



# DOE Office of Legacy Management Current Mission Goals 1-5

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U.S. Department of Energy (DOE)  
Office of Legacy Management (LM)  
Waste Management 2014 • March 3, 2014



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# DOE Office of Legacy Management Current Mission Goal 1



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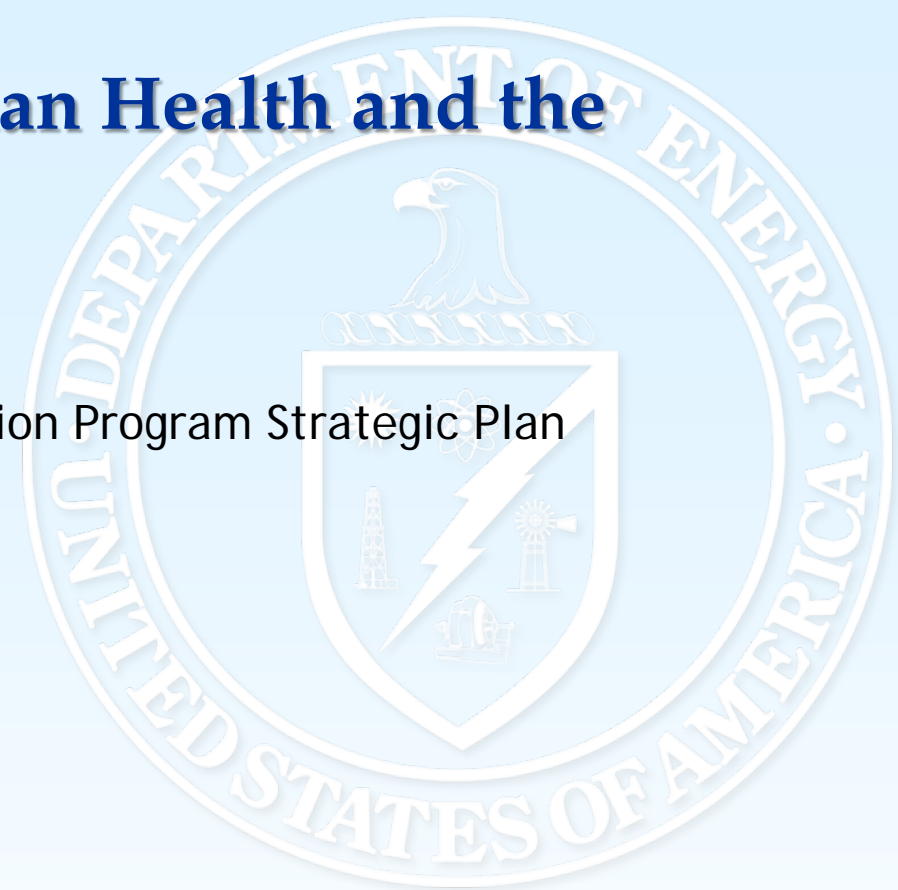


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# LM Goal 1 – Protect Human Health and the Environment

- Groundwater Remedy Updates
- Formerly Utilized Sites Remedial Action Program Strategic Plan
- Enhanced Cover Assessment Project
- Environmental Justice



# Groundwater Remedy Updates

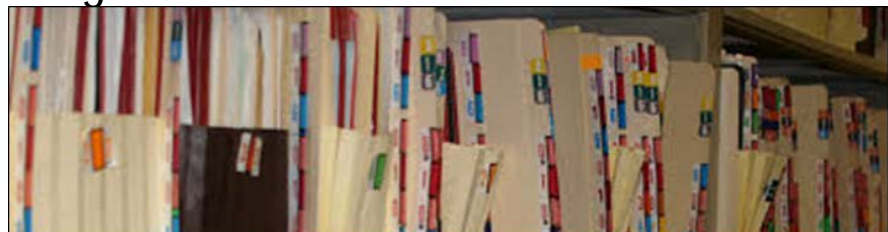
- Fernald - active pump/treat/discharge uranium remedy is not meeting the optimistic end of the date range for completion and thus we are pursuing design changes to increase extraction efficiencies
- Rocky Flats - active and passive treatment systems continue to be optimized, managing to very low site specific uranium standard
- Tuba City - active pump/treat for uranium removal is severely limited due to low water extraction in contaminated aquifer
- Mound - rebound effects in solvent plume continue to require treatment, studying whether to try an alternative passive treatment rather than pump/treat
- Pinellas - LM has conducted supplemental solvent source removal, in-situ biological treatment, now focused on plume stability monitoring
- Weldon Spring - Monitored Natural Attenuation remedy still protective, studying monitoring network locations and reevaluating location and concentration criteria as measurements of success





# Formerly Utilized Sites Remedial Action Program (FUSRAP) Strategic Plan

- LM currently manages 30 FUSRAP sites remediated either by DOE or the U.S. Army Corps of Engineers (USACE)
- Current sites are mostly “records only” sites where the DOE LM mission is to maintain and make available records of the site activities
- 23 additional FUSRAP sites are still to be remediated and most of those sites are more complex and will transition to LM’s long term surveillance with requirements beyond “records only” such as institutional controls, groundwater monitoring or in some cases ongoing remedial actions
- Due to the increased complexity of the FUSRAP sites that have yet to transfer to LM, a review of the program is underway to develop a strategy for resourcing the needs of the future sites
- This review will examine the risk management process for ineligible FUSRAP sites, the roles and responsibilities of DOE and USACE, and the scope, schedule, and cost changes needed to resource LM’s mission



# Enhanced Cover Assessment Project (ECAP)

- Most Uranium Mill Tailings Radiation Control Act (UMTRCA) disposal cells are in arid climates in the western US since that is where the uranium was mined and milled
- Due to low precipitation and arid soil conditions, most UMTRCA disposal cells were designed and built with soil radon barriers covered with rock
- Advantages of top rock layer is good water erosion protection of radon barrier. Disadvantage is rock covers over time (20+ years) can create habitat for deep rooted plants which may penetrate tailings
- Advantages of selected vegetative covers include removal of scarce precipitation (evapotranspiration), thus reducing the possibility of infiltration. Disadvantage of vegetative covers include costs of establishing sustainable cover
- LM decided to study these two types of covers, understand the natural succession processes, and try to measure the relative beneficial and detrimental impacts
- Two test cells were constructed in Grand Junction, CO for side by side comparison of water balance, vegetation, erosion
- Enhancing and thus speeding up transition time will be tested in next few years
- Key is to work with natural processes



# Environmental Justice

- EJ is the fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income with respect to the development, implementation, and enforcement of environmental laws, regulations, and policies.
- We manage a diverse set of activities to ensure that EJ is embraced throughout the Department.
  - We will issue our updated EJ Strategy in March of 2014
  - We will implement our second Five-Year Plan in 2014
  - We also offer EJ Training to employees and contractors across DOE and we support a number of community capacity building, education and public participation projects to increase the awareness and ability to support EJ programs across the country.
  - National Environmental Justice Conference and Training Program, Washington, DC - held annually to bring together participants to dialogue on achieving equality of environmental protection and a free exchange of lessons learned on the concepts for EJ (March 26-28, 2014, [www.thenejc.org](http://www.thenejc.org) )
  - <http://energy.gov/lm/services/environmental-justice>



## Strategic Goal 2

# Preserve, Protect and Make Accessible Legacy Records and Information

Presenter:

Barbara McNeal Lloyd

Director of Business Operations



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# LM Business Center Morgantown, WV



- NARA certified records storage facility
- Awarded 2 LEEDs gold certifications
- Storage Capacity- 150,000 cubic feet
- Temporary records storage for 75 years
- Consolidated Data Center Home



## Yucca Mountain Records and IT systems

- Currently LM's AIM Team is responsible for more than 218 terabytes of electronic information (1 terabyte = 1,000,000,000,000 Bytes) and 110,000 cubic feet of paper records.
- Included in these totals is 130 TB of Yucca Mountain electronic data and 14,320 of records.





# Information Sharing with Wismut GmbH



- German Company, Wismut GmbH requested visit to learn about LM records program
- Visited LM Business Center, Grand Junction Office, and Grand Junction Disposal Cell
- Discussions included records management and technical exchanges

# Strategic Goal 3



## Meet Commitments to the Contractor Workforce

Presenter:  
Barbara McNeal Lloyd  
Director of Business Operations



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# Legacy Contractor Benefit Programs

## Demographics



Site	Pension			Retiree Medical/Life (incl spouses)
	Retirees	Deferred Vested	Total	
Fernald	400	213	613	1,027
Mound	725	636	1,361	1,842
Rocky Flats	4,216	3,086	7,302	6,417
Pinellas	909	488	1,397	614
Ports/Pad	0	0	0	1,114
Gr Junction	0	0	0	197
Yucca Mntn	91	225	316	24
<b>Total</b>	<b>6,341</b>	<b>4,648</b>	<b>10,989</b>	<b>11,235</b>

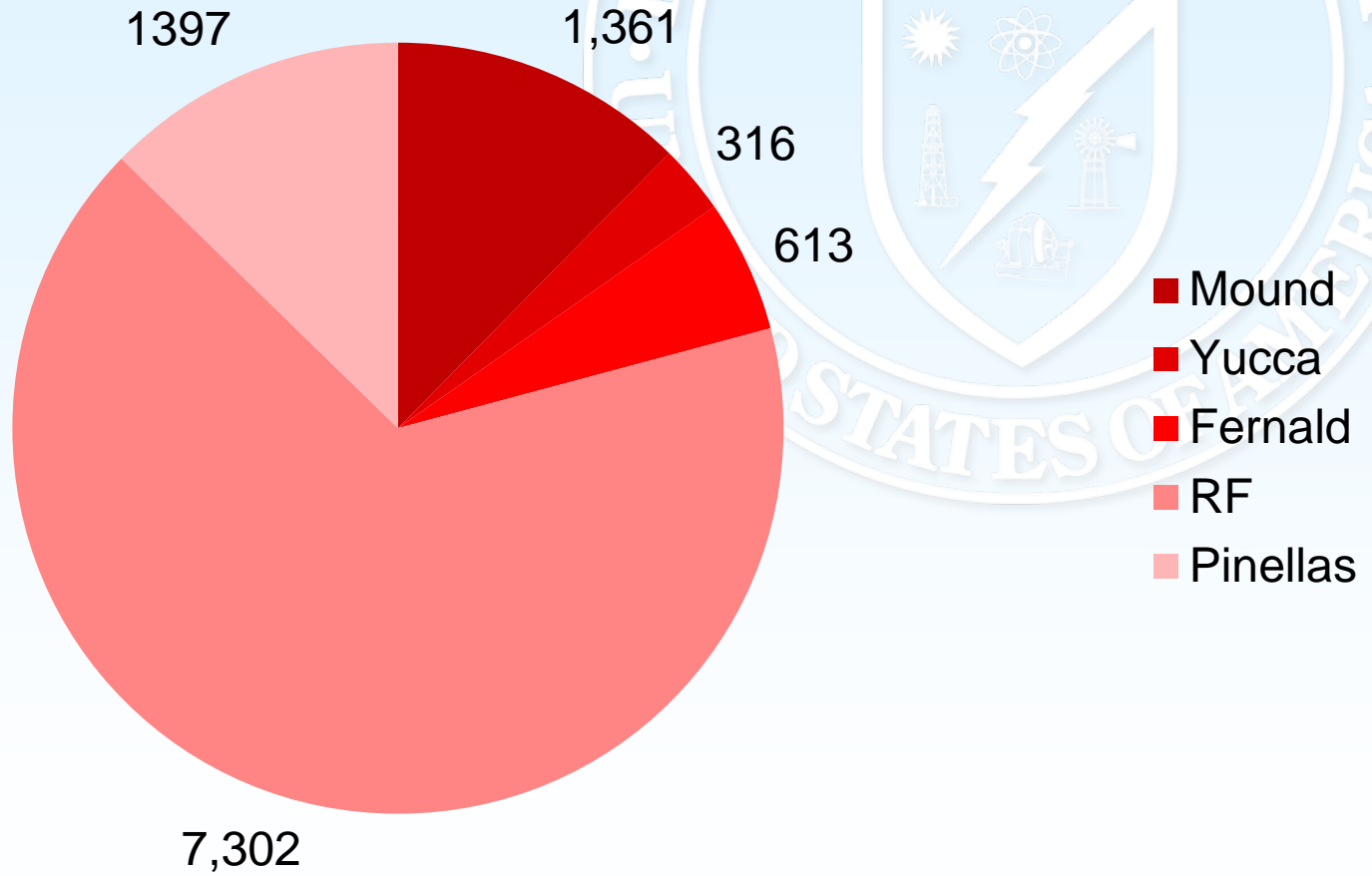


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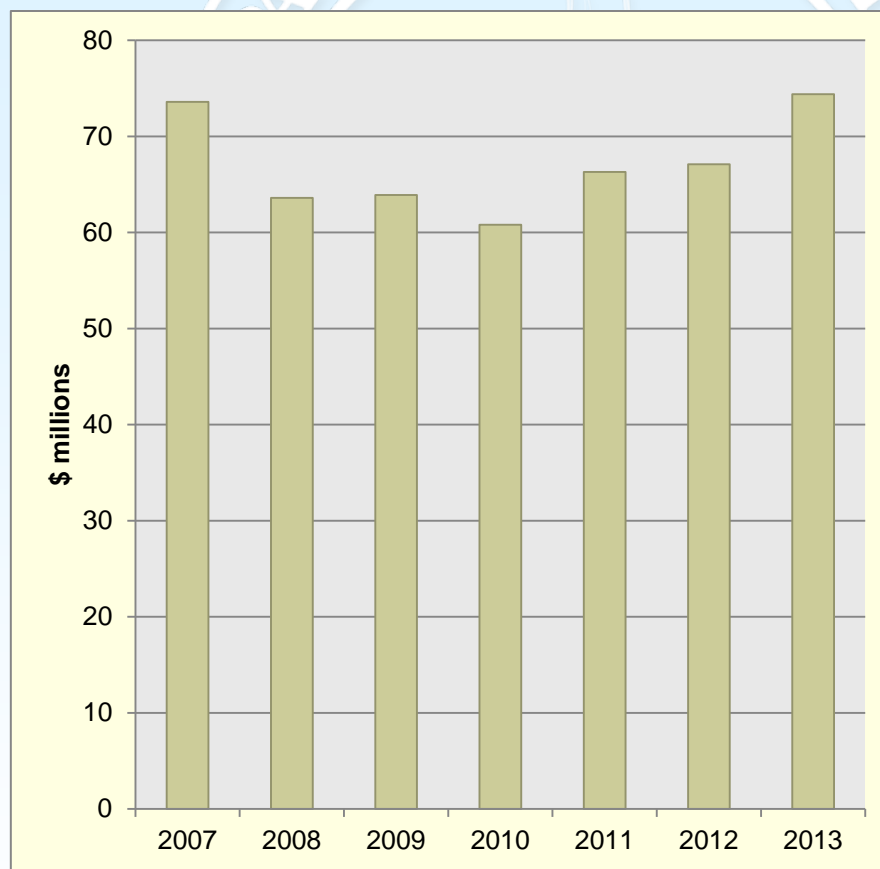


# LM Pension Participants Today



## LM Post-Retirement Benefits Costs

- LM pension plan costs for retired contractor workers is currently zero.
- The costs shown for PRB are primarily medical costs, which are raising slower rates than anticipated.
- Overall medical costs will continue to rise until FY 2021, at which point Medicare coverage and mortality will reduce costs.
- HRA will mitigate future cost increases.



# Current Pension and PRB Actions

	Pension	PRB
<b>Fernald</b>	The contractor is currently closing out the pension plan.	None
<b>Mound</b>	Lump sums offered in FY 2014.	None
<b>Pinellas</b>	DOE has not received a termination request from the contractor	None
<b>Rocky Flats (guards and non-guards)</b>	No current actions; Lump-sum payouts were made in FY 2011.	Institute a Health Reimbursement Arrangement (HRA) in FY 2015
<b>Yucca Mountain</b>	The contractor is currently closing out the pension plan.	None





# DOE Office of Legacy Management Current Mission Goal 4



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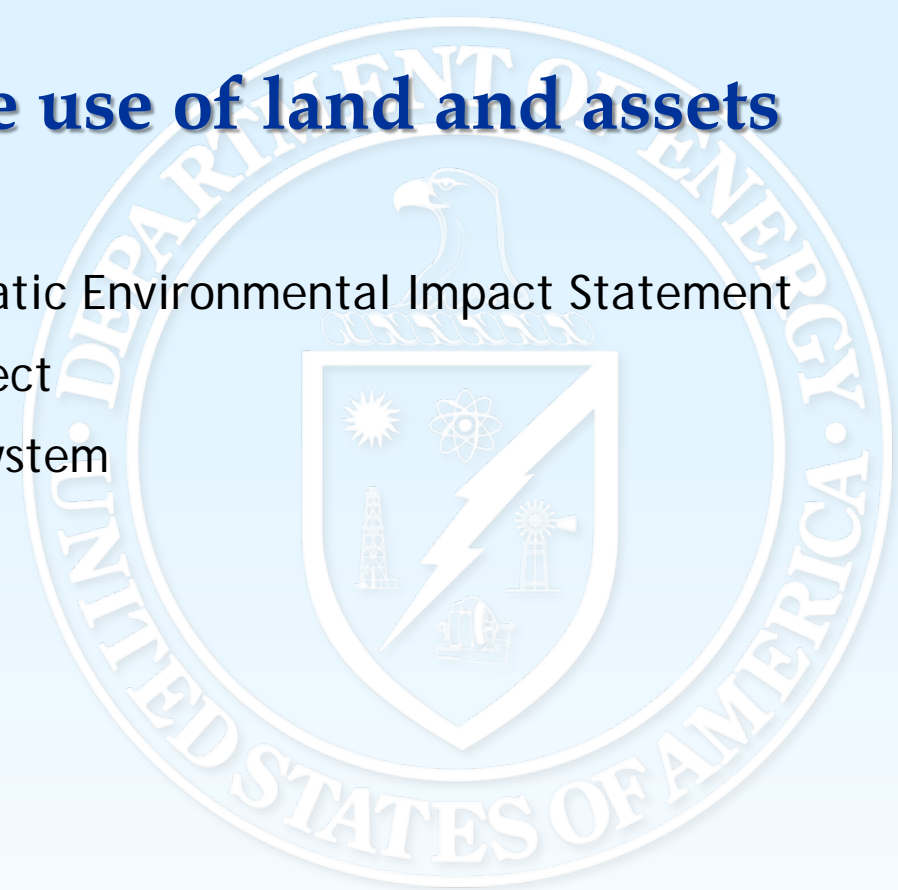
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# LM Goal 4 - Optimize the use of land and assets

- Uranium Leasing Program Programmatic Environmental Impact Statement
- Durango, CO solar energy reuse project
- Institutional Controls Management System



# Uranium Leasing Program Programmatic Environmental Impact Statement

- The ULP began in 1949 when the Atomic Energy Commission was authorized to withdraw public lands and make them available for mining leases to develop a supply of domestic uranium (Approx. 25,000 acres)
- Four leasing programs span the last 60 years producing 8.1 million pounds of uranium and 41.7 million pounds of vanadium
- The program has generated \$65M in royalties. No mining operations are active on the ULP lands at this time.
- After issuing a Programmatic Environmental Assessment (PEA) in 2007 to continue the ULP, DOE was sued in federal court and determined that a Programmatic Environmental Impact Statement (PEIS) should be prepared to further assess the potential environmental impacts, including site specific impacts, associated with ULP activities. The Court stayed the 29 leases in existence and prohibited DOE from issuing any new leases and from approving any activities on lands governed by the ULP.
- The preferred alternative is to continue the ULP with the 31 lease tracts for the next 10 year period or for another reasonable period.
- DOE is in the final process of addressing the comments and completing the Final PEIS with the expected release of the Final PEIS in March 2014.

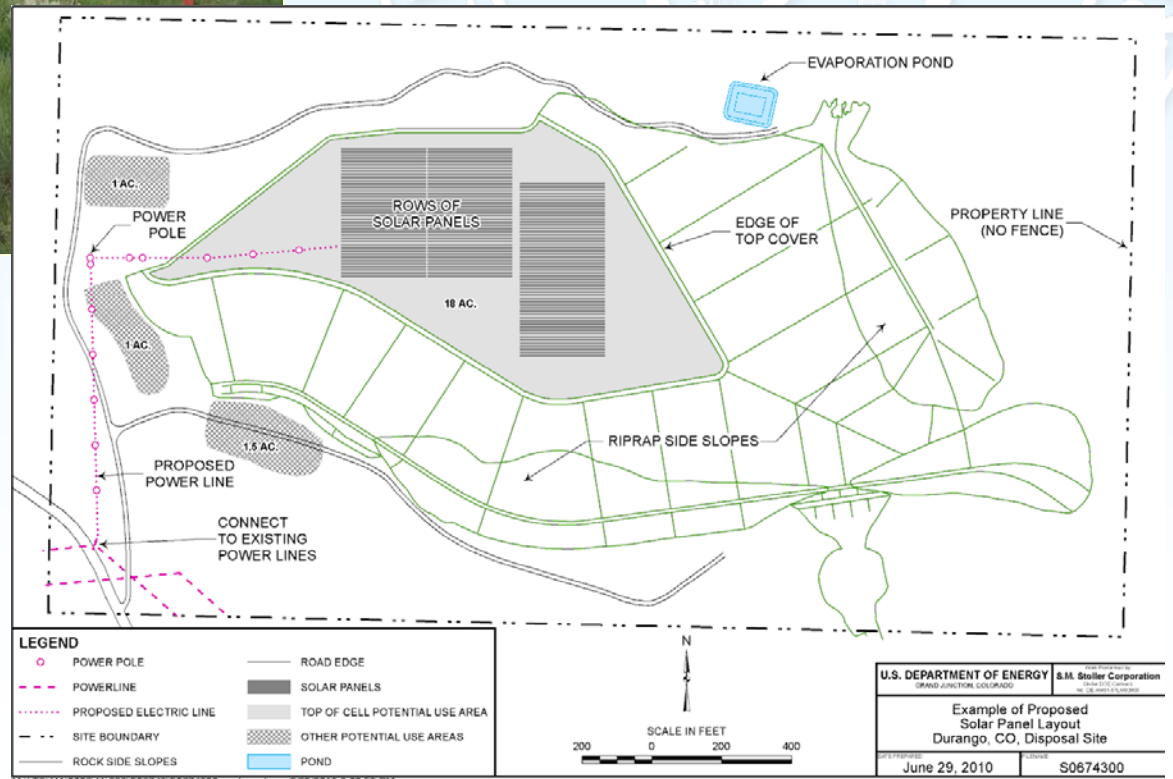


# Durango, CO solar energy reuse project

- DOE signed an “Option and Lease” with a commercial company in September 2012 to build and operate a solar energy array for up to 25 years on the uranium mill tailings cell near Durango.
- It has been estimated that the UMTRCA mill tailings cell could support enough solar panels to generate as much as 4.5 MW of electricity which is enough power to provide for about 1000 homes.
- The company has three years in which to come up with a design as well as to reach an agreement with the local utility to purchase the power.
- A recent development that the company is exploring is making the Durango Solar array be a “solar garden”. La Plata Electric Association took applications from those interested in developing up to 2 megawatts of local community solar gardens.
- The array is tied into the local electric grid and thus provides solar power to subscribers such as individual homeowners, businesses or even renters, as an alternative to individual rooftop panels. This grass roots support on the front end would help assure the success of the project.



# Durango, CO solar energy reuse project



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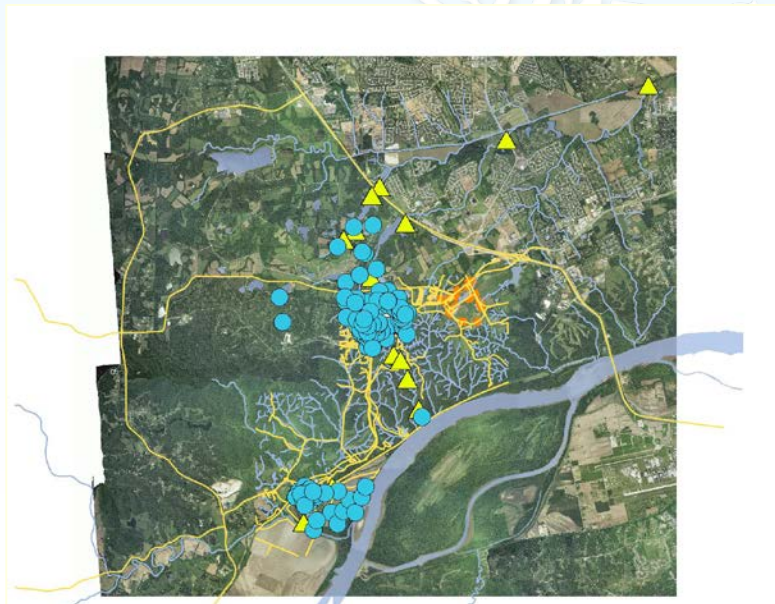
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# Institutional Controls Management System

- Institutional Controls (ICs) are a part of the environmental remedy at 51 of the current 89 Legacy Management sites
- ICs at LM sites include federal ownership, deed restrictions, regulatory requirements, informational signage and physical barriers
- LM believes in a “defense in depth” strategy, layering ICs as appropriate
- Effectiveness of ICs must be measured periodically
- LM is drafting “Guidance for Developing and Implementing Institutional Controls for Long-Term Surveillance and Maintenance at DOE Legacy Management Sites”
- LM is developing an Institutional Control layer in its web-based environmental data system, Geospatial Environmental Mapping System (GEMS), which will display the Institutional Controls in place at individual sites





# Strategic Goal 5

## Sustain Management Excellence



**Presenter:**  
**Barbara McNeal Lloyd**  
**Director of Business Operations**



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## Current 5 HPO Year Proposal Based on President's Six Key Performance Strategies

In September 2010, President Obama identified Six Key Performance Strategies:

- Driving Top Priorities
- Cutting Waste
- Reforming Contracting
- Closing the IT Gap
- Promoting Accountability and Innovation Through Open Government
- Attracting, Motivating and Retaining Top Talent

LM has embraced these strategies and used them as the framework for our HPO program performance and management excellence goals.



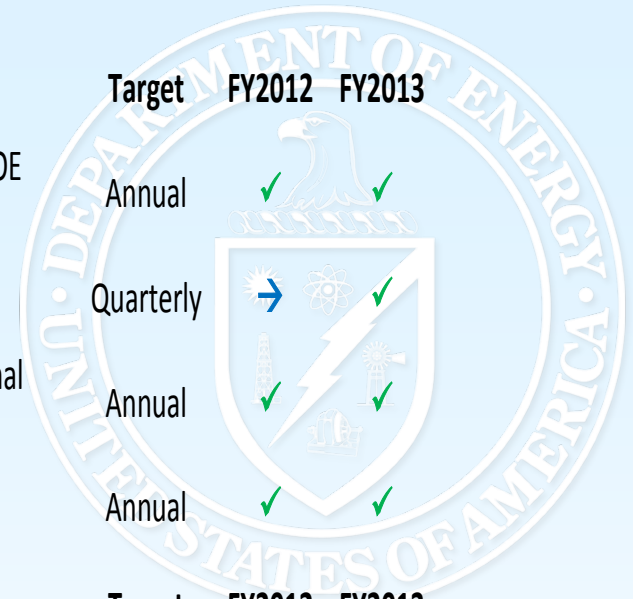
# Management Excellence Goals

## Driving Top Priorities

1. Achieve EMS/Sustainability Goals (normalized to the number of legacy sites). Be a leader among DOE offices in sustainability.\*
2. Publish Post Competition Accountability Report on the LM internet.
3. Conduct independent evaluations of key programs, projects, or technical issues by goal using external auditors.
4. Augment LM Federal staff through the use of intra- and inter-agency agreements.

## Cutting Waste (Improving Efficiency)

5. Transfer workforce restructuring policy and oversight to the DOE Office of Management.
6. Manage increases in scope by raising Federal staff levels by 1 FTE per year to a total of 64 in FY2016.
7. Limit program direction increases to levels allowed by OMB for inflation.
8. Maintain LM's average grade level at GS 13.0.
9. Close the LM Federal office in Las Vegas.



Target FY2012 FY2013

Annual ✓ ✓

Quarterly → ✓

Annual ✓ ✓

Annual ✓ ✓

Target FY2012 FY2013

FY2013 → □

FY2016 57 56

Annual ✓ ✓

Annual 13.09 12.67

FY2013 □



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# Management Excellence Goals - Continued

## Reform Contracting

	Target	FY2012	FY2013
10. Procure a 5-year, small business, performance-based incentive contract for environmental surveillance and maintenance, records management and property reuse.	1Q, FY2013	↓	↓
11. Certify all LM task and sub-task monitors are Level II CORs and trained on new contract requirements.	March 2013	→	□

## Closing the IT Gap

	Target	FY2012	FY2013
12. Increase telework by 20%, enhance security and reduce LM's carbon footprint by switching desktop computers to laptops with docking stations.	FY2012	□	

## Promoting Accountability and Innovation Through Open Government

	Target	FY2012	FY2013
13. Maintain a safety record better than the DOE average.	Annual	✓	✓
14. Baseline stakeholder satisfaction with LM performance in FY2012; improve satisfaction level by 10% in FY2015.	FY2015	→	→

## Attracting, Motivating and Retaining Top Talent

	Target	FY2012	FY2013
15. Score ≥5% above the DOE average on the annual OPM Federal Employee Viewpoint Survey.*	Annual	10%	9%
16. Maintain LM as one of the most diverse and inclusive organizations in DOE.*	Annual	✓	✓
17. Complete implementation of ≥90% of the actions identified in the LM 2011-15 HCMP.	Annual	✓	✓
18. Eliminate non-supervisory GS-15 positions. Transfer salary and grade 'room' to expand the number of career ladders to the GS-14 level.	FY2016	→	→

# Status of Current HPO Proposal

- Signed by S-2 and submitted to OMB on June 22, 2012
- Briefed OMB Examiner and others on January 18, 2013
- Authorized use of new performance measures
- OMB examiner actively engaged in gaining support for LM recertification
- S-2 met with New OMB Deputy Director on February 26, 2014 - Expect OMB Decision shortly

