



Pollution Prevention Reporting

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Drivers to Reduce, Reuse, Recycle and Purchase Environmentally Preferable Products

- RCRA 6002
 - Waste prevention reduces the nation's reliance on natural resources
 - Recycling effects the more efficient use of natural resources
 - Purchasing [green] increases opportunities of all these benefits



Governing Principles

- “...national policy to prefer pollution prevention, whenever feasible.
- Pollution that cannot be prevented or recycled should be treated in an environmentally safe manner.
- Disposal should be employed only as a last resort.”
EO 13101
- Reduce, Reuse, Recycle



Greening the Government Executive Orders

- Brief Summary of Greening the Government Executive Orders
- EO 13101- Greening the Government through Waste Prevention, Recycling, and Federal Acquisition - President Clinton issued EO 13101 in September, 1998 to improve the Federal Government's use of recycled products and environmentally preferable products and services.
- EO 13123- Greening the Government Through Efficient Energy Management - President Clinton issued EO 13123 in June 1999 in order to engage the federal government in an effective energy management program. EO 13123 encourages government agencies to promote energy efficiency, water conservation, and the use of renewable energy products. It is also designed to help foster markets for new environmentally conscious technologies.
- EO 13221- Energy Efficient Standby Power Devices - President Bush issued EO 13221 in July 2001 as a supplement to EO 13123 that calls on Federal agencies to purchase energy using products that have standby power devices to acquire models that use one watt or less of energy while in their standby mode.
- EO 13148- Greening the Government Through Leadership in Environmental Management - President Clinton issued EO 13148 in April 2000 which requires that environmental accountability be integrated into the federal government's day-to-day decision making and long-term planning processes. In particular, to EO requires that by December 31, 2005, each agency shall implement an environmental management system at all appropriate agency facilities based on facility size, complexity, and the environmental aspects of facility operations. Annual reporting by agency is required. Each agency is to adopt goals for toxic chemical use and release reduction, including ozone depleting chemicals. Agencies are also to adopt environmentally and economically beneficial landscape practices.
- EO 13149- Greening the Government Through Federal Fleet and Transportation Efficiency - President Clinton issued EO 13149 in April 2000 to ensure that the Federal Government exercises leadership in the reduction of petroleum consumption through improvements in fleet fuel efficiency and the use of alternative fuel vehicles and alternative fuels. Reduced petroleum use and the displacement of petroleum by alternative fuels will help promote markets for more alternative fuel and fuel efficient vehicles, encourage new technologies, enhance the United States' energy self-sufficiency and security, and ensure a healthier environment through the reduction of greenhouse gases and other pollutants in the atmosphere. Annual reporting by agency is included.



Sustainability

- We define sustainable environmental stewardship to include those concepts, strategies, tools, practices, and approaches that lead to environmental improvement in a manner that is sustainable over time, considers the long term effects as well as the shorter term, more immediate effect that contributes positively, even if indirectly, to the social and economic condition.
- OFEE**

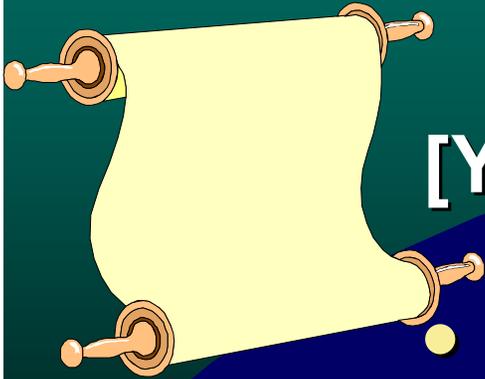


Presentations – Environmental Preferability Issues

- Recycled content requirements
- Biobased requirements
- Air quality requirements
- Effluent requirements
- Cost requirements, etc.



Policy Statement - Content



[Your organization] is committed to

- Reduce waste up front where it counts
- Reuse whatever is feasible
- Recycle the rest
- Purchase environmentally preferable products



Policy Statement - Example



- **[Your organization] is committed to operating in a manner that protects and restores the environment and promotes efficient use of natural resources, reduced waste generation at the source, procurement of environmentally preferable products, and the reuse and recycle of materials to the greatest extent that is economically practical. Achieving this goal requires the full participation of all staff. The requirements, procedures, and suggested guidelines in [name of organization's guide] will help staff reduce or eliminate waste, reduce operating costs, and measure and report waste reduction and prevention.**



DOE P2E2 Key Environmental Objectives

- Design and operate facilities using P2 and minimal waste generation by lowest life cycle costs
- Reduce harmful materials, toxic chemicals, ozone-depleting substances and greenhouse gases
- Increase energy efficiency of buildings and use clean energy sources
- Increase fleet efficiency and alternative fuels including fuels and products
- Purchase environmentally friendly products/services

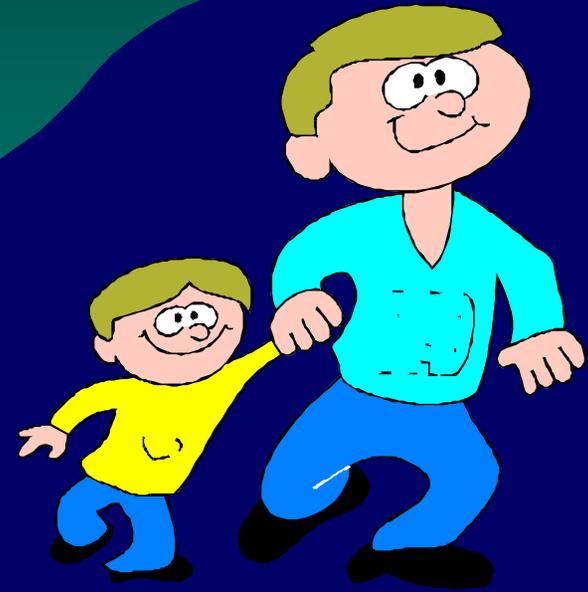


• Bill Richardson memo 11/12/1999



Technical Assistance

- Identify who staff should call for what
 - Waste Reduction
 - Reuse Program
 - Recycling
 - Buying Green
 - Energy/Water Conservation
 - Environmental Sustainability in Design
 - Employee Involvement
- Advertise it everywhere
- Fund it



Ingredients: RFPs, Contracts, Agreements, Specifications

- Reduce – Example: Take back packaging
- Reuse – Example: Refillable containers
- Recycle – Example: All materials recyclable
- Buy Green – Examples:
 - Energy/water efficient
 - Biobased
 - Recycled
 - Can safely be disposed of down the sink



Closed Loop Agreements – Examples: Cartridges, Ceiling Tiles, Oil



DOE Waste Reduction Performance

TYPE OF WASTE	1993 Baseline Waste Gen (mt)	2005 Goal Waste Gen (mt)	2003 Status Waste Gen (mt)	Waste reduction needed to meet 2005 goal	% Reduction made to date	2005 Goal % (baseline reduction)
Transuranic Waste	708	142	187	45	74%	80%
Low Level Radioactive	41,653	8,331	12,560	4,229	70%	80%
Low Level Mixed	3,324	665	281	0	92%	80%
Hazardous Waste	14,419	1,442	1,285	0	91%	90%
 Sanitary Waste	121,544	30,386	27,902	0	77%	12



Recycler's World -

Recycler's World was established on May 1, 1995 as a trading site for information

- related to recyclable commodities, by-products, used & surplus items.
- <http://www.recycle.net/exchange/index.html>

- Features [Buy/Sell/Trade](#)
[MarketPlace](#)
[RecycleNet Composite Index](#)
[add your company](#)

Recycling
[Equipment](#) [New Equipment](#)
[Used Equipment](#)
[Equipment Finder](#)

On-Line
[Directories](#) [Associations](#)
[Publications](#)
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[Recyclers](#)
[World Wide](#)

Consumer
[Sections](#) [Used Building Materials](#)
[Used Consumer Items](#)
[Collectible Items](#)



Recycler's World - continued

Main Menu

- [Automotive Recycling](#)
- [Used Auto Parts Finder Service](#) -
- [Battery Recycling](#)
- [Computer Recycling](#)
- [Scrap Iron & Steel](#)
- [Non-Ferrous Scrap Metal](#)
- [Exotic Metals Recycling](#)
- [Precious Metals Recycling](#)
- [Mineral Recycling](#)
- [Glass/Fiberglass Recycling](#)



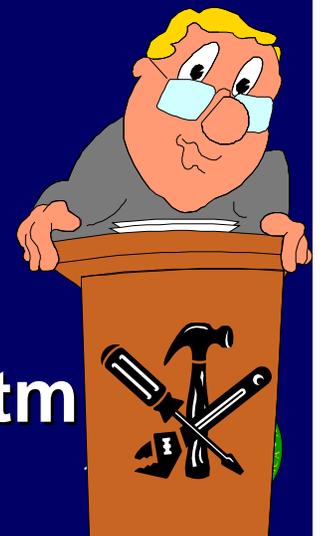
Recycler's World - continued

- Plastics Recycling
- Wood Recycling
- Waste Paper Recycling
- Tire & Rubber Recycling
- Textiles & Leather Recycling
- Liquids, Oils & Chemicals Recovery
- Compost & Food Waste
- Multi Material Recycling
- Waste Collection, Haulage & Disposal
- Used Equipment (All Types)
- Used Commercial Goods



Presentations – Tools for Evaluating EP Issues (cont)

- EPA EnergyStar
<http://www.energystar.gov/>
- EPA Decision Wizard: Cleaning Products
<http://www.epa.gov/opptintr/epp/cleaners/select/>
- GreenSeal specifications for cleaning products
http://www.greenseal.org/pdf/gs_EE.pdf
- <http://www.epa.gov/sustainability/tools.htm>



Presentations – Tools for Evaluating EP Issues

- EPA Final Guidance on Environmentally Preferable Purchasing
<http://www.epa.gov/opptintr/epp/finalguidancetoc.htm>
- EPA Comprehensive Procurement Guidelines
<http://www.epa.gov/epaoswer/non-hw/procure/products.htm>
- EPA Greening Uncle Sam (GUS) Database
<http://www.epa.gov/oppt/epp/database.htm>



U.S. Department of Energy Greening the Government Team

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