



Refrigerant Management Program (RMP) Updates to the RMP's Registration and Reporting Tool December 12, 2024

Webinar Guidelines

- **Written comments and questions:** Leave them in the Q&A box anytime. We will try to answer them in the chat and alongside verbal comments and questions during the designated Comment & Question periods.
- **Verbal comments and questions:** Use the raised hand function (*9 if calling in by phone), and the host will call on you to unmute in the order hands were raised.
- Limit verbal comments to three minutes.
- State your name and affiliation before asking a question or commenting.

Agenda

Time	Topic
10:00 a.m.	General Users (Van Tsan and Areus Khong)
11:00 a.m.	Distributors, Wholesalers, and Reclaimers (Nathan Marschall)
11:30 a.m.	XML and XSD (Areus Khong)
12:00 p.m.	Q/A
1:00 p.m.	Adjourn

Session 1: General Users

- Common Terminology Overview
- Regulation Overview
- Key Requirement
- Overview of Updates
- New User Registration
- Resubmit Annual Report
- Payment Update
- Existing User Registration
- Manage Users
- Weighted-Average GWP and Greenhouse Gas Potential Report

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 the single largest refrigeration system on site (small, medium, or large)

Commonly Used Terminology

Appliance Architectural Change - 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.

Refrigerant Registration and Reporting System (R3) - online tool used for reporting under the Refrigerant Management Program.

RMP Regulation Overview

- In effect since January 1, 2011.
- Owners and/or operators of facilities with a stationary refrigeration system that uses more than 50-pounds of a high-GWP refrigerant.
 - Requires periodic leak inspections and prompt leak repairs.
- Any person who installs, services, or repairs a refrigeration or A/C system using a high-GWP refrigerant.
 - Service technicians

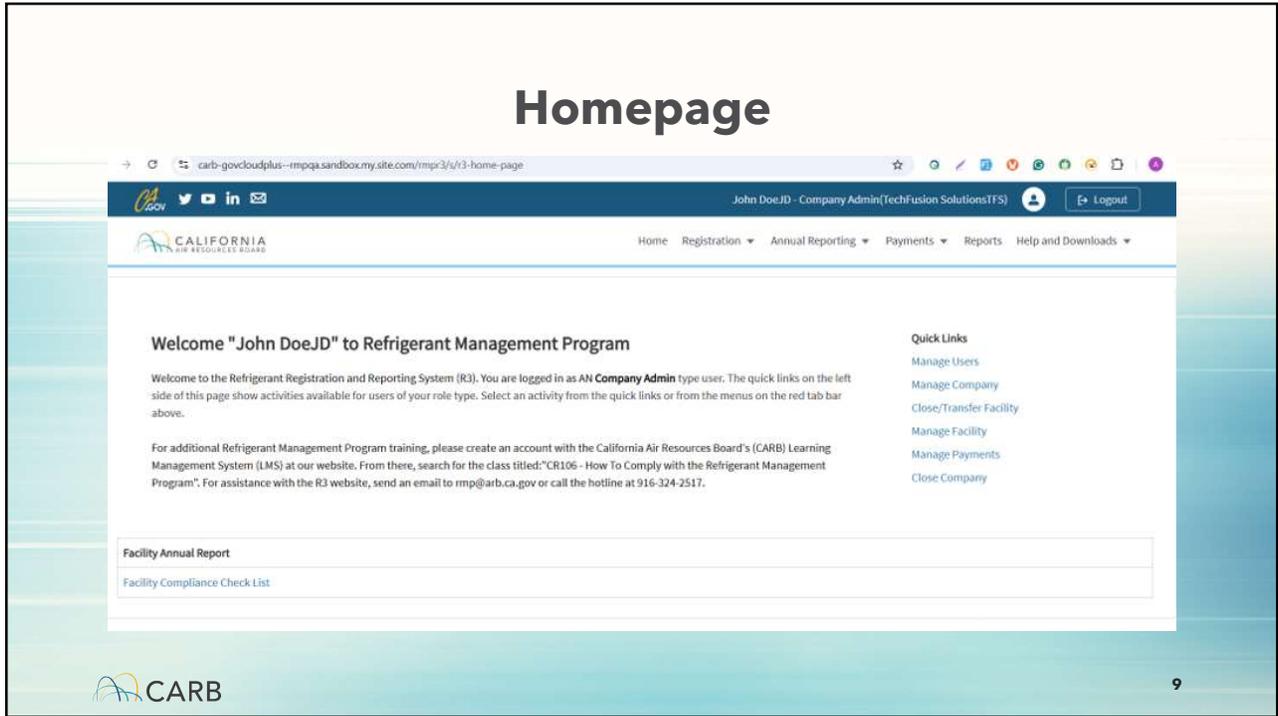
Key Requirements

- 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

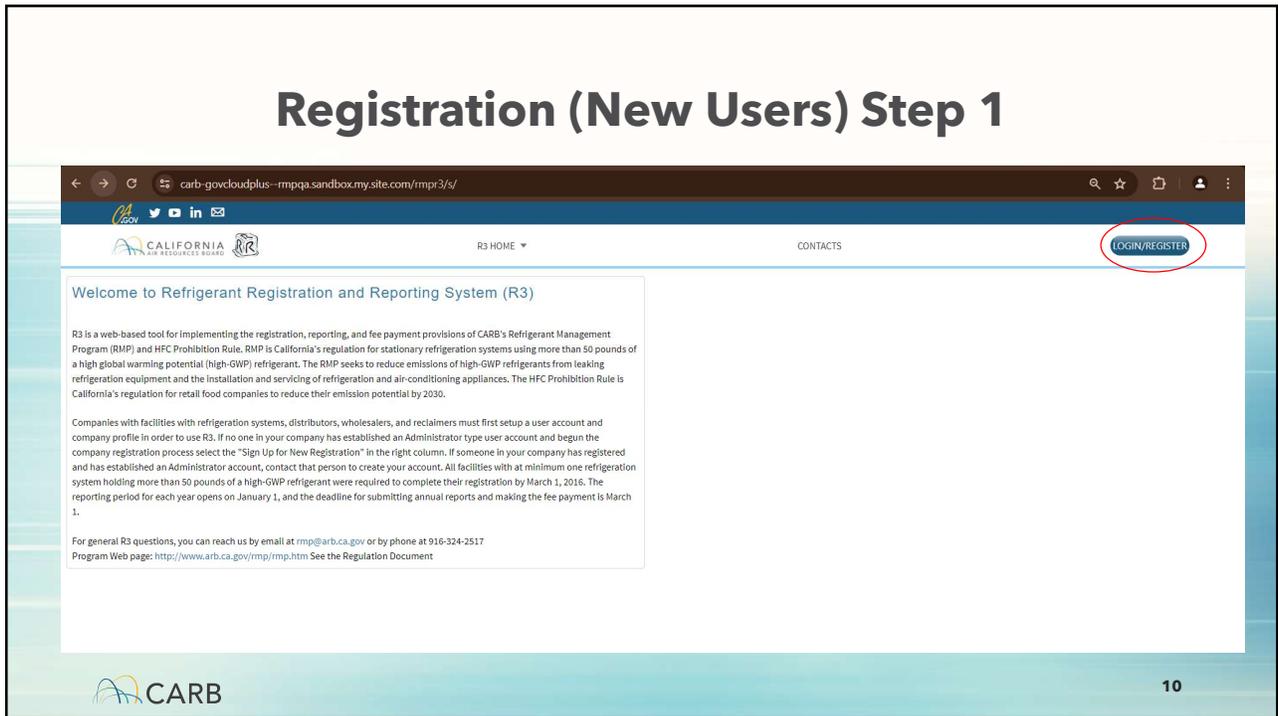
Overview of Updates

- R3 is now using Salesforce
- Enhanced security with Okta
- Appliance Architecture Change (AAC)
- Prompt to create an appliance for facility and to create an Automatic Leak Detection system
- Notification for use to accept transferred facility.
- Distributor/Reclaimer reporting facilities
- Batch upload - faster processing time
- Resubmit Annual Report
- Removal of Paper Check
 - E-check available in January 2025

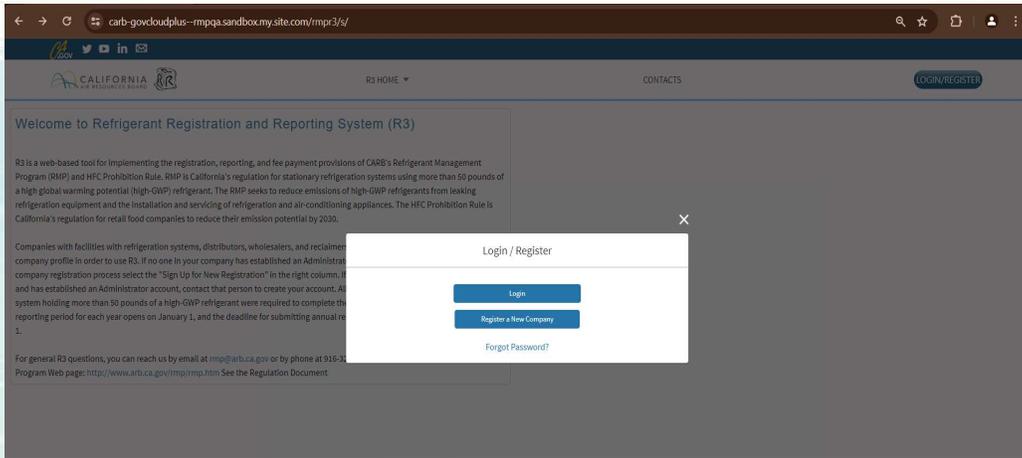
Homepage



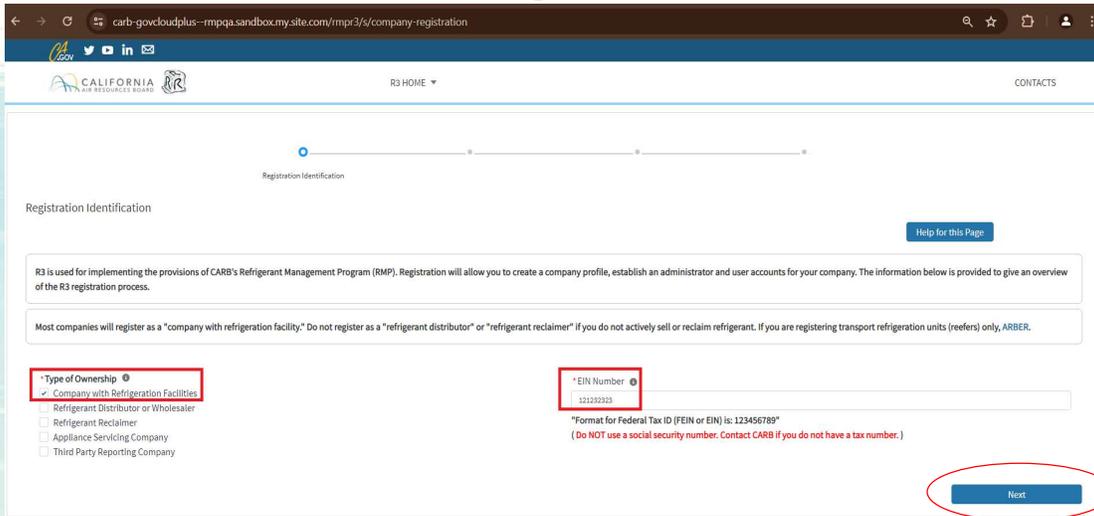
Registration (New Users) Step 1



Step 1.1



Step 1.2



Step 2. User and Company Profile, Contact, Mailing Address

Company Registration

Help for this Page

User Profile

* First Name
John

* Last Name
Smith

* Email
John.Smith@gmail.com

* Verify Email
John.Smith@gmail.com

* Telephone
(323) 324-0443

Step 2.1

Company Name
John Co

EIN
XXXXXX2223

Start Date Of Operation
06-10-2024

Contact Person Information

First Name
Alley

Last Name
Mike

Position
Manager

Phone
(343) 435-4546

Email
Alley.Mike@JohnCo.io

Mailing Address

Street Address 1
Oury Street

Street Address 2

State
California

City
San Jose

Zip Code
23344

Terms and Conditions*

Thank you for using ABB's Refrigerant Management Program (RMP) Refrigerant Registration and Reporting (R3) system. By using the R3 system, you agree to be bound by the following terms and conditions. By initiating your company's account for the R3 system, you certify that you are authorized to agree to the following terms and conditions on your company's behalf and do in fact agree to these terms and conditions. As your company's Administrator you will be able to assign additional users (Delegates) to view or edit your company's account information. As the Administrator of your company's profile, you agree that these terms and conditions are also binding on your Delegates.

I accept Terms and Conditions.

Previous Next

Step 3. Activating Account

The screenshot shows an email from Okta to the user 'carbrmpr3+0020'. The email content includes a welcome message, an explanation of Okta's role, and instructions to activate the account. A red box highlights the 'Activate RMP Account' button. Below the button, it states 'This link expires in 7 days.' The email also provides the username 'carbrmpr3+0020@gmail.com' and the organization's sign-in page 'https://login-dev.arb.ca.gov'. The footer of the email features the CARB logo and the number '15'.

Step 3.1

The screenshot displays the 'Set up security methods' page for the user 'carbrmpr3+0020@gmail.com'. It explains that security methods are required for account access. Under the 'Set up required' section, the 'Password' option is selected, with a 'Set up' button highlighted by a red box. A 'Back to sign in' link is located at the bottom of the page. The footer of the page features the CARB logo and the number '16'.

Step 3.2

Set up password

@ carbmpr3+0020@gmail.com

Password requirements:

- At least 15 characters
- A lowercase letter
- An uppercase letter
- A number
- No parts of your username
- Does not include your first name
- Does not include your last name
- Password can't be the same as your last 12 passwords

Enter password

Re-enter password

Next

[Return to authenticator list](#)
[Back to sign in](#)

What's New?

CALIFORNIA AIR RESOURCES BOARD

Home Registration Annual Reporting Payments Reports Help and Downloads

Home > Facility > (ABC Tech Solution) 2019

Facility Information **Appliances** ALD Sys & Services Leak Insp. & Service File Annual Report Annual Fee

Search By:
Appliance Name: Appliance Status:

Appliance Listing 1 Record(s) found

Appliance Na...	Appliance ID	Operational S...	Equipment T...	Manufacturer	Full Charge A...	Installation D...	Refrigeration ...	Service Recor...	Action
<input type="checkbox"/> Appliance 1	APP-0000860	Seasonal Operation	Chiller (Refrigeration/Industrial Process Cooling)	Acme Industries	5000	1/2/2019	G2018C - G2018C	1	<input type="button" value="Print"/>

« First < Previous Showing 1 of 1 Page(s) Next > Last »

Less Pop Ups

Appliances

Help for this Page

"Add New" will allow you to create an appliance profile under a facility. The information below is provided to give an overview of the each appliance field. If you have further questions on any of these terms or are having difficulty completing the information on the R3 application, please send an email to rmp@arb.ca.gov or call (916) 327-8532.

*Appliance Name

*Installation Date

*Model Year

*Manufacturer

*Model or Description

*Equipment Type

*Serial Number

*Operational Status

*Location

Location - Description

Leak Insp. & Service

Home > Facility > West Coast Distribution Center (TechFusion SolutionsTFS)

2022

Facility Information Appliances ALD Sys & Services **Leak Insp. & Service** File Annual Report Annual Fee

Service Year: Select Year Appliance Name: Select Appliance Name Appliance Service Type: Select Service Type from: to:

Search Clear Search Print Result

Leak Inspection and Service Listing 1 Record(s) found

Service Date	Appliance Name	Appliance ID	Refrigerant Type	Service Type	Leaks	Action
11/17/2022	Compressor Model CX-200	APP-0001029	EP-88 - Blend: PFC, isobutane, propane	Initial Refrigerant Charge	No	Print

« First < Previous Showing 1 of 1 Page(s) Next > Last »

Add New Add Multiple Leak Inspection

Appliance Compliance Check List 1 Record(s) found

Applian...	Description	Applian...	Size - Lo...	Equipm...	Operati...	Refriger...	ALD	Servic...	Action
Compressor...	An Automatic Leak Detection (ALD) System is required	APP-0001029	Large - Indo...	Chiller (Refr...	Normal Ope...	EP-88 - Blen...			Print

« First < Previous Showing 1 of 1 Page(s) Next > Last »

Annual Report

Home > Facility > West Coast Distribution Center (TechFusion SolutionsTFS)

2022

Facility Information Appliances ALD Sys & Services Leak Insp. & Service **File Annual Report** Annual Fee

Annual Report Listing For West Coast Distribution Center

Year	Facility Name	Date of Filing	Filing Person	Status	Action
2023	West Coast Distribution Center			Not Filed	Print
2022	West Coast Distribution Center			Not Filed	Print
2021	West Coast Distribution Center			Not Applicable	Print
2020	West Coast Distribution Center			Not Applicable	Print
2019	West Coast Distribution Center			Not Applicable	Print
2018	West Coast Distribution Center			Not Applicable	Print
2017	West Coast Distribution Center			Not Applicable	Print
2016	West Coast Distribution Center			Not Applicable	Print

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Resubmit Annual Report

With the new version of R3, users can:

- **Resubmit their annual report** if they need to make changes.

No Need to Contact Support

Previously:

- Users had to call us to request the deletion of the submitted version.

Now:

- Simply **resubmit directly** through the system.
- The updated report will replace the previous version.

Refrigerant Purchase and Use Information

Make All Blank Fields Value To Zero * Reload Total Charged And Total Recovered

Type	Total Purchased ...	Total Charged (lb...)	Total Stored (lb...)
1 EP-88 - Blend: P...	1000	2300	0

Add Row

Comments

Resubmit Cancel

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Annual Fees: RMP will no longer accept paper checks for payments.

Credit Card Payments Only

- From **now until mid-January**, R3 will **only accept credit card payments** for transactions.

"Pay by ACH" Option

Although the "Pay by ACH" option is visible:

- This payment method is **not yet available**.
- Implementation is expected by **end-January**.

Why This Change?

- To ensure **greater accuracy** in payment collection.

IA
RMP

Home Registration Annual Reporting Payments Reports Help and Downloads

Invoice #: RMP-2022-000144 Invoice Date: 11/06/2024
Company Name: Payment for Year: 2022
Address: Payment Status: Due

Facility Name	Amount Due (\$)
	370

1 Record(s) found

« First < Previous Showing 1 of 1 Page(s) Next > Last »

Total Payment Due: \$370

Pay Now by Credit Card Pay By ACH Cancel



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Existing User

Email Registration and Okta Setup

Existing users will receive an email prompting them to:

- Register their account.
- Set up Okta (Step 3).
- If users already have Okta, only need to set up a password.

After logging in, users will see their associated company.

Users Managing Multiple Companies

For users with one email and multiple usernames/companies:

- Must register as either:
 - Appliance Servicing Company**, or
 - Third Party Reporting Company**.
- Allows the management of multiple companies under one account.



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Change

New Security Rule

- One email = One company
- Users can only access one company if they are a company admin.

Key Improvement

- Previous website required multiple accounts for different companies.
- **Now:** Users can manage multiple companies under a single account.

Scenario

Example 1

- **Company A** and **Company B** hire **Technician C**.
- Both companies can add **Technician C** as:
 - An **Appliance Servicing Company** user, or
 - A **Third-Party Company** user.
- Technician C assists with reporting across multiple companies efficiently.

Scenario

- **Example 2**
 - **Company A** is both:
 - A **Distributor/Wholesaler**.
 - Provides **leak reporting services** for other companies (e.g., Companies B, C, D).
 - Company Admin Role:
 - One person from **Company A** should register as the **Company Admin**.
 - Manages operations and reports for **Company A** exclusively.
 - Service Provider Role:
 - Another person from **Company A** should register as:
 - **An Appliance Servicing Company** user, or **A Third-Party Company** user.
 - These roles allow servicing and reporting for both **Company A** and other companies (e.g., B, C, D).

Users Listing

- From the Users listing page, the company admin can add more users as company admin and facility admin.
- Company admin can add users for appliance servicing company and third-party company.

Users Listing

First Name	Last Name	Company Name	Facility Name
Nathan	Marschall	TestNathan	

<< First < Previous Showing 1 of 1 Page(s) Next > Last >>

Add User

Company	Facility	Search
Select Company	Select Facility	<input type="text"/>
<div style="display: flex; justify-content: space-between; width: 100%;"> Submit Clear Search </div>		

Appliance Servicing Company	Facility	From Date	To Date
No records available for you to view.			

Add Appliance Servicing Company

Third Party Company	From Date	To Date
No records available for you to view.		

Add Third Party Company

 CARB

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Weighted-Average GWP and Greenhouse Gas Potential Report

Reporting Process Overview

The process for filing the Weighted-Average GWP and Greenhouse Gas Potential Report remains **the same**:

1. Navigate to the **Register** dropdown.
2. Select **Company Management**.
3. Click on the desired **Company**.
4. In the **Edit Information** section:

Scroll down and click on **Weighted-Average GWP and Greenhouse Gas Potential Report**.

* City
Sacramento

* Zipcode
95814

* Number of Facilities:
4

Company Annual Report

Weighted-Average GWP and Greenhouse Gas Potential Report

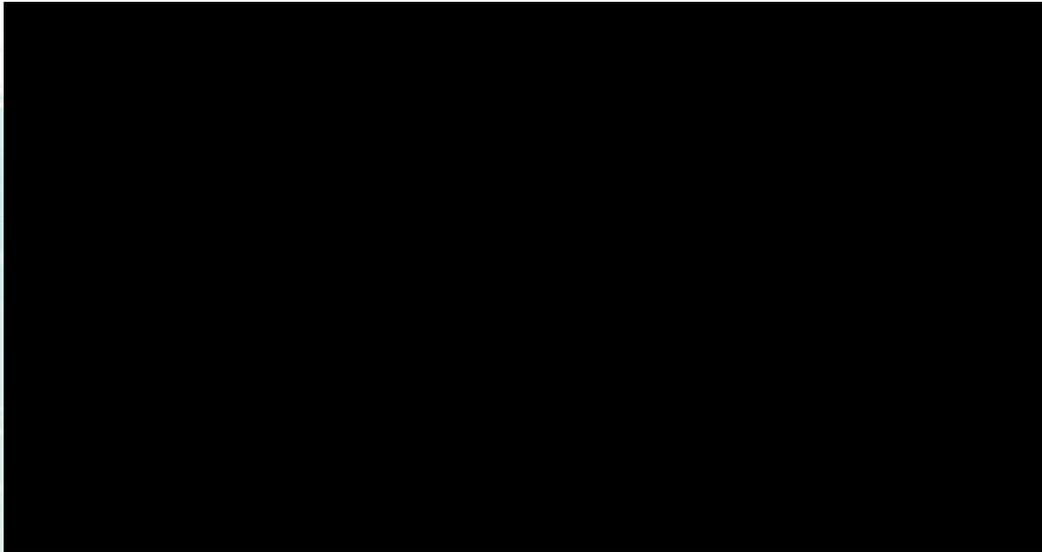
For help, contact:
HFCReduction@arb.ca.gov



File Report							
Year	Weighted-Avera...	GHGp (metric to...	Baseline GHGp(...	MTCO2e	Date of Filing	Filing Person	Status
2023			32,135,000	14,576			Not Filed
2022			32,135,000	14,576			Not Filed
2021	4,000	1,500,000	32,135,000	14,576	12/5/2024	hball	Filed

« First < Previous Showing 1 of 1 Page(s) Next > Last »

Video Demonstration



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.

Session 1: Q & A



Use the raised hand function (*9 if calling in by phone) or submit your question or comment in the Q&A box on Zoom.



Please state your name and affiliation before asking a question or making a comment

Contact Information

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

Website:

- Refrigerant Management Program (RMP)
<https://ww2.arb.ca.gov/our-work/programs/refrigerant-management-program>
- Refrigerant Registration and Reporting System (R3)
<https://rmpr3.arb.ca.gov/rmpr3/s/>



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Refrigerant Management Program (RMP)

Updates to the RMP's Registration and
Reporting Tool

December 12, 2024

Agenda

Time	Topic
10:00 a.m.	General Users (Van Tsan and Areus Khong)
11:00 a.m.	Distributors, Wholesalers, and Reclaimers (Nathan Marschall)
11:30 a.m.	XML and XSD (Areus Khong)
12:00 p.m.	Q/A
1:00 p.m.	Adjourn

- **Session 2: Distributors, Wholesalers, and Reclaimers**
- Introduction
- What classifies as a Wholesaler, Distributor, or Reclaimer?
- Sign in and file report functionality for Wholesaler/Distributor
- Sign in and file report functionality for Reclaimer

What is a Wholesaler or Distributor?

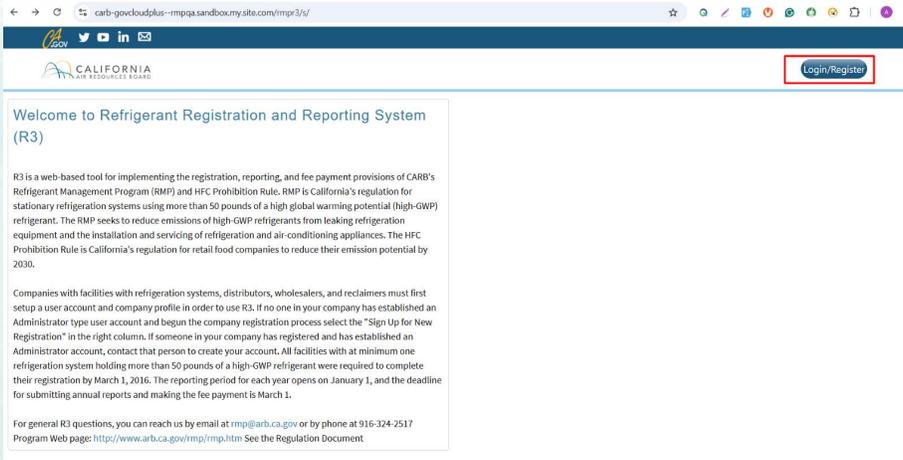
- Refrigerant Wholesaler or Distributor
 - A person or business to whom a refrigerant product is sold for export, subsequent resale, or delivery to a technician.
 - This also includes any person who imports refrigerant from outside of this state to distribute or sell refrigerant to a certified technician, employer of a certified technician, appliance manufacturer, or another refrigerant distributor or wholesaler, or who acts as an agent or broker in buying refrigerant.

What is a Certified Reclaimer?

- Certified Refrigerant Reclaimer
 - They reclaim refrigerant from out of service or outdated refrigeration equipment for future re-use or sale
 - In accordance with Title 40 of the Code of Federal Regulations, Part 82, §82.164
 - They also must keep records of refrigerant reclaim as well as transfer, which can be accessed via the R3 tool

Home Page

1. Landing page



The screenshot shows the landing page of the R3 (Refrigerant Registration and Reporting System) website. The browser address bar shows the URL: carb.govcloudplus-rmpqa.sandbox.my.site.com/rmp3/. The page header includes the CARB logo and a "Login/Register" button. The main content area is titled "Welcome to Refrigerant Registration and Reporting System (R3)".

Welcome to Refrigerant Registration and Reporting System (R3)

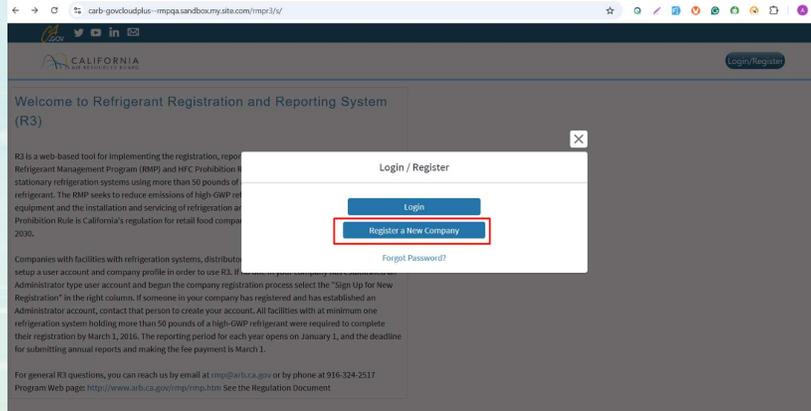
R3 is a web-based tool for implementing the registration, reporting, and fee payment provisions of CARB's Refrigerant Management Program (RMP) and HFC Prohibition Rule. RMP is California's regulation for stationary refrigeration systems using more than 50 pounds of a high global warming potential (high-GWP) refrigerant. The RMP seeks to reduce emissions of high-GWP refrigerants from leaking refrigeration equipment and the installation and servicing of refrigeration and air-conditioning appliances. The HFC Prohibition Rule is California's regulation for retail food companies to reduce their emission potential by 2030.

Companies with facilities with refrigeration systems, distributors, wholesalers, and reclaimers must first setup a user account and company profile in order to use R3. If no one in your company has established an Administrator type user account and begun the company registration process select the "Sign Up for New Registration" in the right column. If someone in your company has registered and has established an Administrator account, contact that person to create your account. All facilities with at minimum one refrigeration system holding more than 50 pounds of a high-GWP refrigerant were required to complete their registration by March 1, 2016. The reporting period for each year opens on January 1, and the deadline for submitting annual reports and making the fee payment is March 1.

For general R3 questions, you can reach us by email at rmp@arb.ca.gov or by phone at 916-324-2517
Program Web page: <http://www.arb.ca.gov/rmp/rmp.htm> See the Regulation Document

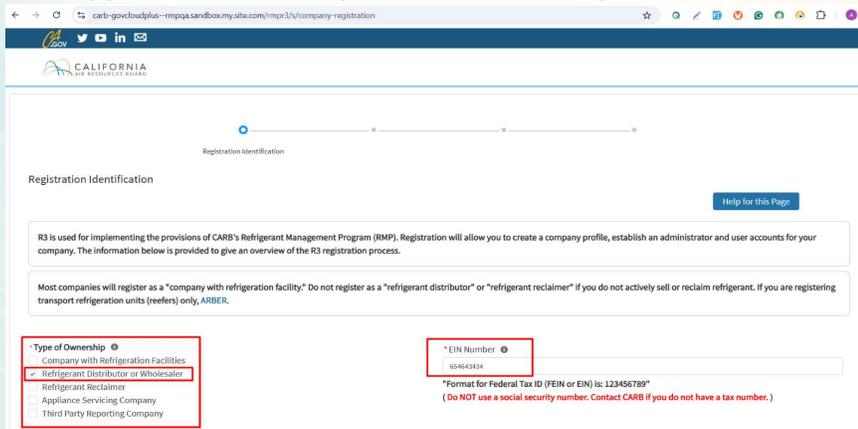
Register

2. Click "Register New Company"



Ownership type and EIN

3. Select type of ownership and enter 9-digit EIN (XXXXXXXXXX)



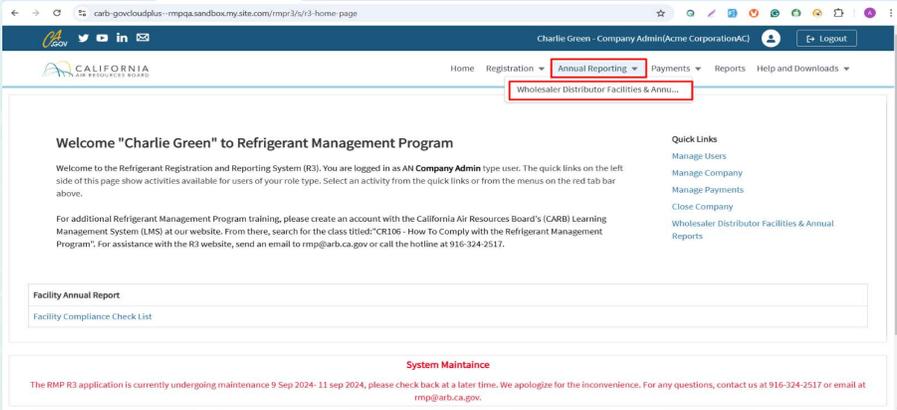
Enter Information

4. Enter the following information as it applies:

- User profile section
 - Name (First and Last)
 - Email (and verify email)
 - Telephone number
- Company profile section
 - Company name
 - EIN will auto-populate from previous page
 - Company start date of operation
- Contact person section
 - This can be a different person than the user if necessary
- Mailing Address section
- Accept terms and conditions

Steps for Registering Facility

1. Navigate to the "Annual Reporting" Tab, and select "Wholesaler Distributor Facilities & Annual Reports"



The screenshot shows a web browser window displaying the CARB RMP website. The user is logged in as 'Charlie Green - Company Admin(Acme CorporationAC)'. The navigation menu at the top includes 'Home', 'Registration', 'Annual Reporting', 'Payments', 'Reports', and 'Help and Downloads'. The 'Annual Reporting' dropdown menu is expanded, and 'Wholesaler Distributor Facilities & Annual Reports' is highlighted with a red box. Below the navigation, there is a welcome message for 'Charlie Green' and a 'Quick Links' section. The 'Quick Links' section includes 'Manage Users', 'Manage Company', 'Manage Payments', 'Close Company', and 'Wholesaler Distributor Facilities & Annual Reports'. At the bottom, there is a 'System Maintenance' notice stating that the RMP R3 application is currently undergoing maintenance from 9 Sep 2024 to 11 Sep 2024.

Add New Facility

2. Click the "Add New" button under the "Facilities" tab

Home » Annual Report » File Report For Distributor and Reclaimer

Distributor or Wholesaler Annual Reports and Facilities List

Facilities Annual Report

Select Status
Active

Company Name	Facility Name	Address	City	Status	Action
No records available for you to view.					

Add New Close Wholesale Facility

Facility Information

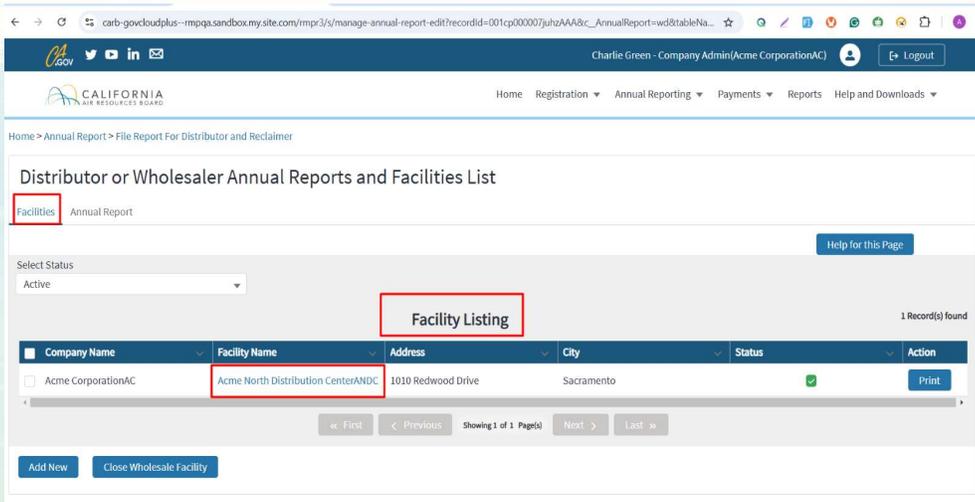
3. Enter the following information as it pertains to your new facility:

- Company Name (Auto Populated)
- Facility Name
- Start Date of Operation
- Location Address
- Street Address 1
- Street Address 2 (**Note:** Optional field)
- City
- State
- Zip Code
- Then click "Validate Address" and confirm

Facility Information Continued

- Facility contact person
 - Select the checkbox to auto-fill if the company contact is the same as the facility contact, otherwise continue to enter the following:
 - First Name
 - Last Name
 - Position
 - Phone
 - Email
- Business codes
 - NAICS Code
 - SIC Code

Example Facility



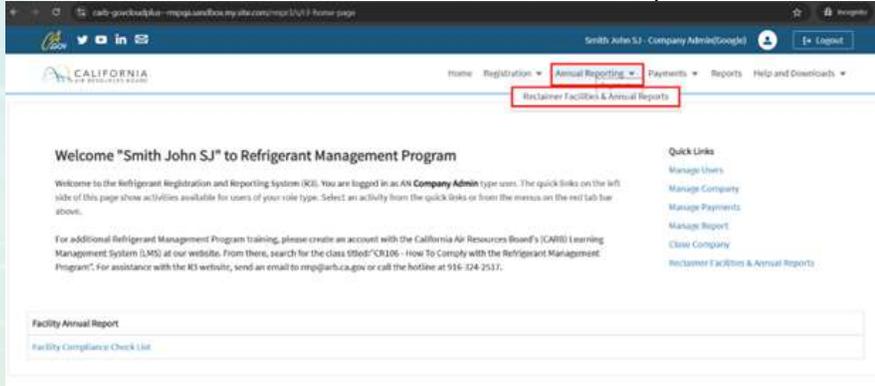
The screenshot shows the 'Distributor or Wholesaler Annual Reports and Facilities List' page. The 'Facilities' tab is selected. A dropdown menu for 'Select Status' is set to 'Active'. A 'Facility Listing' table is displayed with the following data:

Company Name	Facility Name	Address	City	Status	Action
Acme CorporationAC	Acme North Distribution CenterANDC	1010 Redwood Drive	Sacramento	Active	Print

Navigation buttons include 'Add New', 'Close Wholesale Facility', and pagination controls showing 'Showing 1 of 1 Page(s)'.

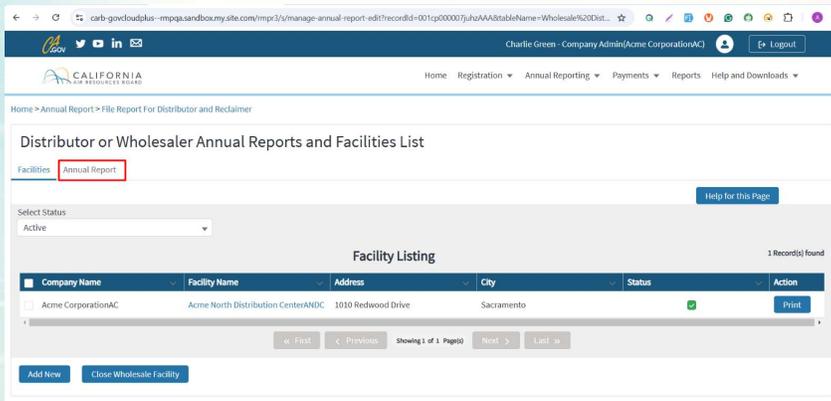
File Annual Report

Navigate to "Annual Reporting" Tab, and select "Wholesaler Distributor Facilities & Annual Reports"



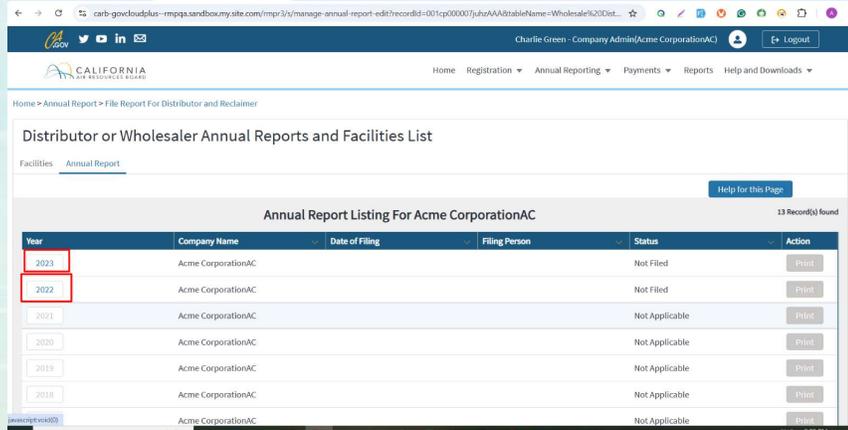
File Annual Report Continued

2. Select the "Annual Report" tab



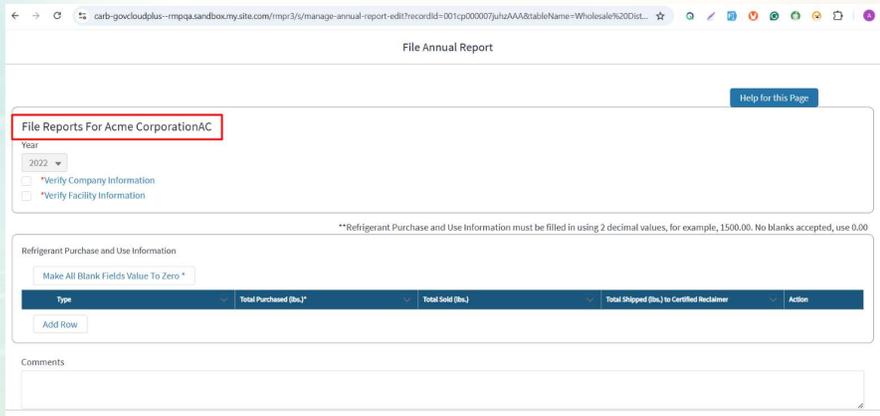
File Annual Report Year Selection

3. Select what year you wish to file the annual report for



File Annual Report Verification

4. Select the checkboxes to verify Company/Facility Information



Refrigerant Use Report Wholesaler/Distributor

5. Click the "Add Row" button and enter the following as it applies:

For Wholesaler/Distributor-

- Type (of refrigerant)
- Total Purchased
- Total Sold
- Total Shipped to Certified Reclaimer

Refrigerant Use Report - Reclaimer

For Reclaimer-

- Type
- Total Received
- Total Claimed (in CA)
- Total Shipped (Out of CA)
- Total Refrigerant Destroyed

File Annual Report

6. Click the "File Annual Report" button to file

File Annual Report

other categories of information that are clearly public records without notifying you. However, if you indicate your submission contains confidential information, ARB will not release potentially confidential information you are submitting without first following the procedures specified in title 17, California Code of Regulations, sections 91000 to 91022. These procedures provide safeguards against the release of confidential information, including an opportunity for the person submitting information under claim of confidentiality to justify the claim and obtain a decision from ARB as to confidential status prior to any public release of the information. By selecting "No," you are stating that your submission contains no confidential information and that ARB may publicly release any information you have submitted.

* Do you claim any of this information is confidential under California law?

Yes

No

Terms and Conditions.

By submitting my electronic signature via the Air Resources Boards Refrigerant Management Program reporting tool, I hereby certify that this report has been prepared in accordance with the sections 95380-95388, title 17, California Code of Regulations, and that the statements and information contained in the report are true, accurate, and complete. As a User, I agree that documents submitted with electronic signatures, either scanned or using digital link, or any other electronic format approved by ARB, will be considered valid for certification. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information.

* Certify that the above information is correct.

Comments and Questions



Use the raised hand function (*9 if calling in by phone) or submit your question or comment in the Q&A box on Zoom.



Please state your name and affiliation before asking a question or making a comment



Refrigerant Management Program (RMP)
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December 12, 2024

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1:00 p.m.	Adjourn

- **Session 3: XML and XSD**
- General information
- Changes in the XSD Document
- Common Questions
- Example XML
- How to Batch import for new users
- Common Errors

XML Batch Upload General Information

- **What is it?**

A method to upload large amounts of structured data in one file.

- **Why use it?**

- Saves time by handling bulk data.
- Saves time from manual entry
- Ensures consistency and accuracy.
- Simplifies data management processes.

Overview of Updates

- **Element Renaming:** Updated names for consistency
- **New Fields:** Added detailed address and contact information.
- **Simplified Categories:** Broader groups for easier data management.
- **Improved Documentation:** Clearer descriptions for better usability.
- **Removed Legacy Elements:** Eliminated outdated or unused fields.
- **Enhanced Values:** Added new options to meet modern needs.

Basic Changes in the XSD

- **Renamed Terms:** RefrigerantSystem is now Appliance
 - (e.g., RefrigerantSystemServiceStatus → ApplianceServiceStatus).
- **New Values:** Expanded options for RefrigerantBlendType
 - (e.g., r-1112, r-1112a, r-1123).
- **Simplified Categories:** Broader LeakRepairMethodType
 - (e.g., "compressor repair not otherwise listed")
- **Updated Elements:**
 - RetrofitList → AppArcChangelist
 - RetrofitDetail → AppArcChangeDetail

Common Questions

Resubmitting for Previous Years:

- If users would like to make changes, they must select from the options in the dropdown.
- The same applies to enumeration:
 - If customers have to resubmit something from a prior year, they must use the new enumeration.
 - The system will only accept the enumeration that is currently available.

"New," "Update," and "Info" Actions

New:

- Adding a facility, appliance, or service record that does not exist.
- Creates a new entry every time.
- No update is allowed on "New" entries.

Update:

- Modifying existing records like facilities or appliances.
- Certain fields (e.g., InstallationDate, EquipmentType) cannot be updated.
- Changes require selecting from dropdown options for system compatibility.

Info:

- Viewing or retrieving data
- Making small or specific changes

Permanent Shutdown vs. Final Refrigerant Removal

Permanent Shutdown and Removal

```
<xsd:enumeration value="permanent shutdown and removal"/>
```

- Definition: Indicates that the appliance is permanently decommissioned and will never be used again.
 - Complete dismantling of the system.
 - No potential for future operation.
 - Typically involves final disposal or recycling of components.

Final Refrigerant Removal (Shutdown)

```
<xsd:enumeration value="final refrigerant removal (shutdown)"/>
```

- Definition: Refers to a state where the appliance is temporarily decommissioned with potential for future use.
 - All refrigerant is safely removed.
 - The system is essentially "mothballed" for potential reactivation.
 - May be stored or maintained for possible future reinstatement.

ADL Service Type Key Differences

Audit

Definition: A **review process** to evaluate the system without making changes.

- Focused on observation and documentation.
- No alterations to the system are made.
- Identifies areas for potential improvement or compliance.

Calibration

Definition: **manual adjustments** to ensure the system meets standards.

- Involves active changes to settings or parameters.
- May include fine-tuning for accuracy or performance.
- Ensures alignment with desired operational benchmarks.

```
<xsd:simpleType name="ALDTypeOfService">
  <xsd:annotation>
    <xsd:documentation>This is a simple type for Automatic Leak Detection system.</xsd:documentation>
  </xsd:annotation>
  <xsd:restriction base="xsd:string">
    <xsd:minLength value="1"/>
    <xsd:maxLength value="150"/>
    <xsd:enumeration value="calibration"/>
    <xsd:enumeration value="audit"/>
  </xsd:restriction>
</xsd:simpleType>
```

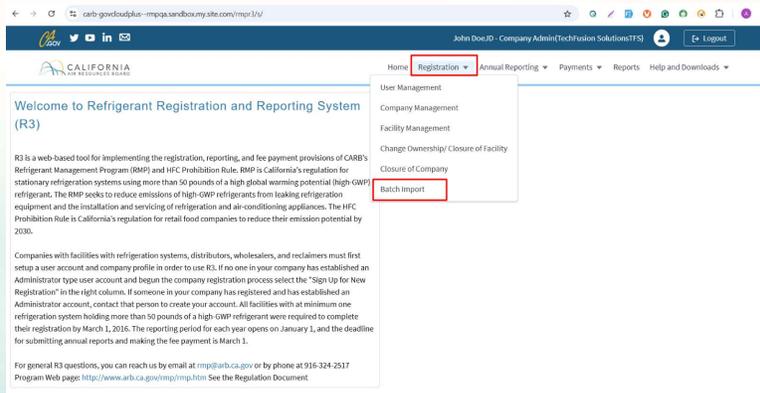
Appliance Architectual Change

- The following elements are required or optional based on the changes being made:
 - Required: ChangeDate
 - Situational:
 - NewEquipmentType
 - NewOperationalStatus
 - NewFullChargeAmount
 - NewRefrigerantType

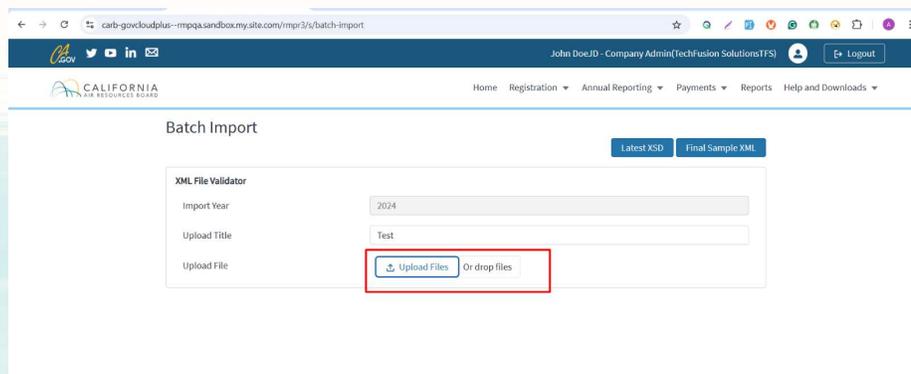
```
<FacilityListing>
  <FacilityProfile>
    <FacilityName>Final test</FacilityName>
    <Action>Info</Action>
    <ApplianceList>
      <Appliance>
        <ApplianceDetail>
          <Name>appl1</Name>
          <Action>Update</Action>
          <IsAAC>Yes</IsAAC>
          <AppArcChangelist>
            <AppArcChangeDetail>
              <ChangeDate>2020-10-10</ChangeDate>
              <NewEquipmentType>chiller (refrigeration/industrial process cooling)</NewEquipmentType>
              <NewFullChargeAmount>10000</NewFullChargeAmount>
            </AppArcChangeDetail>
          </AppArcChangelist>
        </ApplianceDetail>
      </Appliance>
    </ApplianceList>
  </FacilityProfile>
</FacilityListing>
```

How to Batch upload

- First login then navigate to registration, and then the "Batch Import" Tab
- Click on the "Batch Import" Tab



How to Batch upload



- Then click on the "Upload Files" Button and select your XML file or files for import
- A success message is displayed in green color stating "Success."
- Go to Registration -> Facility Management, and the newly created facility should be displayed under the Facility Listing section

Error Handling

The screenshot shows the 'Batch Import' section of the California Air Resources Board website. It features an 'XML File Validator' form with the following fields and options:

- Import Year:** 2024
- Upload Title:** (empty text box)
- Upload File:** Includes 'Upload Files' and 'Or drop files' buttons, with a file named 'Test_xmlLam1' selected.
- Error Message:** A dropdown menu showing two error messages:
 - Required company/facility contact elements are missing to create this facility: 1127Safetyway
 - Required company/facility contact elements are missing to create this facility: 4601Safetyway

- Each XML file is validated against the finalized XSD to ensure compliance.
- Any errors will be shown directly below the upload box for quick identification and resolution.

XML Examples

```
<ApplianceDetail>
  <Name>A</Name>
  <Action>New</Action>
  <InstallationDate>2007-11-19</InstallationDate>
  <ModelYear>2007</ModelYear>
  <ModelDescription>HLA-207-POCANIN-68</ModelDescription>
  <ManufacturerName>armstrong</ManufacturerName>
  <EquipmentType>refrigeration</EquipmentType>
  <SerialNumber>0203800215</SerialNumber>
  <LocationType>Indoors</LocationType>
  <Location>Motor Room</Location>
  <TemperatureClass>low</TemperatureClass>
  <OperationalStatus>normal operation</OperationalStatus>
  <DateOfOperation>2007-11-19</DateOfOperation>
  <FullChargeAmount>1117</FullChargeAmount>
  <RefrigerantType>r-507</RefrigerantType>
  <ChargeAmountDeterminedBy>charge calculator program</ChargeAmountDeterminedBy>
  <InitialChargeAmount>1117</InitialChargeAmount>
</ApplianceDetail>
```

More XML

```

<ServiceRecordList>
  <ServiceRecordDetail>
    <ServiceRecordReferenceId>2038425</ServiceRecordReferenceId>
    <ServiceDate>2023-01-05</ServiceDate>
    <TypeofService>leak repair</TypeofService>
    <LeakDetected>Yes</LeakDetected>
    <RefrigerantAmountAdded>75</RefrigerantAmountAdded>
    <RefrigerantAmountRemoved>0</RefrigerantAmountRemoved>
    <LeakDetectionMethod>bubble test</LeakDetectionMethod>
    <LeakRepairType>suction line - schrader</LeakRepairType>
    <DateLeakDetected>2023-01-05</DateLeakDetected>
    <DateLeakRepaired>2023-01-05</DateLeakRepaired>
    <InitialVerificationTestDate>2023-01-05</InitialVerificationTestDate>
    <FollowUpVerificationTestDate>2023-01-05</FollowUpVerificationTestDate>
    <CauseOfLeakDescription>Seal Failure</CauseOfLeakDescription>
    <TechnicianName>Bryan Brown</TechnicianName>
    <TechnicianCertificateNumber>995528258070</TechnicianCertificateNumber>
    <TechnicianCertificateType>universal</TechnicianCertificateType>
    <AdditionalComments>found leak on suction line schrader, replaced core to repair.</AdditionalComments>
  </ServiceRecordDetail>
</ServiceRecordList>

```

```

</ApplianceList>
<ALDList>
  <ALD>
    <ALDDetail>
      <Name>Store ALDS</Name>
      <InstallationDate>2015-09-01</InstallationDate>
      <ManufacturerName>bacharach</ManufacturerName>
      <DetectionSystemType>concentration monitor (direct system)</DetectionSystemType>
      <DetectionLimit>0.9</DetectionLimit>
      <AlarmSetPoint>150</AlarmSetPoint>
      <ConcentrationMonitor>distributed sensors with central readout panel</ConcentrationMonitor>
      <ConcentrationMonitorManufacturer>bacharach</ConcentrationMonitorManufacturer>
      <NumberOfSensors>15</NumberOfSensors>
      <SensorManufacturer>bacharach</SensorManufacturer>
      <Appliances>
        <AssociatedAppliance>B</AssociatedAppliance>
      </Appliances>
    </ALDDetail>
  </ALD>
</ALDList>
</FacilityProfile>

```

Comments and Questions



Use the raised hand function (*9 if calling in by phone) or submit your question or comment in the Q&A box on Zoom.



Please state your name and affiliation before asking a question or making a comment

Open Q/A

Comments and Questions



Use the raised hand function (*9 if calling in by phone) or submit your question or comment in the Q&A box on Zoom.



Please state your name and affiliation before asking a question or making a comment

Contact Information

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

Website:

- Refrigerant Management Program (RMP)
<https://ww2.arb.ca.gov/our-work/programs/refrigerant-management-program>
- Refrigerant Registration and Reporting System (R3)
<https://rmpr3.arb.ca.gov/rmpr3/s/>

