U.S.NRC
UNITED STATES NUCLEAR REGULATORY COMMISSION
Protecting People and the Environment

Regulatory Framework for Reprocessing Used Nuclear Fuel

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Fuel Cycle Information Exchange (FCIX) 2011
June 8, 2011

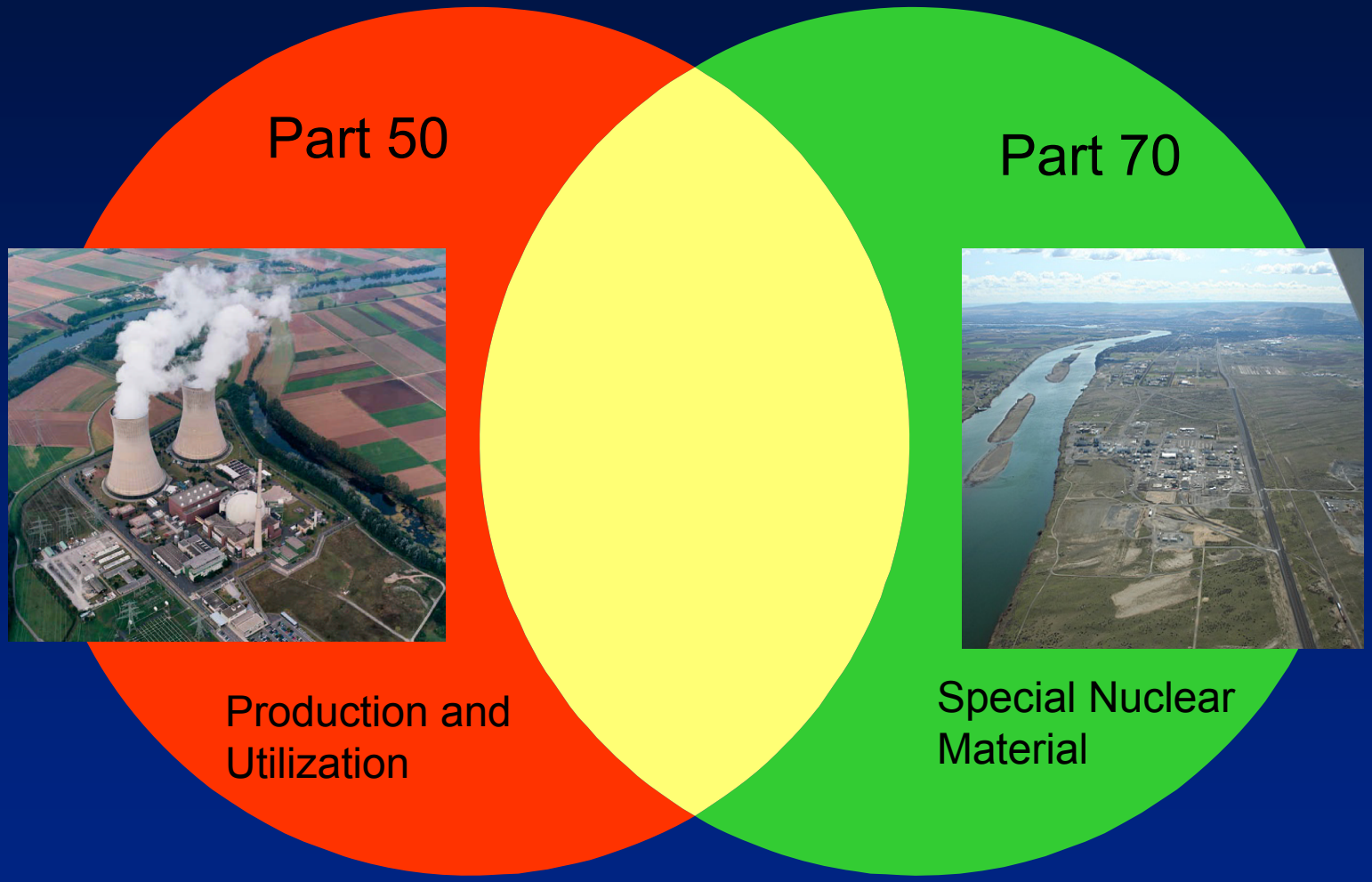
Overview

- Why is NRC working on a regulatory framework?
  - To be prepared to effectively and efficiently regulate potential new reprocessing facilities
  - Regulatory clarity is a key stakeholder factor
- What is NRC doing?
  - Developing a draft environmental topical report
  - Developing a draft regulatory basis
  - Developing a Commission paper

Overview (continued)

- When are stakeholders involved?
  - Previous inputs (meetings and written submissions) and future opportunities
- How is the NRC's framework being developed?
  - Using SECY-09-0082 as starting point
  - Addressing stakeholder input
  - NRC staff resolving gaps
- Who is involved?
  - Inter-office and interdisciplinary working group

Basis for Framework



Focus is on safety and security

Issues Addressed

- Overall framework
  - Framework
  - Newly identified issues
  - Definitions
- Safety and licensing considerations
  - Risk considerations
  - General design criteria
  - Technical specifications
  - Licensed operators
  - One-step licensing and inspection, testing and acceptance criteria

Issues Addressed
(continued)

- Waste management
  - Storage of high-level waste
  - Effluent monitoring
  - Waste-incidental-to-reprocessing
  - Waste classification
  - Waste confidence
- Operational considerations
  - Material control and accounting
  - Physical protection
  - Fees
  - Financial protection

Overall Approach

- Risk-informed and performance-based to the extent practicable
- Technology-neutral to the extent practicable
- Options for consideration

Next steps

- Obtain stakeholder feedback
- Complete by September 2011
  - Draft environmental topical report
  - Draft regulatory basis document
  - Provide Commission paper on path forward

Additional information is available at http://www.nrc.gov/materials/reprocessing.html