

**Refrigerant Management Program Working Group Meeting
May 29, 2008**

Meeting Notes

We apologize that we were unable to note all participants' names and affiliations, especially the ones participated via phone. Please help us fill the missing names and affiliations as you may. We really appreciate your help.

Purpose

The purpose of this meeting was to present preliminary options for this program and solicits ideas from the working group. 10 industry representatives attended in person; 19 industry representatives, Air District staff and RD contractor participated by phone; and 2 written comments were received via E-mail.

Highlights

- Fee
 - Fee collected from cylinder deposits -who would be responsible.
 - Putting fees on the sales of high-GWP refrigerant could cause illegal importing of refrigerant; there might be significant leakage with sales at the border.

- Specifications on Commercial Refrigeration
 - The tradeoff between charge size and energy efficiency was discussed in April. ARB does not want to penalize systems that are very energy efficient and tight, but instead look at total footprint based on total direct and indirect emissions.
 - ARB would like to put specifications for new commercial refrigeration systems on a faster track but provide enough time for the market to respond with resources.

- Reporting/Repair
 - The idea of thousands of facilities reporting on their refrigerant systems seems cumbersome but ARB/Districts have a balanced tracking system that makes progress comprehensible in terms of control. Differential reporting requirements for facilities might make it more tractable and effective at meeting goals.
 - The market will do what customers demand of it, so hopefully the amount of refrigerant recovered due to repairs and hence cost savings as the refrigerant prices go up will drive up proper servicing, recovery and supply of refrigerants.
 - Need a clearer definition on industrial vs. commercial. While it is based on refrigerant charge, is it refrigerant charge per system or per facility?
 - Question was asked on how to define High-GWP, what is the threshold?
 - Right now facilities subject to South Coast Air Quality Management District Rule 1415 have to pay a flat registration fee. Under this rule we could authorize districts to use permitting or registration programs.
 - Refrigerants would cover ODSs, HFCs, PFCs, treated equally
 - Verification of leak repair:

- Timing
 - Cost
 - Reporting responsibilities: to balance the responsibility of facilities and technicians
- Cylinder
 - How to handle the refrigerant cylinders at the end of life and direct solid waste (SW) handlers to dispose of them is still unresolved. Suggestions include:
 - 5 gallon or less cylinders are SW constituting a prohibition on land filling
 - SW handlers set the cylinders aside as hazardous
 - Cylinders sent to certified reclaimers by having whoever handles the container responsible for removing the refrigerant
 - Restrictions such as putting a deposit on cylinders to encourage people to bring back empty cylinders to reclaimers or distributors. Research for this idea needs to be done, like how far rural areas are from a reclaimer or distributor, if a high deposit will likely keep cylinders out of landfills, etc..
- Technicians
 - Section 608 already has a robust training/certification program.
 - The supply and demand of certified technician: will need to work with enforcement and air districts to coordinate for training programs, also ACCA (A/C Contractors Association) should be involved.

Next Steps

ARB:

- To contact RCS, Air Conditioning Contractors of America (ACCA), and North American Technician Excellence (NATE)
- 2nd working group meeting: end of July

Working Group:

- Provide comments on data sources, data sets, relevant experiences, surrogate experiences, and any additional contacts that should be included
- Provide comments on different emission control strategies

Contacts

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Cylinder Program & Specifications for New Commercial Refrigeration Systems:

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Attendees:

ARB Attendees in Person:

Pamela Gupta
Tony Andreoni
Yachun Chow
Chuck Seidler
Elizabeth Scheele
Jeff Cohen
Whitney Leeman
Richard Corey
Glenn Gallenger
Bart Croes
Webster Tasat
Karen Lutter

Industry Attendees in Person:

Tom Werkema (Arkema)
Dave Stirpe (ARAP)
Mack MacFarland (Du Pont)
Talbot Gee (HARDI)
Russ Gary (?)
Ray Aga (?)
Peter Larkin (?)
Bill Cross (Lennox)
Lisa Mays (Lennox)
Ida? Fair (UTC/Carrier)

Phone:

Denis Clodic (ARMINIS)
Steve B. (Honeywell)
Chris La Pieta(?) (Honeywell)
John Batt (Airgas)
Stephen Mandrake (?)
? (Honeywell)
Dave M. (Kroeger)
Dan B.
George Ronn (Supervalu)
Ted Gartland (Verisae)
? (Supervalu)
? (CA Edison)
Dave DeBoer/Heather Farr (SCAQMD)
Mar?
Neil Beup (Carrier)
Charlie (? Manuf)
Mary Pito (Regional Council of Rural Counties)
? (So Cal Edison)
Kristin Power? (CGA)