

**The U.S. Nuclear Regulatory Commission Workshop on  
Development of Regulations for  
Spent Nuclear Fuel Reprocessing Facilities**

September 7-8, 2010  
Hilton Washington DC/Rockville Executive Meeting Center  
Rockville, Maryland

**WORKSHOP AGENDA**

**Tuesday, September 7, 2010**

- 12:00 pm**      **Arrival and Registration**
- 12:30 pm**      **Welcome, Explanation of Workshop Goals, Ground Rules, Introductions,  
and Agenda Overview**  
*Chip Cameron, Workshop Facilitator*
- 12:45 pm**      **U.S. Nuclear Regulatory Commission (NRC) Presentation:  
“Background/Overview of NRC’s Responsibilities for the Regulation of  
Spent Nuclear Fuel Reprocessing Facilities”**  
*NRC Staff Presenter (TBD)*
- 1:00 pm**      ***Facilitated Discussion #1: Alternatives for a  
Regulatory/Licensing Framework for Reprocessing  
Facilities***  
*Chip Cameron, Facilitator; Panelists*

*All of the facilitated discussions will begin with a brief NRC staff orientation,  
followed by a roundtable discussion among panelists, and concluded by an  
opportunity for questions from members of the public.*

Topics to be discussed include:

- Options of regulation under Title 10 of the *Code of Federal Regulations* (10 CFR) Part 50, 10 CFR Part 70, or a new 10 CFR Part 5x/7x
- Development of technology-neutral requirements
- Choice between risk-informed, performance-based regulation vs. prescriptive requirements
- Requirements for implementation of one-step licensing process

- 2:15 pm**      **Opportunity for Questions from the Public on Licensing Topics**
- 2:30 pm**      **Break (15 mins)**
- 2:45 pm**      ***Facilitated Discussion #2: Alternatives for Safety and Risk Assessment Requirements for Reprocessing Facilities***  
*Chip Cameron, Facilitator; Panelists*
- Topics to be discussed include:
- Approaches for identification of events and hazards at a reprocessing facility
  - Options for the use of safety assessment methodologies (e.g., use of quantitative [e.g., probabilistic risk assessment], semi-quantitative [risk index method typically used for Integrated Safety Analysis], or qualitative methods)
  - Safety limits and goals for the public and workers
- 3:45 pm**      **Break (15 mins)**
- 4:00 pm**      **Resume Roundtable Discussion on Safety and Risk Assessment Topics**
- 4:45 pm**      **Opportunity for Questions from the Public on Safety and Risk Assessment Topics**
- 5:00 pm**      **Wrap-up and Adjourn**

**Wednesday, September 8, 2010**

- 8:30 am**      **Opening Remarks and Recap of Day 1**  
*Chip Cameron, Workshop Facilitator*
- 8:45 am**      ***Facilitated Discussion #3: Alternatives for Establishing Design and Operational Requirements for Reprocessing Facilities***  
*Chip Cameron, Facilitator; Panelists*

*All of the facilitated discussions will begin with a brief NRC Staff orientation, followed by a roundtable discussion among panelists, and concluded by an opportunity for questions from members of the public.*

- Topics to be discussed include:
- Options for general/baseline design criteria for reprocessing facilities

- Options for specific performance requirements and appropriate technical specifications
- Level of design information needed in an application
- Operator qualification requirements (need for operator licensing)
- Conduct of inspections during the pre-operational stages (construction and commissioning)
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**9:45 am Break (15 mins)**

**10:00 am Resume Roundtable Discussion on Design and Operational Requirements Topics**

**10:45 am Opportunity for Questions from the Public on Design and Operational Requirements Topics**

**11:00 am *Facilitated Discussion #4: Potential Waste Management Issues Related to Reprocessing Facilities***

*Chip Cameron, Facilitator; Panelists*

Topics to be discussed include:

- Options for independent storage of reprocessing high-level waste
- Options for the management of non-HLW reprocessing wastes
- Options for specific time limits for the storage of reprocessing wastes
- Options and alternatives regarding re-use of reprocessed materials

**12:00 pm Lunch Break (12:00 pm – 1:15 pm)**

**1:15 pm Resume Roundtable Discussion on Reprocessing Waste Topics**

**2:00pm Opportunity for Questions from the Public on Reprocessing Waste Topics**

**2:15 pm Break (15 mins)**

**2:30 pm *Facilitated Discussion #5: Security and Safeguards Issues Related to Reprocessing Facilities\****

*Chip Cameron, Facilitator; Panelists*

Topics to be discussed include:

*\* This topic will be afforded a longer discussion session during the October 2010 workshop in Albuquerque, NM*

- Considerations for a revised categorization scheme for special nuclear material
- Options for changes to NRC requirements for transporting mixed oxide fuel
- Options for a diversion path analysis
- Approaches towards material accounting management for reprocessing, including inventories and holdup materials

**3:30 pm      Break (15 mins)**

**3:45 pm      *Facilitated Discussion #6: Additional Topics of Interest\****

*Depending on participant's feedback and interest, this session will provide the option of returning to a previous discussion topic, or to discuss the following major topic:*

**Environmental Protection for Reprocessing, including:**

- Current effluent release practice and limits for international reprocessing facilities
- Current U.S. release limits in Environmental Protection Agency regulations (40 CFR Part 190)
- Available technologies for control of reprocessing effluents

**4:45 pm      Opportunity for Questions from the Public on Security and Safeguards Issues and Additional Topics**

**5:00 pm      Summary, Evaluations, and Suggestions for Next Workshop**  
*Chip Cameron, Workshop Facilitator*

**5:15 pm      Adjourn**

*\* This topic will be afforded a longer discussion session during the October 2010 workshop in Albuquerque, NM*