

C&D Waste Reduction Case Study

Aviation Support Hanger: Commercial Demolition and New Construction, Spring 2006

Program Highlights

Materials Reused & Recycled

- 96 % of materials reused or recycled
- 4 % landfilled

Total Landfill Diversion

- 1 ton desks, pipe, heaters, and doors salvaged
- 1,822 tons asphalt reused on site
- 632 tons brick, & concrete recycled
- 34 tons metal recycled during demolition, 5 tons metal recycled during new construction
- 1.8 tons bottles, cans, and cardboard recycled
- 113 tons landfilled
- 2,496 tons diverted

General Contractor DEW Construction Corp.

Project Description

- Demolition of a 16,000 square foot (sf) airport hanger and construction of a 40,000 sf replacement hanger
- Location: Burlington, VT

“We found that having various containers for the specific types of waste generated on the construction site was a key factor in encouraging the workers to think about and then actively participate in the recycling effort.”

Don Rivait, Project Superintendent, Aviation Support Hanger.



DEW Construction Corporation, of Williston, VT worked hard to insure its comprehensive Waste Reduction Plan was completed as planned.

The Company's SHARP Committee, **Safety Health And Resource Protection**, oversaw the program: staff discussed the Plan at all weekly safety meetings; recycling containers were clearly marked; and DEW kept the blue “all-in-one” recycling bins in strategic locations around the job site, making it easy to recycle bottles and cans. Most of the rubble from the demolition phase was recycled, either used on site as fill, or recycled for aggregate. Lastly, DEW's subcontractor contracts required subcontractors to comply with the Waste Reduction Plan.

TIPS FOR MINIMIZING CONSTRUCTION WASTE

1. **Design building to produce as little waste as possible** by using standard dimensions in the building design.
2. **Determine the types of waste your project will generate and write a Waste Reduction Plan** to decide how your waste will be managed – complete well before construction begins.
3. **Research salvage and recycling companies** to get the best prices and services for the recyclable materials the project will generate.
4. **Use contract language** to insure subcontractors comply with your Waste Reduction Plan and enforce if needed.
5. **Label all containers visibly** and put them in convenient locations.
6. **Involve key personnel** to review how the Waste Reduction Plan is working and determine what needs to be improved. **Review the Plan** during weekly safety meetings.
7. **Ask your hauler to provide project data** comparing recycling costs and tonnage data to disposal costs and tonnage.
8. **Share your success** on how much waste the project diverted from disposal.

RESOURCES

Visit the Agency's Construction Waste Reduction site at:
<http://www.anr.state.vt.us/dec/wastediv/recycling/CandD.htm>
and reuse and recycling markets directory at:
http://www.anr.state.vt.us/dec/cf/wm/CandD_SearchList.cfm

Project Team

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