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The *RETA Breeze* is the official publication of the Refrigerating Engineers & Technicians Association (RETA). RETA is an international not-for-profit association whose mission is to enhance the professional development of industrial refrigeration operating and technical engineers.

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Uh, Oh... Here Comes More Regulations That We Need to Worry About. part 3

page 21

INSIDE THIS ISSUE

Message from the President	4	2024 Awards	18
From the Desk of the Executive Director.....	6	2024 Corporate Anniversary Awards.....	19
Education Corner	8	Herb Rosen Longevity Awards	20
National Conference Exhibitors	9	Uh, Oh... Here Comes More Regulations That We Need to Worry About. part 3.....	21
Fort Wayne Chapter News	10	RETA Thirty Under Thirty	24
2024 National Conference Sponsors	11	Congratulations to Our New RAI.....	27
Conference Corner		RETA Testing Corner No. 45	
2024 National Conference Wrap Up.....	12	RETA Exams Promote Industry Health and Safety	28
A New Year's Resolution for Mechanical Insulation.....	14	Certification Honor Roll.....	30
2024/2025 RETA Officers & Board of Directors Announced.....	16		



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FROM THE DESK OF THE PRESIDENT

Hello all and I hope everyone is well! As I look back and reflect on our Conference in Grapevine, TX, it shocks me how quickly time flies by. It has already been three weeks since and the holidays are knocking on our door.

That reflection of time also makes me think about how privileged I am to have been elected the President of this great organization. It does not seem that long ago I was working swing shift in a large grocery warehouse as a material handling PM tech when my manager at the time invited me to attend a local Chapter RETA IR2 class being held in our facility's training room. I knew nothing about refrigeration, but I was very excited about learning more about this given opportunity. Now here I am today the International President of that organization.

RETA has given me so much! Opportunities, education and lifelong friendships. My involvement in RETA has always been my way of hopefully, giving back. Giving back to the organization and those who have been there to mentor me. My goal was and continues to be, to mentor those younger folks who would like to take advantage of what the refrigeration world has to offer.

Now with RSES and RETA being under one umbrella, the opportunities for young people in our industry are endless. In its initial year, the 30 under 30 program was a huge success. Seeing all the young folks who were awarded the title of 30 under 30 during conference brought me a great sense of comfort knowing there are people out there who will lead this organization for years to come.

With all that said, here is my message: If you are a young person and imagine seeing yourself standing on that stage receiving the recognition of being one of the 30 under 30, it is possible.

If you are an instructor, manager or leader in our industry, share your knowledge, be a

mentor and help the next generation become the operator, technician, salesperson, engineer or instructor they strive to be. That is what makes RETA and RSES the great organization it is today.

Get involved with your local Chapter, attend meetings and participate. Every RETA and RSES Chapter out there needs your help and involvement. What you receive in return is far greater than anything your will ever put into it.

If there is not a local Chapter in your area, take advantage of the Virtual Chapter. Dan Denton at RETA HQ and Lori Schiavo at RSES HQ organize these Virtual Chapter meetings and training sessions. Give them a call and they will point you in the right direction.

Get involved with a committee. There are several committees to choose from and they all need your help. Being on a committee does not require you to have any specific level of knowledge or skill, rather the dedication to be a volunteer and help. Every committee volunteer I have ever spoke to says the same thing, "I have learned more being on a committee that I have ever contributed to the committee". I challenge any committee member to deny that comment.

I hope my message helps get you involved or makes you feel good about continuing to be involved in our organization and industry. With that, I wish everyone a safe, healthy and happy holiday season.

Dave Gulczynski
RETA National
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As a non-profit association, RETA is governed by a board elected by its members. RETA was pleased to announce the 2024/2025 Officers and Board of Directors at the Annual Business Meeting, held at the National Conference in Grapevine, Texas.

RETA board members serve a 3-year term and volunteer their time and energy to directly impact our community and association. The 16-member board and 5-member executive committee aim for both diversity of perspective and depth of expertise. There is a strength with our staggered terms and the Board is always changing. RETA Executive Director, Jim Barron congratulates and welcomes all new members to the board. We thank our outgoing members and welcome new members, as well as extend a heartfelt thanks to Directors past, present, and future for their contributions and dedication to RETA's mission.

FROM THE DESK OF THE EXECUTIVE DIRECTOR

I'm sitting here at Thanksgiving reflecting on the 2024 RETA annual Conference and I realize how thankful I am of all our RETA members. RETA could not be what it is without all of you. This is your association.

Just a few short weeks ago we held our 115th Annual National Conference with a record breaking attendance of over 1260 attendees. Our goal was to hold an event that was informative and practical; providing opportunities to network, learn and collaborate. RETA 2024 offered attendees the opportunity to explore the latest products, services, and technologies in industrial refrigeration. Our mission to promote excellence, education, training, and professional certification was accomplished ten-fold. Your attendance, participation, and energy made the Conference a true success as we continue to move RETA into the future as the premier Association for refrigeration professionals.

The Conference Committee members volunteered countless hours designing an educational program that would yield the highest benefit to our members. When you attend a Conference, please take a moment to thank the Conference Committee members, volunteers, and RETA staff for their time and dedication to providing a high-quality and memorable experience for all.

As fantastic as our Conference was there is always room for improvement. If you have ideas on how to enhance the Conference, please let us know. A post-Conference survey was sent to each attendee and we hope you took the time to complete it, so we can continue to grow and get better. If you didn't receive a survey please contact RETA HQ and we can send one your way.

Plans for our 116th National Conference are already moving full steam ahead. We hope you will start making plans to join us in Spokane, Washington October 20-24, 2025. You will once again meet industry partners, share experiences, meet old friends, and extend your network by meeting new ones as well. We can promise that you will not be disappointed! Updates and registration information will be posted on the RETA website.

As we approach the beginning of another new year, I'm looking forward to what 2025 will have in store for RETA including welcoming RSES into our family. We truly believe we will be better together. We will have more offerings in industrial refrigeration, commercial and HVAC/R to our membership as we move forward.

As the year ends, take some time to sit back and decide what your professional resolutions will be. Remember to celebrate the small accomplishments at work, focus on the items in your control, and don't sweat the small stuff. Make it a great 2025!

God Bless and Merry Christmas,

Jim Barron



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EDUCATION CORNER

To all members, from the Education Coordinator.

First, I want to thank everyone who was able to attend this year's National Conference, you made the week a great success.

Next a big thanks to all those that took the time to present, without you we wouldn't have a conference.

Then I wanted to take a moment to thank all those that take part in the Committees, the hard work done by the Committee's is what makes RETA the great organization it is.

This leads me to the main topic of this article Education. We had a great attendance at the Education Committee meeting. I really appreciate all those that have stepped up to work on our materials.

The following items are to keep you all up to date on everything the Education committee has worked on in the last year, along with ongoing and upcoming work.

Basic Electrical I Book review, led by Greg Jourdan was completed this year, Thanks Greg!

Energy Efficiency Book review, led by Tim Barbour was completed this year, Thanks Tim!

The long-awaited new Compliance Book led by Brian Chapin will be out for purchase right after the first of the year. Brian will be looking at the latest changes from EPA before we print but once again this will be out right after the first of the year and I want to thank Brian Chapin for leading that effort. This book is going to be a great add to our offerings, so be looking for that. Thanks Brian!

Jim Price Sr and his team are working hard on the rewrite of the CO2 Book and with some added members from RSES I believe we will have a great CO2 book soon, Thanks Jim!

Then the Compliance Guidelines Book is currently being reviewed by Mark Spillman and his team. Thanks Mark!

We will be starting the IR I book review right after the first of the year and hope to have it done by the end of the first quarter. Brandon Gillott has stepped up to lead that group, Thanks Brandon!

These are the main topics, with a lot more to do in 2025! If you wish to be involved or have been missed, please reach out to me and we will get you in the game!

In closing I want to thank those that have sent in information regarding errors and or issues with our material, printed, or in the LMS, and to ask all members to please do the same. Many times, we would never know we have issues without your help. It takes communication to make us the best we can be, and all input is welcome.

Have a Great Holiday Season and I look forward to getting the opportunity to work with you all in 2025!

Blessings!

Scott Melton

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FORT WAYNE CHAPTER NEWS

The Fort Wayne Chapter recently conducted their officer elections. Congratulations to the new Fort Wayne Officers!

Gordon Rascoe, CIRO, CRST, RAI continues as President. Gordon has been a steading force for the chapter and brought consistency and prosperity during his time as Fort Wayne Chapter president.

Vern Sanderson CIRO, CRST, RAI was elected as executive Vice President. Vern is a former RETA National president and current international publications committee chairman.

Cody Hegerfeld continues as the second vice president position. He has and continues to donate dozens of hours to the success of the Fort Wayne Chapter. Thank you for continuing to serve our chapter.

Matt Targgart is once again treasurer and has performed admirably in the last several years. Matt, through his stewardship, has assured the chapter continues to be financially viable, now and into the future.

Sarah Selzer CARO has been elected secretary. She has obtained her CARO over a decade ago. She is a second generation refrigeration professional and the proud mother of boys, both members of the 21st century club.

Kyle Hall was elected sergeant of arms and will be in charge of security at chapter meetings. He is charged with keeping Gordy and Vern in line. Good luck to Kyle.

In other news, Sarah Selzer was named as one of Refrigeration's 30 under 30. The members of the chapter are certainly proud of the refrigeration professional Sarah has become. Most remember when she first started going to RETA chapter meeting with her father as a teenager.

The technical presentation for the month was "Fine Tuning the People Machine". This was a presentation on acquiring and maintaining our most important refrigeration asset, people. An article by the speaker and will be published soon.

Editors note: If you have chapter news to report to the membership, please forward it to the publications committee chairperson. Vern.Sanderson@Schwans.com

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2024 NATIONAL CONFERENCE WRAP UP





THE RETA 2024 NATIONAL CONFERENCE was a resounding success! With over 1,260 attendees, 64 sponsors, and 120+ exhibitors, the conference was a hub for networking, learning, and collaboration in the refrigeration industry. Congratulations to the RETA team and everyone involved!

Key highlights include:

- A packed schedule of technical sessions, workshops, and hands-on experiences.
- Active support from volunteers, board members, and staff.
- A diverse and expansive exhibit hall showcasing the latest innovations.
- Ongoing efforts to improve the attendee experience through surveys and planning.

Call to Action for 2025:

If you're looking to get involved, RETA offers several ways to contribute to next year's conference. From moderating sessions to speaking and assisting with logistics, your participation can make a significant impact. Call for Abstracts is open, inviting thought leaders in refrigeration to present their

expertise. Topics range from management and compliance to engineering and operations. Abstracts are due by January 24, 2025.

Additionally, you can become involved with RETA 2025 as a volunteer and committee member. Email Stephanie@reta.com for more information.

SAVE THE DATE:

Mark your calendars for the RETA 2025 National Conference on **October 20–24, 2025**, at the Spokane Convention Center in Spokane, Washington.

Visit www.reta.com to view photos from the 2024 conference or to submit your abstract. Contact Stephanie Date at stephanie@reta.com or 541-497-2955 for more details.

Here's to another year of innovation and growth!



A NEW YEAR'S RESOLUTION FOR MECHANICAL INSULATION

*By Ron King, Past President/Consultant,
National Insulation Association*

Do you want to make a New Year's resolution that provides a return on investment? Of course, you do, everyone does. Repeat after me, I resolve to look at mechanical insulation systems differently by ensuring they are designed and installed correctly, not to accept so called value engineered alternatives and to maintain them in a timely and proper manner.

Committing to that simple resolution will provide dividends by optimizing insulation system performance, reducing long term maintenance cost and mitigating the risk of corrosion under insulation. By anyone's method of measurement, which provides an unrivaled return and is a New Year's resolution that can be achieved by simply respecting the value of mechanical insulation systems.

Follow these steps:

Step 1: When designing a mechanical insulation system for new applications or replacement requirements don't assume you know all the answers. Consult with mechanical system engineers, insulation manufacturers and insulation contractors. Explore old and new technologies, understand where failures could occur, check product – systems reference and document your findings and conclusions. Devoting time and focus on the front-end yields rewards later.

Step 2: Select a mechanical insulation contractor who is experienced with below ambient applications. Review every suggested alternative, regardless of the cost or schedule advantages, or disadvantages,



to ensure they do not compromise your design objectives and considerations and most importantly, inspect what you expect before, during and after installation.

Step 3: Continually inspect the finished insulation system for damage of any kind. This can be accomplished by engaging everyone to observe and timely report potential problem areas during walk arounds throughout normal operations and establishing a formal routine inspection program. Sounds expensive, but it is not when you combine the two approaches, especially when you respect the value of identifying problem areas sooner than later.

Step 4: Maintain the insulation system timely and properly. Don't accept excuses to delay corrective actions. It is so easy to take insulation systems for granted and talk yourself into believing that delaying action for a few weeks is acceptable. Well, weeks turn into months and eventually years and then you could be facing some major problems beyond that of the insulation system. The insulation system

failure is normally blamed for the corrosion that has incurred, operational cost increases, underperforming equipment, capital investment required, etc. when in most cases it comes back to taking the insulation systems for granted and delayed or improper insulation system maintenance.

While this may sound like common sense you may, or may not, be surprised about the lack of respect mechanical insulation systems are given throughout the design and operational processes. Designing, installing and maintaining a successful mechanical insulation system, especially for below ambient applications, requires a conscious and continual effort. It is not too late to make and execute the New Year's resolution – you will like the results.

This article is provided by the National Insulation Association (NIA) as a RETA member service. Please visit www.insulation.org for more information related to all aspects of mechanical insulation.



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As a non-profit association, RETA is governed by a board elected by its members. RETA was pleased to announce the 2024/2025 Officers and Board of Directors at the Annual Business Meeting, held at the National Conference in Grapevine, Texas.

RETA board members serve a 3-year term and volunteer their time and energy to directly impact our community and association. The 16-member board and 5-member executive

committee aim for both diversity of perspective and depth of expertise. There is a strength with our staggered terms and the Board is always changing. RETA Executive Director, Jim Barron congratulates and welcomes all new members to the board. We thank our outgoing members and welcome new members, as well as extend a heartfelt thanks to Directors past, present, and future for their contributions and dedication to RETA's mission.

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Ron Fetterley of Applied Process Cooling Corp.



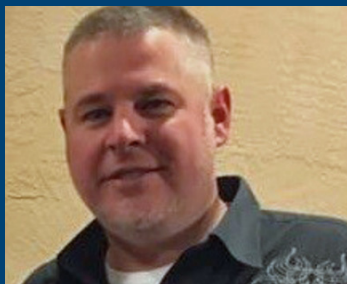
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Mike Missall of Summit Refrigeration Group



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Joe Marchese of Koldcraft Refrigeration Services



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National Conference: Jim Kovarik of Gamma Graphics Services

Education: Don Tragethon, Retired

Publications: Vern Sanderson of Schwan's Company

Marketing: Jodie Rukamp of SCS Engineers

Membership: Jason Daniell of APSM

2024 AWARDS

The following awards were bestowed at the 2024 RETA National Conference. The awards are named in honor of past RETA members who exemplified a specific strength that benefitted RETA membership and our industry through teaching, leadership, or service.

A big congratulations and thank you to all of the Award Recipients. The following were honored for their service to the Association and the Industry.



THE OUTSTANDING CHAPTER PRESIDENT AWARD

The Outstanding Chapter President Award was presented to Jackson Bussanmas of the Iowa Chapter for his dedication, devotion, and support of RETA and the Iowa Chapter.

THE FELIX ANDERSON AWARD

The Felix Anderson Award was presented to Steve Kern of the Madison Chapter and Matt Stachura of the Western New York Chapter for their exemplary contribution to the development, growth and strength of their chapters.

THE GUY R. KING AWARD

The Guy R. King Award for outstanding performance in the education and training of members nationally and locally was presented to Bengie Branham.

THE GLENN W. SMITH AWARD,

The Glenn W. Smith Award, conferred at the Board's discretion, was presented to Ray Burniston for his lifetime achievement, not only in service to RETA, but also to the refrigeration Industry.

THE EARL J. MCMICHAEL AWARD

The Earl J. McMichael Award was presented to the Iowa Chapter for the best growth performance of the previous 12 months.

THE VENEMANN AWARD

The Venemann Award was presented to Jodie Rukamp for her outstanding efforts in advancing the aims and ideal of the Association and for her contribution to the education and inspirational betterment of the Association throughout her career.

THE ELLIOTT R. HALLOWELL AWARD

The Elliott R. Hallowell Award was presented to Anthony Internicola whose record of service, willingness to jump in whenever needed, and passion of sharing his knowledge with others, merited special recognition and reward.

We also presented all new Sponsor/Exhibitor Awards, which were voted on by attendees at the Co

- The Sponsor/Exhibitor Congeniality Award was presented to Kolbi Pipe Marker Co.
- The Best Interactive Booth Design was presented to Keep Supply.
- The Best in Show 10 x 10 booth was presented to SCS Engineers.
- The Best in Show Island was presented to GEA.

2024 CORPORATE ANNIVERSARY AWARDS

RETA's development and growth have been, in large part, due to the support of our corporate memberships. It is important for us to recognize these corporate memberships on their anniversary milestones. It is with great pride that we announce the recipients of this year's anniversary awards.

35
YEARS

Harkins Street Holdings LLC

30
YEARS

FGF Brands, LLC.

The Pictsweet Company - *Bells, TN*

Trident Seafoods - *Anacortes, WA*

Westward Seafoods, Inc.

25
YEARS

Bonita Packing Company

Bozzuto's Inc.

Delicato Family Wines

The Pictsweet Company
- *Santa Maria, CA*

20
YEARS

Brookshire Bros Ltd.

Carlson & Stewart Refrigeration Inc.

National Frozen Foods Corp. - *Moses Lake, WA*

Risk Management Professionals Inc.

San Joaquin Chemicals Inc.

Summit Refrigeration Group

15
YEARS

Ajinomoto Foods North
America - *Portland, OR*

American Incorporated
American Refrigeration
Company Inc.

Butterball, LLC - *Raeford, NC*

Condor Technologies, Inc.

Crowne Cold Storage

CTI Gas Detection

Guentner US LLC

King's Hawaiian Bakery

Mar-Jac Poultry, Inc.
- *Gainesville, GA*

Perry's Ice Cream

Riverside Creamery Kroger

Schrader Mechanical Inc.

Smithfield Foods Inc.
- *Tar Heel, NC*

Tyson Foods, Inc.
- *Warren, MI*

VaCom Technologies

10
YEARS

Albertsons Distribution
Center - *Portland, OR*

BGDC Distribution

Cargill Meat Solutions
- *Springdale, AR*

Cold Storage Group, Inc.

Darigold Inc.
- *Spokane, WA*

DEEM, LLC

Gordon Food Service
- *Wyoming, MI*

Hantemp
Controls

Heatcraft Refrigeration
Products, LLC

Jack R. Gage
Refrigeration, Inc.

McDonough Mechanical
Services Inc.

Peterson Farms Inc.

Raley's - *Sacramento, CA*

Seneca Foods
Corporation
- *Glencoe, MN*

Silver Bay Seafoods

Sysco West Coast
Florida, Inc.

Target

Twin City Foods Inc
- *Pasco, WA*

Vapor Armour

WEG Electric Corp.

5
YEARS

Buitoni Food Company

Cargill - Food
BioIndustrial &
Agriculture

Cargill Kitchen Solutions
- *Big Lake, MN*

Cargill Meat Solutions
- *Mount Crawford, VA*

CIM Industrial, Inc.

Cold Temp Solutions

Ferrero Confections

Gordon Food Service
- *Houston, TX*

Gordon Food Service
- *Shepherdsville, KY*

In N Out Burger

Janssen Refrigeration
Company, Inc.

Kelloggs

Lamb Weston
- *Connell, WA*

National Frozen
Foods Corp.
- *Albany, OR*

Nestle R&D - *Veolia*

Pacific Surimi
- *Newport, OR*

POM Wonderful

Quality Refrigerated
Services

Refrigeration Specialists
Co. NE, LLC

RYDER Systems Inc.

Southern Equipment
Sales Co.

The Coca-Cola Company

The Waldinger
Corporation

Trident Seafoods
Corporation

Trinity Packing Co., Inc.

United States Cold
Storage - *Indiana*

Welch's

HERB ROSEN LONGEVITY AWARD

RETA VALUES THE CONTRIBUTIONS, KNOWLEDGE, AND EXPERIENCE OF LONG-TERM MEMBERS. IN APPRECIATE OF THIS DEDICATION, RETA RECOGNIZES MEMBERS AS THEY REACH MILESTONE ANNIVERSARIES OF MEMBERSHIP.

YEARS OF SERVICE

40
YEARS

Pat A. Bates

35
YEARS

James A. Barron

30
YEARS

Leon J. Breun

Jeffrey L. Johnson

Lonnie W. Hradec

Donald S. Niedermair

25
YEARS

Robert Domm

Steve Heidenreich

Michael R. Schreck

David M. Einolf

Steve Kern

Jeff Semple

Chris L. Flatness

Bill Mummey

Darwin H. Simmons

Larry C. Foust

Lee Pyle

Charles Way



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UH, OH... HERE COMES MORE REGULATIONS THAT WE NEED TO WORRY ABOUT.

PART 3

by: Bill Lape, SCS Engineers

In the last issue of the Breeze, I went over an overview of the changes that the Environmental Protection Agency (EPA) made to 409 CFR Part 68 that went into effect on May 10, 2024. During the next several articles, I want to offer a more detailed history of the regulatory pendulum that we find ourselves riding, provide detailed descriptions of the most recent changes that went into effect, and present some strategies for compliance. This month's article will focus on the history behind the regulations.

If one has been involved with the ammonia refrigeration industry for any length of time, they are generally aware that the Occupational Safety and Health Administration's (OSHA's) Process Safety Management (PSM) standard became effective in Federal Regulations on May 24, 1992 (OSHA 29CFR1910.119, 2024). In addition, the Environmental Protection Agency's (EPA's) Chemical Accident

Prevention Provisions, known colloquially as the Risk Management Program (RMP), became effective in Federal Regulations on June 21, 1999 (EPA 40CFR68, 2024). OSHA's PSM standard has remained unchanged in the 30+ years since. EPA's RMP provisions were modified to a minor extent in 2004. These modifications changed the deadlines for submitting RMP accidents and emergency contact changes and removed the requirement to summarize the Offsite Consequence Analysis (OCA) in the Executive Summary. This removal was due to security concerns after the terrorist attacks on September 11, 2001.

At this time, the two Federal Regulations overlapped significantly. This was intentional based on public comments received when the rules were being considered. Figure 1 shows the overlap between the two regulations as of 2015.

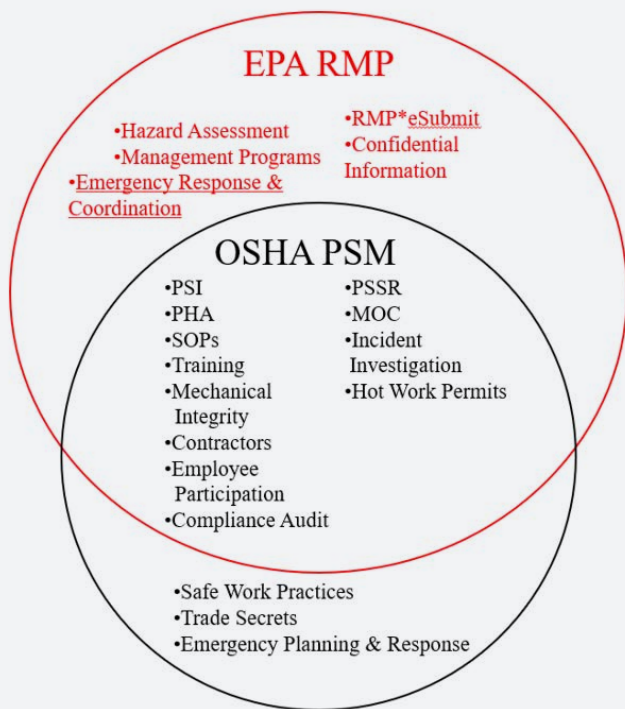


Figure 1: PSM & RMP Regulatory Overlap as of 2015

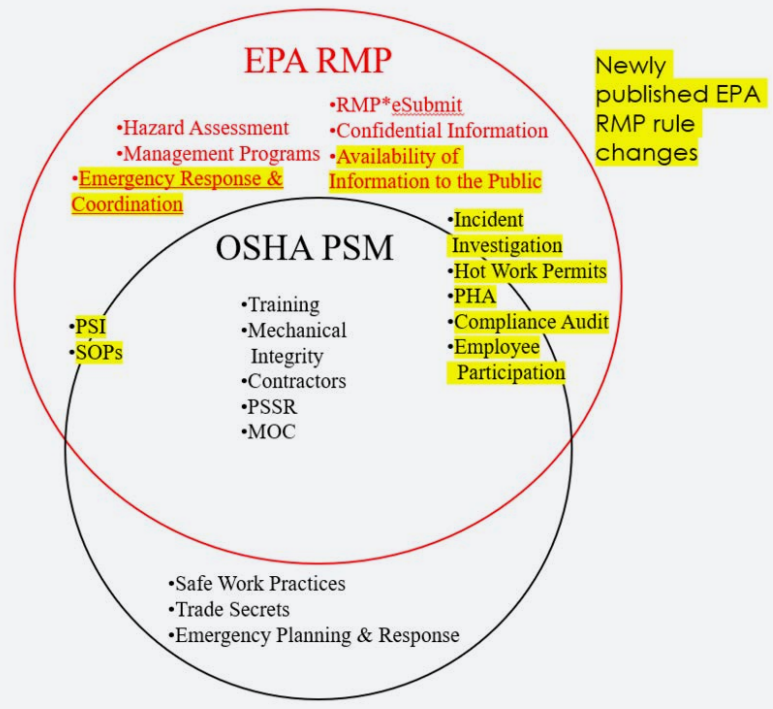


Figure 3: PSM & RMP Regulatory Overlap as of May 2024

On April 17, 2013, in West, TX, a fire broke out at the West Fertilizer Company. Less than 20 minutes after being reported, while local firefighters attempted to fight the blaze, approximately 30 tons of fertilizer grade ammonium nitrate detonated, killing 15 people, twelve of whom were first responders, and injuring more than 260 others. Over 150 offsite buildings, including nearby homes and business were severely damaged. Many were condemned as unreparable.

The U.S. Chemical Safety Board investigated the accident but was unable to identify a cause of the fire. It did, however, highlight gaps in both EPA's and OSHA's regulations governing highly hazardous chemicals, as well as in reporting of such chemicals under the Emergency Planning and Committee Right to Know Act (EPCRA).

The incident in West, TX, led then President Obama to issue Executive Order #13650 (Exec. Order No. 13,650, 2013). In this Executive Order, the President called upon OSHA, EPA, and the Department

of Homeland Security (DHS) to improve coordination and communication. In addition, it called upon these agencies to improve coordination and communication with local first responders. Most importantly, it called upon OSHA and EPA to update the PSM and RMP regulations respectively, and for DHS to update their Chemical Facility Anti-Terrorism Standard (CFATS) rule.

OSHA issued a Request for Information (RFI) to solicit public input on updates under consideration for the PSM standard on December 9, 2013 (OSHA, 2013). Following the public comment period, OSHA conducted a Small Business Review as required by the Occupational Safety and Health (OSH) Act that created OSHA. After this, progress on regulatory changes to PSM stalled for a variety of reasons.

DHS issued a Request for Information (RFI) to solicit public input on updates under consideration for the CFATS rule on August 18, 2014 (DHS, 2014). Following the public comment period, progress on

regulatory changes to CFATS also stalled for a variety of reasons.

EPA issued a Request for Information (RFI) to solicit public input on updates under consideration for the RMP rule on July 31, 2014 (EPA 2014 RFI, 2014). Following the public comment period, draft rules were issued for further comment on March 14, 2016 (EPA 2016 Proposed Rule, 2016). Final rule changes were issued on January 13, 2017 (EPA 2017 Final Rule, 2017).

There were several minor changes to the Prevention Program rules, including establishing deadlines for incident investigations, explicitly requiring that the Process Hazard Analysis (PHA) address industry accidents, and establishing a requirement that supervisors of employees working on the covered process must also be trained to the same standards as the employees themselves.

The rule changes also incorporated some major changes, including a requirement to have compliance audits conducted by an independent third party in the event



Figure 2: Video Stills of West Fertilizer Company Explosion (USCSB, 2016)

that a facility experienced an RMP reportable accident. In addition, a requirement to make information available to the public upon request was included in the January 2017 rule.

Finally, there were several major changes to the Emergency Response Provisions of the RMP rules. The requirement to coordinate with the Local Emergency Planning Committee (LEPC) was expanded to include specific topics to be discussed, along with requirements for documenting the coordination meetings. A requirement was also implemented for any facility subject to the RMP rules to conduct notification exercises annually to ensure that personnel are trained to make the appropriate calls should local response be necessary, or the release exceeds the reporting thresholds established under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and EPCRA. EPA also stated in the rule changes that in order to be considered a “non-responding” facility, both the coordination and notification exercise requirements must be met. For “responding” facilities, the rule changes implemented requirements to conduct tabletop and field response exercise with local first responders within specific time frames, every three years for tabletop exercises and at least every ten years for field exercises.

After the Trump administration took office at the end of January 2017, there were attempts to rescind the December 2017 RMP rules changes under the Congressional Review Act (CRA). This act, which is codified in 5 U.S.C §§801-808 is designed to strengthen Congress’ oversight of Federal agencies. The CRA allows Congress to pass a joint resolution of disapproval, which, if signed by the President, or if Congress successfully overrides a Presidential veto, prevents the rule from going into effect or from continuing to be in effect. Ultimately, these attempts failed. On June 14, 2017 (EPA Delay, 2017), the EPA administration published a rule delaying enforcement of the rule changes indefinitely. Lawsuits were then filed against the EPA, and on December 3, 2018 (EPA Enforcement Renewal, 2018), the original

dates of enforcement were reestablished. EPA then began a new, formal rulemaking process to “correct” many of the changes made in the January 2017 rule.

With the new rulemaking process complete, a “reconsideration” final rule was issued on December 19, 2019 (EPA 2019 Changes, 2019). This “reconsideration” rescinded all of the minor Prevention Program rule changes from January 2017. It removed the third-party audit requirements. It replaced the requirement to make information available to the public upon request with a requirement to hold a public meeting if the facility experienced an RMP Reportable Accident with known offsite consequences. The Emergency Response rule changes from January 2017 remained largely intact except for the removal of the minimum required frequency for field exercises.

With the change in administration at the end of January 2021, the Biden Administration tasked the EPA with reconsidering the “reconsideration.” The EPA held Public “Listening” sessions in 2022 to obtain feedback and direction from public input. Draft rule changes were published on August 31, 2022 and a “reconsideration part 2” final rule was published on March 11, 2024 (EPA 2024 Final Rule, 2024).

With the publication of these “final” rule changes in March 2024, the regulatory landscape is not as clearly defined. Figure 3 shows the overlap between the PSM and RMP regulations as of May 2024.

In the next article, I will dive into the specific changes that went into effect last May.

Please feel free to email me with questions at NH3isB2L@gmail.com.

Bill Lape is Project Director for SCS Engineers. Bill is a Certified Industrial Refrigeration Operator, a Certified Refrigeration Service Technician, and is the current Executive Vice President of the Refrigerating Engineers and Technicians Association.



RETA IS PROUD TO ANNOUNCE THE INDUSTRY PROFESSIONALS RECOGNIZED AS THE 30 UNDER 30 FOR 2024.

These individuals, nominated by their colleagues, stood out among the rest due to their demonstration of leadership and character, commitment to education, refrigeration knowledge and abilities, accomplishments at their company, and contributions within the industry.



Garrett Bowman, CIRO
Maintenance & Engineering
Technician III, Lineage
Operator 1 and 2
PSM/RMP/GDC Program Certificate
OSHA 24-Hour HAZWOPER Certificate



Jack Budmark
Industrial Refrigeration Foreman,
Emcor Mesa Energy
Operator 1 and 2
CO2 Refrigeration Program Certificate



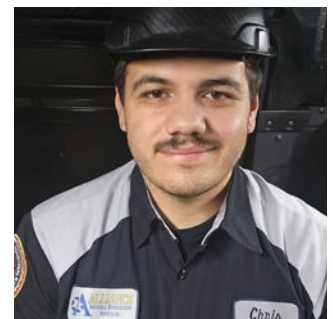
Karla Chavez
Refrigeration Engineer II, Tyson
BS in Mechanical Engineering
Operator 1
UWM - Design of Ammonia Systems
UWM - Relief Design
RETA International Committee Member



Jared Clark, CIRO
Founder & CEO, MySafety LLC
Operator 1 and 2
Renewable Energy Certification (REP)
Certification



Jeremiah Cox, CARO, CIRO
Refrigeration Technician, United States
Cold Storage



Chris Crawley, CARO, CIRO
Lead Service Technician, Alliance
Industrial Refrigeration Services
CO2 Certified Startup Technician



Jordan Cruz, CARO, CIRO

Assistant Chief Engineer,
United States Cold Storage
Operator 1
PSM/RMP/GDC Program Certificate



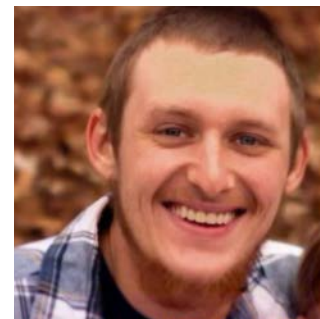
Trevor Day, CARO

IWS Controls Specialist Line 3, Swire
Coca Cola
AAS in Automotive Technology
Operator 1 and 2
Treasure Valley RETA Chapter Board Member



Florend Gashi

Boiler/Refrigeration Lead, Smithfield
Foods
Operator 1
PSM/RMP/GDC Program Certificate



Jason Henderson

Refrigeration Operator,
Country Oven Bakery (Kroger)
AAS in Applied Science
Operator 1 and 2



Jacob Hoogensen, PE

Project Engineer, AC&R Specialists
BS in Mechanical Engineering



Corrine Lawrence, CARO

Refrigeration Engineer,
Fisher Refrigeration
BS in Mechanical Engineering
RETA Certification Committee Member



Kayln Lester

Project Manager, Ice Cold Consulting
BS in Administration/Marketing
Operator 1
PSM/RMP/GDC Program Certificate



Clayton Luedde

Field Services Engineer, JS Compliance
Operator 1
Guideline Training: NDE Visual Inspector Level II
UWM/IRC - Engineering Safety Relief Systems
UWM/IRC - Inventory Calculation Course



Pedro Meza, CIRO, CRST

Service Technician, Previously with
Refrigerated Mechanical Solutions
Student of Electrical Engineering
EPA 608 Universal Technician Certification



Joel Parra, CARO

Service Technician, Mayekawa
Operator 1
C02 Refrigeration Program Certificate



**Michael Patterson, CARO,
CIRO, CRES, CRST**

Refrigeration Operator, Stemlit Growers
ATS in Environmental Systems and
Refrigeration Technology
HVAC/R Basics Certificate
Industrial DDC Controls Certificate



Tim Peveler

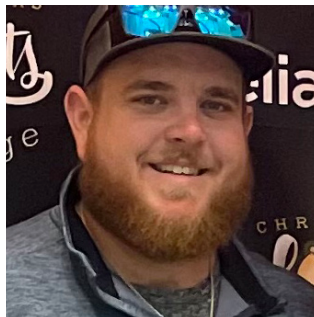
Engineering Manager, Kemper
Northwest
BS in Engineering Physics, Mechanical



Alex Rojas, CARO
Refrigeration Technician, Americold
Logistics



Sarah Selzer, CARO
Compliance Specialist, APSM
AA in Business Administration
Fort Wayne RETA Chapter Secretary



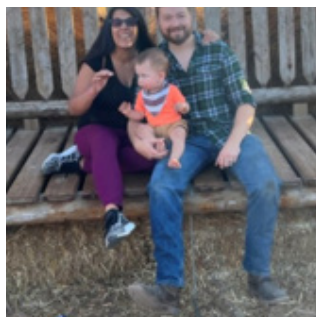
Austin Stovall, CRST
Field Service Supervisor,
Frick Johnson Controls
Operator 1, 2, and 3
RETA Ammonia Refrigeration
Compliance Guideline Course



Akoya Strunk, PE
Senior Refrigeration Engineer,
PermaCold Engineering



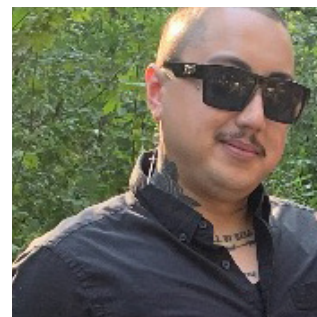
David Sutton, Jr., CARO
Refrigeration Operator,
OG Packing Company
Operator 2



Kyle Thompson, CARO
Refrigeration Operator, Lincoln
Premium Poultry
Operator 2



Mykle Torres, CARO
PSM/Refrigeration Lead,
Smith Frozen Foods
PSM/RMP/GDC Program Certificate
OSHA 24-Hour HAZWOPER Certificate
On-Scene Incident Commander Certificate



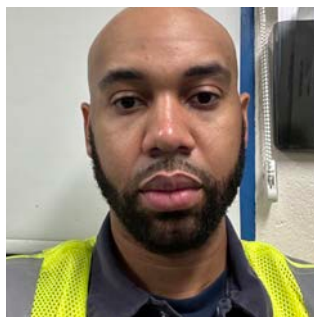
Boris Vallejo, CARO
Maintenance & Engineering Technician
III, Lineage
PSM/RMP/GDC Program Certificate



Noah Wibbens, CIRO
Service Manager, TDI Refrigeration
CO2 Refrigeration Program Certificate
EPA 608 Universal Technician Certification



C'Anna Wiens, PE, CARO
Process Safety Engineer,
Resource Compliance
BS in Mechanical Engineering



Christopher Wilson, CARO
Utilities Technician, Mars Ice Cream
Operator 1 and 2



Matt Wolke, CIRO
Training and Compliance Specialist,
Wagner-Meinert
RETA Train the Trainer Certification
Hazardous Materials Specialist Certification
On-Scene Incident Commander Certificate



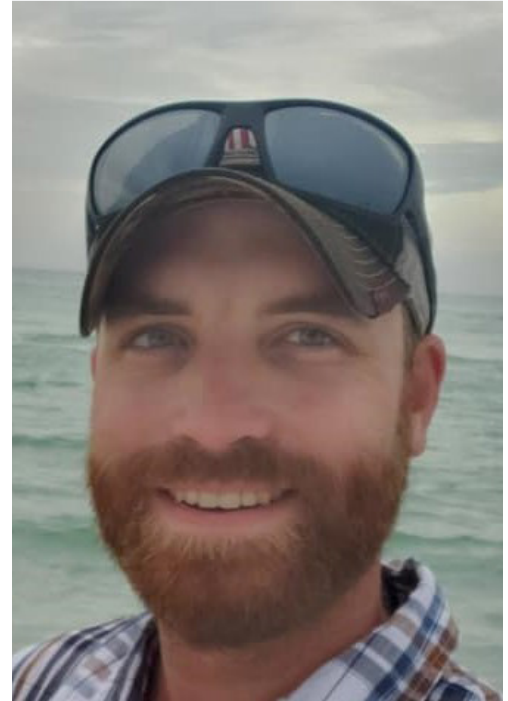
CONGRATULATIONS TO OUR NEWEST RAI

Greg Bryant became the 27th RAI (RETA Authorized Instructor) after passing his RAI certification exam at the RETA National Conference in October.

Applying for and earning the RAI credential is not an easy task. Let's all congratulate him!

Greg is an Ammonia Refrigeration Instructor at Lanier Technical College. With 15 years of experience in refrigeration he has performed many roles within the industry. He has been in his current role as an instructor for 8 years. While teaching at Lanier Technical College, Greg has provided quality training to thousands of individuals throughout the industry. Along with being an experienced

instructor he is also a recipient of RETA's Guy R. King Award, he serves on RETA's education committee, and on a chapter level as the current President of the Atlanta RETA chapter. His most recent accomplishment was receiving his RAI at the RETA National Conference in Grapevine, Texas. Outside of work he is a devoted husband, and father of two sons. His hobbies include deer hunting, fishing, vintage motorcycles, and cars or as he likes to say, "anything with wheels and an engine."



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RETA EXAMS PROMOTE INDUSTRY HEALTH AND SAFETY

Dr. Ron Rodgers, RETA's Psychometrician (testing expert) and ANSI Accreditation Manager

CARO and CIRO candidate performance documents how effectively RETA helps managers and owners protect the health and safety of industrial refrigeration operators, facilities and the public when they require operators and technicians to earn RETA-credentials. Candidates who pass CARO or CIRO have demonstrated considerable knowledge of refrigeration systems when compared to those who fail RETA exams.

CARO requires understanding how industrial refrigeration systems and facilities work but no operating experience. CIRO requires at least two years of machine room experience. CRST requires service technicians to document four years of experience. The minimum passing total score for each test is 70%. The tables below compare the performance of passing and failing CARO and CIRO candidates for 10 months of 2024.

LESS THAN 50% of failing CARO candidates score 70% or higher in nine of ten

content areas. By contrast, the average scores of CARO candidates who pass exceed 70% in all 10 CARO content areas. Similarly, passing CIRO candidates outperform failing candidates by over 50 points in three content areas, by over 40 points in four topics, and by 38% in the eighth content area.

Most CARO candidates who passed scored 70% or higher in at least seven of the 10 CARO content areas. Passing CARO candidates outperform failing candidates by over 50 points in Refrigeration Fundamentals, Safety Standards and Procedures, and Evaporators and Cooling Units. The differences are over 40 points in six of the seven remaining content areas.

The second table shows that the percentage of failing CIRO candidates who scored at least 70% is below 50% in seven of eight CIRO content areas. Just 14% of failing CIRO candidates and 52% of passing CIRO candidates scored over 70% in Electricity. Just 11% of failing

CIRO candidates and 62% of passing candidates scored 70% or higher in Liquid Overfeed and Flooded Systems. Among candidates who passed CIRO, the percentage who scored over 70% was at least 76% in all six of the remaining CIRO content areas.

Separation of passing and failing candidates is over 50% in three content areas that require diagnosing and correcting possible hazards and problems based on evaluating system operating screens in CIRO References: Monitoring System Performance, Liquid Overfeed and Flooded Systems, and Two-Stage and Secondary Coolant Systems. Passing candidates also outperform failing candidates by over 40 points in Safety, Heat Flow, Valves, Controls and DX Systems, and Evaporator Defrost.

These data document substantial differences between the level of understanding needed to manage industrial refrigeration systems candidates. CARO, CIRO and CRST study guides can be downloaded free from the RETA website.

- Each study guide lists all the references that support that examination.
- A practice test is included in the registration fee for CARO, CIRO and CRST.
- Each study guide, practice test and the full exam includes instructions for how to use the onscreen references effectively during each test.

Nearly half of CARO and 35% of CIRO candidates did not take a practice test to help them prepare in the first six months of 2024. The pass rate of CARO candidates who used a practice test was 75% compared to 65% of those who did not take a practice test. The pass rate for CIRO candidates who used a practice test was 58%.

CIRO candidates appear to be especially vulnerable to penalties for not learning how to use CIRO References effectively before taking the full exam. Over half of CIRO questions require knowing when and how to use information in the CIRO References. CIRO tests the ability to identify and resolve hazards in system operations before they might cause serious damage or injury to operators, other employees or the public.

All questions on RETA certification exams include one BEST answer and three incorrect answers based on the judgement of RETA's Certification Committee (Cert-Comm), whose members average over 18 years of industrial refrigeration experience. Incorrect answers in these exams seem plausible (or correct) to candidates who do not fully understand a question, do not read the question and all the answers carefully, or make common errors in using information about refrigeration system operations in system screens and references.

RETA's website also includes a Supplemental Answer Key to questions in the CIRO and CRST Study Guides. The Supplemental Answer Key explains how to answer questions using operating system screens and ladder diagrams. The key offers insight into the logic and process of using system screens to answer questions on RETA exams. Candidates must determine what information on the screen is relevant to the question, know what is in PT tables and how to use them, understand when and how to use formulas that appear at the

Passing and Failing CARO Candidates Scoring over 70% by Content Area

CARO Candidate Scores by Content Areas in 2024 (456 Candidates)	Failing Candidates (N=164)	Passing Candidates (N=292)	Difference Pass vs. Fail
Refrigeration Fundamentals	25%	79%	+54
Refrigeration Cycle	44%	92%	+48
Refrigerant Properties and Tables	33%	79%	+46
Compressor Types	29%	72%	+43
Compressor Operations	45%	85%	+40
Lubrication	41%	89%	+48
Evaporators and Cooling Units	18%	70%	+52
Condensers and Receivers	33%	71%	+48
Purging	51%	73%	+22
Safety Standards and Procedures	22%	75%	+51
Total Pass Rate after All Attempts		71%	

Passing and Failing CIRO Candidates Scoring over 70% by Content Area

CIRO Candidate Scores by Content Areas in 2024 (297 candidates)	Failing Candidates (N=132)	Passing Candidates (N=165)	Difference Pass vs. Fail
Safety Standards and Procedures	56%	90%	+44
Electricity	14%	52%	+38
Heat Flow	44%	92%	+48
Monitoring System Performance	26%	77%	+51
Valves, Controls and DX Systems	30%	76%	+46
Liquid Overfeed and Flooded Systems	11%	62%	+51
Two-Stage/Secondary Coolant Systems	30%	86%	+56
Evaporator Defrost	39%	83%	+44
Total Pass Rate after All Attempts		64%	

front of each Reference, and use these sources to resolve existing and potential hazards in the system.

RETA credentialing exams are challenging to protect the health and safety of operators, technicians, and every other person in or near an industrial refrigeration facility. RETA has invested millions of dollars and thousands of hours from volunteers to create resources to help candidates train and qualify for credentials to improve safety and efficiency in industrial refrigeration facilities.

Each RETA Study Guide explains how to navigate the references that appear onscreen next to questions on each test. Many candidates struggle during a test because they are unsure how to use these references. RETA puts these in the study guide for each test and makes them part of the Practice Test experience. The more familiar a candidate is with the references

for the test and how to use them, the more skilled they should be in knowing when and how to use the information in the screens and references during the full exam.

RETA has designed books, study guides and practice tests to help candidates earn RETA credentials that help them succeed throughout their careers. That is an essential part of RETA's commitment to help refrigeration operators and technicians meet RETA's mission to improve safety and efficiency throughout the industry.



Dr. Ron Rodgers
RETA Accreditation
Manager and
Psychometrician



CERTIFICATION

Honor Roll

CARO - Certified Assistant Refrigeration Operator

Johan Alarcon
Fernando Alvarado
Ronald Bartram
Nicholas Brown
Cole Buchanan
Joe Buffi
Jackson C. Bussanmas
Dilan Campos
Jared Cribben
Gabriel De Anda
Arriaga
Alexander Falk
Lazaro Fernandez
Mike Gleaton
Chris Golden
Stephen Graeber
Dario Gudich
Shane Hall
Jace Hampton
Cody Howard
Raul Ibarra
Connor Lane
Aubrey Laporte
Lenny Larson
Dennis E. Lewis
Christopher Loy
Barry Mathena
John A. Mattern
Lance McCloy
Don McLaughlin
Cannon Meeks
Luke C. Miller
Paul Montanari
Kelly Moss

James A. Norville
Blake Oelfke
Andrew Patterson
Arturo Pinero
William Ransdell
Adam Riester
Drew H. Robinson
Juan Rojas Jr.
Daniel Rosas
Tanner Singleton
Paul Skryagin
Jeffrey Smith
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Parker Suckow
Jesus M. Tamez
David Taylor
Nicholas Thacker
Micah G. Thomason
Jacob Thompson
Ivan Trujillo
Franklin Valdez
Todd Viereck
Red Waddell
Tres Weatherly
Colin Webster
Kristopher S. West
Stephen White
Samuel W. Wilkinson

CIRO - Certified Industrial Refrigeration Operator

Baldomero Almazan
Jeremiah Armstrong
Oscar Arroyo
Elijah Avery

Congratulations to our newly RETA Certified Operators, who passed the exam(s) between Sept 1, 2024 to Oct 31, 2024. For information about the examination process and preparation to take the RETA exam, please visit [RETA.com](https://www.reta.com).

Lemuel Bates III
Mark Beahm
Michael Butterfield
Adrian S. Cornwell
Devin M. Cross
Jose A. Cruz
Luis Oziel De Haro
Acosta
Timothy Ditman
Evans J. Edmond
Jose Escandon
Christopher Freis
Jesus Garza
Richard Gentry
Albina Gilaeva
Martin Gutierrez
Pedro Gutierrez
Elias Hall
Ryan Harper
Dennis Helmers
Dustin Irwin
Julio C. Martinez
Michael Mauricio
Jacob B. Maxwell
Aaron S. McCormick
Christopher McCulloch
Jack McFedries
Alexander L. Mefford
Daniel J. Nasello
Daniel Nolind
Richard Norris
Lucas A. Norris-Hayes
Salvador Olivera-Valdovinos
Jeremy Pruitt
Collin Reier

David R. Salinas III
Angel Sanchez
Jack Schaal
Brandon Shahan
Kenneth Stickler
Anthony Suon
Paulo Vasquez
Joshua Velez
Bradley R. Vercher
George Watson
Frederick Weidenfeller
Craig Wetzel
Ryan Whitton
Jeff Wiens
Ken Williams

CRES - Certified Refrigeration Energy Specialist

Amy Whetton-Jolley

RAI - Reta Authorized instructor

Gregory D. Bryant

CRST - Certified Refrigeration Service Technician

Sergio Razo
Patrick R. Moore
Aaron Veen
Keith Jantzen
Hank Bachofer

HYGENAIR™ A+H

HYGIENIC AIR HANDLER



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- Providing adequate cooling (and optional reheat for dehumidification)
- Limiting air migration
- Managing condensation
- Filtering out contaminants

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Industrial Grade Construction

- Fully welded steel frame with a fully insulated base
- Standard G235 galvanized steel interior and exterior walls
- Standard stainless steel drain pans, optionally fully welded with varying hygienic weld finish levels

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- Excellent performance in difficult operating conditions
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