

PermaCold

Engineering News

"Because Refrigeration Is Still An Engineered Product"

Volume 11, Issue 1

Winter 2007

Upcoming Shows And Events

January 15-17, 2007
**93rd Annual Northwest
Food Manufacturing &
Packaging Expo**

Oregon Convention Center
Booth #437
Portland, Oregon
www.nwfpa.org

January 27-31, 2007
ASHRAE Winter Meeting
Dallas Convention Center
Dallas, Texas
www.ashrae.org/dallas

January 29-31, 2007
AHR Exposition
Dallas Convention Center
Dallas, Texas
www.ahrexpo.com

March 18-21, 2007
**IAR Ammonia Refrigeration
Conference & Tradeshow**
Renaissance Hotel
Nashville, Tennessee
www.iar.org

April 21-26, 2007
**IARW Annual Conference
& Tradeshow**
Sheraton Wild Horse Pass
Resort and Spa
Phoenix, Arizona
www.iarw.org

October 3-5, 2007
**RETA's 98th Annual
National Convention**
Doubletree Hotel
Boise, Idaho
www.reta.com

Ammonia Safety Training for both West side and East side Customers to be held the week of February 19th, 2007 in Portland, OR and Richland, WA

By: Lee Trautman

You are invited to attend Permacold's Ninth Annual "West side" and Second Annual "East side" Ammonia Safety Training Session. Our very popular Portland, Oregon training session will be duplicated in the Tri-Cities, WA area for our East side customers again this year. We have trained hundreds of people over the last few years and due to last years overwhelming response, we are expanding both the East side and West side sessions to three separate days each.

**West side Dates are: Monday – Wednesday
February 19th – 21st**

**East side Dates are: Wednesday – Friday
February 21st – 23rd**

The theme of this year's annual event is *Distinguish the Response*. The goal this year is to provide training so that you will learn how OSHA gives clear guidance regarding the determination of when an incidental situation suddenly turns into an emergency event and how to respond. If you wish to receive a course outline prior to the class, just contact Barbara in our office and she will e-mail or fax it to you.

Both the West side and East side training sessions will offer two different types of training sessions to better accommodate the needs of you, our customers.

8 Hour Sessions

**8 Hour First Responder/Operational Response
Training and 8 Hour Technician/Scene Manager
Refresher Training**

**Offered Three (3) Consecutive Days – Both East
side and West side**

These sessions are a one-day, 8-hour session designed to provide the required documented training as required in OSHA 1910.120Q and WISHA/WAC 296-62-3112.

This session will provide the required training to meet the First Responder classification. Additionally, the training that will be provided in this session will also serve as instruction in the safe handling of ammonia and how to respond to an ammonia leak.

This training is for individuals who are likely to witness or discover an ammonia release and will then initiate an emergency response notification process. This session is also required to update all holders of the 24 hour Hazardous Materials Training Technicians Certification. The session will also cover fit testing, and a man-down drill session. All students

requiring the 24-hour refresher training will split from the main group after lunch. Please bring to class (a) Your SCBA and (b) Your Facilities written SOP on Ammonia Leaks.

This session, will be offered three consecutive days on both the west side and the east side. The last couple of years, we have had concerns that some of our customers have not been able to send their entire refrigeration staff, since they couldn't shut the production down just to attend our safety training sessions. So, we are repeating the classes three days in a row at the same time and place. Class size will be limited to seventy-five each day, so sign up early. If you need 24 hour re-certification, then don't forget; please bring to class (a) Your SCBA and (b) Your Facilities written SOP on Ammonia Leaks.

(continued on page 2)

24 Hour Sessions

The 24 Hour session is a more intensive three-day seminar designed for all plant personnel that either needs to satisfy PSM requirements or plants that have the need to provide training for an individual that will respond to a release of ammonia. This type of training is classified as Hazardous Materials Technician. This training will satisfy both the OSHA 1910.120e (3) (iii) and WISHA/WAC 296-62-3112 (6) (C). This training also satisfies some of the important training requirements of OSHA Process Safety Management. This training will only be offered once during the week at each location.

Cost to Attend

The cost to attend the 8-hour sessions is \$200.00. There is a \$10 discount per person for 5 or more attendees from the same company for the 8 Hour sessions.

The cost to attend the 24 Hour session is \$525.00. **Please Note: We cannot offer a discount for the 24 Hour session.**

Four ASTI Instructors

ASTI is providing four instructors for PermaCold's Safety Training Day. Their presentation will undoubtedly bring a higher level of safety awareness in our area. Retired Fire Chief, Gary Smith, their President will lead the classes.

Level A – Training

This year, we will not offer any training associated with Level A training (over 5,000 PPM). During the last couple of years, we have noticed that a majority of our customers are not training to this level and have adjusted to the less stringent standards of Level B. In part, this is due to the increased funding for HAZMAT Teams. If your facility requires Level A training, then contact us and we will be happy to arrange for an on-site, site specific training as required to ensure that you are meeting the necessary Level A requirements.

Bill Beadie – Speaker

Bill Beadie, our local PSM expert has agreed to a presentation on a new OSHA/EPA discussion taking place. This is the Emergency Response vs. Emergency Action Plans that allows facilities to choose an Emergency Action Plan or simple evacuation if they don't involve their own employees.

Fire Bureau's Involved

Multiple Fire Departments to include, Portland, TVFR, Clackamas, Woodland, WA, Spokane County and Richland Fire Bureau's are expected to be involved this year as attendees. We feel that it is very important for there to be a partnering of local Fire Bureau Personnel and the local ammonia industry. Any other Fire Bureau Personnel wishing to attend are welcomed at no cost; space available with pre-registration.

One-Hour Question And Answer Period

At the conclusion of the first day of training,

(continued on page 4)

FREQUENTLY ASKED TRAINING QUESTIONS

By: Bill Beadie; Paul Carlson Associates, Inc.

Who needs the training? Anyone who could discover an ammonia release needs at least the awareness training. That's essentially anyone at the facility.

People need the 8-hour training if they plan to respond DEFENSIVELY to a release (*protect nearby persons / property / environment by setting up isolation distances, shepharding folks to the assembly areas*). We generally encourage facilities to train at least a few folks to this level, even if they don't plan on performing offensive response to an ammonia leak. It's good if refrigeration personnel can perform these duties, but it doesn't require an extensive knowledge of the refrigeration system. Supervisors or similar folks at a facility could conceivably fill this role.

People need the 24-hour training if they plan to enter a release area to plug, patch or stop an uncontrolled release. Likewise, if they plan to act as incident commander, they need the 24-hour training. Anyone in this role should be very familiar with the refrigeration system, so if anyone, it tends to be refrigeration personnel.

Do I need to do it every year? Annual refresher training is required, but there is no set time length for the refresher training.

1) If we are not going to go level A - do we still need the training? The level of PPE you choose has nothing to do with the training requirements. Training requirements are dictated by the role people intend to fill. Entering an uncontrolled ammonia release area requires 24 hours of initial training no matter what kind of PPE you are wearing. Responding defensively to a release requires 8 hours of initial training. Limiting the response to evacuation and reporting requires the awareness level training.

2) If we are only level B, what training do we need? See explanation above.

3) If we are only going to use masks with canisters, what training should I sign up for? See explanation above.

4) My boss says we only need the training every three years. PSM operator training is required every three years. This is often confused with emergency response training, but it's fundamentally different. Operator training is intended to teach people how to safely operate the system on a day-to-day basis. Emergency response training is intended to teach people how to respond if all hell breaks loose.

5) What OSHA regs will the training satisfy? The OSHA federal standard for HAZWOPER is 29 CFR 1910.120, paragraph q. Awareness level training is 1910.120(q)(6)(i). Operations level is 1910.120(q)(6)(ii).

Technician level is 1910.120(q)(6)(iii) and incident commander is 1910.120(q)(6)(v).

Oregon has an identical numbering scheme for the emergency response code, but Washington's is different. People in Washington are complying with WAC 296-824-300.

On a side note, this training does overlap with some other OSHA/WISHA standards. For example, facilities who limit their response to evacuation may simply have an emergency action plan that meets the requirements of 29 CFR 1910.38 (or WAC 296-24-567 in Washington). The awareness training would essentially meet these requirements. It also overlaps with the PSM provisions that require emergency response. The emergency action plan requirements and the HAZWOPER requirements are referenced in the PSM section on emergency response.

6) If my plant is less than 8,000 lbs., do I need training? Yes. An emergency response can be required for ammonia inventories much less than 10,000 pounds. We believe that the threshold quantity for emergency planning is 500 pounds.

7) Do I need to bring my SCBA gear? I always encourage people to bring as much equipment as possible that they would actually use in an emergency. It doesn't do much good to become familiar with equipment that you won't use.

8) How often should we do fit tests for both the SCBA and the canister masks? We encourage annual fit testing as part of the training, but strictly speaking, fit testing is only required before use. Additional fit testing is only required if there are any reasons to suspect that the effectiveness of fit is significantly changed, such as dramatic weight loss/gain, facial surgery, or any signs/symptoms of a poor fit.

9) Do we really need physicals every year? Members of organized HAZMAT team (24-hour folks) need a baseline medical exam in accordance with the HAZWOPER requirements. They need additional exams annually unless the physician believes a longer interval (not greater than every 2 years) is appropriate. Therefore, it's possible that the HAZMAT team members only need an exam every 2 years, depending on the physician's findings.

10) For entry-level people (NEW People), should they have "special" training? I don't know what you mean by entry level people or special training, but I'll fall back on my argument that the training level is dictated by the role you expect them to fill. Anyone could discover a release, so I'll argue that everyone needs awareness level training (no set time length). After that, it's up to the facility and the individuals to decide what level of responsibility (and thus training) makes sense.

**Portland, Oregon: - West Side
February 19th - 21st**

- Session I, II, III: First Responder/Operational Response Training—\$200.00**
 What: One-Day, 8-hour session designed to provide the documented training as required in OSHA 1910.120Q and WISHA/WAC 296-62-3112.
 When: Monday, February 19th, through Wednesday, February 21st at 8:00am
 Where: McMenamins Kennedy School
 5736 NE 33rd, Portland, OR 97211
- Session IA, IIA, IIIA: First Responder Technician Refresher Training (24-Hour Re-Certification) \$200.00**
 What: One-Day, 8-hour session designed to provide the documented training as required in OSHA 1910.120Q and WISHA/WAC 296-62-3112.
 When: Monday, February 19th, through Wednesday, February 21st at 8:00am
 Where: McMenamins Kennedy School
 5736 NE 33rd, Portland, OR 97211
- Session IV: 24-Hour Emergency Response Technician Training—\$525.00**
 What: Three-Day, 24-hour session designed to provide the documented training as required in OSHA 1910.120Q and WISHA/WAC 296-62-3112.
 When: Monday, February 19th, through Wednesday, February 21st at 8:00am
 Where: PermaCold Engineering, Inc.
 3005 NE Argyle, Portland, OR 97211

**Richland, Washington: - East Side
21st - 23rd**

- Session I, II, III: First Responder/Operational Response Training—\$200.00**
 What: One-Day, 8-hour session designed to provide the documented training as required in OSHA 1910.120Q and WISHA/WAC 296-62-3112.
 When: Wednesday, February 21st, through Friday, February 23rd at 8:00am
 Where: Marriott Courtyard
 480 Columbia Point Drive, Richland, WA 99352
- Session IA, IIA, IIIA: First Responder Technician Refresher Training (24-Hour Re-Certification) - \$200.00**
 What: One-Day, 8-hour session designed to provide the documented training as required in OSHA 1910.120Q and WISHA/WAC 296-62-3112.
 When: Wednesday, February 21st, through Friday, February 23rd at 8:00am
 Where: Marriott Courtyard
 480 Columbia Point Drive, Richland, WA 99352
- Session IV: 24-Hour Emergency Response Technician Training - \$525.00**
 What: Three-Day, 24-hour session designed to provide the documented training as required in OSHA 1910.120Q and WISHA/WAC 296-62-3112.
 When: Wednesday, February 21st, through Friday, February 23rd at 8:00am
 Where: Marriott Courtyard
 480 Columbia Point Drive, Richland, WA 99352



**“9th Annual”
PermaCold
Engineering
2007
Ammonia
Safety Training
Schedule**

- 7:00 Check-In Begins
 7:30 Tradeshow Open – on Monday and Tuesday Only – West side
 Tradeshow Open – on Wednesday and Thursday Only – East side
 8:00 Introductions & Welcoming
 12:00-1:00 Lunch onsite will be provided

**Concurrent Sessions
First Responder Classification**

- 1:15 Health and Safety and Personal Protective Equipment (PPE)
 1:30 Implementation of the Emergency Response Plan
 2:30-2:50 Break
 2:50 Operational Readiness to Implement Emergency Response Plan
 3:30-4:00 Man Down Drill – Outside – Bring Jackets/Rain Gear
 4:00 Adjourn
 4:00-5:00 Question and Answer Session

**24 Hour Hazardous Materials Training
Technicians Re-Certification**

- 1:00 Walk the Walk to Reduce Hazards and Risks PPE fit Testing
 Inventory and Readiness of Emergency Response Equipment
 Review and Upgrade of the Emergency Response Plan
 2:30-3:00 Break
 3:00-4:00 Man Down Drill – Outside – Bring Jackets/Rain Gear
 4:00 Adjourn
 4:00-5:00 Question and Answer Session

**Schedule and course content subject to change, based upon the needs of course attendees.*



2007 AMMONIA SAFETY TRAINING REGISTRATION

Name: _____
 Company: _____
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone: _____ Fax: _____
 Email: _____

Please Select The Session You Are Attending

Portland, OR Richland, WA

- Session I:** First Responder/Operational Response Training
\$200.00 · 8 Hours
- Session IA:** First Responder Technician Refresher Training (24-Hour Re-Cert)
\$200.00 · 8 Hours
- Session II:** First Responder/Operational Response Training
\$200.00 · 8 Hours
- Session IIA:** First Responder Technician Refresher Training (24-Hour Re-Cert)
\$200.00 · 8 Hours
- Session III:** First Responder/Operational Response Training
\$200.00 · 8 Hours
- Session IIIA:** First Responder Technician Refresher Training (24-Hour Re-Cert)
\$200.00 · 8 Hours
- Session IV:** 24-Hour Emergency Response Technician Training
\$525.00 · 24 Hours

Billing Information

Name: _____
 Address: _____
 City: _____ State: _____ Zip: _____
 Amount: _____ Purchase Order No.: _____

Please Fax or Email Your Registration to Barbara Schmick
Fax: (503) 249-8322 Email: barbara.schmick@permacold.com
Detailed Information Will Be Distributed Upon Registration

Safety Training (continued from page 2)

we will have industry experts available to you for any and all questions as they relate to ammonia refrigeration and any safety questions. We have also asked industry experts in PSM and RMP to be available to you for help in answering questions about compliance.

Free T-shirts

A free T-shirt will be provided to all attendees that successfully complete any of the training sessions. If you like, we will even have Ward Ristau (Company President), autograph it for you. The shirts will commemorate your successful completion of the 2007 PermaCold Safety Training Day.

Free Lunch to Be Provided

Lunch, beverages, and snacks (including lots of Do-Nuts) will be provided. This will enable everyone a chance to socialize with industry peers and get a chance to meet each other.

Certificates of Completion to be issued to All Class Members

All participants will receive a certificate upon satisfactorily passing the mastery test. These certificates are important in that they provide proof for your employer that you have completed the required training and are in compliance with the OSHA regulations. Certificates will be handed out at the completion of class.

Tradeshow

We have invited a select group of the major refrigeration manufactures and industry suppliers to set up tabletop displays. Last year, every major manufacture and local water treatment and Insulation service companies you work with were represented. This will give you a chance to talk with them during the breaks and at lunch. The Tradeshow will only be held Monday and Tuesday on the West side and Wednesday and Thursday on the East side.

