

Green Cleanup Standards Initiative

Region 5 - Greener Cleanup Workshop February 9, 2010

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U.S. Environmental Protection Agency

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Greener Cleanup Principles

Greenhouse Gases & Energy

- Minimize Air Pollutants and Greenhouse Gas Emissions
- Minimize Total Energy Use and Maximize Use of Renewable Energy

Resource Conservation

- Reduce Reuse and Recycle Material and Waste
- Minimize Water Use and Impacts to Water Resources
- Protect Land and Ecosystems

Challenge #1

Balancing Factors

- Long-term reliability
- Reduction of toxicity, mobility or volume
- Short-term effectiveness
- Ease of implementation
- Cost
- Community acceptance
- State acceptance

Greener Cleanup Goals

Minimize air pollutants and greenhouse gas emissions

- Minimize total energy use and maximize use of renewable energy
- Reduce reuse and recycle material and waste
- Minimize water use and imacts to water resources
 - Protect land and ecosystems

Challenge #2

Regulatory Frameworks

- Superfund
- RCRA
- Federal Facilities
- Tanks
- Brownfields

Greener Cleanup Goals

- Minimize air pollutants and greenhouse gas emissions
- Minimize total energy use and maximize use of renewable energy
- Reduce, reuse and recycle material and waste
- Minimize water use and impacts to water resources
- Protect land and ecosystems

Solution: Green Cleanup Standard

- Growing interest in social responsibility
- Companies have internal goals to become greener
- Could use new tools being developed
- Build upon state and local government incentives
- USGBC expressed need
- Leverage resources in the private sector
- Could be applied across regulatory structures
- Could be updated as field evolves
- Might address greenwashing
- May provide measurable results

Green Cleanup Standards Workgroup

- OSRTI (Superfund)
- ORCR (RCRA)
- OBLR (Brownfields)
- FFRRO (Federal Facilities)
- OUST (Tanks)
- CPA (Cross program)
- OSRE (Enforcement)
- Regions 3 (lead), 2, 5, 6, 7, 8, 9
- Groundwater, Engineering and Federal Facilities Forums
- ASTSWMO (Illinois lead), MA, CA, WI
- NIST (National Institute of Standards & Technology)
- EPA's Standards Executive

Standards Development

National Technology Transfer and Advancement Act (NTTAA)

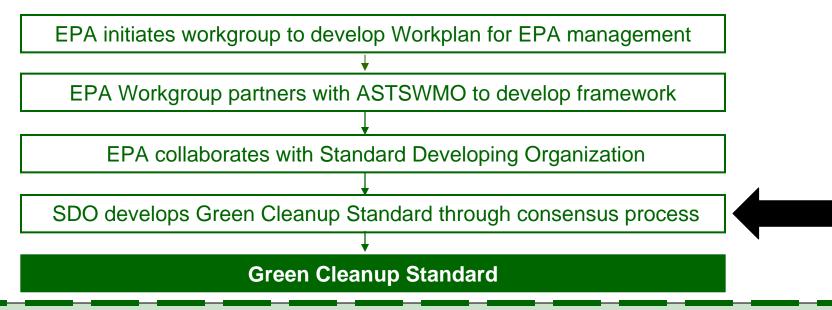
- Enacted February 1996
- Requires federal agencies to develop standards through a consensus process

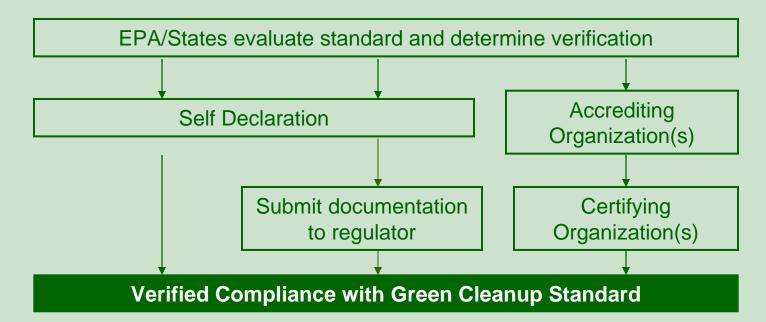


Key Workgroup Accomplishments

- Identified green cleanup core elements incorporated into OSWER's Greener Cleanup Principles
- Agreed to collaborate with ASTM International to develop a standard
- Facilitate dialogue among EPA and State regulators contributing to the standard's development

Conceptual Development for Green Cleanups Standard





Key Attributes

- Voluntary Not mandating new cleanup evaluation
- Transparent Consensus based development
- Universal Easier for stakeholders to implement
- Flexible Program or State-specific verification options
- Market Driven Promote innovative approaches
- Verifiable Documentation to support decisions



Key Challenges

- Accommodating various regulatory structures and technical issues
- Keeping it pragmatic (given site specific nature of cleanups)
- Defining boundaries (cleanup vs. reuse; LCA)
- Preventing greenwashing



ASTM Timeline

- October: Kick-off meeting in Atlanta
- Nov-March: Developing draft
- April: Meeting in St. Louis



Additional Information

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http://www.clu-in.org/greenremediation/subtab_b5.cfm http://www.astm.org/

