# Regulatory Updates: Alternatives and Emissions Reductions

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### Regulatory Update:

- HCFC Phaseout regulations
- Labeling requirements
- Venting prohibition
- SNAP

#### **HCFC Phaseout**



- Goal = gradually transition away from HCFCs
  - Predominant HCFC being phased out is HCFC-22
- HCFC-22 Phaseout Schedule:
  - Jan. 1, 2010: Decreased allowed amount produced or imported for domestic use; banned installation of new systems and manufacture of pre-charged units and components
    - Recent rule reduced 2012-2014 allocation by 30% compared to earlier rule that was partially vacated by courts
  - Jan. 1, 2015: Allowed production & import will be at least 45% below 2010 level
    - Proposed rule for 2015-2019 currently under development
  - Jan. 1, 2020: Phaseout of all production and import of HCFC-22
    - Virgin material imported or produced domestically before Jan. 1, 2020 can still be used until 2030
    - Used, recovered and recycled material can still be used

## **HCFC Product Labeling**



 As of Jan. 1, 2015, any product manufactured with or containing an HCFC must be labeled:

WARNING: [Contains / Manufactured with] [name of HCFC], a substance which harms public health and environment by destroying ozone in the upper atmosphere

- Affects imported as well as domestically-produced products
  - Examples of "products containing" an HCFC include:
    - Products containing closed cell foam blown with an HCFC
    - Technical aerosol sprays
    - Fire extinguishers
  - Examples of "products manufactured with" an HCFC include:
    - Products cleaned with an HCFC-based solvent
    - Products sterilized with an HCFC-based sterilant

### **608 Venting Prohibition**



- EPA proposed to exempt from the "no venting" prohibition:
  - isobutane (R–600a) and R–441A, which were listed as acceptable subject to use conditions in household refrigerators, freezers, and combination refrigerators and freezers, and
  - propane (R–290), which was listed as acceptable, subject to use conditions, as a refrigerant substitute in retail food refrigerators and freezers (stand-alone units only)
- Comment period closed last week
  - EPA evaluating comments

# **Identifying Safer Alternatives**



- U.S. EPA evaluates substitutes that reduce <u>overall</u> risk to human health & environment
- Significant New Alternatives Policy (SNAP) Program 400+ substitute alternatives with lower overall risks considering:
  - ODP & GWP, flammability, toxicity, local air quality, aquatic effects, worker/consumer health & safety
  - Next generation alternatives for ODS & HFCs

### **SNAP Actions, Since June 2012**



### Listing New Alternatives:

- June 2012:R-744 for MVACs acceptable with use conditions
- August 2012: CO2 for vending machines, Solstice -1233zd for foams, chillers; HFO-1234ze for chillers for foams, chillers
- December 2012: two fire suppression alternatives
- February 2013: third fire suppression alternative
- March 2013: listed additional substitutes for solvent cleaning, adhesives, coatings, fire suppression, spray and XPS foams, retrofit refrigerant

### **Other SNAP Activities**



- Initiated SNAP/Vintaging Model Stakeholder meetings
  - Aerosols April 2013
  - Foams May 2013
  - Scheduling commercial/industrial air-conditioning, household appliances, commercial refrigeration between July and October 2013
- 15-20 active submissions under review
  - Fluorinated and non-fluorinated alternatives
  - Many are new molecules
  - Lower GWP foam blowing agents, refrigerants, solvents

# **Final Thoughts**



- U.S. Approach Combines:
  - Robust licensing system
  - Prohibitions on certain uses
  - Refrigerant Management: recover, recycle or reclaim, and reuse
  - Identifying Alternatives
  - Work collaboratively with Partners

### For Additional Information



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