April 19th- Mfg. Reps Presentations & Code Officials Meeting

The April quarterly joint ORACCA/OMOA Codes update meeting is scheduled to be held at the NW Natural, Sherwood Facility, 11:00AM, April 19, 2018. This meeting room is provided by NW Natural and Lunch is sponsored by Platt Electric.

This is a joint meeting between ORACCA and OMOA. (The Oregon Mechanical Officials Association). Their membership consists of code officials from State and local jurisdictions throughout Oregon.

Many representatives from the surrounding area are invited, to add their thoughts to the discussion of the status of the current codes and advise the attendees of any changes, which are imminent or will be coming on-line in the near future.

Important Code subjects which can and will affect your businesses, so plan to attend and learn. See you at Sherwood! Have lunch, and listen to the people who can answer your code questions.

In addition we have numerous manufacturers representatives who will discussing their various product lines.

Casey Hollabaugh, Hollabaugh Bros and Assoc. representing over two dozen different manufacturers product lines, will be presenting on Centrotherm Polypropylene Vent Systems. The InnoFlue® line of vent systems, kits, and accessories are highly engineered for use with ANSI Category II and IV gas burning appliances, www.hbarep.com Phone: 503-238-0313

Mike McNulty and Damien Hendricks Build Products NW, representing over 20 manufacturers lines, will be presenting on LG's Duct-Free Technology. Efficiency and modern modular design are just the beginning.
http://www.buildproductsnw.com Phone: 503-583-2535

Alec Stewart, Stewart Marketing manufactures field representative for Eaton PQ products performing surveys and training in the NW. He will present on:
- Surge overview (facility downtime and equipment failure)
- Surge HVAC example
- Surge protection devices and product application categories
- NEC Code requirements (708.20) HVAC
http://www.stewartltd.com/
Phone: 541-233-3226

Stop by for lunch and see all these product presentations. Undoubtedly there will be opportunity for profit among them.

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What?
Joint ORACCA / Codes Officials Meeting
When?
11:00AM, April 19th.
at NW Natural Sherwood
20285 SW Cipole Rd. Sherwood,
OR 97140

Take I-5 North or South, depending on the direction from which you are starting.

Take the Nyberg St exit, EXIT 289, toward Tualatin-Sherwood Rd.

Turn West onto SW Nyberg St. SW Nyberg St becomes SW Tualatin Sherwood Rd.

Turn right onto SW Cipole Rd.

SW Cipole Rd is 0.1 miles past SW 124th Ave. You will see the NW Natural facility, 20285 SW Cipole Rd. is on the left.
CODE UPDATE

This code question involves heat pumps on residential applications.

1) Does Oregon mechanical code require supplemental heat (electric resistance or gas) below a certain ambient temperature when heat pumps are used as primary sources of heating, since the heat pump will have degraded performance at low ambient temperatures?

2) Are our hyper-heat units exempt from the code requirement (if any) in question 1, since they can operate down to 5F with 100% heating?

This would be a selling point for hyper-heat, since it could potentially save the contractor/homeowner from installing a backup system.

The answer from area code officials:

Randall Soelber, Inspector, City of Woodburn, responded with the driving code section for the residential code is R303.9. There is no specific code language requiring a secondary heat source, however this code section requires code officials to verify that the intent of the code is met by any means necessary up to and including a secondary heat source.

Having said this; there is a pending lawsuit against a jurisdiction in eastern Oregon that allowed heat pumps as the only heat source for residential housing in a new subdivision. The key to this is that the listing of the appliance did not specify that the heat pump was a continuously effective heat source in below freezing temperatures for extensive periods of time that would allow the requirements of R303.9 to be met.

If you choose this method of using hyper-heat unit heat pumps; be prepared with the listing information that clearly shows the testing criteria and the result of the testing under extended cold periods of below freezing and sub-zero temperatures. This would be a requirement as part of the permit submittal in this jurisdiction for any heat pump installation without a secondary heat source.

Mark Heizer, Oregon State Codes Division also responded stating if the contractor/designer has Manual J and S calcs that show the system heat can meet the load at design conditions, they meet code (M1401.3). As Randy noted, the equipment has to show that it can provide the required heating at design conditions.

In the Valley/Coast, few locations have a heating design temperature below 17F (the AHRI low temperature testing condition). Here are values from one central heat pump system. If the building heating load to maintain 68F (R303.9) is less than about 32,000 Btu/h, the example equipment cannot be required to have supplemental heat. There is no requirement to show that equipment must provide full capacity at conditions below the outdoor design temperature (i.e. sub-zero in the valley/coast), whether a gas furnace or heat pump.

Side note: Since heating capacity is the dominant load for a code minimum home, cooling capacity will be oversized if a contractor wants to avoid supplemental heat (either at the unit or spread thru the home). It’s not prohibited, since this type equipment has variable capacity (M1401.3 Exception 1). Super-insulated, super-tight homes can more-easily use these low-temp heat pumps; summer solar load does not decrease by much, since windows still let in sunlight, plus internal cooling loads are trapped inside. So the summer peak cooling load is closer to peak winter heating load (again with the caveat of “when properly sized to the home load calculation”).
SPONSORS OF THE MONTH

NW Natural
20285 SW Cipole Rd.
Sherwood, OR 97140

PLATT
10605 SW Allen Blvd
Beaverton, OR 97005

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For additional information visit www.oracca.org or call 360-834-3805. Email dick@oracca.org

TRAINING/ TESTING

Brazing Certification Test, March 23, 2018,
PCC @ Swan Island Facility (CLOSED)

NATE Test, On Demand - Call ORACCA for
details and scheduling

CFC Test, On Demand - Call ORACCA for
details and scheduling

Brazing Certification Test, June 15, 2018,
PCC @ Swan Island Facility
To:

ORACCA, April 19th at NW Natural, Sherwood

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