



SAND2010-4296C

Recycling Revenues Reinvested for Remarkable Results

Go Full Circle

June 22, 2010

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Pollution Prevention Program
Sandia National Laboratories, NM

Reduce, Reuse, Recycle, **Buy Green**



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Vision

- **The P2 program promotes and integrates environmental sustainability into all Sandia operations.**
 - **To promote and integrate environmental sustainability, the P2 program will seek to achieve 100 percent recycling of all recyclable commodities**

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Authorizing Legislation

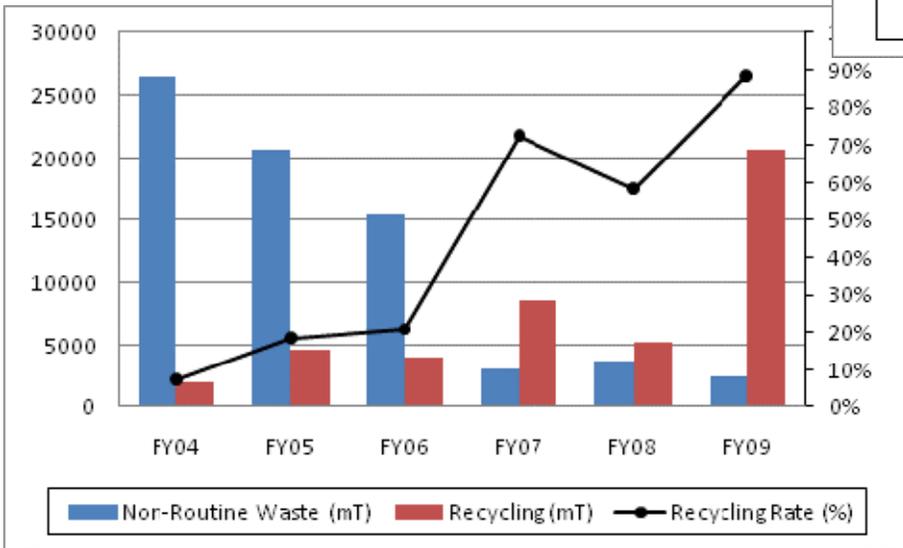
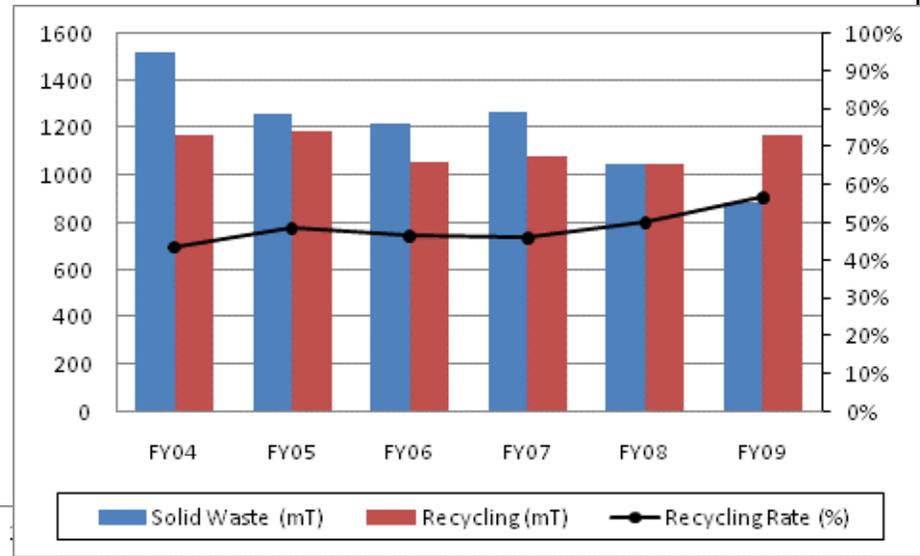
Public Law 103-329 (FY95) Section 608

- In addition to funds provided in this or any other Act, all Federal agencies are authorized to receive and use funds resulting from the sale of materials recovered through recycling or waste prevention programs. Such funds shall be available until expended for the following purposes:
 - (1) Acquisition, waste reduction and prevention and recycling programs as described in Executive Order 12873 (October 20, 1993), including any such programs adopted prior to the effective date of the Executive Order.
 - (2) Other Federal agency environmental management programs, including but not limited to, the development and implementation of hazardous waste management and pollution prevention programs.
 - (3) Other employee programs as authorized by law or as deemed appropriate by the head of the Federal agency.



Recycling Performance

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Recycling Revenues

	First 8 months	Full year	Net (of KAFB proceeds)	Paper & Scrap Metal
FY10	\$ 128,176			86%
FY09	\$ 121,773	\$ 162,276	\$ 146,469	79%
FY08	\$ 177,393	\$ 232,063	\$ 190,032	93%
FY07	\$ 123,399	\$ 169,784	\$ 141,796	73%
FY06	\$ 108,374	\$ 150,054	\$ 134,247	84%

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What's needed

What's needed for good revenues

- Identify the markets and the vendors
- Provide the containers and the infrastructure
 - Convenience, signage
- Minimize or eliminate contamination
- Full shipments
 - bales

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What's needed





Example of purchases

- **Shrink wrap machines & PM**
- **Foam densifier equipment**
- **Roll-offs and tilt hoppers**
- **Dumpsters**
- **Bins (battery recycling, composting)**
- **Signage**
- **Occasionally**
 - **Pallets (when exceeding our salvage)**
 - **Gaylord boxes (recently solicited suppliers)**

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Example of purchases



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“The P2 Tent”

- Staging area for electronics prior to recycle
- Installed June 2007

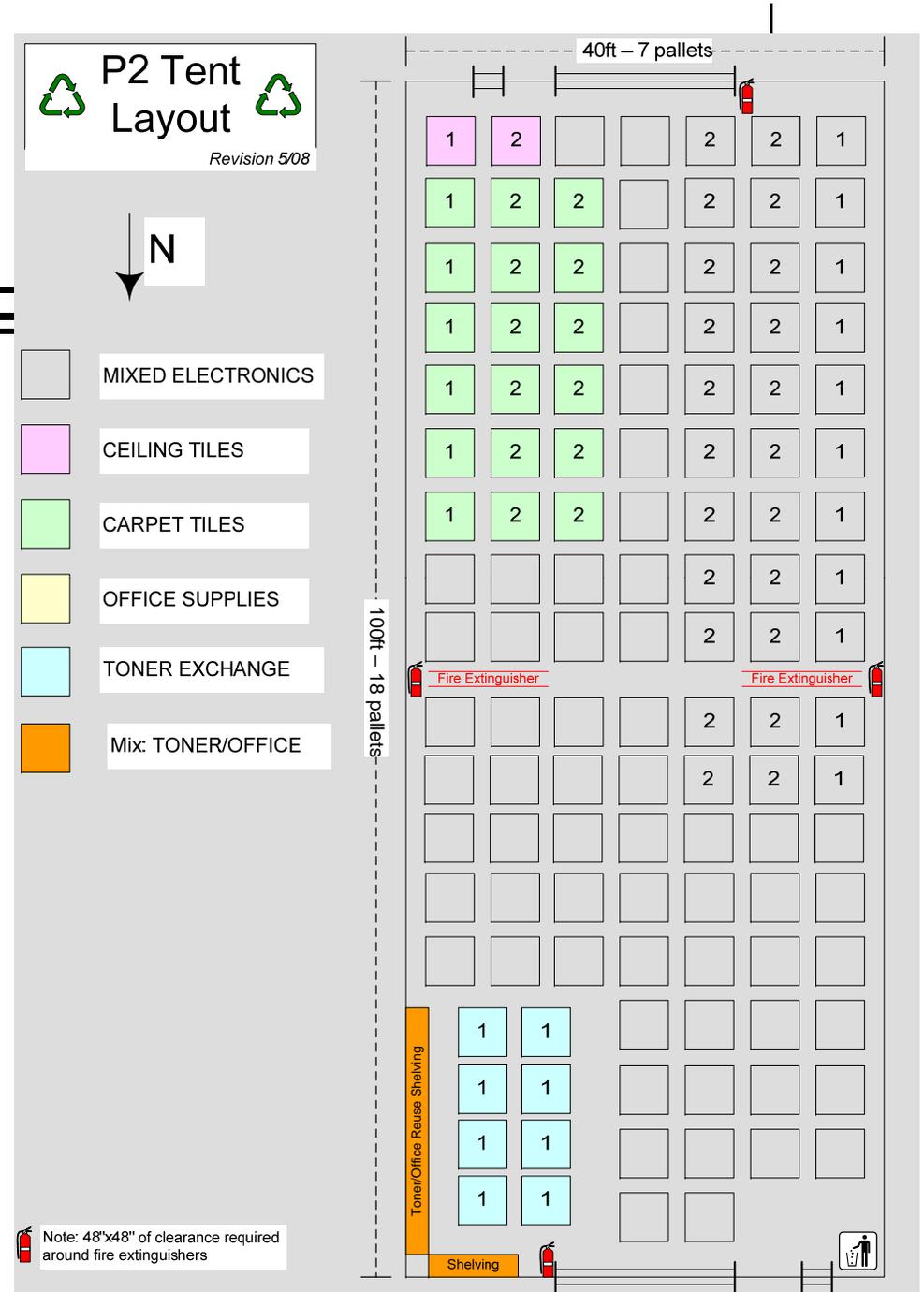


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New Tent

- Also houses other P2 initiatives:
 - Toner Exchange
 - Demolition waste recycling, i.e., carpet and ceiling tile
 - Binder Exchange
 - Various plastics





Services paid

- **Carpet tile shipment**
- **Plastics shipment**
- **Composting of Cafeteria food waste**
- **Battery recycling**
- **Repair of the baler computer controls**
- **Initial concrete and asphalt debris crushing**
- **Painting of re-used dumpsters**
- **American Metals Market subscription**

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Recycling Support Field Tech

Duties – position funded 75% or more from Recycling Revenues	Hours per	
	week	month
SWTF	23	12
<i>Load processing support:</i>	0	0
SNL Cardboard to remove contamination (e.g., foam for recycle)	4	0
SNL Mixed Paper to remove contamination (e.g., foam for recycle)	0	2
SNL White Paper, Aluminum and Plastics to remove contamination	3	0
SNL Trash to identify and remove recyclable materials	4	0
<i>C&D Recycling center support</i>	0	0
Wood rolloff deliveries to Wood-U-Recycle in South Valley	0	3
Scrap metal deliveries to local vendors in South/North Valleys	0	3
<i>Paper recycling support:</i>	0	0
White Paper and Mixed Paper totes box truck route	6	0
Used toner collection and segregation support	1	0
New recycle bin deliveries (on call)	1	0
Foam collection from mixed paper dumpsters	4	0
Foam compaction with equipment at SWTF	0	2
Shrink wrap baling support	0	1
Plastic #2/#5 rolloff at 858 N Dock – collect, process, no contamination	0	1

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Next steps

- **Design for improvement to SWTF**
- **Lease or purchase dedicated vehicle**
- **Get data and feedback from recycling field tech**

Seeking continuous improvement

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