



# **REFRIGERANT MANAGEMENT PROGRAM (RMP)**

**California Air Resources Board**

**May 23, 2013**

**GreenChill Webinar**

**Sacramento, CA**

# PRESENTATION OVERVIEW

- This is 95% the same as the ARB presentation at Hillphoenix meeting in Commerce, CA on May 15
- Background
- Rule Applicability – Applies only to CA facilities
- Compliance Requirements for Facilities
- Registration and Reporting using R3 tool



# **BACKGROUND**

# BACKGROUND

- California Assembly Bill (AB) 32 – Global Warming Solutions Act of 2006
- EPA Rule 608 & South Coast Air Quality Management District (SCAQMD) Rule 1415
- High-GWP gases (ODS & HFCs)
- RMP rule adopted December 2009



# COVERED REFRIGERANTS

- All ODS and all high-global warming refrigerants with a GWP >150
  - Chlorofluorocarbons (CFCs)
  - Hydrochlorofluorocarbons (HCFCs)
  - Hydrofluorocarbons (HFCs)
  - Perfluorocarbons (PFCs)
- Carbon dioxide and ammonia are not covered in RMP



# GLOBAL WARMING POTENTIAL OF COMMON REFRIGERANTS (CO<sub>2</sub> e)

## CFC

R-502 ~ 4,700



## HCFC

R-22 ~ 1,500



## HFC

R-507a ~ 4,000

R-404a ~ 3,900

R-407c ~ 1,800



[www.china.cn](http://www.china.cn)



# **RULE APPLICABILITY**

# APPLICABILITY

- Facilities in California
- Facility owners/operators using > 50-lbs of a covered refrigerant in a single system (excludes comfort cooling)
- Service technicians of refrigeration or A/C systems (Required Service Practices)
- Distributors, wholesalers and reclaimers, of high-GWP refrigerants

# COVERED SYSTEMS

## REGISTRATION (FACILITIES)

- Stationary refrigeration system (non-residential)
- Facility size based on largest system (Not cumulative)  
Single circuit=components & piping that share refrigerant
  - Large (>2,000 lbs) Medium (200-1,999 lbs) Small (50-199 lbs)
- Do NOT register A/C units with ARB if used exclusively for comfort cooling (SCAQMD 1415 only)

## REQUIRED SERVICE PRACTICES (SERVICE TECHNICIANS)

- All appliances using high-GWP potential refrigerants

# KEY REQUIREMENTS

- Beginning January 1, 2011, all RMP facilities must:
  - Conduct periodic leak inspections
  - Repair leaks within 14 days of detection
  - Follow required service practices
- Proper refrigerant sale, use and disposal
- Facilities register, report, and submit fees to ARB – phased in beginning 2012



# REQUIRED SERVICE PRACTICES (RMP)

- Applies to all high-GWP appliances
- Complements existing federal rules
  - Leak repair by a U.S. EPA certified technician
  - No intentional venting
  - Proper recovery of refrigerant



# RMP REQUIRED SERVICE PRACTICES (cont.)

- Attempt recovery before opening to atmosphere
- Add refrigerant designed for system
- Don't intentionally disrupt circuits resulting in a discharge
- Do NOT add refrigerant to systems with known leaks
- Evacuate refrigerant from non-refillable cylinders to vacuum of 15" mercury (29.9 atmospheric)

# RMP COST AND SAVINGS

<b>Cost or Savings</b>	<b>Facilities with Medium Systems</b>	<b>Facilities with Large Systems</b>
Annual Fee	\$170	\$370
Annual reporting, recordkeeping	\$422	\$488
Quarterly inspection (medium) or Automatic Leak Detection (ALD) (large)	\$1,500	\$300
ALD capitalization + operating cost	\$0	\$3,270
Earlier leak repair costs	\$677	\$984
Total gross cost	\$2,769	\$5,412
Refrig savings @ \$11/lb. refrig	\$2,740	\$14,130
<b>Total Net Annual Cost</b>	<b>\$29</b>	<b>(\$8,718)</b>



# **FACILITY REQUIREMENTS**

# PHASE-IN SCHEDULE

2011

- All facilities conduct periodic leak checks, leak repair and keep records onsite
- Follow Required Service Practices

2012

- Large facilities ( $\geq 2000$  lbs.) register, report and pay \$370 fee\*
- Distributors, wholesalers, reclaimers report

2014

- Medium facilities (200-1,999 lbs.) register, report and pay \$170 fee\*

2016

- Small facilities (50-199 lbs.) register

\*Only one fee amount based on largest system at registered facility 15

# FEE EXEMPTION

- Registration Fees waived if all of the following are met:
- No ODS refrigerant (e.g., R-22)
- Average HFC full charge equal to or less than 1.25 lbs. refrigerant per 1000 Btu per hour total evaporator cooling load (= GreenChill Gold)
- Annual leak rate 10% or less (Gold, > ARB, > Platinum)

# MEDIUM FACILITIES

- Registration, annual reports and fee due March 1, 2014
- Annual report covers Jan. 1-Dec. 31, 2013
- Ensure complete service records for all services
- R3 tool available now for recordkeeping

# RECORDKEEPING

- Facility owners responsible for all records!
- Keep records on-site for 5 years
- Records include:
  - Leak checks
  - Repairs
  - All other service records (I.e., refrigerant added)
  - Calculations/assumptions to determine charge
  - Purchase invoices
  - Refrigerant shipped for reclamation/destruction
- Indicate dates, type of service, amount of refrigerant
- Retrofit and Retirement Plans, and Annual Report

# LEAK DETECTION & MONITORING

## REQUIRED LEAK INSPECTIONS

- Large ( $\geq 2,000$  lbs.): Continuous ALD – Annual calibrate
- Medium ( $\geq 200$  to 1,999 lbs.):
  - Quarterly, unless ALD installed
- Small ( $> 50$  to 199 lbs.):
  - Annual, unless ALD installed
- If 5 lbs. of refrigerant added, or 1% of total charge (whichever is larger) to system



# LEAK REPAIR

## WHO IS QUALIFIED TO REPAIR A LEAK?

Must be U.S. EPA certified and one of the following:

1. C-38 or C-20 licensed if system is also used for A/C, or be employed by C-38 or C-20 contractor

or

2. Facility owner, operator, or facility employee with wages as sole compensation

# LEAK REPAIR

## TIMELINES

- Repair leaks within 14 days of detection
- Written request required for extensions
  - 45-day extension if parts or certified technician unavailable



# LEAK REPAIR

## VERIFICATION TESTING

- Initial Verification Test (conduct under pressure)
- Follow-up Verification Test
  - Conduct test during normal operating conditions
  - Must be done within 30 days



# COMPLIANCE REVIEW

- Determine applicability
- Inspect systems and monitor for leaks
- Repair leaks
- Verify repairs
- Keep records on site
- Register and report to ARB



# **REFRIGERANT REGISTRATION AND REPORTING SYSTEM (R3) DATABASE TOOL**

# R3 – USERS

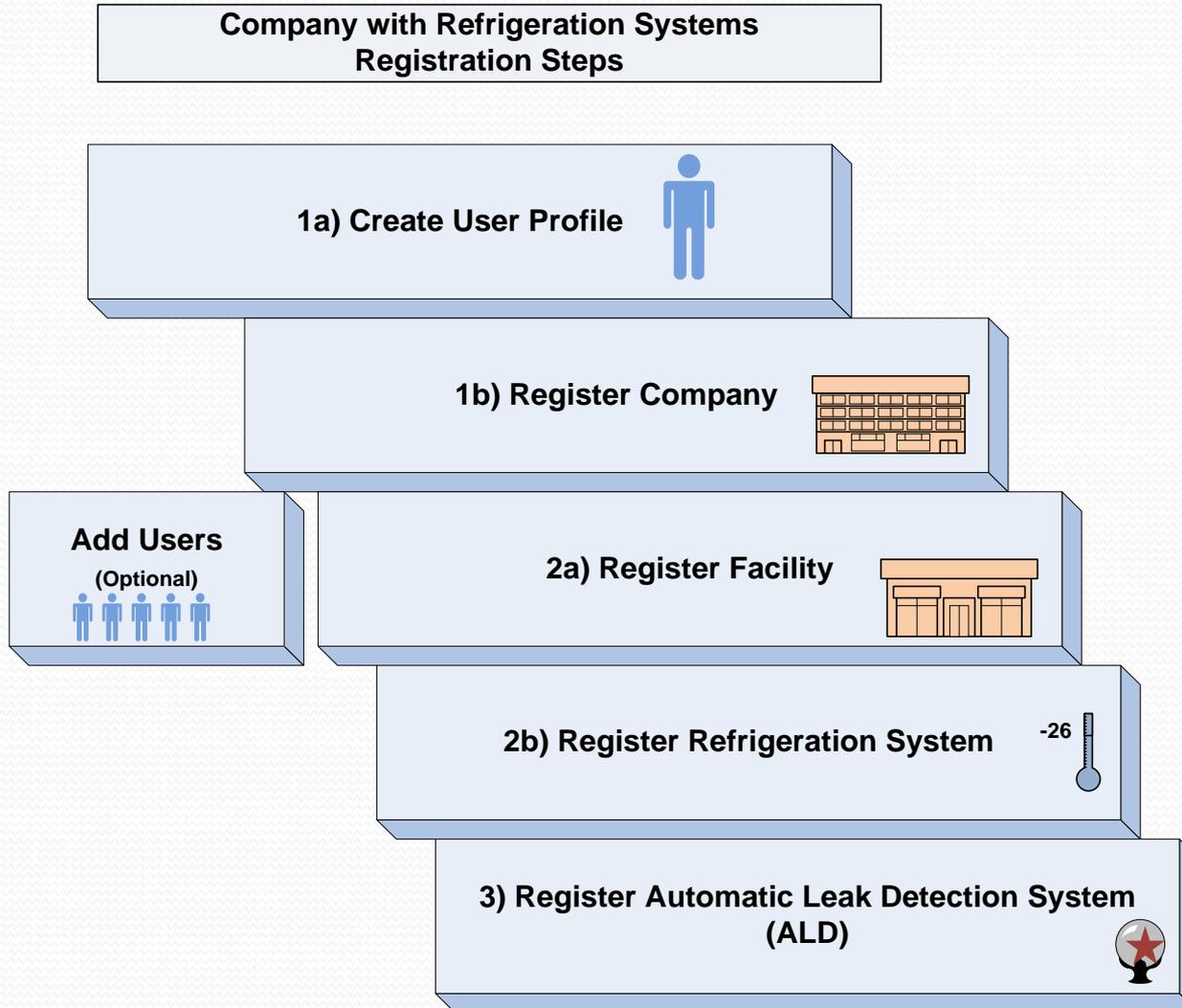
- Companies and facilities with refrigeration systems
- Refrigerant distributors and wholesalers
- Refrigerant reclaimers
- ARB RMP program staff
- ARB Administrative Services Division for payments
- Inspectors – ARB and District
- Public – limited to generalized reports

# R3 – Basic Functions

- Registration
- Recording service records
- Compiling and submitting Annual Reports
- Creating invoices and submitting fees
- Compliance / Enforcement Inspections
- Summary reports

# R3 – USER ROLES TASK FLOW

## COMPANY REGISTRATION



# R3 – Overview

The screenshot shows the California Air Resources Board website. The main heading is "Refrigerant Management Program Regulation for Non-Residential Refrigeration Systems". Under the "What's New?" section, there is a link for "Register your Medium Refrigeration Facilities" and a link for "Refrigerant Registration and Reporting tool (R3)". A red arrow points to the R3 link. The left sidebar contains navigation menus for "UP LINKS", "PROGRAM LINKS", and "RESOURCES".

California Environmental Protection Agency  
**Air Resources Board**

Home | Reducing Air Pollution | Air Quality | Business Assistance | Laws & Regulations | Health

Friday, May 17, 2013

**UP LINKS**

- Reducing Air Pollution - ARB Programs
  - Climate Change
    - Economic Sectors Portal
    - Stationary Equipment Refrigerant Management Program (RMP)**

**PROGRAM LINKS**

- Background
- RMP Rule
- What's New?
  - Reporting Requirements
- Who is Affected?
  - Businesses with Refrigeration Systems
  - Service Technicians and Contractors
  - Refrigerant Distributors and Wholesalers
  - Refrigerant Reclaimers
  - Required Service Practices
  - Prohibitions
- Refrigerants Affected
- Exemptions
- FAQ and Other Documents
- Case Studies
- Reference Documents
- Refrigerant Registration and Reporting System (R3)
  - R3 Tool
  - R3 FAQ
  - R3 User Manual

**RESOURCES**

- Contact Us
- Join the RefTrack Email List
- RSS / Newsfeed

## Refrigerant Management Program Regulation for Non-Residential Refrigeration Systems

### What's New?

**Register your Medium Refrigeration Facilities** The registration and reporting deadline for facilities whose largest refrigeration system is a medium system (200 - 1,999 lbs. refrigerant charge) is March 1, 2014. The R3 tool may be used now to enter the registration information for your facility and begin entering leak inspection, leak repair, and maintenance information during the year 2013 which will be needed for the March 1, 2014 Annual Report. Entering the information now will significantly reduce your workload when submitting the Annual Report and paying the Annual Implementation Fee. The R3 tool is available at: [www.arb.ca.gov/rmp-r3](http://www.arb.ca.gov/rmp-r3).

If you have a large facility with a system with 2,000 pounds of refrigerant or more you must continue to file your Annual Report and pay the Annual Implementation Fee by March 1 of each year. Refrigerant distributors, wholesalers, and reclaimers must also continue to file their Annual Reports by March 1 of each year.

The Greenchill Partnership will be conducting a webinar on May 23, 2013. Additional details and links will be posted soon. For additional information about the Greenchill Partnership, please go to the Greenchill web site at the U.S.EPA.



**Refrigerant Registration and Reporting tool (R3)**



The Refrigerant Management Program (RMP) regulation requires [facilities with refrigeration systems](#) with more than 50 pounds of high-GWP refrigerant to conduct periodic leak inspections, promptly repair leaks, and keep service records on site. These facilities should register and submit annual reports using the [R3 tool](#).

The regulation also affects any person who [installs](#), [services](#), or [disposes of](#) any appliance using a high-GWP refrigerant; as well as refrigerant [wholesalers](#), [distributors](#), and [reclaimers](#). These facilities are also subject to registration and reporting requirements. Facilities whose systems use only ammonia or carbon dioxide as refrigerants are not subject to the rule.

Please click the buttons below for complete details on all the requirements.

Businesses with Refrigeration Systems	Technicians Contractors	Refrigerant Distributors Wholesalers	Refrigerant Reclaimers
---------------------------------------	-------------------------	--------------------------------------	------------------------

Your system capacity can be determined by checking the equipment nameplate, reviewing the service records, contacting your service provider or manufacturer, or using a [refrigerant charge calculator](#) to calculate the amount of refrigerant in the system from the size of components of the system.

**Join the Refrigerant Management Program email list for updates.**

For questions or to provide feedback on the rule please email the [Refrigerant Management Program Staff](#) or call us at (916) 324-2517

# R3 – Overview



California Environmental Protection Agency  
**Air Resources Board**

ARB RMP Home Page



[R3 Home](#) | [Reports & Forms](#) | [Contact](#) | [FAQ](#) | [Survey](#) | [Test Your XML](#) | [Help](#)

## Welcome to Refrigerant Registration and Reporting System (R3)

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 ARB's Refrigerant Management Program (RMP). In addition, the R3 offers the public a means to view select preformatted reports of refrigerant emissions. The R3 can be conveniently accessed on any computer with an internet connection.

The RMP is California's regulation for stationary, non-residential 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.

At the top of this page are links to the general ARB home web page and the home page of the RMP. Below that, on the red tab bar are links to preformatted reports and forms, important contacts for the RMP, and answers to frequently asked questions.

### LOGIN

USERNAME :

PASSWORD :   
(case-sensitive)

[Can't Access my Account?](#)

Companies with facilities with refrigeration systems, distributors, wholesalers, and reclaimers must first setup a user account and company profile in order to use R3.

[Sign Up for New Registration](#)

### 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 red bar above. For contacts about the program select the Contact tab on the red bar or one of the links below. Select the FAQ tab on the red bar for general information.

**First Time Company Users:** In order to use R3 you must first setup a user account. 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.

**First Time ARB and AIR District Users:** ARB and Air District users should contact their program administrator to setup an account login.

### Contact Information

For general R3 questions, Send an email to [reftrackinfo@arb.ca.gov](mailto:reftrackinfo@arb.ca.gov), Phone Number: 916-324-2517

Program Web page: <http://www.arb.ca.gov/stoprefrigerantleaks>  
See the [Regulation Document](#)

[Back to Top](#) | [All ARB Contacts](#) | [A-Z Index](#)

# R3 – New company registration

California Environmental Protection Agency  
**Air Resources Board**

ARB RMP Home Page

CA.GOV

R3 Home Reports & Forms Contact FAQ Survey Test Your XML Help

**New Registration- Registrant Identification**

Registant Identification Company Registration Registration Confirmation Registration Complete

Help for this Page

Type Of Ownership : \* -- Choose your ownership type -- ?

EIN Number : \*  ? Next >>

"Format for Federal Tax ID (FEIN or EIN) is: 123456789"  
( Do NOT use a social security number. Contact ARB if you do not have a tax number. )

# R3 – Home page

{Webinar2012 Company}

## Welcome "Ken Bowers" to Refrigerant Management Program

### Quick Links

- [Manage Users](#)
- [Manage Facility](#)
- [File Annual Report](#)
- [Make Payments](#)
- [Reports](#)

Welcome to the Refrigerant Registration and Reporting System (R3). You are logged in as a **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	Refrigeration Systems	ALD	Service Record	Annual Report	Payment	Inspection
1.	<a href="#">Webinar2012 Facility 1</a>	1	1	2	Filed	Pending	0
2.	<a href="#">Webinar2012 Facility 2</a>	2	1	7	Filed	Pending	0
3.	<a href="#">Webinar2012 Facility 3</a>	1	0	0	Pending	Unpaid	0

# R3 – Manage users

Help for this Page

Search:

 Search

[Reset Search](#)

## User Listing

1 Record(s) Found

<input type="checkbox"/>	User ID	First Name	Last Name	Role Type	Status	Phone
<input type="checkbox"/>	<a href="#">kbwebinar2012</a>	Ken	Bowers	Company Admin		9163231510

« Previous

Next »

Add User

Delete

Activate

Deactivate

# R3 – Facility management

Help for this Page

Search by Facility Name:

[Advanced Search](#)

[Reset Search](#)

## Facility Listing

3 Record(s) Found

<input type="checkbox"/>	Facility Name	Address	City	Refrigeration Sys	ALD	Status
<input type="checkbox"/>	<a href="#">Webinar2012 Facility 1</a>	3456 Street Address,	Sacramento	1 <a href="#">(Add)</a>	1 <a href="#">(Add)</a>	
<input type="checkbox"/>	<a href="#">Webinar2012 Facility 2</a>	5566 Street Address,	Sacramento	2 <a href="#">(Add)</a>	1 <a href="#">(Add)</a>	
<input type="checkbox"/>	<a href="#">Webinar2012 Facility 3</a>	3456 Street Address,	Sacramento	1 <a href="#">(Add)</a>	0 <a href="#">(Add)</a>	

« Previous

Next »

# R3 – New facility data entry

## New Facility Details

Company Name : \*

Facility Name : \*

Start Date of Operation :  

## Facility Contact Person Information

Facility contact person is same as company contact person.

Salutation : \*

First Name : \*

Last Name : \*

Position :

Phone : \*  -   
(Format XXXXXXXXXXX)

Email : \*

## Mailing Address Information

Facility mailing address is same as company mailing address.

Street Address 1 : \*

Street Address 2 :

City : \*

State : \*

Zip : \*

### Location Address Information

Facility Location address is same as facility mailing address.

Street Address 1 : \*

Street Address 2 :

City : \*

State : \* CA

Zip : \*

Who is responsible for payment?  Company  Facility

### Billing Information

Facility Billing address is same as facility mailing address.

Street Address 1 : \*

Street Address 2 :

City : \*

State : \* CA

Zip : \*

### Billing Contact Person Information

Billing contact person is same as facility contact person.

Salutation : \* Mr

First Name : \*

Last Name : \*

Position :

Phone : \*  -

(Format XXXXXXXXXXX)

Email : \*

Business Codes (Please click Browse button to select your company NAICS and SIC codes)

NAICS Code : \*

SIC Code : \*

# R3 – Facility management

Facility Information

Refrigeration System

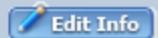
ALD System

Leak insp. & Service

File Annual Report

Annual Fee Payment

## Edit Facility Details

 Edit Info

Company Name : \*

Facility Name : \*

Air District :

Type of ownership :

Start Date of Operation :

Contact Person Information

# R3 – Refrigeration systems

Facility Information

Refrigeration System

ALD System

Leak insp. & Service

File Annual Report

Annual Fee Payment

Search:

Q Search

## Refrigeration Systems

1 Record(s) Found

<input type="checkbox"/>	Refrigeration ID	Operation Status	Manufacturer	Full charge Amt	Installation Date	Temperature Class
<input type="checkbox"/>	<a href="#">Facility 3 Ayatem 1</a>	Normal Operation	Cimco Lewis	6588.00	03/07/2012	Low

« Previous

Next »

Add New

Delete

# R3 – Add refrigeration system

**Add New Refrigeration System**

Refrigeration System ID : \*  ?

Installation Date : \*  

Model Year : \*  ▼

Manufacturer : \*  ▼

Model or Description : \*  ?

Equipment Type : \*  ▼

Serial Number : \*  ?

Location - Description : \*

Attach floor plan :

Supported files to upload " .jpg, .jpeg, .png, .gif, .pdf, .doc, .xls, .docx, .xlsx " ?

Temperature Class : \*  ▼ ?

Operational :  ▼ ?

Refrigerant Full Charge Amount : \*  pounds ?

Refrigerant Type : \*  ▼

Means By Which Charge :  ▼  
Amount Determined

# R3 – Add Leak detection system (ALD)

Help for this Page

### Add New Leak Detection Equipment(If Applicable)

ALD System ID : \*

Installation Date : \*  

System Type : \* Please Select...

Detection Limit :

Alarm Set Point :

Concentration Monitor Type : Please Select...

Concentration Monitor Manufacturer : Please Select...

Number of Sensors :

Sensor Type : Please Select...

Sensor Manufacturer :

Location of Sensors/Inlets :

Refrigeration System : \* Facility 3 Ayatem 1

Save & Submit   Save & Add more   Cancel

# R3 – Add service records

[Facility Information](#)

[Refrigeration System](#)

[ALD System](#)

[Leak insp. & Service](#)

[File Annual Report](#)

[Annual Fee Payment](#)

## Refrigeration System Servicing

0 Record(s) Found

<input type="checkbox"/>	Service Date	Facility Name	Refrigeration ID	Refrigeration Type	Leaks Detected
--------------------------	--------------	---------------	------------------	--------------------	----------------

--- No Record Found ---

« Previous

Next »

Add New

Delete

## Leak Detection System Servicing

0 Record(s) Found

<input type="checkbox"/>	Service Date	Facility Name	ALD system ID	Service Type
--------------------------	--------------	---------------	---------------	--------------

--- No Record Found ---

« Previous

Next »

Add New

Delete

# R3 – Add service records

Help for this Page

## Choose System type for Servicing

Facility Name : \*

System Type : \*

Refrigeration System : \*  ?

Date of Service : \*

Type of service : \*  ?

Leaks detected : \*  YES  NO

Added refrigerant amount :  pounds

Removed refrigerant amount :  pounds

Net refrigerant amount : \*  pounds ?

Leak detection method : \*

Purpose of added or removed charge : \*

Extra time for retrofit/retirement :  Days  
plan needed

Technician Name : \*  ?

Technician certificate number : \*  Do not enter Social Security Number. Please See ? for assistance

# R3 – File Annual Report

[Facility Information](#)

[Refrigeration System](#)

[ALD System](#)

[Leak insp. & Service](#)

[File Annual Report](#)

[Annual Fee Payment](#)

[Help for this Page](#)

## Annual Report Listing For "Webinar2012 Facility 3"

Year	Facility Name	Date of Filing	Status	Action
<a href="#">2012</a>	Webinar2012 Facility 3		Pending	

# R3 – Submit Annual Report

## File Reports For "Webinar2012 Facility 3"

Year Of Filing :

Did you own this facility on Jan 01 of Year of filing  Yes  No

Use the following links to be sure the data being submitted is correct. A check in each check box is your certification that it is correct.

- [Verify Company Information](#)
- [Verify Facility Information](#)
- [Verify Refrigeration System Information](#)
- [Verify Automatic Leak Detection System Information \(if applicable\)](#)
- [Verify Servicing & Leak Repair Information](#)

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

### Refrigerant Purchase and Use Information ?

Type	Total Purchased (lbs.)*	Total Charged (lbs.)* - New refrigerant added to refrigeration systems	Total Recovered (lbs.)* - Removed and not returned to refrigeration systems	Total Stored (lbs.)* In inventory, not in refrigeration systems	Total Shipped (lbs.) for Reclamation or Destruction*	Reason	Delete
R-22 - HCFC-22	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>		

Add Rows: [±](#)

Comment :

Type	Total Purchased (lbs.)	Total Charged (lbs.)	Total Recovered (lbs.)	Total Stored (lbs.)	Total Shipped (lbs.) for Reclamation or Destruction
R-22	250.00	150.00	0.00	0.00	250.00

### Confidentiality Statement

#### Important Notice: Public Disclosure of Submitted Information

All information provided to ARB will be part of a public record and subject to public disclosure unless the person submitting the information asserts a claim of confidentiality by selecting "Yes" below and providing the necessary descriptions of the data and basis for its confidentiality. By selecting "Yes," you are asserting that your submission contains information that is trade secret or that it otherwise contains information that is not public information under California law. Selecting "Yes" does not prevent ARB from releasing some of the information that you are submitting without further notice to you; even with your claim of confidentiality, ARB will release emissions data (which are public under

Do you claim any of this information is confidential under California law?  Yes  No

### Certification of the Submittal

#### Important Notice: Certification of Submitted Information

By submitting my electronic signature via the Air Resources Board's Refrigerant Management Program reporting tool, I hereby certify that this report has been prepared in accordance with the sections 95380-95398, 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 ink, 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.

I accept Terms and Conditions.

# R3 – Annual fee payment

[Facility Information](#)

[Refrigeration System](#)

[ALD System](#)

[Leak insp. & Service](#)

[File Annual Report](#)

[Annual Fee Payment](#)

Click on the year for which you want to make a payment

Help for this Page

## Annual Fee Payment For "WEB001-003(Webinar2012 Facility 3)"

Year	Invoice No.	Annual Report	Responsibility	Payment Date	Status	Action
<a href="#">2012</a>	--	No	Company	--	Pending	<a href="#">Make Payment</a>

# R3 – XML batch data upload

[XML Process](#)[Latest XSD](#)[Latest Sample XML](#)[Help for this Page](#)

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.

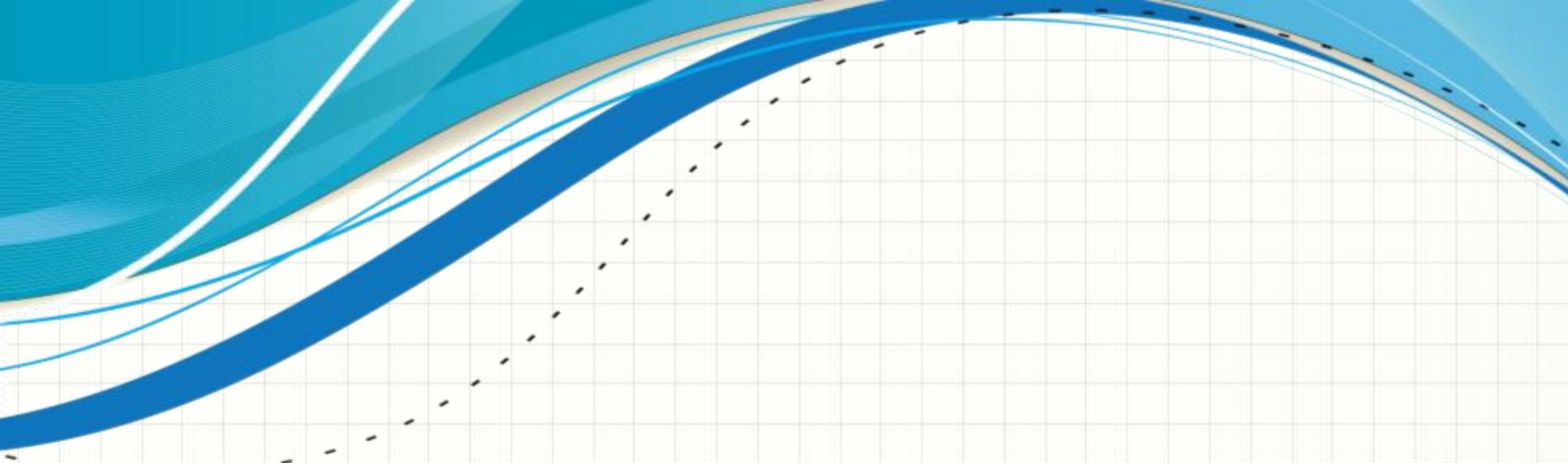
## New Batch Upload - Service Record

Upload Title:

Upload File:

# RMP, R3 – Resources & Contacts

- Refrigerant Management Program (RMP) web page
  - [www.arb.ca.gov/stoprefrigerantleaks](http://www.arb.ca.gov/stoprefrigerantleaks)
- R3
  - [www.arb.ca.gov/rmp-r3](http://www.arb.ca.gov/rmp-r3)
- RMP help
  - (916) 324-2517
  - [reftrackinfo@arb.ca.gov](mailto:reftrackinfo@arb.ca.gov)



# **QUESTIONS?**

**Glenn Gallagher**

**California Air Resources Board**

**(916) 327-8041**

**[ggallagh@arb.ca.gov](mailto:ggallagh@arb.ca.gov)**