

Legacy Management 2009 Update

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Office of Legacy Management

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DOE-LM Program Areas

- UMTRCA Title I and Title II sites long-term surveillance and maintenance (LTS&M)
- Transition of reclaimed UMTRCA Title II sites
- Uranium Leasing Program management
- Calibration models



Pre-Transition Visit to the Umetco
Maybell West, CO, Site



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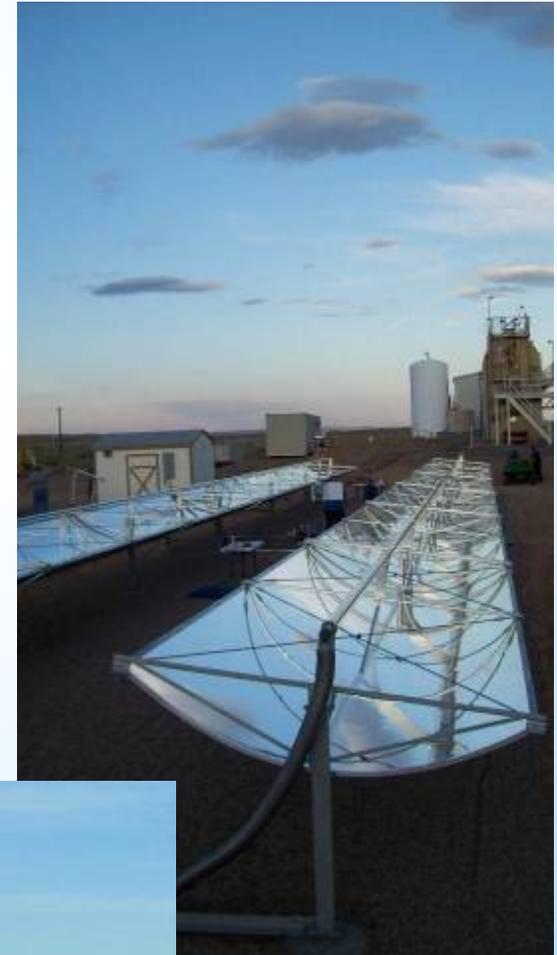
Program Issues and Activities

- Mineral rights on private, state, and federal lands
 - Fee land: regulations in 10 CFR 40 Appendix A, Criterion 11 address acquisition and controls
 - State land (including school sections): NRC will address with licensee before transfer
 - Federal minerals-senior rights: need to identify protections for disposal site and groundwater
- Concurrent jurisdiction for Title II sites listed on NPL
- Comments on NRC in-situ leach Generic Environmental Impact Statement
- DOE site transition process guidance
- Revision of 1998 DOE/NRC site transfer protocol



UMTRCA Title I Sites

- Lakeview, Oregon, rock durability
- ICs for processing sites
- Navajo Nation concerns
- Solar water heating at Tuba City, Arizona
- Cover performance studies



Tuba City, AZ, Site



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UMTRCA Title II Sites

- Rio Algom sale uncertain (Lisbon Valley, Utah, and Ambrosia Lake West, New Mexico)
- Anadarko reinitiated transfer of Bear Creek, Wyoming
- Grants, New Mexico, regional groundwater
- Church Rock, New Mexico, (Northeast Church Rock Mine Site) remedy
- Pit lake at Highland, Wyoming
- Erosion at L-Bar, New Mexico
- Groundwater at Shirley Basin South, Wyoming
- Closure committee, transfer boundary at Uravan, Colorado



Buffalo Grazing at the Sherwood, WA, Site



Title II Transition Summary

- No sites transferred since 2008 NMA meeting
- Three sites close to termination and transfer
 - Maybell West, Colorado (Umetco)
 - Gas Hills North, Wyoming (Lucky Mc)
 - Bear Creek, Wyoming (Union Pacific Resources Inc.)
- Three sites could transfer by end of 2010
 - Durita, Colorado (Hecla)
 - Split Rock, Wyoming (Western Nuclear Inc.)
 - Gas Hills East, Wyoming (Umetco)
- Remaining sites still several years away from transfer



Site Inspection at the Gas Hills East, WY, Site



Ambrosia Lake, NM, Disposal Site



Falls City, TX, Disposal Site

Gunnison, CO, Disposal Site



Rifle, CO, Disposal Site



DOE LTS&M Information

- GEMS: an interactive data server providing environmental and geospatial site data
http://gems.lm.doe.gov/imf/sites/gems_continental_us/jsp/launch.jsp
 - Start with the tutorial
- LM website: technical and regulatory documentation for sites and program (<http://www.LM.doe.gov/>)
- Contact the site lead for your site



DOE Points of Contact for Title II Sites

Site Name and State	Company Name (former site name)	Projected Transfer Date	DOE Point of Contact	POC Phone	POC Email
Bear Creek, WY	Anadarko	2009	Scott Surovchak	720-377-9682	Scott.Surovchak@lm.doe.gov
Durita, CO	Hecla-Durita	2009	Tracy Ribeiro	970-248-6621	Tracy.Ribeiro@lm.doe.gov
Gas Hills North, WY	Pathfinder (Lucky Mc)	2009	Scott Surovchak	720-377-9682	Scott.Surovchak@lm.doe.gov
Maybell West, CO	UMETCO	2009	Tracy Ribeiro	970-248-6621	Tracy.Ribeiro@lm.doe.gov
Gas Hills East, WY	UMETCO	2010	Scott Surovchak	720-377-9682	Scott.Surovchak@lm.doe.gov
Lisbon Valley, UT	Rio Algom	TBD	Tracy Ribeiro	970-248-6621	Tracy.Ribeiro@lm.doe.gov
Panna Maria, TX	Rio Grande Resources	2010	Jalena Dayvault	970-248-6016	Jalena.Dayvault@lm.doe.gov
Ray Point, TX	Exxon	2012	Jalena Dayvault	970-248-6016	Jalena.Dayvault@lm.doe.gov
Split Rock, WY	Western Nuclear	2009	Scott Surovchak	720-377-9682	Scott.Surovchak@lm.doe.gov
Uravan, CO	UMETCO	2011	Tracy Ribeiro	970-248-6621	Tracy.Ribeiro@lm.doe.gov
Ambrosia Lake West, NM	Rio Algom	TBD	Chris Clayton	202-586-9034	Christopher.Clayton@hq.doe.gov
Church Rock, NM	UNC	2013	Richard Bush	970-248-6073	Richard.Bush@lm.doe.gov
Conquista, TX	Conoco	2013	Jalena Dayvault	970-248-6016	Jalena.Dayvault@lm.doe.gov
Ford, WA	Dawn	2013	Richard Bush	970-248-6073	Richard.Bush@lm.doe.gov
Highland, WY	Exxon	2010	Scott Surovchak	720-377-9682	Scott.Surovchak@lm.doe.gov
Gas Hills West, WY	ANC	2011	Scott Surovchak	720-377-9682	Scott.Surovchak@lm.doe.gov
Sequoyah, OK	Sequoyah Fuels	2013	Jack Craig	727-541-8943	Jack.Craig@lm.doe.gov
Grants, NM	Homestake-Grants	2014	Chris Clayton	202-586-9034	Christopher.Clayton@hq.doe.gov
Cañon City, CO	Cotter	Indefinite	Mark Kautsky	970-248-6018	Mark.Kautsky@lm.doe.gov
Shirley Basin North, WY	Pathfinder	Indefinite	Scott Surovchak	720-377-9682	Scott.Surovchak@lm.doe.gov
Shootaring Canyon, UT	Plateau	Indefinite	Richard Bush	970-248-6073	Richard.Bush@lm.doe.gov
Sweetwater, WY	Kennecott	Indefinite	Scott Surovchak	720-377-9682	Scott.Surovchak@lm.doe.gov
White Mesa, UT	International Uranium	Indefinite	Richard Bush	970-248-6073	Richard.Bush@lm.doe.gov

Erosion at the L-Bar, NM, Disposal Site



Monitor Well Installation at the Shirley Basin South, WY, Disposal Site



Disposal Cell at the Bluewater, NM, Disposal Site



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Institutional Controls

- Institutional Controls (IC's) are implemented by licensees prior to transfer
- IC's incorporate a multi-layered approach including
 - Deed restrictions
 - Easements
 - Environmental covenants
 - Well drilling restrictions
- Institutional Controls
 - Enforceable, durable and protective
 - DOE has no regulatory authority and must rely on local, state, federal instruments and enforcement
- Institutional controls are described in long term surveillance and maintenance plans and must be fully executed



DOE Uranium Leasing Program

- New 10-year leases executed for the 13 active lease tracts, effective April 30, 2008
- New 10-year leases executed for 18 inactive lease tracts, effective June 27, 2008
- To date, no surface-disturbing activities have been conducted by the leaseholders
- Contact Steve Schiesswohl, (720) 377-9683

Borehole Calibration Models

- For gross gamma, spectral gamma, and fission neutron
- Documentation posted at <http://www.LM.doe.gov/land/calibration.htm>
- Contact DOE Grand Junction, Colorado, office, (970) 248-6000

