

WP 10-WC3009

Revision 4

Aerosol Can Puncturing

Technical Procedure

EFFECTIVE DATE: 08/14/03

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APPROVED FOR USE

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INTRODUCTION

This procedure provides instructions to Washington TRU Solutions LLC personnel for puncturing, segregation, and management of used aerosol cans and the resulting liquids drained from such containers.

REFERENCES

BASELINE DOCUMENTS

- WP 02-RC.01, Hazardous and Universal Waste Management Plan

REFERENCED DOCUMENTS

- WP 02-RC3108, Request for Disposal

PRECAUTIONS AND LIMITATIONS

- Wear safety glasses while operating puncturing device.
- Do not puncture cans while smoking or near open flames.
- Ensure grounding strap is properly attached.
- Use only in well-ventilated area.

PREREQUISITE ACTIONS

- 1.0 If puncturing aerosol paint cans, perform the following:
 - 1.1 Verify paint is at room temperature.
 - 1.2 Shake can vigorously to thoroughly mix contents.
- 2.0 Place in well-ventilated area before using puncturing device.
- 3.0 Install puncturing device in 2-inch bung by rotating clockwise until ground support plate firmly engages drum rim.
- 4.0 Install grounding wire to drum by attaching ring terminal to brass screw on the puncturing device ground support plate.
- 5.0 Attach alligator clip to any nearby ground source.
- 6.0 Install combination filter by threading directly into 3/4-inch bung on drum lid.

- 7.0 Replace activated carbon cartridge by holding coalescing cartridge in place while turning carbon cartridge counterclockwise or according to manufacturer’s recommendation.
- 8.0 Replace coalescing cartridge by removing activated carbon cartridge, then unscrew coalescing cartridge from drum, or according to manufacturer’s recommendation.

NOTE

One drum will be maintained for can puncturing, one for accumulating aerosol cans approved for puncturing, and one to accumulate cans not approved for puncturing (total capacity of drums not to exceed 55 gallons). These will be established as a single Satellite Accumulation Area (SAA) to be managed in accordance with WP 02-RC.01.

9.0 Mark and label each drum/container in accordance with WP 02-RC.01.¹

PERFORMANCE

1.0 Using the Aerosol Product List, place cans into one of two SAA containers: (1) approved for puncturing, or (2) not approved for puncturing.¹

WARNING

Do not puncture products that have an asterisk (*) in the (*) column on the Aerosol Product List. The list is maintained by Site Environmental Compliance.

2.0 Prior to puncturing, ensure the product name of the aerosol can is listed on Aerosol Product list provided by Site Environmental Compliance.¹

2.1 If product name is not listed, contact Site Environmental Compliance for guidance.

2.2 If an unapproved can is punctured by accident, stop operation and contact Site Environmental Compliance for guidance.

3.0 Remove cap from aerosol can prior to insertion into can puncturing device.

4.0 When ready to puncture accumulated cans, perform the following:

4.1 If puncturing normal-sized cans, install white plastic sleeve.

4.2 If puncturing 1-inch mini-cans, push shoulder of can beyond gasket.

4.3 If puncturing jumbo cans, remove plastic sleeve.

- 5.0 Place aerosol can into puncturing device nozzle end down so that shoulder of can rests on gasket.
- 6.0 Engage sliding top plate against plastic sleeve (against can if jumbos), then tighten lock knob.
- 7.0 Apply additional pressure to top plate (push down by hand) in order to obtain a good seal between can shoulder and gasket.
- 8.0 Push puncture handle down firmly, then release.

NOTE

Full and half-full cans are more easily punctured if the operator pumps the puncture handle several times.

- 9.0 Allow can to drain thoroughly before removing punctured aerosol can.

NOTE

Can is considered empty when all wastes have been removed that can be removed.

- 10.0 Rotate can 180 degrees, evaluate remaining contents, and return to Step 9.0 until empty.
 - 10.1 If can still contains liquids and/or solids, contact Site Environmental Compliance for further guidance.
- 11.0 Remove empty can from puncturing device and place into scrap metal recycle bin.
- 12.0 After removing punctured can, lower sliding top plate to rest on plastic sleeve to seal collection drum.
 - 12.1 If can was jumbo, replace plastic sleeve prior to lowering sliding top plate.
- 13.0 Highlight or otherwise indicate on a copy of the Aerosol Product List which cans were punctured and drained.
- 14.0 When drainage drum approaches 70-75% full, contact Site Environmental Compliance.
- 15.0 Initiate Request for Disposal in accordance with WP 02-RC3108.
- 16.0 Attach mark-up (per Step 13.0) of Aerosol Product List to Request for Disposal.