We owe ourselves better
Solid waste system training
Trash – recycle – compost – other solid wastes
13 August 2019

Tom Beirne
Solid Waste Program Manager, Aviation Utility
beirne.t@portseattle.org
Program Updates

• Used Cooking Oil tanks (9 of 10)
  – D Concourse Q3 2019
  – New contract: PM and on-call repair

• Terminal Solid Waste Project
  – Adds cart washing stations
  – Adds compactors to CT-N, CT-S, Service Tunnel
  – Regrade/Redrain, enclosed, odor control

• CT-N / CT-S floors

• Standardize compactor signage & controls
Program Updates

1. Terminal Solid Waste Project
   a. Adds cart washing stations
   b. Adds compactors CT N, CT S, Service Tunnel

2. D Concourse Oil tank

3. Oil tank repair contract

4. 3x FTEs - 2020

5. Increased compactor support

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CTE South
Current: Status 2:
Proposed:
4 Compactors (T/T/R/C)
800 SF addition under stairs

CTE North
Current:
Proposed:
4 Compactors (T/T/R/C)
1600 SF addition

Service Tunnel
Current: Proposed:
Add 1 Compactor (T)

Concourse A
Current: Proposed:

SSAT S6
Current: Proposed:

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LEGEND
- Recycling
- Garbage
- Compost
- 25 CY Compactor
- 30 CY Compactor
- Dumpster
- Cart Wash

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Accepted Materials

- Concourse B
- B-8
- CT South
- CT North
- Service Tunnel
- Central Terminal
- North Satellite
- N-10 Unavailable (Construction)
- South Satellite
- S-16
- S-6
- A Load Dock
- A-10
- Concourse C
- C-1
- Concourse A
- D-11
- Concourse D

Accepted Materials:
- Mixed Recycling
- Trash
- Compost
- Used Cooking Oil
- Glass
- Construction
- Metal
- Terminal Use
- Airfield Use Only
Compactors & Dumpsters

- **Trash**: Black
- **Recycling**: Clear
- **Compost**: Green
- **Construction**: • Construction Users Only • Requested through project manager
- **Metal**: • At Service Tunnel Snowshed, Air Cargo 1 and 4
- **Glass Dumpster**: • If no dumpster, use Recycling compactor • Do not throw (safety/FOD)

**City of SeaTac jurisdiction:**
Must use Recology for Trash and Recycling for hauling

Maintenance issue or Full: **ACC at 787-5229**

For bulky objects or items not categorized above, contact AV Environmental at 787-4633
Other Materials

APHIS-USDA Regulated waste per 7CFR§330.400 & 9CFR§94.5

International deplaned waste = tenant responsibility

**MUST be brought**

“...to an approved facility for incineration, sterilization, or grinding into an approved sewage system.”

Jeffrey Norton  
Waste Management  
NW regional Manager  
360-913-4877  
jnorton1@wm.com
You need access Service tunnel door:
Basement Level Routes
Deliveries

- Shipping material responsibility
- Pallets: leave one, take one
- Storage at dedicated locations
  - ADR Cages
  - Service Tunnel
  - Direct tenant leased space
Trash and Recycling

Garbage
Black Bags

No Appliances
No Recyclables
No Furniture
No Pallets or Kegs
No Batteries
No Electronics

Recycle
Clear Bags

ALUMINUM /TIN CANS (bagged)
CARDBOARD Break down boxes
PLASTIC Bottles, containers (bagged) bubble wrap, stretch film
PAPER Magazines, newspaper office paper, shredded paper (bagged)
GLASS Unless there is a separate bin for glass you may recycle it here

Do you know what to do with this?

PLASTIC FILM: No longer accepted
<table>
<thead>
<tr>
<th>Electronic Scrap</th>
<th>Universal Waste</th>
</tr>
</thead>
<tbody>
<tr>
<td>Small appliances, microwaves, TV’s, computers</td>
<td>Batteries, lightbulbs, equipment with mercury</td>
</tr>
<tr>
<td>King County Take-it-back network</td>
<td><a href="https://www.ecolights.com">https://www.ecolights.com</a></td>
</tr>
<tr>
<td><a href="https://www.totalreclaim.com">https://www.totalreclaim.com</a></td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>HAZMAT</th>
<th>CFC Containing Appliances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paints, broken light bulbs, cleaners, solvents</td>
<td>Refrigerators, water coolers</td>
</tr>
</tbody>
</table>

Large objects? Questions?
Aviation Environmental 206-787-4633
What do I do with…?

Disposal Room Rules

How does it impact me?

1. Compactor Doors – CLOSED
2. Sort and Dispose into CORRECT containers
3. Dumpster Lids – CLOSED
4. All compactor users: TRAINED on operation
5. No compactor users under 18 years
6. Clean up all – SPILLS and LITTER
7. Dumping PROHIBITED
   a) on ground
   b) outside designated containers

Stash your trash
Compactor Operation (1 of 4)

(Trash, Recycling)

Load Dock
https://youtu.be/cYknLkfSO-I

Airfield and Central Terminal
https://youtu.be/FjqHSygrQq8
Compactor Operation (2 of 4)
(Trash, Recycling)

Load Docks
1. Touch Key
2. Close Gate
3. Move switch
   - Type 1: up/down
   - Type 2: rotate

All other
1. Touch Key
2. *Open/Close
   - *Ensure slide latch is CLOSED

TROUBLESHOOTING
Check emergency stop is out

STOP!
PRESS

Maintenance issue or Full: ACC at 787-5229
Compactor Operation (3 of 3)

Issues

Bridging
Cardboard raises above the ram.
Appears full.

Overfilling Hopper
Hopper too full.
Material doesn’t compact.

Solutions

Max 5 bags
BREAK DOWN boxes
Run compactor 2x

Maintenance issue or Full: ACC at 787-5229
Key Requests

Applies to compactors only (trash, recycling)

• Turnaround
  – Existing accounts: 1-2 weeks
  – New accounts: 2-3 weeks
  – Large key orders: 2-3 weeks

• Key Request Form:
  https://www.portseattle.org/Business/Airport-Tenants/Pages/Compactor-Access.aspx
  – Requires Port account number (contact ADR Business Manager, Properties or PM if unknown)

• Billing
  – Keys cost $20 each
  – Recycling compactor access: FREE
  – Billing based on lease or service agreement terms and tariff

Keys must be set up with an account for each tenant or contractor
Compost

Food + Compostables

Green Bags ONLY
Food scraps, paper towels, green-waste, compostable packaging, and other compostable materials

NO BLACK BAGS, GARBAGE, OR RECYCLING

CLOSE DUMPSTER AFTER EVERY USE

IF DUMPSTER IS FULL CALL 206 787-5229 (ext.1)

Bags must be approved by Cedar Grove:
www.cedar-grove.com/compostable/accepted-items/bags
Compost Dumpster Procedures

Effective: Immediately

In compliance with the Food & Drug Administration and the WA State Department of Health & Human Services to prevent Foreign Object Debris & Pest hazards, all stakeholders must follow these mandatory procedures when using Compost Dumpsters:

The Compost Dumpster lids SHALL be closed after use. If dumpster lids CAN NOT close completely, trash needs to be taken to another dumpster. Employees/Companies NOT following these procedures will be issued a citation.
Violations

Violates STIA Rules & Regulations #5
- Section 3B9d: Maintenance of exitways
- Section 4A: Sanitation
- Section 5L1: Pest Management

Fines may be levied (Section 4A6)
- Up to $2500  First Offense
- Up to $5000  Second Offense
- Plus airport response and admin costs
Waste Cooking Oil Transfer
- Caddy System Required (tenant purchase)
- Variable sizes for different fryer design
- Oil solids go to trash

Tenant responsibility
- Purchase and Maintenance of oil caddy
- Ensure no oil on electric plug
- Wipe off oil before leaving leased space
- Wipe off oil tank quick disconnect after complete
- Clean up or report any spills

Best practice: oil rags on hand

Operation Manual  All caddy types  support@frontlineii.com  877-776-1100
How will you protect yourself?
CAUTION
Equipment and Fittings will get HOT. Always wear Personal Protective Equipment (PPE) when operating equipment.

CAUTION
No Water!! Operating with water will damage the pump.

CAUTION
Once grease is emptied, run pump for 30 seconds to help prevent grease blockage.

CAUTION
Always drain oil into the strainer basket to prevent pump damage. Clean the basket out regularly.

CAUTION
Cold or room temperature grease will damage pump. Run warm or hot oil only.

CAUTION
Never leave oil in the caddy as the pump and hose could become blocked.

DANGER
Please read this operation and servicing manual thoroughly before installing, servicing or using this equipment. Failure to properly install, service or use this equipment, or alteration of this equipment, can cause serious property damage, injury or death.

DANGER
This waste oil pump station unit is intended for use with hot oil and grease at temperatures between 100°F (38°C) and 375°F (190°C). Always wear protective, heat-resistant gloves, heat-resistant apron and goggles when using this equipment. Failure to properly use this equipment can lead to serious injury or death.

DANGER
The caddy lid is designed to prevent hot oil and grease spills when transporting the caddy. Failure to use the lid or properly secure the lid may result in hot oil and grease spills, which can lead to serious injury or death.
Cooking Oil

Operation

Maintenance issue or Full: ACC at 787-5229

Operation (5 minute mark): https://www.youtube.com/watch?v=fzhrm5U_d_4&t=322s
# Cooking Oil

## Operation

### Troubleshooting

See the following table to troubleshoot problems:

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>PROBABLE CAUSE</th>
<th>CORRECTIVE ACTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Caddy motor will not run.</td>
<td>The caddy motor is not turned ON.</td>
<td>Turn the motor ON with the switch located on the back of the motor.</td>
</tr>
<tr>
<td></td>
<td>Caddy motor reset switch has tripped.</td>
<td>Press the motor reset switch on the back of the caddy motor.</td>
</tr>
<tr>
<td></td>
<td>The caddy power cord is not making proper connection.</td>
<td>Ensure the caddy power cord is completely plugged into the motor and the control panel receptacle.</td>
</tr>
<tr>
<td></td>
<td>The tank or control panel at the fill station has lost power.</td>
<td>Ensure the tank or fill station control panel are plugged in.</td>
</tr>
<tr>
<td></td>
<td>Ensure the outlet that the tank or fill station control panel is plugged into has not lost power.</td>
<td>Ensure the outlet that the tank or fill station control panel is plugged into has not lost power.</td>
</tr>
<tr>
<td></td>
<td>If there is no power to the outlet make sure the circuit breaker has not tripped or that the outlet is not on a switch that has been turned off.</td>
<td>If there is no power to the outlet make sure the circuit breaker has not tripped or that the outlet is not on a switch that has been turned off.</td>
</tr>
<tr>
<td>Caddy motor runs but no oil will pump.</td>
<td>Disconnect fittings are not properly connected.</td>
<td>Make sure the female disconnect fitting is properly connected to the male fitting.</td>
</tr>
<tr>
<td></td>
<td>Caddy hose may be plugged with grease.</td>
<td>Run the caddy hose under hot water to liquefy any grease that may be clogging the hose.</td>
</tr>
<tr>
<td></td>
<td>Caddy pump may be plugged with grease.</td>
<td>Remove the four screws on the front of the pump and clean the inlet and outlet port of the pump, and the rotor gear.</td>
</tr>
<tr>
<td></td>
<td>Make sure that nothing is blocking the inlet tube that goes down into the oil.</td>
<td>Make sure that nothing is blocking the inlet tube that goes down into the oil.</td>
</tr>
<tr>
<td></td>
<td>Assure that the oil being discarded is in liquid state.</td>
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*Call 330-861-1100 if you have checked all of the above and the problem still has not been resolved.*
Cooking Oil

Operation

Maintenance issue or Full: ACC at 787-5229

Training Video:
https://www.youtube.com/watch?v=fzhrm5U_d_4&t=322s
Cooking Oil

*Operation*

Keep Plugs *CLEAN*

PROHIBITED

Dirty Plugs
*SAFETY:* Shorts, Fires

Improvised Storage

Maintenance issue or Full: **ACC at 787-5229**

Training Video:
[https://www.youtube.com/watch?v=fzhrm5U_d_4&t=322s](https://www.youtube.com/watch?v=fzhrm5U_d_4&t=322s)
## References

<table>
<thead>
<tr>
<th>Item</th>
<th>Tenant Resource</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compost bags</td>
<td><a href="www.cedar-grove.com/compostable/accepted-items/bags">www.cedar-grove.com/compostable/accepted-items/bags</a></td>
</tr>
<tr>
<td>Oil Operation (5 min mark)</td>
<td><a href="www.youtube.com/watch?v=fzhrm5U_d_4&amp;t=322s">www.youtube.com/watch?v=fzhrm5U_d_4&amp;t=322s</a></td>
</tr>
<tr>
<td>Oil Caddy Parts</td>
<td>Frontline International @ 877-776-1100 or <a href="mailto:support@frontlineii.com">support@frontlineii.com</a></td>
</tr>
<tr>
<td>Solid Waste Utility Account (compactor keys)</td>
<td><a href="www.portseattle.org/Business/Airport-Tenants/Pages/Compactor-Access.aspx">www.portseattle.org/Business/Airport-Tenants/Pages/Compactor-Access.aspx</a></td>
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<th>Not accepted at airport</th>
<th>Tenant Resource</th>
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<tbody>
<tr>
<td>Refrigerators, coolers</td>
<td><a href="www.totalreclaim.com">www.totalreclaim.com</a></td>
</tr>
<tr>
<td>Batteries, Lightbulbs, Mercury</td>
<td><a href="www.ecolights.com">www.ecolights.com</a> <a href="www.totalreclaim.com">www.totalreclaim.com</a></td>
</tr>
<tr>
<td>International Waste</td>
<td>Waste Management: Jeffrey Norton 360-913-4877 <a href="mailto:inorton1@wm.com">inorton1@wm.com</a></td>
</tr>
</tbody>
</table>
Questions?

Stick around for....

• Training requests
• Program recommendations

Stash the Trash