

Accelerated Gaseous Diffusion Plant Cleanup Approaches



UCOR
URS | CH2M
Oak Ridge LLC



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How to Work Safely

- Safety culture
- Management commitment
- Worker involvement
- SCWE partnership



Successful Partnerships



Cleanup Delivery

K-31 demolition



EMWMF

- Right sizing characterization efforts
- Establishing and maintaining the acceleration and momentum
- Critical importance of Waste Factory
- D&D delivery sequence
- Levelized trained workforce

K-25 demolition completed



K-27 deactivation

*Investment
Worthiness*



Investment Worthiness

our project brand

- Buy down risk with efficiencies
 - Accelerated cleanup LEAN approach
- **\$ saved = \$ reinvested**
CPI = 1.12 (Each \$1.00 worth of work is completed for \$0.89, thus 0.11 is reinvested)
 - K-31 early start
 - K-892/762 demo accelerated
 - Mega parcel reindustrialization
- Integrated Priority List (IPL)
Buyback and work sequencing



Contract and Project Management

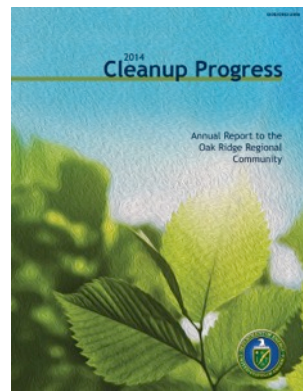
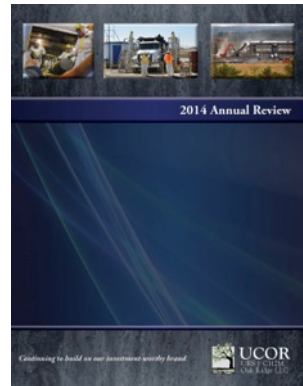
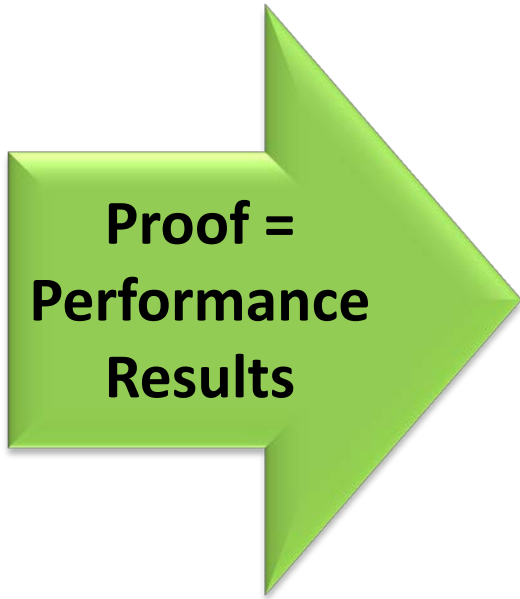
“maintaining alignment”

- Project Enterprise application
- Horizontal and vertical depth and integration
- Managing alignment as a direct activity
- Importance of project integration
- {Contract paces project}
Keeping authorized scope out in front of work execution



Balanced Score Card

Monitoring Performance and Plan effectiveness



UCOR ETP Project Contract to Date (CTD) Performance As of December 2014 (41 Months)

- 2.4M (2,377,289) square feet of a Category 2 Building demolished (K-25).
- 508,049 square feet demolished of K-31.
- 8,911 square feet demolished of other FIMS identified Other Industrial Facilities (4 Bldgs. at K-25).
- 208,735 cubic meters (m³) of nuclear waste disposed.
 - 205,725 m³ D&D Waste.
 - 3,010 m³ Legacy Waste (waste generated and included in storage prior to the end of FY 2000 and Newly Generated Waste).
- Dispositioned to EMWMF – 36,328 loads (waste and fill).
- \$21.1M favorable schedule variance.
 - ~\$514K/month avg. scope acceleration.
- \$105.7M favorable cost variance.
 - ~ \$2.6M/month avg. cost savings.
- Completed Tank W-1A removal and disposal (ORNL).
- Completed K-1070B closure (ETTP).
- Completed Toxic Substance Control Act Incinerator (TSCAD) Resource Conservation and Recovery Act (RCRA) closure (ETTP).
- Completed Central Neutralization Facility (CNF) Closure Project (ETTP).
- Completed the K-25 D&D Project.
- Infrastructure Improvements:
 - Completed Bldg. 3038 stabilization activities.
 - Installed a new roof section on Bldg. 2099 (Y-12).
 - Completed the 9201-4 (Alpha 4) roof repair campaign across the nearly four-acre roof footprint.
 - Assumed responsibility of Bldg. 3026, completed area stabilization activities and provided a technical justification to downgrade the Hot Cells area to a Radiological Facility (ORNL).
 - Demolished and disposed the Bldg. 3005 Annex (ORNL).
- Surveillance and Maintenance:
 - Completed 911 Emergency Services transition from UCOR to the City of Oak Ridge.
 - Completed K-1037 fire protection repair, eliminating all routine four hour fire protection rounds.
 - Completed 4 of 5 RCRA Permit area closures at K-1423.
 - Completed the 3042 Reactor Pool Seep immediate actions and evaluated alternatives for leak detection, leak repair, and hazard removals.

UCOR FY 2015	
	Thru Dec 2014
UCOR Project Performance FY 2015 to Date	Value (1,000s)
FYTD BCWS	68,104
FYTD BCWP	66,617
FYTD ACWP	56,955
FYTD SV	(1,487)
FYTD CV	9,662
FYTD SPI	0.98
FYTD CPI	1.17

UCOR Contract	
	Thru Dec 2014
UCOR Project Performance Contract to Date	Value (1,000s)
CTD BCWS	999,196
CTD BCWP	1,020,300
CTD ACWP	914,621
CTD SV	21,104
CTD CV	105,679
CTD SPI	1.02
CTD CPI	1.12



Vision is Achievable

Vision 2016

Completion of all GDP demolition at ETPP; Continue ongoing preparatory activities at Y-12 and ORNL

Vision 2020

Remaining portion of ETPP cleaned up and reindustrialized

Vision 2024

Expand cleanup work to Y-12 to address mercury contamination, including Alpha and Beta facilities D&D



- ***Partnership makes projects successful***
- ***Waste management is foundational to the D&D approach and critical to efficient cleanup***
- ***Contract management is a conduit to enable project delivery***



This is the Accelerated Cleanup at ETTP, and has resulted in National Priority List/Federal Facility Agreement Delivery & ETTP Reindustrialization



Q&A

