



U.S. DEPARTMENT OF
ENERGY

OFFICE OF
**ENVIRONMENTAL
MANAGEMENT**

Educational Session #1 – Discussion on DOE's National Recycling Policy

Christine M. Gelles

Deputy Assistant Secretary for Waste Management
Office of Environmental Management

EM SSAB Chairs Meeting

5 November 2013

SSAB Discussion Outline

- Nickel Background/Status/Path Forward

Background: Volumetrically Contaminated Nickel Recycling

- The Secretarial policy restrictions are in place:
 - January 12, 2000, ***Moratorium*** prohibits unrestricted release of volumetrically-contaminated metal into commerce
 - July 13, 2000, ***Suspension*** prohibits unrestricted release of all scrap metals from DOE radiological areas into commerce

- Total Estimated Contaminated Nickel Inventory = 30,300 tons
 - Oak Ridge (ETTP) stored barrier shreds 5,600 tons
 - Paducah ingots 9,700 tons
 - Future Stocks
 - Projected Portsmouth D&D (~2014 – 2017) ~6,400 tons
 - Projected Paducah D&D (~2019 – 2023) ~8,600 tons

Background (cont'd): Volumetrically Contaminated Nickel Recycling

- EM-1 response to the 2/27/2013 *EM SSAB recommendation* to place more emphasis and priority on evaluating technologies to make recycling excess materials cost effective:
 - Decontamination and resale of excess materials have many positive impacts
 - Adding recycling and repurposing element to future cleanup contract is a fine concept to be explored
 - Potential consideration of the establishment of a national recycling center of excellence

Status: Volumetrically Contaminated Nickel Recycling

- Request for Task Proposal for Paducah Deactivation, DE-SOL-0004563, issued August 9, 2013
 - Section C.1.2.2.15 requires development of Recycling Program Plan to evaluate scrap metal recycling options per DOE policy restrictions
 - Procurement on-going. Award expected in 2014.
- Ongoing Portsmouth FBP bench testing to evaluate carbonyl technology to decontaminate Portsmouth nickel, such that it could be safely recycled
 - Estimated completion by May 2014
 - FBP's Nickel Carbonyl Bench Evaluation Plan posted on:
<http://fbportsmouth.com/projects/nickel-carbonyl-recovery/index.htm>

Path Forward: Volumetrically Contaminated Nickel Recycling

- DOE evaluating options for nickel recycling.
- Potential benefits of recycling include:
 - Making best use of a valuable asset
 - Providing potentially significant source of funds for on-going cleanup work
 - Potential creation of new jobs near DOE sites and in host communities
 - Avoids disposal costs by reducing volumes
 - Reduces annual surveillance and maintenance costs
 - Provides waste minimization