

TEMPORARY CHANGE REQUEST

TCR NO. **TCR-P-062,R3-TCR-001**

(e.g., TCR-ENG-021,R0-001)

The Temporary Change Request (TCR) Form is to be used to process urgent or minor changes for PPPL Policies, Organization/Mission Statements and Procedures. The TCR should be used when changes are:
1) urgent, and can not wait the 2-4 week period for Department Head review/comment, or
2) minor, and do not warrant Department Head review.

Person Requesting Change: R. Sheneman Phone Ext: 3392

Department Name: ES&H

Document Number: P-062 Revision No.: 3

Document Title: Ozone Depleting Substances

Reason for change:

Include new requirements and references for Executive Order 13693 and DOE Order 436.1 replacing references to superseded orders.

Change description: (Summarize and attach changed pages, with changes clearly indicated)

Updated ODS examples to include EPA SNAP program
Updated references to include E.O. 13693 and DOE Order 436.1

1. Does this TCR significantly alter the intent or scope of the document? YES: NO: X

2. Does this TCR significantly impact **ES&H**? YES: NO: X

If 1 or 2 is **YES**, Explain why the changes should not be routed for Department Head review:

Rob Sheneman
Department/Division Head Approval

4/2/15
Date

John DeLooper
Head, Best Practices and Outreach/designee

4/2/15
Date

Release/Effective date of this TCR: 4/2/15

Incorporate this TCR into next revision of this document? YES: X NO:

Subject: Reduction of Ozone Depleting Substance Emissions	Effective Date: APRIL 30, 2012	Initiated by: Head, Environmental Services Division
	Supersedes: December 6, 2005	Approved: Director

P-062,R3-TCR-001

In accordance with the Clean Air Act Amendments (CAAA) Section 608 “Stratospheric Ozone Protection” requirements. PPPL will minimize the emissions of ozone depleting substances (ODS) to the lowest reasonably achievable level during the maintenance, service, repair and disposal of parts, appliances, or equipment to prevent entry into the stratosphere ozone layer. PPPL seeks to eliminate all Class I and II ODS by replacing them with Non-ODS to the maximum extent practicable. ODS include chlorofluorocarbons (CFCs), halons, carbon tetrachloride, methyl chloroform, and halogenated chlorofluorocarbons (HCFCs)

Emissions of ODS shall be reduced through the following:

- Using certified recycling and recovery equipment during maintenance, service, repair, and disposal of parts, appliances, and/or equipment containing ODS.
- Training applicable PPPL personnel in accordance with the United States Environmental Protection Agency (EPA) training protocol.
- Assuring that the procured parts, appliances, and/or equipment contain apparatus to assist in the recovery of refrigerant, as applicable.
- Purchasing products using US EPA Significant New Alternative Policy (SNAP) to evaluate, regulate substitutes and offer safer alternatives for ODS, where feasible.

P-062,R3-TCR-001

PPPL employees and subcontractors shall use certified recycling and recovery equipment during service, maintenance, repair, and disposal of items containing ODS.

The Materiel Services Division shall assure that the refrigerant has been removed from the parts, appliances, and/or equipment prior to recycling or disposal.

Responsible line manager shall coordinate training for applicable PPPL personnel in accordance with EPA protocol. The Human Resources Training Office shall maintain the training and certification records pertaining to EPA protocol. Those individuals who are certified through the EPA must provide the certification records to Training for filing.

The Environmental Services Division (ESD) shall prepare and transmit required notification certifications to the EPA through DOE Princeton Site Office (PSO).

Examples of common ODS and their use at the PPPL are listed below. This list includes common ODS, not all of which are in current use at PPPL. Materials in current use are identified by underlining. Please note, however, this list is provided for general information and is not comprehensive.

OZONE-DEPLETING SUBSTANCE	USE AT PPPL
CFCs (CFC-11, -12, -113, 114, -115, -500, -502)	No longer used or stored
Halons (Halon -1211, -1301, -2402)	Fire extinguishing systems
CFCs (CFC-13, -111, -112, -211, -212, -213 -214, -215, -216, -217)	No longer used or stored
Carbon Tetrachloride	Not used or stored
<u>Methyl Chloroform</u> , or <u>1, 1, 1-trichloroethane</u>	As a degreaser, major component of Inhibisol, Various locations on C and D Sites
HCFCs (HCFC -21, -22, -31, -121, -122, -123, -124, -131, etc.)	Air conditioning units, degreasers

References

Clean Air Act Amendments of 1990 (CAAA), Title VI, “Stratospheric Ozone Protection, National recycling and emission reduction program

40 CFR 82, Protection of Stratospheric Ozone; Refrigerant Recycling

Executive Order 13693, "Planning for Federal Sustainability in the Next Decade"

U.S. Department of Energy, Order DOE 436.1 “Departmental Sustainability” **P-062,R3-TCR-001**