

Date Prepared 3/2004
Revised 6/23/09, 12/7/11
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BMP# Physical Plant #17

TITLE: REFRIGERANT RECOVERY

Regulatory Citation: 40 CFR Part 82

Applicability: Equipment containing ozone depleting chemicals (ODC)

Purpose: Prevent the release of ODCs to the atmosphere by proper handling and disposal

Department/Person Responsible: HVAC Technicians

Schedule: As needed

Procedures:

1. HVAC technicians will have EPA certification to work with refrigerants.
2. No refrigerants will be knowingly released into the atmosphere while maintaining, servicing, repairing or disposing of air conditioning or refrigeration equipment;
3. HVAC technicians repairing small appliances, such as household refrigerators, window air conditioners and water coolers must recover:
 - a. 80% of ODC refrigerants are recovered when using recycling equipment manufactured before November 15, 1993 or when the compressor is not operating; and
 - b. 90% of ODC refrigerants are recovered when using recycling equipment manufactured after November 15, 1993 and the compressor is operating;
4. In order to ensure that they are recovering the correct percentage of refrigerant, technicians must use the recovery equipment according to the directions of its manufacturer. Technicians may also satisfy recovery requirements by evacuating the small appliance to four inches of mercury vacuum.
5. ODC refrigerant recovery equipment is EPA approved. (is labeled as meeting ARI Standard 740-1993)
6. Equipment with charges of greater than 50 pounds: leaks will be repaired if the leak would result in the loss of more than 15% of the charge over a year, based on the current leak rate. Leak rates will be tracked on the attached form (Refrigerant Charge Record).
7. When a unit will be disposed, the refrigerant will be removed and fully recovered for re-use in other campus equipment. The HVAC

technician will complete the “Statement of Refrigerant Recovery” form and give a copy of the form to the Director of EHS for filing. Units containing metal can then be placed in the scrap metal dumpster for recycling (call ahead or tag unit with a copy of the refrigerant recovery certification). Units (such as household refrigerators) containing mostly plastic will be accepted by the College’s waste hauler if tagged with a copy of the refrigerant recovery certification. As required by EPA regulations, the final person in the disposal chain should maintain this document.

8. Refrigerants can be re-used on campus by the certified HVAC technicians without restriction. If the refrigerant gas is not to be re-used on campus, the HVAC technician will arrange for recovery/recycling through an EPA certified refrigerant reclaimer. A copy of the receipt of the shipment showing how much gas and the name of the reclaimer will be given to the Director of EHS for filing.

Current disposal vendors: Freedman’s – scrap metal
Waste Management – regular trash

Record keeping: Statement of refrigerant recovery
EPA certificate technician cards
Refrigerant Leak records
Receipt of refrigerant reclaimer

Record Location: EHS Office, environmental files

Contact: Executive Manager of Physical Plant (629-7427)
Director of Environmental, Health and Safety (629-7163)

HVCC-BMP-Physical Plant #17 refrigerants

To: Waste Haulers and Downstream Landfill Operators

STATEMENT OF REFRIGERANT RECOVERY

This certifies that the following appliance/equipment refrigerant has been recovered in accordance with all applicable federal and state regulations:

Manufacturer _____

Model No. _____

Serial No. _____ **Year** _____

Date refrigerant was recovered: _____

Signature

Name: _____

Address: _____ **80 Vandenburg Ave** _____

_____ **Troy, NY 12180** _____

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