Refrigerant Management Program

Updates to the Refrigerant Registration and Reporting Tool (R3)
Agenda

• Overview: Refrigerant Management Program (RMP)
• Overview: Changes to Refrigerant Registration and Reporting (R3) System
• Final Notes
• Questions
Commonly Used Terminology

High-GWP Refrigerant – Those refrigerants with a global warming potential greater than or equal to 150.

Full Charge Size – Full refrigerant capacity of a refrigeration system.

Refrigeration systems
• System size
  • Small – more than 50 lbs., but less than 200 lbs.
  • Medium – 200 lbs. or more, but less than 2,000 lbs.
  • Large – 2,000 lbs. or more

Facility size
• Based on single largest refrigeration system on site (small, medium, or large)
Commonly Used Terminology

**Change in Refrigeration Status** – When a characteristic of the refrigeration system changes.
- Full charge amount, refrigerant type, equipment type, or operational status.

**Service Record** – A servicing event on a refrigeration system.
- Leak inspection, leak repair, seasonal adjustment, etc.

**R3** – Website used for reporting under the Refrigerant Management Program
Overview of Regulation

Refrigerant Management Program (RMP)
RMP Regulation Overview

- In effect since January 1, 2011
- Focuses on leak inspection & repair
- Owners and/or operators of facilities with a stationary refrigeration system that uses more than 50-pounds of a high-GWP refrigerant.
  - Excluding comfort cooling
- Any person who installs, services, or repairs a refrigeration or A/C system using a high-GWP refrigerant.
- Any distributor, wholesaler, or reclamer who sells or reclams high-GWP refrigerant.
Key Requirements

• Facilities with refrigeration systems
  • Repair leaks within 14 days of detection
  • Keep records of service and refrigerant transactions
  • Contractors and Technicians must follow required service practices
  • Conduct periodic leak inspections
  • File annual report and pay fee (medium and large facilities)

• Distributors, Wholesalers, Reclaimers
  • Keep records of refrigerant transactions
  • File annual report
Overview of Updates

Refrigerant Registration and Reporting System (R3) Reporting Tool
Overview of Updates

1. Changes to the Front Page
2. Adding Multiple Leak Inspections
3. Changes to the Batch Upload Process
4. Other Minor Changes
5. New reporting page for companies with retail food facilities

¹Subject to requirements under New 2020 HFC Regulation, currently pending Office of Administrative Law approval
Welcome “Tristan Pulido” to Refrigerant Management Program

Welcome to the Refrigerant Registration and Reporting System (R3). You are logged in as an [Company Admin] type user. This quick links on the left side of this page show activities available for users of your role type. Select an activity from the quick links or from the menus on the right tab bar above.

Facility Annual Report
- Facility Compliance Check List

Company Annual Report
- Weighted Average GWG and Greenhouse Gas Potential Report
  - Status: Not Filed
Homepage
Facility Compliance Checklist

Welcome "Tristan Pulido" to Refrigerant Management Program

<table>
<thead>
<tr>
<th>#</th>
<th>Facility</th>
<th>Refrigeration Systems</th>
<th>ALD</th>
<th>ALD Compliance</th>
<th>Service Record</th>
<th>Service Record Compliance</th>
<th>Annual Report</th>
<th>Payment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>OffSite</td>
<td>3</td>
<td>0</td>
<td>Not Applicable</td>
<td>13</td>
<td>13</td>
<td>Not Filed</td>
<td>-</td>
</tr>
<tr>
<td>2</td>
<td>Kenzie’s Confectionary</td>
<td>4</td>
<td>1</td>
<td>✓</td>
<td>9</td>
<td>✓</td>
<td>Not Filed</td>
<td>-</td>
</tr>
</tbody>
</table>
## Facility Compliance Checklist

Welcome "Tristan Pulido" to Refrigerant Management Program

<table>
<thead>
<tr>
<th>Facility</th>
<th>Refrigeration Systems</th>
<th>ALD</th>
<th>ALD Compliance</th>
<th>Service Record</th>
<th>Service Record Compliance</th>
<th>Annual Report</th>
<th>Payment</th>
</tr>
</thead>
<tbody>
<tr>
<td>OffSite</td>
<td>3</td>
<td>0</td>
<td>Not Applicable</td>
<td>13</td>
<td>✗</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kenzie’s Confectionary</td>
<td>4</td>
<td>1</td>
<td>✓</td>
<td>9</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Logged in as: Tristan Pulido

(Company Admin)

(Kenzie’s Company)
Multiple Leak Inspections
Multiple Leak Inspections
Multiple Leak Inspections
Multiple Leak Inspections
Multiple Leak Inspections
Filing Annual Report
Filing Annual Report

Annual Report Information and Documentation

- Service Record data is not available in violation of C.C.R. 955.388(b)(1)(Z) - Incomplete servicing records in Tab 4
- ALD Servicing data is not available in violation of C.C.R. 955.388(b)(2) - Incomplete servicing records in Tab 3

**Refrigerant Purchase and Use Information must be filled in using 2 decimal values, for example, 1500.00. No blanks accepted, use 0.00.**

<table>
<thead>
<tr>
<th>Type</th>
<th>Total Purchased (lbs.)</th>
<th>Total Charged (lbs.)</th>
<th>Total Recovered (lbs.)</th>
<th>Total Stored (lbs.)</th>
<th>Total Shipped (lbs.)</th>
<th>Reason</th>
<th>Delete</th>
</tr>
</thead>
<tbody>
<tr>
<td>R-22</td>
<td>NCFE-22</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

For registered refrigeration systems complete the data fields below, if none enter 0 or set empty cells to "0".

For other refrigerant uses, click 'Add Other Refrigerant' and complete the data fields.

Add Other Refrigerant

Comment:

Back to Top | All ARU Contacts | A-Z Index
Batch Upload

Batch upload
Import registration XML file.
Batch Uploads

It is possible that not all data required for Registration or Annual Reporting is provided through the XML batch upload. Following an upload it remains the Company’s responsibility to verify that all required data is provided. Verification can be performed through on-screen review of all uploads related to a Facility.

**New Batch Upload**

- **Import Year:** 2021
- **Upload Title:** test
- **Upload File:** Choose File R3-Whole...6166527.

**Sample XML**
- Simple Sample XML
- Change Refrigerant Type (Retrofit)
- Change Chiller Size
- Change Equipment Type
- Change Temperature Class
- Change Operational Status
Batch Uploads
## Batch Uploads

It is possible that not all data required for Registration or Annual Reporting is provided through the XML batch upload. Following an upload it remains the Company’s responsibility to verify that all required data is provided. Verification can be performed through on-screen review of all uploads related to a Facility.

<table>
<thead>
<tr>
<th>Batch Upload Report</th>
<th>Description</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Facilities Created</td>
<td>Facilities in the batch upload that do not match a current facility in R3.</td>
<td>1</td>
</tr>
<tr>
<td>Current Facilities Updated</td>
<td>Facilities in the batch upload that match and will update a current facility in R3.</td>
<td>0</td>
</tr>
<tr>
<td>New System(s) Created</td>
<td>System(s) in the batch upload that do not match a current system in R3.</td>
<td>5</td>
</tr>
<tr>
<td>Current Systems Updated</td>
<td>System(s) in the batch upload that match and will update a current system in R3.</td>
<td>0</td>
</tr>
<tr>
<td>Total Service Records</td>
<td>Total number of new service records being added</td>
<td>20</td>
</tr>
</tbody>
</table>

**New Batch Upload**

- **Import Year**: 2021
- **Upload Title**: test
- **Upload File**: Choose File, No file chosen

**Sample XML**

- Single Sample XML
- Change Reference Year (Retired)
- Change Change Size
- Change Equipment Type
- Change Temperature Class
- Change Operational Status

Back to Top | All ABD Contacts | A-Z Index
Batch Uploads
Batch Uploads
Welcome “Tristan Pulido” to Refrigerant Management Program

Welcome to the Refrigerant Registration and Reporting System (R3). You are logged in as an Company Admin type user. This quick links on the left side of this page show activities available for users of your role type. Select an activity from the quick links or from the menus on the top tab bar above.

Facility Annual Report
Facility Compliance Check List

Company Annual Report

Weighted Average GWPF and Greenhouse Gas Potential Report

Status: Not Filed
Proposed Weighted Average GWP and GHGp Reporting Requirements

• Applies to Retail Food Companies:
  • With a refrigeration system with more than 50 pounds of a high GWP refrigerant
  • “Retail food facility includes supermarkets, grocery stores, and any other food merchandising stores.”
• This is determined in R3 by NAICS Code.
• By March 1, 2022, and each year thereafter, all Retail Food Companies must report their weighted average GWP and GHGp
• More detailed information can be found here: https://ww2.arb.ca.gov/sites/default/files/barcu/regact/2020/hfc2020/fro.pdf

*Pending final approval from Office of Administrative Law.
## Compliance Schedule

<table>
<thead>
<tr>
<th>Company Size</th>
<th>Compliance Requirement</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Companies owning or operating 20 or more retail food facilities in California, and national supermarket chains operating in California.</td>
<td>Attain a company-wide weighted-average GWP of less than 2,500 or a 25% or greater reduction in GHGp below 2019 levels by December 31, 2026.</td>
<td>December 31, 2026</td>
</tr>
<tr>
<td></td>
<td>Attain a company-wide weighted-average GWP of less than 1,400 or a 55% or greater reduction in GHGp below 2019 levels.</td>
<td>January 1, 2030</td>
</tr>
<tr>
<td>Companies owning or operating fewer than 20 retail food facilities in California</td>
<td>Attain a company-wide weighted-average GWP of less than 1,400 or a 55% or greater reduction in GHGp below 2019 levels.</td>
<td>January 1, 2030</td>
</tr>
</tbody>
</table>

*Pending final approval from Office of Administrative Law.*
Welcome "Tristan Pulido" to Refrigerant Management Program

Welcome to the Refrigerant Registration and Reporting System (R3). You are logged in as an Company Admin type user. The quick links on the left side of this page show activities available for users of your role type. Select an activity from the quick links or from the menus on the red tab bar above.

Facility Annual Report
Facility Compliance Check List

Company Annual Report
Weighted-Average GWL and Greenhouse Gas Potential Report

Status: Not Filed
Weighted Average GWP and GHGp Report

![Image of a website interface showing a file report for Weighted Average GWP and GHGp. The report includes columns for Year, Date of Filing, Status, Weighted-Average GWP, GHGp (metric tons of CO2e), and Action. The data for 2021 is shown as Not Filed.](image-url)
Weighted Average GWP and GHGp Report

<table>
<thead>
<tr>
<th>Year</th>
<th>Date of Filing</th>
<th>Status</th>
<th>Weighted-Average GWP</th>
<th>GHGp (metric tons of CO2e)</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>2021</td>
<td></td>
<td>Not Filed</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Weighted Average GWP and GHGp Report

<table>
<thead>
<tr>
<th>2021 Weighted-Average GWP</th>
<th>2021 GHGp (metric tons of CO2e)</th>
<th>2019 Baseline GHGp</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0</td>
<td>705,960 (Lbs CO2e)</td>
</tr>
</tbody>
</table>

*Please contact CARB staff if you have a question regarding the calculated 2019 Baseline GHGp.

Based on data reported in R3, below is your registered company and the number of facilities under that company. If the information is incorrect, please check the box below. If the information is incorrect, please contact CARB staff at HFCReductions@arb.ca.gov.
Weighted Average GWP and GHGp Report

<table>
<thead>
<tr>
<th>2021 Weighted-Average GWP</th>
<th>2021 GHGp (metric tons of CO2e)</th>
<th>2019 Baseline GHGp</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0</td>
<td>703,960 (LB CO2e)</td>
</tr>
</tbody>
</table>

*Please contact CARB staff if you have a question regarding the calculated 2019 Baseline GHGp.

Based on data reported in R3, below is your registered company and the number of facilities under that company. If the information is correct, please check the box below. If the information is incorrect, please contact CARB staff at HFCReductions@arb.ca.gov.

List of Systems and Calculations
# List of Systems and Calculations

<table>
<thead>
<tr>
<th>#</th>
<th>Company Name</th>
<th>Facility Name</th>
<th>NAICS Code</th>
<th>Refrigeration ID</th>
<th>Operation Type</th>
<th>Full Charge Amount</th>
<th>Installation Date</th>
<th>Refrigerant Type</th>
<th>GWP</th>
<th>GHG</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Kenzie’s Company</td>
<td>Kenzie’s Confectionery</td>
<td>15781</td>
<td>445110</td>
<td>Front Display</td>
<td>6/2020-01-01</td>
<td>R-464A</td>
<td>3.922</td>
<td>0.922</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Kenzie’s Company</td>
<td>Kenzie’s Confectionery</td>
<td>15781</td>
<td>445110</td>
<td>Walk-In</td>
<td>16/2017-11-08</td>
<td>R-464A</td>
<td>3.922</td>
<td>705.969</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Kenzie’s Company</td>
<td>Kenzie’s Confectionery</td>
<td>15781</td>
<td>445110</td>
<td>Side Display</td>
<td>5/2018-01-01</td>
<td>R-464A</td>
<td>3.922</td>
<td>0.922</td>
<td></td>
</tr>
</tbody>
</table>

**CALIFORNIA AIR RESOURCES BOARD**

Phone: 1 (916) 324-2517
Email: rptrackinfo@arb.ca.gov

[Image of the CARB website](https://ssl.arb.ca.gov/r3test/facilities/verify_result_baseline/year:2021/company)
Weighted Average GWP and GHGp Report

Annual Reporting of Greenhouse Gas Potential (GHGp) and Weighted-Average Global Warming Potential (GWP) for Companies with Retail Food Facilities

On or before March 1, 2022, and each year thereafter by March 1, all companies with a retail food facility shall report their Greenhouse Gas Potential (GHGp) and weighted-average Global Warming Potential (GWP) into the R3 database for the prior calendar year. "Company" means all businesses, affiliates, brands, or subsidiaries or franchises, owned or operated by the same parent company. Each parent company shall report their weighted average GWP and GHGp under one single profile in R3, that profile shall include all of their facilities.

Please enter your company's GHGp and weighted-average GWP below. Please note that compliance will be determined on a company-wide level taking into account all retail food facilities under each company. In order for CARB to accurately determine the compliance status of each company, it is essential that all facilities are reported under only one parent company in R3 and that there is only one weighted-average GWP value and one GHGp value for each parent company. For more information on how to calculate the weighted-average GWP and GHGp, formulas, and examples, please click here. For the full regulation text please click here.

<table>
<thead>
<tr>
<th>2021 Weighted-Average GWP</th>
<th>2021 GHGp (metric tons of CO2e)</th>
<th>2019 Baseline GHGp</th>
</tr>
</thead>
<tbody>
<tr>
<td>3143</td>
<td>300</td>
<td>705,960 (LbsCO2e)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>320 (MTCO2e)</td>
</tr>
</tbody>
</table>

*Please contact CARB staff if you have a question regarding the calculated 2019 Baseline GHGp.

Based on data reported in R3, below is your registered company and the number of facilities under that company. If the information is correct, please check the box below. If the information is incorrect, please contact CARB staff at HFCReduction@arb.ca.gov.
Weighted Average GWP and GHGp Report

Annual Reporting of Greenhouse Gas Potential (GHGp) and Weighted-Average Global Warming Potential (GWP) for Companies with Retail Food Facilities

On or before March 1, 2022, and each year thereafter by March 1, all companies with a retail food facility shall report their Greenhouse Gas Potential (GHGp) and weighted-average Global Warming Potential (GWP) into the R3 database for the prior calendar year. “Company” means all businesses, affiliates, brands, or subsidiaries or franchises, owned or operated by the same parent company. Each parent company shall report their weighted average GWP and GHGp under one single profile in R3, that profile shall include all of their facilities.

Please enter your company’s GHGp and weighted-average GWP below. Please note that compliance will be determined on a company-wide level taking into account all retail food facilities under each company. In order for CARB to accurately determine the compliance status of each company, it is essential that all facilities are reported under only one parent company in R3 and that there is only one weighted-average GWP value and one GHGp value for each parent company. For more information on how to calculate the weighted-average GWP and GHGp, formulas, and examples, please click here. For the full regulation text please click here.

<table>
<thead>
<tr>
<th>2021 Weighted-Average GWP</th>
<th>2021 GHGp (metric tons of CO2e)</th>
<th>2019 Baseline GHGp</th>
</tr>
</thead>
<tbody>
<tr>
<td>3143</td>
<td>300</td>
<td>705,960 (LbsCO2e)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>320 (MTCO2e)</td>
</tr>
</tbody>
</table>

*Please contact CARB staff if you have a question regarding the calculated 2019 Baseline GHGp.

Based on data reported in R3, below is your registered company and the number of facilities under that company. If the information is correct, please check the box below. If the information is incorrect, please contact CARB staff at HFCReduction@arb.ca.gov.

List of Systems and Calculations
Weighted Average GWP and GHGp Report

<table>
<thead>
<tr>
<th>Company</th>
<th>Number of Facilities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kenzie's Company</td>
<td>2</td>
</tr>
</tbody>
</table>

Company Information
Below is a list of your company's contact information. If the information is inaccurate, please click here to update your company profile.

<table>
<thead>
<tr>
<th>Company</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kenzie's Company</td>
<td>Kenzie's Company</td>
</tr>
<tr>
<td>1001 &quot;T&quot; ST.</td>
<td>1001 &quot;T&quot; ST.</td>
</tr>
<tr>
<td>Mackenzie Montrose</td>
<td></td>
</tr>
<tr>
<td>9162826283</td>
<td><a href="mailto:rajeevaggarwal@agrooya.com">rajeevaggarwal@agrooya.com</a></td>
</tr>
</tbody>
</table>

Penalty of Perjury
☐ I certify (or declare) under penalty of perjury under the laws of the State of California that all reported information is true and correct.

Name of Company Contact Submitting the Report: Tristan Pulido

[Save | Save & Submit]
Weighted Average GWP and GHGp Report
Final Notes

Refrigerant Registration and Reporting System (R3)
Order for Adding Service Records

1. Ensure you have completed all system changes and added all service records for prior years.

2. Always complete system status changes first in Tab 2.
   • This can either be done through the R3 application or an XML upload.

3. Then input service records into Tab 4.
   • This can either be done through the R3 application or an XML upload.

Final Notes:
• When in doubt, follow chronological order of events.
Errors in R3

• When you notice an error in R3 registration, please notify RMP staff so that the error can be addressed.
  Example #1: I added a system with 6,500 pounds of R-448A when I only meant 650.
  Example #2: Our company took over this building and the system is listed as R-22 when it appears to be using R-404A.
• Attempting to self-correct such errors could affect compliance.
Future R3 Changes

Welcome to the Refrigerant Registration and Reporting System (R3). The R3 is a web-based tool for implementing the registration, reporting, and fee payment provisions of the Refrigerant Management Program (RMP). In addition, the R3 offers the public a means to view lists of unreported refrigerants.

Important Information

General Public Users: Information for the general public does not require a login or account. For reports available to the public, select the Reports and Forms tab on the left-hand side. For contacts about the program, select the Contact tab on the right-hand side of the page.

First Time Users: To register, select the "Sign Up for New Registration" tab on the left-hand side. Select the First Time Account User tab on the right-hand side for more information.

First Time R3 and All District Users: R3 and All District users should contact their program administrator to set up an account.

Payment Information: Payment information can be found on the left-hand side of the page. Contact Information: For general questions, contact helpdesk@carbd.ca.gov or call 800-725-5517. For program-specific questions, contact Refrigerant & Air Districts Accounting at 800-725-5517.

Contact Information: For general questions, contact helpdesk@carbd.ca.gov or call 800-725-5517. Contact Information: For program-specific questions, contact Refrigerant & Air Districts Accounting at 800-725-5517. Program Webpage: http://www.arb.ca.gov/rmp/rmp.htm

Sign Up for New Registration
Questions

Helpline
(916) 324-2517
rmp@arb.ca.gov

Website:
http://arb.ca.gov/rmp
Refrigerant Registration and Reporting System (R3)
https://ssl.arb.ca.gov/rmp-r3/