – very soon
  - 2010 Report – Fall 2012
  - 2011 Report – Dec 2012





## Information Notice

- IN 2012-05, April 25, 2012
- ADAMS ML120410213
- Discusses abnormal releases
- Sources and causes of spills and leaks
- CSTs, Radwaste Discharge Lines are some sources which repeat
- No response required for IN



## Temporary Instruction

- TI 2515/185
- Follow up on groundwater initiative
- Scheduled completion – Dec 2012
- Some inspections completed
- A summary report will be published following completion of TI



## ROP Cornerstone Enhancements

- Public meeting held May 30, 2012
- Discussed public safety cornerstone
- Current PI includes leaks and spills
- NRC inspections for leaks and spills
- No significant safety impact from leaks
- NRC is asking for feedback
  - Are enhancements needed?
- Committed and enduring fashion



## Options Paper on Groundwater

- SECY-12-0046, March 29, 2012
- Two Options
  1. Current approach
  2. New rulemaking
- Option 1 selected
- NRC staff prepare a notation vote paper on prompt remediation



## List Of Leaks And Spills

- On NRC public web page
- Updated June 12, 2012
- One plant added to the list
- Since this list was made public, inquiries about groundwater tritium concentrations have decreased
- If you know of an update that needs to be made, please contact me.



# Questions





# Acronyms & Abbreviations

- NRC = Nuclear Regulatory Commission
- GW = Groundwater
- Reg Guide = Regulatory Guide
- ARERR = Annual Radioactive Effluent Release Report
- AREOR = Annual Radiological Environmental Operating Report
- REMP = Radiological Environmental Monitoring Program
- CST = Condensate Storage Tank
- IN = Information Notice
- SECY = A technical proposal from NRC Staff to NRC Commissioners
- ML120410213 = Agency-wide Document Access and Management System  
Main Library entry number 120410213 found on the NRC Public Web Site.
- ROP = Reactor Oversight Process
- TI = Temporary Instruction
- Rpts = Reports