



Briefing on Uranium Recovery Program Activities

List of Acronyms
December 11, 2008

FSME: Office of Federal and State Materials and Environmental Management Programs
UR: Uranium Recovery
ISL: In-Situ Leach
EPA: US Environmental Protection Agency
BLM: Bureau of Land Management
NRC: US Nuclear Regulatory Commission
MOU: Memorandum of Understanding
FY: Fiscal Year
GEIS: Generic Environmental Impact Statement
NMA: National Mining Association
ISR: In-Situ Recovery
Conv.: Conventional Mill
LLC: Limited Liability Corporation
RAI: Request for Additional Information
DWMEP: Division of Waste Management and Environmental Protection
EIS: Environmental Impact Statement
NEPA: National Environmental Protection Act
DILR: Division of Intergovernmental Liaison and Rulemaking



Briefing on Uranium Recovery Program Activities

December 11, 2008

Larry W. Camper, Director

Division of Waste Management and
Environmental Protection/FSME

Presenters & Topics

- Larry W. Camper: Overview
- Bill von Till: Status of UR Applications
- Gregory Suber: Status of Environmental Reviews
- Gary Comfort: Status of ISL Rule
- Richard Turtill: Native American Outreach
- John Edwards & Stephen Heare: EPA's Perspective on ISL Requirements
- Mitchell Leverette: BLM and NRC MOU on Environmental Assessments

Overview of NRC's Uranium Recovery Program

- Key Messages
- Scope of the Uranium Recovery Program
- Demand for Uranium
- Current Application Forecast
- State of Preparation
- Outreach Activities
- Conclusions

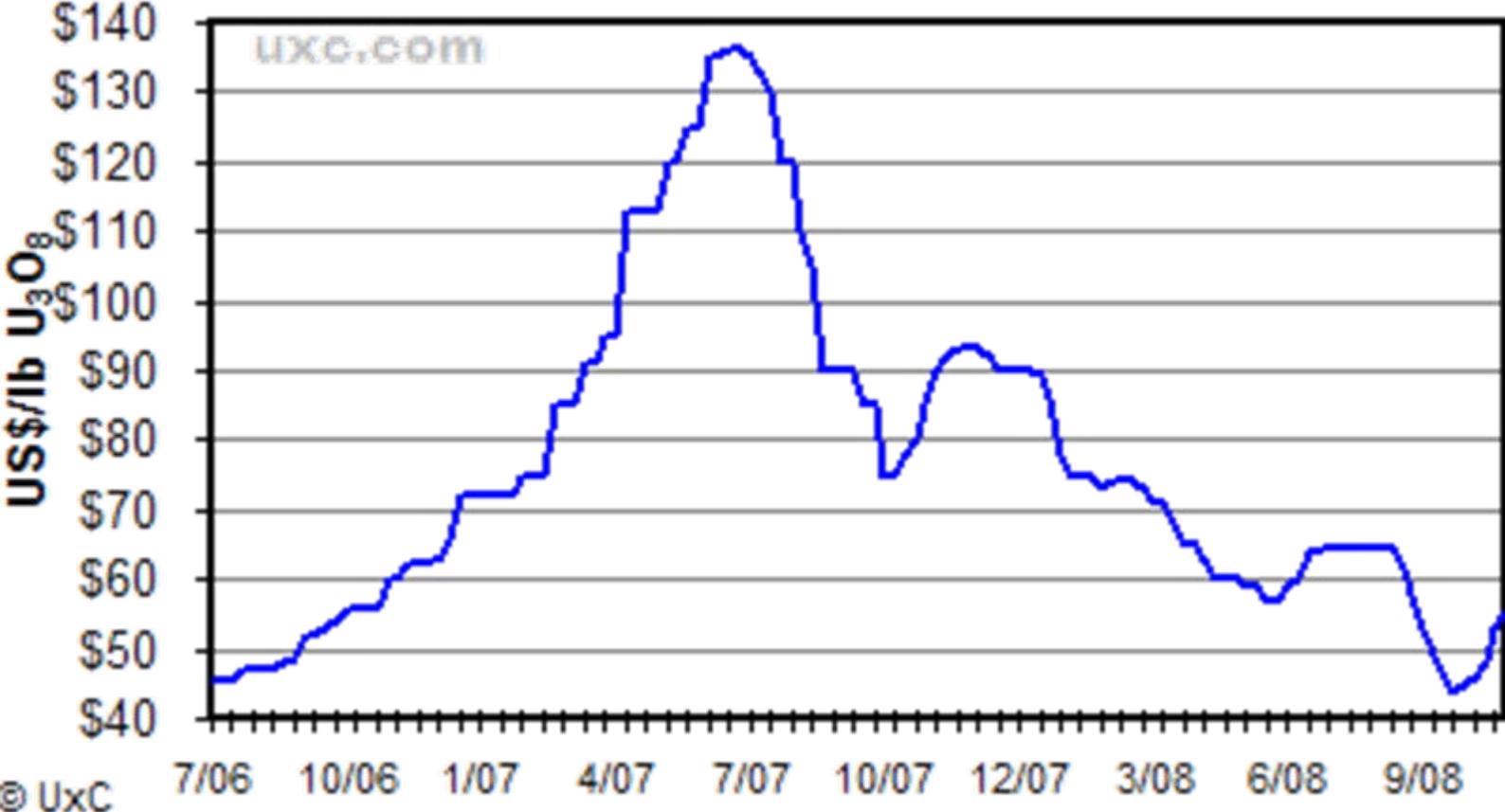
Key Messages

- New Licensing
- Environmental Reviews
- Organization Changes
- Outreach

Scope of NRC's Current UR Program

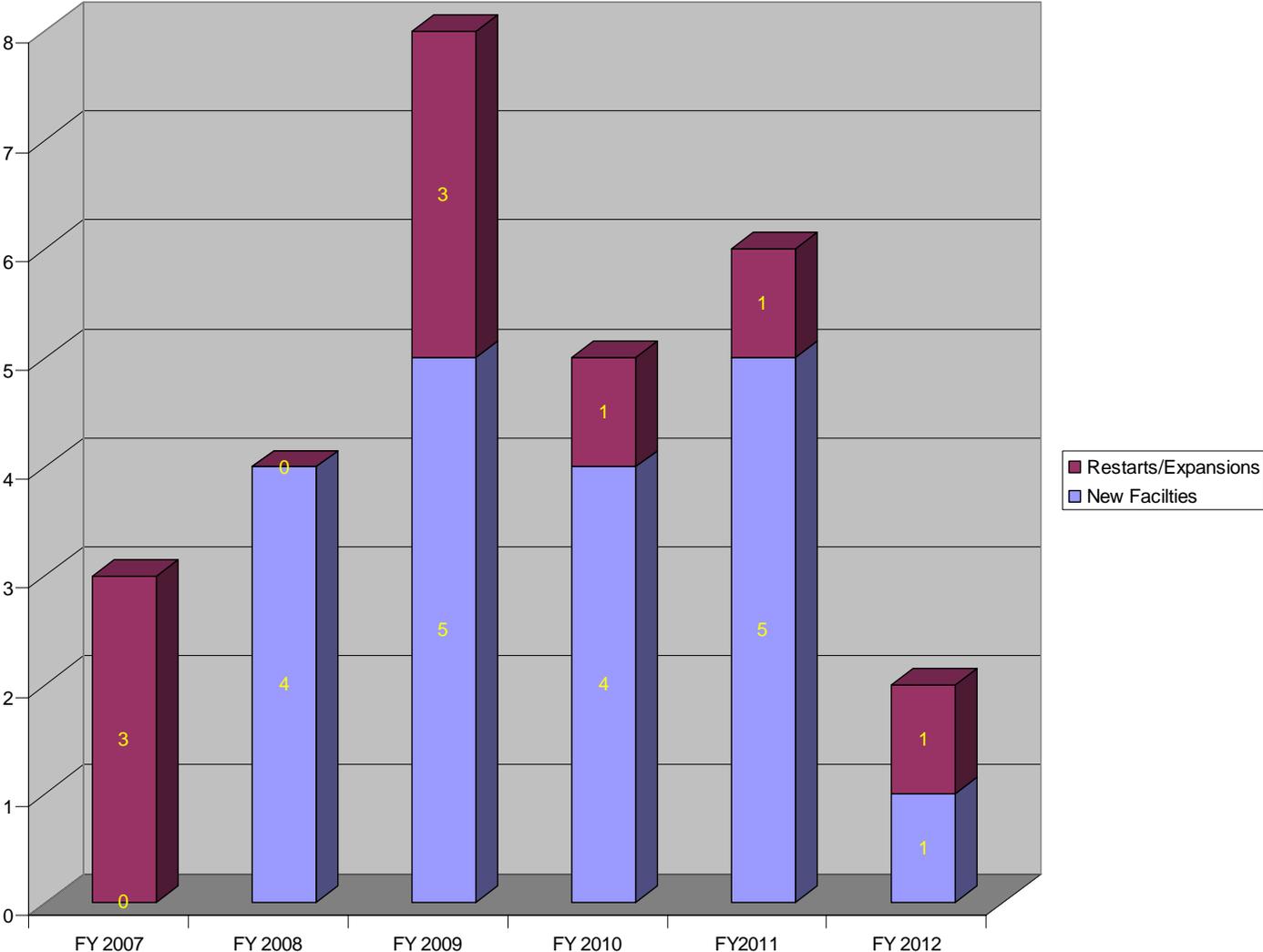
- 32 Decommissioning Sites (Title I & II)
- 3 operating licenses; 2 on stand by
- 28 new facilities by FY12; 4 in-house
- Rulemaking/Guidance development

Demand for Uranium



© UxC

Current Application Forecast



State of Preparation

- Staffing
- In-Situ Recovery Generic Environmental Impact Statement (GEIS)
- Guidance/Rulemaking Development
- Process Issues

Outreach Activities

- Native American Tribes
 - Information Exchanges
 - Website
 - Government-to-Government meetings

Outreach Activities

- Stakeholders
 - House Oversight Committee meetings
 - Federal: EPA, BLM
 - State: New Mexico, Wyoming, Agreement States
 - NMA
 - Public Meetings for GEIS
 - Website

Conclusions

- Staffing
- Complexity of Certain Sites
- Predicting Future Applications
- Overcoming Legacy Concerns



Status of Uranium Recovery Applications

December 11, 2008

William von Till, Chief

Uranium Recovery Licensing
Division of Waste Management and
Environmental Protection/FSME

Key Message

New application reviews on track

Discussion Topics

- New application review procedures
- Process for estimating new applications
- Upcoming applications
- Applications received to date
- Status of reviews

New Application Review Schedules

- Conduct acceptance review
- Request for Additional Information
- Reviews are a two-year process

Process for Estimating Applications

- February 2007 Pre-licensing Workshop
- Meetings and Letters of Intent
- Contact with potential applicants
- National Mining Association Annual Workshop

Application Types

Facility	Quantity
New ISR Facility	11
New Conventional Mill	7
Combined ISR-Conv.	1
ISR Expansion	7
ISR Restart	1
Conventional Expansion	1
TOTAL	28

Status of Applications

New Facility Status	Acc. Rev.	RAIs issued	Estimated Completion Date
Uranium One/Energy Metals (Moore Ranch)	12/20/2007	5/14/2008	12/20/2009
Uranerz (Hank and Nichols)	4/14/2008	9/11/2008	4/14/2010
Lost Creek ISR, LLC (Lost Creek)	6/10/2008	in progress	8/10/2010
Uranium One/Energy Metals (Jab and Antelope)	in progress	-	-
Expansion/Restart Status	Acc. Rev.	RAIs issued	Estimated Completion Date
Cameco/Crow Butte Resources (Plant Upgrade)	Action Completed December 2007		
Cogema (Christensen Ranch)	Action Completed September 2008		
Cameco/Crow Butte Resources (North Trend)	8/28/2007	in progress	

Conclusions

- Process for estimating applications
- Process for tracking status
- New application reviews on track
- Inspections

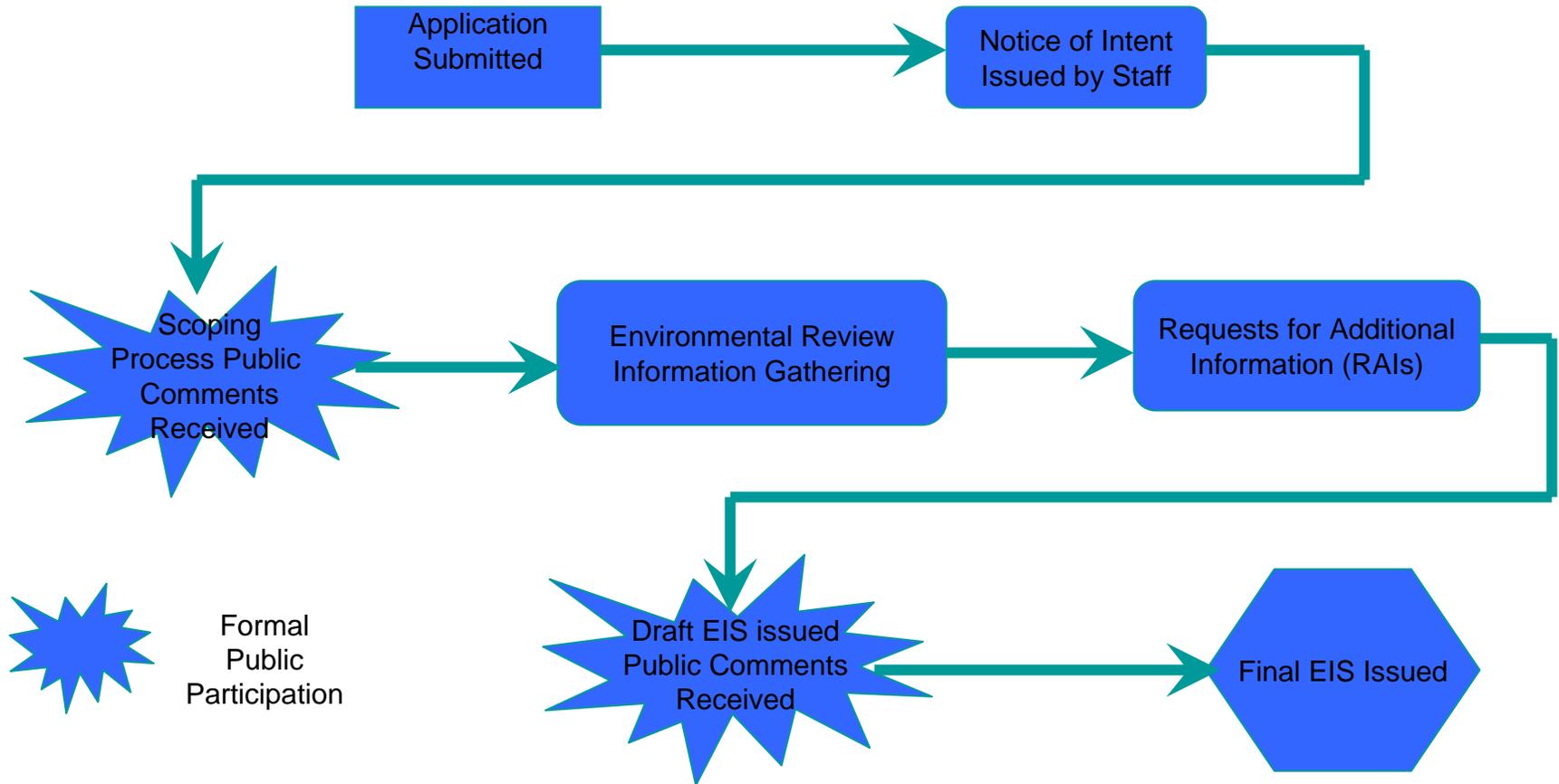


Status of UR Environmental Reviews

December 11, 2008

Gregory F. Suber, Chief
Environmental Review
Branch/DWMEP/FSME

Typical Environmental Review Process



Generic Environmental Impact Statement Development

- GEIS Concept Envisioned by Staff
- Engaged Stakeholders during Scoping Process
- State of Wyoming is a Cooperating Agency
- Gathered Extensive Information
- Draft GEIS for Public Comment

Generic Environmental Impact Statement Development

- Comment Period closed
November 7, 2008
- Comments from Diverse Stakeholders
- Comments Covered Variety of Topics

Overall Schedule

Notice of Intent published	July 24, 2007
Scoping Meetings	August & September 2007
Scoping Period ends	November 30, 2007
Draft GEIS issued	<i>July 28, 2008</i>
Public Comment Meetings	August & September 2008
Comment Period ends	<i>November 7, 2008</i>
Final GEIS issued	June 2009

Site-Specific Review Process

- Environmental Review for Each Application
- Evaluation Considers Conclusions in GEIS
- Additional Public Participation during Site-Specific Review
- Review Results Comply with NEPA Process

Bureau of Land Management Outreach Coordination Effort

- Headquarters and Local officials during Draft Comment Period
- Memorandum of Understanding for NEPA Reviews
- Field Offices on Individual Projects

Conclusions

- Tiering Process Consistent with NEPA
- Process Results in Efficient, Effective Review
- Expanded Public Participation
- Actively Engaged with Local, State, Federal Agencies and Tribes



Rulemaking on Ground Water Protection at *In Situ* Recovery Facilities

December 11, 2008

Gary Comfort, Sr. Project Manager
Rulemaking Branch A/DILR/FSME

Rule Objectives

- Ground water protection regulations for *in situ* recovery
- Reduce/eliminate dual regulation

Cooperation with Other Agencies

- Diverse working group members
- Role of Environmental Protection Agency
- Review by Agreement States

Sources of Rule Language

- Existing guidance
- Existing license conditions
- Environmental Protection Agency's Underground Injection Control Program

Areas Addressed in Rule

- Pre-operational requirements
- Operating and monitoring requirements
- Groundwater restoration requirements
- Corrective action requirements

Recent Issues

- Period of post-closure monitoring and care
- Use of secondary maximum contaminant limits
- Changes to Criterion 13
- Definition of corrective action

Conclusions

- One open issue with Environmental Protection Agency
- Rulemaking to Commission by April 2009



Outreach to Native American Tribes

December 11, 2008

Richard H. Turtill, Chief
Intergovernmental Liaison
Branch/DILR/FSME

Key Messages

- Native American Tribal interest in Uranium Recovery
- Staff outreach and communication with Native American Tribes
- Tribal Sovereignty and government-to-government communications

Generic Environmental Impact Statement Public Outreach

- Scoping/Draft Comment Meetings
- Meetings with the Navajo Nation and the Oglala Sioux
- Government-to-Government Meetings

Relationship Building and Enhancing Communication

- The Navajo Nation/Five Year Plan
- Enhanced Web Information

Communication and Outreach Challenges

- Tribal Policy Positions on Uranium Recovery
- Legacy Waste and Site Abandonment

Conclusions

- Staff efforts focus on:
 - Outreach and communication
 - Greater awareness of Tribal interests
 - Heightened recognition of Tribal Government positions on Uranium Recovery
- Challenges exist in building trust in NRC/Tribal relationships