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URS | CH2M
Oak Ridge LLC

*Safely Delivering the Department of Energy's Vision
for the East Tennessee Technology Park Mission*

East Tennessee Technology Park (ETTP) Project Status

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UCOR

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Current D&D Scope

- K-31 approximately 50% complete
- Bldg. 892 100% complete
- Deactivation in K-27 approximately 65% complete
- Bldg. 761 to begin in May '15
- Planning currently in progress for Poplar Creek facilities and Bldg. 1037
- Future D&D scope includes CNF, TSCA, Centrifuge facility, and miscellaneous facilities

Project Group*	WBS Number	WBS Project*	Waste Type	Unit	TOTAL to be DISPOSED
ETTP / Base / DOE	01.21.06.50.01.01	K-1037 and K-1037C	LLW	yd3	36,460
	01.21.06.50.02.03	Poplar Creek Facilities	LLW	yd3	17,564
			RCRA/LLW	yd3	429
			Sanitary/ Industrial	yd3	7,376
			TSCA	yd3	8,089
	01.21.06.50.02.06	Central Neutralization Facility	LLW	yd3	5,743
	01.21.06.50.02.07	TSCA Incinerator Facilities	LLW	yd3	5,385
	01.21.06.50.02.08	Balance of Site Facilities	LLW	yd3	25,115
	01.21.06.50.04.01	Zone 2 Final Remedial Actions	LLW	yd3	185,967
01.21.11.50.01.02	Centrifuge Facilities	LLW	yd3	32,627	
		RCRA/LLW	yd3	80	
ETTP / Base / DOE Total					324,835
UCOR / D&D	1.12.02.02.03.05	K-27 Deactivation Waste	LLW	yd3	5,018
			Recycle	yd3	24
	1.12.02.02.03.11	K-27 Tie Lines	LLW	yd3	197
	1.12.02.02.04.04	K-27 Demolition Waste	LLW	yd3	216
	1.12.02.02.04.05	K-27 Demolition Waste	LLW	yd3	71,693
	1.12.02.02.09.09	Balance of Facilities D&D	RCRA	yd3	3
			Recycle	yd3	41
			Sanitary/ Industrial	yd3	3,942
	1.12.02.02.17.05	K-31 Waste Treatment / Shipment (Deactivation)	LLW	yd3	2
			Recycle	yd3	15
	1.12.02.02.18.05	K-31 Waste	LLW	yd3	54,668
RCRA/LLW			yd3	14	
Sanitary/ Industrial			yd3	11,823	
UCOR / D&D Total					147,657
Grand Total					472,492

D&D Challenges

- Funding availability and release of various scope to keep staffing and momentum
- Regulatory approval on waste characterization strategy
- EMWMF WAC approval process
- Tc99 Myth Busted
 - However, better control needed at demo face and disposal cell based on lessons learned from K-25

Waste Management



Waste Management (cont.)



WM Staff Supporting the Community



Waste Management Challenges

- **Nickel**

- ~6900 containers of trash contaminated with nickel
- CROET would like facilities where nickel is stored for re-industrialization
- UCOR would like to dispose of nickel at EMWMF
- Awaiting direction from DOE HQ
- Need decision to allow time for dispositioning before ETTP contract is complete

- **High Activity Waste from ORNL**

- Various waste streams exist that may require hot-cell capabilities
- Shut-down of M&EC Southbay impacts option for high activity waste from ORNL

Waste Management Challenges (cont.)

- **NNSS – Last Resort**
- **New ID/IQ Waste Treatment/Disposal Contract**
 - Labor intensive for generator and TSDF since individually competed
- **Sodium Shields**
 - PRA submitted to State of Utah allowing in-cell macroencapsulation
 - Transportation/Packaging Safety Plan being finalized
 - Obtaining cost estimate for disposition
 - Once approval is granted from State of Utah, funding will be requested from DOE and project will be scheduled

Waste Management Challenges (cont.)

- **EMDF**

- RI/FS being finalized for submittal to TDEC in spring '15
- Siting concerns from Regulators
- Political concerns
- Study recently completed reflected in-cell macroencapsulation is most cost effective, efficient disposition for Hg contaminated bldg. debris

- **Dioxin/Furan waste stream**

- NuVision to start treatability study soon with support from onsite MCL Laboratory