

Uranium Recovery Licensing Activities

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Director

Division of Waste Management and
Environmental Protection

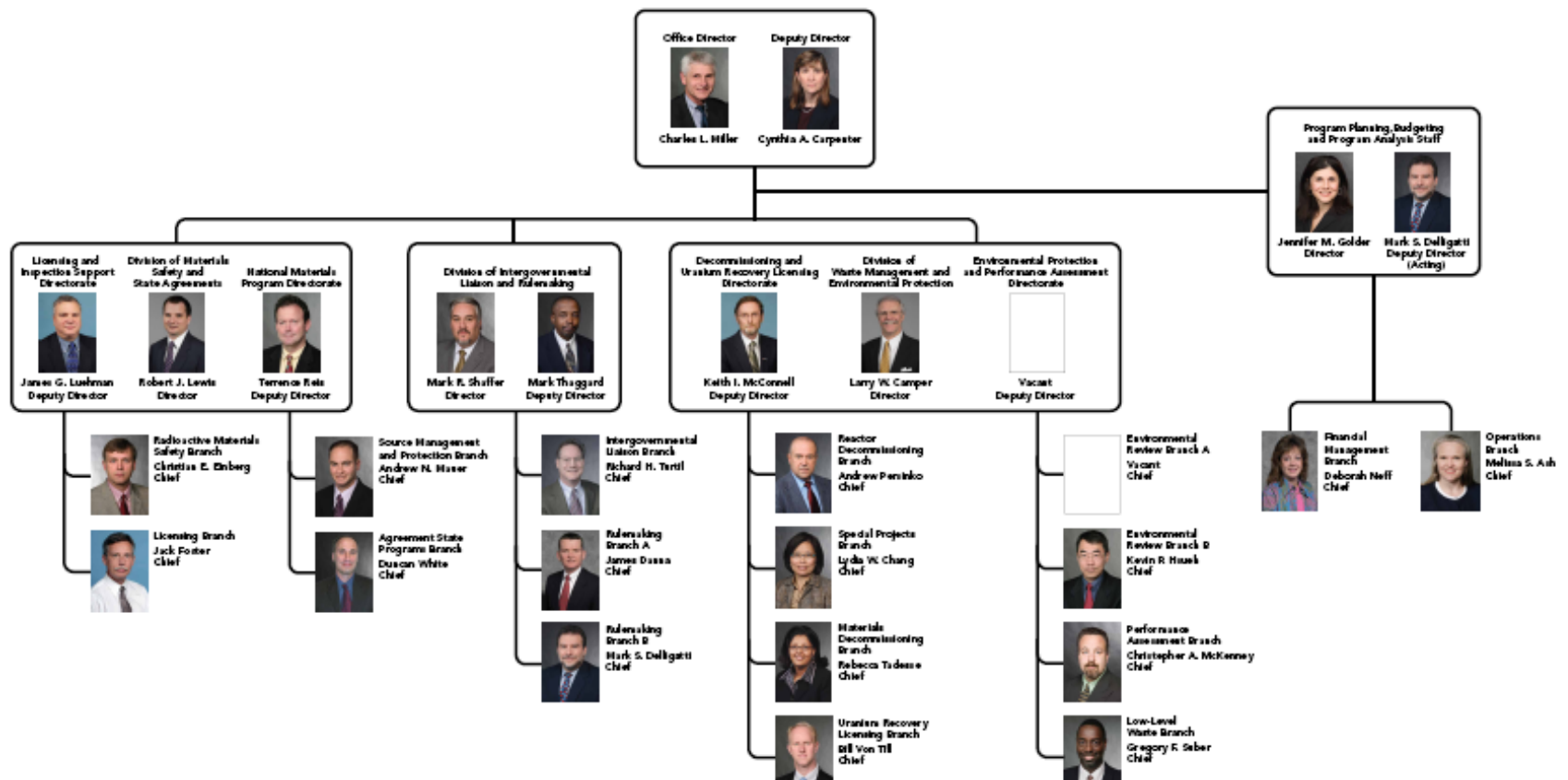
Presentation Topics

- Organization and Staffing
- ISR Rulemaking
- Guidance Updates
- Agency Accomplishments
- Application Status
- Lessons Learned
- The Future
- Challenges
- Credible Letters of Intent
- Conclusions



Organization

Office of Federal and State Materials and Environmental Management Programs



URLB Staff

- Bill von Till, Chief
- Stephen J. Cohen, Team Leader
- Ron Linton, Sr. Hydrogeologist/PM
- Ron Burrows, Health Physicist/PM
- Elise Striz, Hydrogeologist
- Douglas Mandeville, Geotechnical Engineer/PM
- Betty Garrett, Licensing Assistant
- James Webb, Health Physicist
- Tom Lancaster, Hydrogeologist
- John Saxton, Hydrogeologist
- Tanya Oxenberg, Health Physicist
- Dan Gillen, Consultant

Switchboard:
301-415-7000



Environmental Review Branch Staff

Branch A

- Harry Felsner, Acting Chief
- Amy Hixon, COOP
- Stephen Lemont, Sr. PM
- Asimios Malliakos, PM
- Tarsha Moon, Licensing Assistant
- Johari Moore, PM
- James Park, PM
- Ashley Riffle, NSPDP
- Jean Trefethen, PM
- Irene Yu, PM

Branch B

- Kevin Hsueh, Chief
- Briana Balsam, PM
- Alan Bjornsen, PM
- Jennifer Davis, Sr. PM
- Nathan Goodman, PM
- Kellee Jamerson, NSPDP
- Behram Shroff, PM
- Patricia Swain, PM
- Antoinette Walker-Smith, Licensing Assistant
- Haimanot Yilma, PM

UR Decommissioning Staff

Materials Decommissioning Branch

- Rebecca Tadesse, Chief
- Tom McLaughlin, PM – ExxonMobil, Ambrosia Lake, Bear Creek, ANC Gas Hills
- Ken Kalman, PM – Sequoyah Fuels
- Ted Carter, PM – RMD/WRT, Pathfinder sites

Reactor Decommissioning Branch

- Bruce Watson, Acting Chief
- John Buckley, PM – Homestake, Ludeman
- Jim Shepherd, PM – Western Nuclear
- Tom Youngblood, Health Physics
- Lifeng Guo, Hydrogeologist

Special Projects Branch

- Lydia Chang, Chief
- Richard Chang, PM – Umetco, Title I sites, Title II terminated sites
- Yolande Norman, PM – UNC Churchrock
- Ted Johnson, Consultant, Erosion Control and Surface Water Hydrology

Agreement State sites – Dennis Sollenberger and Bill Rautzen

ISR Rulemaking

- Draft Rule in Progress – Publish in Late 2010
- Rule Publishing Delayed
- NRC-EPA Point of Contention
 - Post Restoration Monitoring
 - EPA Currently Providing Comments



Guidance Updates

- Regulatory Guide 3.51
- Regulatory Guide 3.56
- Regulatory Guide 3.59
- Regulatory Guide 4.14
- Regulatory Guide 8.30
- Revision of NUREG-1569 – General Revision
 - Incorporation of Statistical Methods
 - Incorporation of Land Application Guidance



Guidance Updates (cont'd.)

- Development of Standard Review Plan for Conventional Mill and Heap Leach Facilities
- Consolidating/Updating UR Decommissioning Guidance
 - Guidance for Conventional, Heap Leach, and ISR Facilities
 - Envisioned as a new Volume 4 to NUREG-1757

Agency Accomplishments

- Published 3 Draft SEISs
- Preparing 1 Draft License
- Issued Exemption Approval
- Completed Change of Control
- November 2009 Licensing Workshop
- MOU with BLM



Agency Accomplishments (cont'd.)

- Regulatory Information Summaries
 - RIS 09-05 – Groundwater Restoration and Scheduling Licensing Reviews
 - RIS 09-12 – Site Preparation Activities
 - RIS 09-14 – License Approach for ISR Facilities



Application Status

- 5 New Facility Applications Received
- 3 Expansion Applications Received
- 1 Restart Application Received
- 1 Exemption Request Received



Application Status

- New Facility Applications
 - 3 Licensing Decisions to be Completed
 - 1 Technical Review in Progress
 - 1 Review Deferred by Applicant's Request
- Expansions/Restarts
 - 2 Amendments Issued
 - 1 Technical Review in Progress
 - 1 Application Currently Withdrawn

Lessons Learned

- Completeness
- Unusual Conditions
- Decommissioning Plans
- RAI/Open Issue Responses
- Cultural Resources Information



The Future

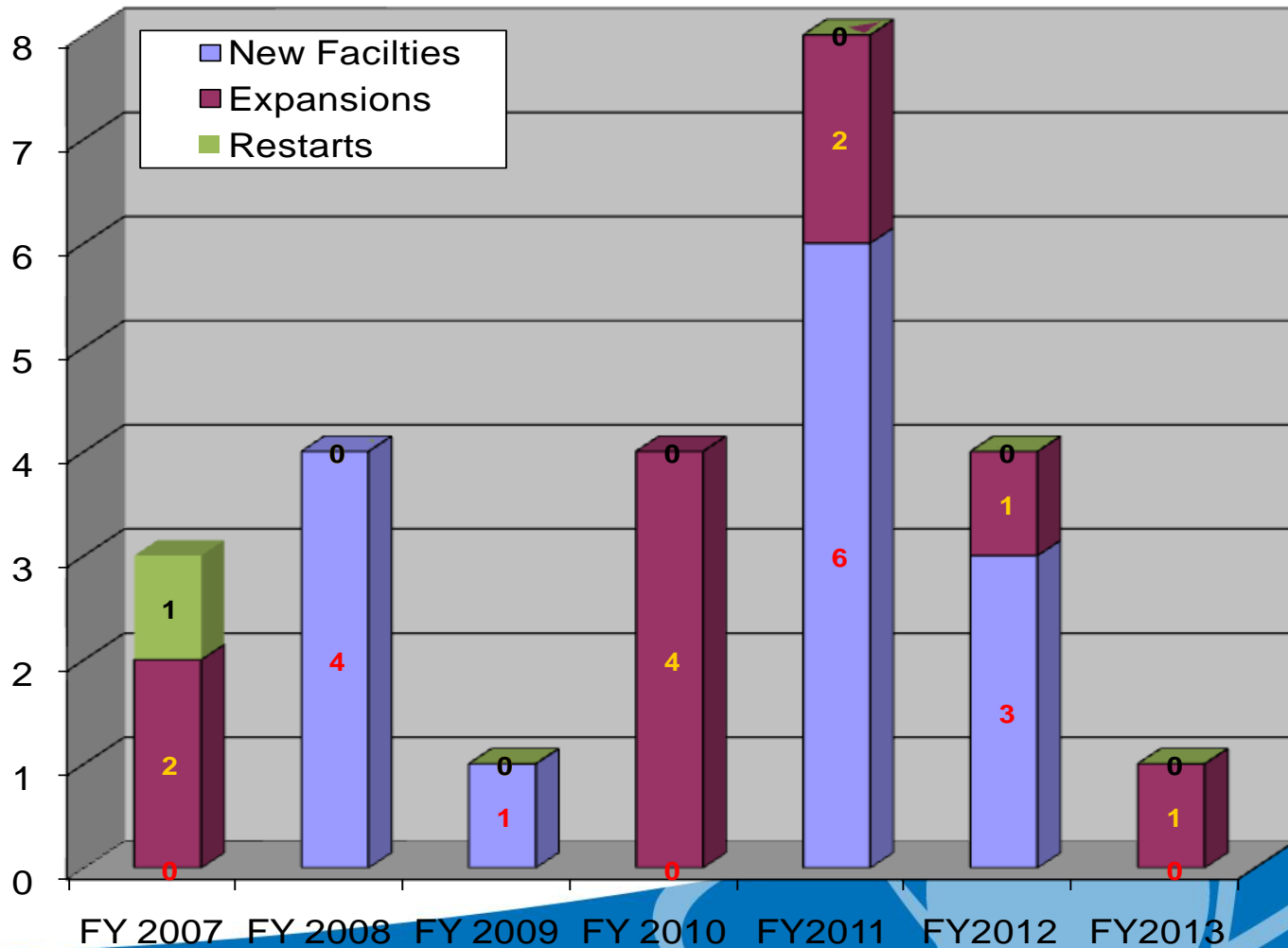
- Stakeholder Outreach
- Beyond FY2013
- Future Congressional interaction
- Hearings



The Future

Fiscal 2007 Applications					
Cogema	Christensen Ranch	ISR - Restart	Rec. 4/07, Comp. 9/08	WY	None
Cameco (Crow Butte Resources, Inc.)	North Trend	ISR - Expansion	Received June 2007	NE	None
Cameco (Crow Butte Resources, Inc.)	Plant Upgrade	ISR - Expansion	Rec. 10/06, Comp. 12/07	NE	None
Fiscal 2008 Applications					
Lost Creek ISR, LLC	Lost Creek	ISR - New	Resubmitted Mar 2008	WY	05/23/07
Uranerz Energy Corp.	Hank and Nichols	ISR - New	Received December 2007	WY	06/27/07
Uranium One (Energy Metals Corporation)	Moore Ranch	ISR - New	Received October 2007	WY	05/31/07
Uranium One (Energy Metals Corporation)	Jab and Antelope	ISR - New	Received September 2008	WY	05/31/07
Fiscal 2009 Applications					
Powertech Uranium Corporation	Dewey Burdock	ISR - New	Resubmitted 8/09	SD	01/26/07
Fiscal 2010 Applications					
Uranium One (Energy Metals Corporation)	Ludeman	ISR - Expansion	Received Jan 2010	WY	02/26/09
Uranium One (Energy Metals Corporation)	Allemant-Ross	ISR-Expansion	Jun-10	WY	02/26/09
Cameco (Crow Butte Resources, Inc.)	Three Crow	ISR - Expansion	Jun-10	NE	01/11/10
Lost Creek ISR, LLC	Lost Creek	ISR - Expansion	Jul-10	WY	01/06/10
Fiscal 2011 Applications					
Strata Energy, Inc.	Ross	ISR - New	Dec-10	WY	01/08/10
UR-Energy Corp.	Lost Soldier	ISR - Expansion	Dec-10	WY	01/06/10
Cameco (Power Resources, Inc.)	Smith Ranch/Highland CPP	ISR - Expansion	FY 2011	WY	01/14/10
Titan Uranium USA, Inc.	Sheep Mountain	Heap Leach - New	Apr-11	WY	02/16/10
Neutron Energy	Marquez	Conv. - New	May-11	NM	01/15/10
Uranium Energy Corporation	Grants Ridge	Heap Leach - New	Jun-11	NM	02/04/10
Rio Grande Resources	Mt. Taylor	Conv. - New	TBD	NM	12/15/09
Wildhorse Energy	West Alkali Creek	ISR - New	TBD	WY	01/07/10
Fiscal 2012 Applications					
Strathmore Minerals Corporation	Gas Hills	Conv. - New	Oct-11	WY	01/18/10
Strathmore Minerals Corporation	Roca Honda	Conv. - New	Dec-11	NM	01/18/10
NCA Nuclear, Inc.	Reno Creek	ISR - New	Dec-11	WY	04/13/10
Cameco (Crow Butte Resources, Inc.)	Marsland	ISR - Expansion	Jun-12	NE	01/11/10
Fiscal 2013 Applications					
Cameco (Power Resources, Inc.)	Ruby Ranch	ISR-Expansion	FY 2013	WY	01/14/10
Projected total reviews = 25					
Total Uranium Recovery Applications Received = 9					
Total New Uranium Recovery Applications = 14					
Total Restart/Expansion Uranium Recovery Applications = 11					

The Future



Challenges

- Resources
- Credible Letters of Intent
- Consistency with Staff Contacts
- Guidance



Credible Letters of Intent

- Signed by a Corporate Officer
- Include a Specific Submission Date and Location
- Preliminary Work Completed To Date:
 - Exploration
 - Site Characterization
 - Other Steps to Assure Submission Date is Met

Conclusions

- Reviewing Applications and Processing SERs
 - Resource Constraints Could Impact Review Schedules
 - Continue to Maintain an Open Process and Seek Stakeholder Outreach
 - Regulatory Actions will Result in Safe Activities
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