

Getting a Handle on Waste in the Pacific Northwest

NAVFAC Northwest Installations Take Action to Improve Their Integrated Solid Waste Management Programs

INSTALLATIONS IN THE Pacific Northwest are taking actions to improve their Integrated Solid Waste Management (ISWM) Programs including the replacement of exterior waste and recycling collection containers at Naval Air Station (NAS) Whidbey Island, Naval Station (NS) Everett, and Naval Base Kitsap.

dollars of new exterior waste and recycling collection containers to be deployed throughout NAS Whidbey Island, Naval Base Kitsap, Naval Magazine Indian Island, and NS Everett to meet stormwater compliance as required by the U.S. Environmental Protection Agency. These new containers allowed the Navy to

opposed to the old method that required two trucks and four personnel five days to complete.

Along the flight line, 12 new roll-off recycling containers were added that borrowed heavily from a design provided by the NS Everett Public Works Department. The Whidbey staff

These new containers allowed the Navy to increase productivity, reduce the number of trips to the landfill, and decrease associated landfill and personnel costs.

The ISWM Program was implemented at every Navy installation in the Pacific Northwest through the various installation's Public Works Departments. Those departments focused on addressing installation-specific challenges while receiving overarching guidance and support from the Naval Facilities Engineering Command (NAVFAC) Northwest Public Works Business Line.

In 2013, the NAVFAC Northwest Public Works Business Line purchased more than two million

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Naval Air Station Whidbey Island

At the NAS Whidbey Island recycling center, more than 100 old wooden collection containers for cardboard were replaced with new metal units that are serviced by a rear-load packer truck mounted on an existing roll off truck. Now all units are serviced by one person every four days as

increased the size of the box to include six on-board compartments, three on each side with an opening for specific materials. One opening is for paper, another for food/beverage containers. Each compartment has an internal material handling bin and a corresponding door. When the unit is serviced, it's loaded onto the trunk and taken to the recycling center. A forklift then removes and replaces the interior containers and the unit is returned to service in 30 minutes. The old process took about three and a half hours.

Naval Station Everett

Naval Station Everett Recycling replaced 110 tow-cart style containers that had fallen into disrepair. The recycling center on the Station switched to a newer rear-load style container, purchased a second rear-load garbage truck type body for their hook-lift and like the Whidbey Island recycling center, greatly improved the efficiency of collecting materials for recycling, waste, and cardboard. The old containers were refurbished and are in use at Naval Base Kitsap for cardboard collection.

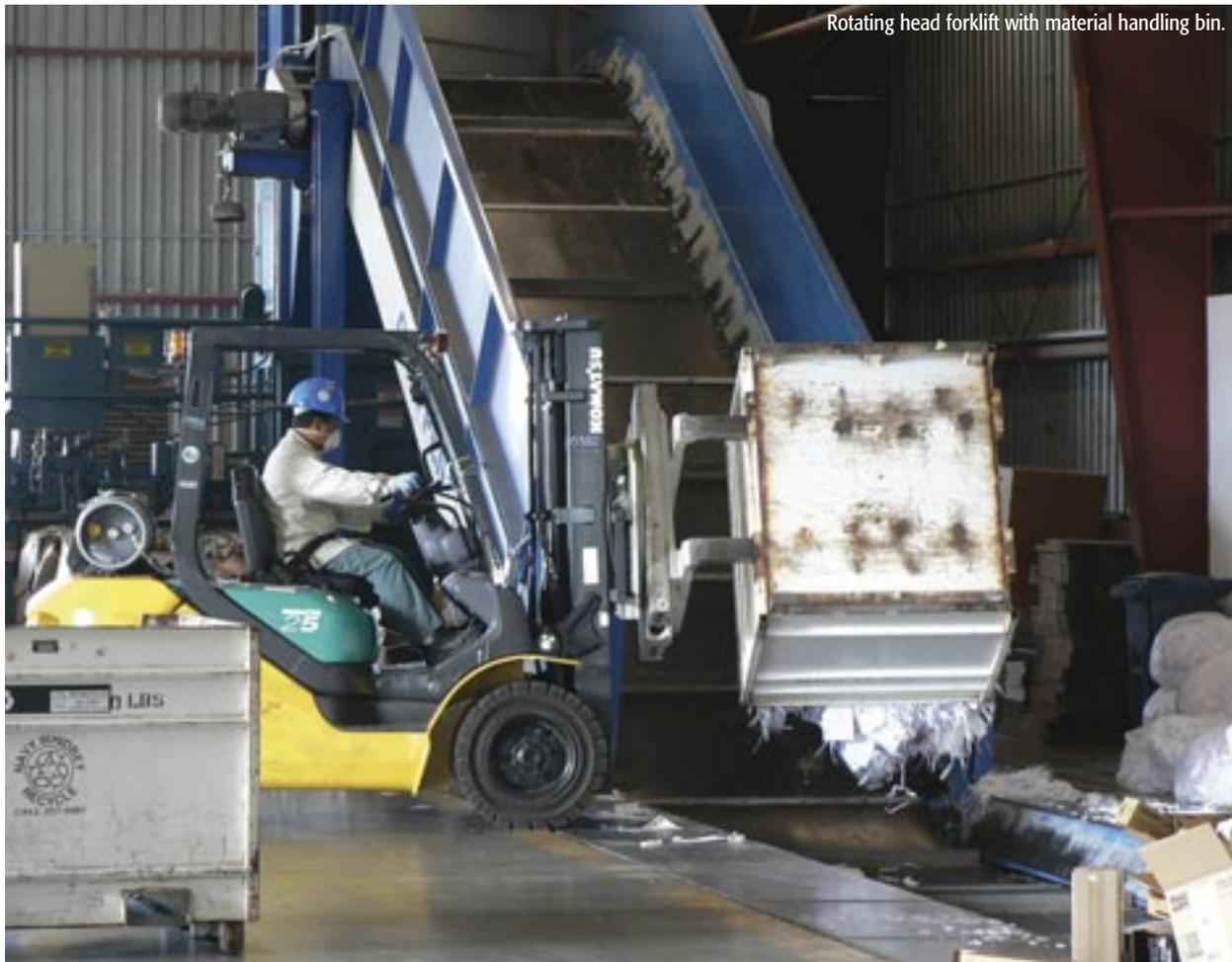
Adding two new 29 cubic-yard hook-lift containers for wood debris collection allowed the Navy to deliver wood

waste to a local compost facility out in town, instead of being hauled to Whidbey Island. This improved process eliminated a line item in a Navy contract that cost the Navy more than \$100,000 each year and removed the limit on the number of trips allowed.

Naval Base Kitsap

The Naval Base Kitsap recycling center at Bremerton replaced all of their open-top roll-off boxes with either new covered roll-off containers or new front-load dumpsters. The recycling center worked with shops personnel to provide specialized front-load containers with pallet pockets on the

bottom of each container. Now Puget Sound Naval Shipyard & Intermediate Maintenance Facility's shop personnel use the smaller covered front-load containers. On trash day, they move their full containers outside and the Public Works Department truck services them. Converting to the new smaller front-load boxes consumes less space for trash containers, better service, less personnel and less truck time to remove the trash. Some of the new roll-off boxes include crane pick points to allow the boxes to be lowered into a drydock. This close coordination between the project teams and the transportation department greatly expedites service to the drydocks.



Rotating head forklift with material handling bin.



Rotating head forklifts have become the new standard for recycling in Navy Region Northwest.

A new ISWM database will soon roll out as the replacement for data tracking and will provide visibility of all solid waste collections, recycling shipments, sales, and invoicing.

Past practices identified a specific color to each recycle/waste stream and each roll-off box was painted to match. That system worked in the beginning, but as Navy contractors brought in their own roll-off boxes it became confusing. All containers at Naval Base Kitsap have been painted 'safety orange' with a new placarding scheme that identifies the contents, which prevents crossing waste streams and saves time.

Public Works Business Line

A new ISWM database will soon roll out as the replacement for data tracking and will provide visibility of all solid waste collections, recycling shipments, sales, and invoicing. This new database will track refuse and recycling down to the building level, provide analytical reports such as waste trend

by building customer, type of activity at the building, recycling sales by commodity and tailor education and outreach information to a specific customer. The ISWM program manager will gain visibility of recycling sales and perform self-audits to verify compliance with federal and state laws, and Department of Defense regulations. This ISWM program will centralize sales contracts within the database and provide installations the visibility of their transactions but eliminates the need for them to handle funds. ↴

CONTACT

Leslie Yuenger
Naval Facilities Engineering Command Northwest
360-396-6387
DSN: 744-6387
leslie.yuenger@navy.mil