



U.S.NRC

UNITED STATES NUCLEAR REGULATORY COMMISSION

Protecting People and the Environment

RIC 2007

**Regulatory Options for Licensing
Commercial GNEP Facilities**

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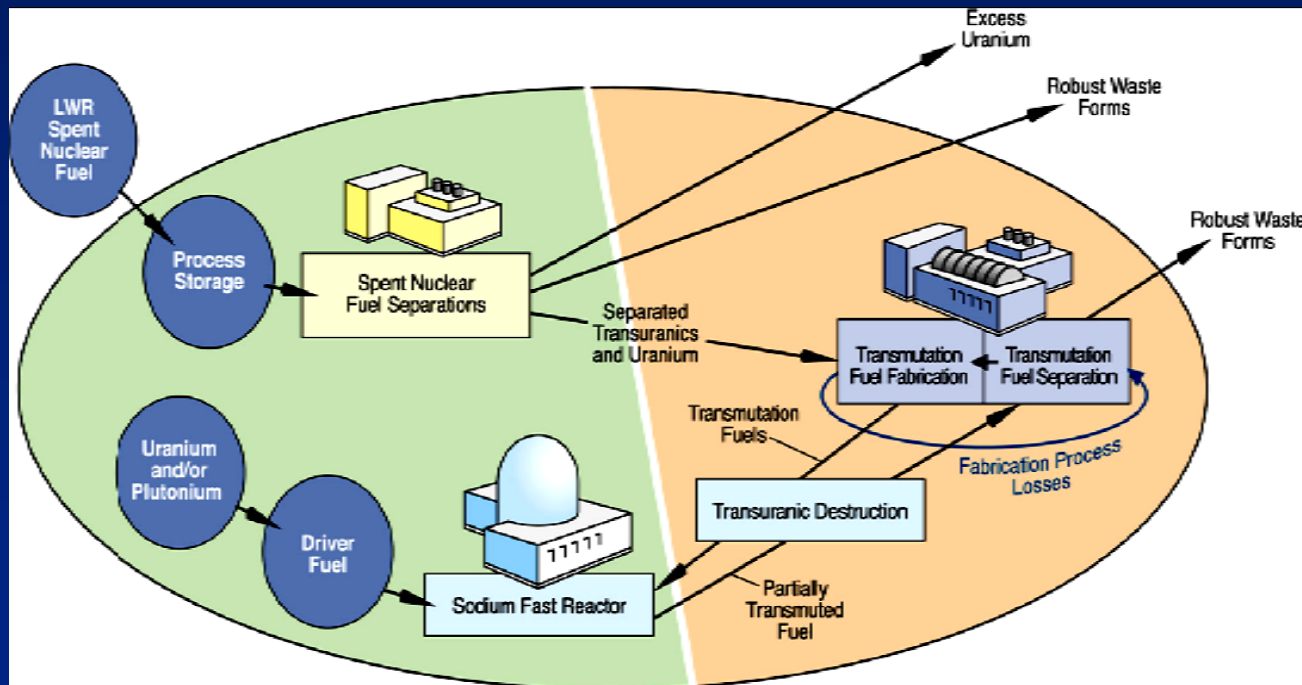
March 15, 2007

Overview

- What facilities NRC could Regulate
- Regulatory Challenges
- Potential Options for NRC Regulation
- Status of NRC Activities

What Facilities NRC could Regulate

- Consolidated Fuel Treatment Center (CFTC)
- Advanced Burner Reactor (ABR)



Regulatory Challenges

- NRC's role will depend on DOE/industry participation
- Interdependence of facilities (each facility affects the safety, quality, effectiveness, and efficiency of the others):
 - Broad array of applicable NRC regulations
 - Multiple NRC program offices
- Ensure a stable and reliable regulatory infrastructure is in place well before application is submitted
 - Provides guidance to applicants
 - Supports timely NRC licensing review

Regulatory Options

- 1) Use/modify existing regulations
- 2) Modify existing regulations
- 3) New GNEP regulation
- 4) Commission order

Use/Modify Existing Regulations

- CFTC – Revise Part 50 and 70 and others
 - Include spent fuel reprocessing; consider additional safety analysis requirements for the CFTC and modify Part 50 and 70 through rulemaking, as necessary
- ABR – Use existing Part 50
 - With exemptions, as necessary, to address ABR technology

Modify Existing Regulations

- CFTC – Same as previous
- ABR – Revise Part 50
 - Possibly create a new 5X specific to sodium-cooled fast flux reactors, based on the current Part 50/52 reactor licensing strategy

New GNEP Regulation

- Develop a specific GNEP regulation applicable to both fuel reprocessing and recycle reactors (10 CFR Part XX)
 - Provides for greater efficiency and effectiveness in licensing review
 - Minimizes impact on existing Part 70 and Part 50 licensees and licensing actions.
 - Obviates the need for multiple rulemakings
 - Allows for integrated evaluation of risk for co-located facilities

Commission Order

- Develop a licensing-basis document for each facility (CFTC and ABR), solicit public comment, and decide on either issuing an Order or directing a rulemaking.
 - Significant time savings if no rulemaking
 - Less opportunity for the public to participate
 - Doesn't support openness (NRC strategic goal)

Status of NRC Activities

- Commission paper status
- NRC/DOE training/technical exchanges
- NRC/DOE MOU for future activities

Questions?