

EPA Advances Climate Goals by Expanding Refrigerant Regulations

Article By:

Michael Weller

Whit Swift

On September 26, 2016, the **U.S. Environmental Protection Agency** released a Final Rule updating the Agency's Refrigerant Management Program. See [Protection of Stratospheric Ozone: Update to the Refrigerant Management Requirements under the Clean Air Act: Final Rule](#). The Final Rule is scheduled to become effective January 1, 2017 and, for the first time, expands the requirements of Clean Air Act Section 608 to non-ozone depleting "substitutes" such as hydrofluorocarbons (HFCs). The Final Rule is expected to result in significant costs for many sectors of the economy because of the expansion of requirements to non-ozone depleting substitutes as well as EPA's changes to the leak detection and repair provisions. President Obama previously outlined his goal of curbing HFC emissions as part of the 2013 Climate Action Plan.

Overview of EPA's Refrigerant Management Program

Generally, Section 608 of the Clean Air Act establishes requirements for handling and recycling refrigerants. The regulations first promulgated under 40 C.F.R. Part 82 in the 1990s are designed to prevent the release or "venting" of ozone-depleting substances (ODS) when equipment is being serviced, maintained, repaired, or disposed; reduce the use and emission of ODS from stationary equipment; maximize the recapture and recycling of ODS from stationary equipment; and ensure the safe disposal of ODS.

Prior to the Final Rule, EPA's existing regulations applied primarily to "Class I" and "Class II" ODS. "Substitutes" for Class I and Class II substances were subject to venting prohibitions under Section 608(c)(1); however, until this time, EPA has never applied the use and disposal management provisions under Section 608(a)(1) & (2) to "substitutes."

Regulated entities span the entire economy, including companies involved in

- Industrial Process Refrigeration (IPR), such as owners and operators of refrigeration equipment used in oil and gas extraction, agriculture, and the manufacture of food, petrochemicals, and electronics;

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- Commercial Refrigeration, such as owners and operators of grocery stores, storage facilities, and refrigerated transportation;
 - Comfort Cooling, such as owners and operators of air-conditioning equipment used in hospitals, schools, office buildings and transit authorities; and
 - contractors, scrap recyclers, and reclaimers.

Expansion of Section 608 Requirements to “Substitutes”

In the Final Rule, EPA extends refrigerant management requirements to non-ODS substitutes, including HFCs. As discussed above, EPA previously only regulated substitutes like HFCs and PFCs by an explicit prohibition on their “knowing” venting or release during the maintenance, service, repair, or disposal of appliances. Under the Final Rule, EPA has now extended the leak repair and maintenance provisions previously applied only to Class I and Class II ODS to substitute refrigerants.

EPA’s primary purpose for broadening applicability appears to be the capture of non-ODS substitutes that are considered “potent greenhouse gases,” even though Section 608 is not designed to address greenhouse gas emissions as such. EPA contends that ODS substitutes have global warming potentials (GWP) “thousands of times higher than that of carbon dioxide” and that by instituting “[e]xplicit and more stringent standards for the use, recovery, and recycling of these substitute refrigerants during maintenance, servicing, repair, or disposal of appliances will lead to fewer emissions of these high-GWP chemicals.” See [Proposed Rule at 80 Fed. Reg. 69,464](#). EPA notes in the Final Rule that, when considering the GWP of HFC substitutes, the new regulations “will prevent annual emissions of greenhouse gases equivalent to 7.3 million metric tons of carbon dioxide (MMTCO₂eq).” See [Final Rule at p.9](#).

Major Components of the Final Rule

- Lowers the leak rate thresholds that trigger the duty to repair refrigeration and air-conditioning equipment containing 50 or more pounds of refrigerant.
- Lowers from 35% to 30% for industrial process refrigeration (IPR)
- Lowers from 35% to 20% for commercial refrigeration equipment
- Lowers from 15% to 10% for comfort cooling equipment
- Requires quarterly/annual leak inspections or continuous monitoring devices for refrigeration and air-conditioning equipment that have exceeded the threshold leak rate.
- Requires owners/operators to submit reports to EPA if systems containing 50 or more pounds of refrigerant leak 125% or more of their full charge in one calendar year.
- Extends the sales restriction to HFCs and other non-exempt substitutes, with the exception of small cans (containing 2 pounds or less) of non-exempt substitutes (e.g., primarily HFC-134a) for motor vehicle air conditioner servicing. These small cans can continue to be sold without technician certification so long as the small cans have a self-sealing valve to reduce refrigerant releases.

- Requires technicians to keep a record of refrigerant recovered during system disposal from systems with a charge size from 5–50 lbs.

Conclusion

While EPA made some concessions since proposal, the Final Rule is not without its problems. A primary issue is whether EPA even has the authority to regulate non-ODS substitutes under Section 608 for the purpose of reducing greenhouse gases. This issue and others are expected to be challenged in federal court. Those seeking to challenge the Final Rule can file a petition for review in the U.S. Court of Appeals for the District of Columbia Circuit within 60 days after its publication in the Federal Register.

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