

# Regulatory Framework for Reprocessing and Definitions (Gaps 1 and 6)

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# Gap Summary (SECY-09-0082)

- **Gap 1: Regulatory Framework**
  - Reprocessing facility would currently be licensed under 10 CFR Part 50 as a Production Facility
  - Part 50 is mostly applicable to nuclear power reactors
  - Would require many exemptions
  - Current regulations do not provide framework for licensing reprocessing facilities
- **Gap 6: Definition for Reprocessing-Related Terms**
  - There are currently no definitions of reprocessing-related terms such as “reprocessing” and “recycling”



# NRC Proposed Position: Gap 1

- Develop new part in Code of Federal Regulations (CFR) (10 CFR 7x)
- Identify and incorporate applicable current regulations into 10 CFR 7x
- Tailor for reprocessing and recycling



# NRC Proposed Position: Gap 6

- Incorporate existing definitions where applicable
- Develop new definitions and clarify existing definitions where needed, for example
  - Reprocessing
  - Recycling



# Previous Stakeholder Input: Gap 1

- Previous public meetings: stakeholders showed general support for new part in CFR
- NEI White Paper (ADAMS no. ML083590114): Similar approach; new “Part 7x” based upon existing Part 70
- No external support for NRC alternative approaches of modifying Part 50 or Part 70



# Previous Stakeholder Input: Gap 6

- Previous public meetings: Industry supports defining “Waste Incidental to Recycling”; use of “recycling” in place of “reprocessing”
- NEI supports and provides revised definition of HLW
- No other stakeholder comment



# **Questions for Stakeholders:**

## **Gap 1**

### **(Full list on summary statement)**

- Are there emergency planning aspects that are unique to reprocessing and recycling facilities?
- Which standards and current requirements should be incorporated into Fire Protection regulations?
- Should NRC require that reprocessing facilities be designed to Seismic Category I standards?
- What requirements within 10 CFR Part 50, Appendix F should be adapted for inclusion in a new reprocessing regulation?



# Questions for Stakeholders: Gap 6

- Does the public believe that there are important differences between the terms “reprocessing” and “recycling”? If so, how should those differences be expressed in a new regulation for a reprocessing facility?





# **ADDITIONAL SLIDES**



# List of Regulatory Issues Identified as Part of Gap 1

- Licensing considerations
- Criticality requirements
- Decommissioning
- Emergency planning
- Seismic safety
- Fire protection
- Reporting requirements
- Transfer of special nuclear material
- Reviews and hearing requirements

