

Board of Boiler Rules Meeting Minutes
March 23, 2015
Special Board Meeting
Department of Labor & Industries, Tacoma, WA

Board Members:

Robert Olson, Chair
Larry Trender
Terry Chapin
Tony Oda, Secretary
Jeff Barnes-Absent
Jeff Waytashek-Absent

Other Attendees:

Michael Carlson, State of Washington
Calista Shoblom, State of Washington
Stephan Osterbur, State of Washington
Tim Cleary, State of Washington
Tim Barker, FM Global
Scott Holm, Chainline Brewing Co.
Bruce Martin, RockTenn Tacoma
Ned Waltz, Weyerhaeuser
Tom Wolfe, Q.E.D.

The Special Board of Boiler Rules meeting was called to order by the Chair on March 23, 2015, at 10:08 a.m. Introductions were made by the board members and guests attending the meeting.

Agenda Item 1.

The meeting agenda was reviewed and approved as written.

Agenda Item 2.

Washington State Special Request – Chainline Brewing Company

Scott Holm, representing Chainline Brewing Company - Kirkland, WA is seeking a Washington State Special for a Combination mash/ Wort boiling steam jacketed vessel for beer making, the vessel was manufactured in the Czech Republic and Scott purchased it while in Japan.

This vessel was designed and manufactured for a working pressure of 60 psi steam, for heating and brewing craft beer. It was hydrostatically tested at 88 psi and passed all appropriate European standards requirements at the time of manufacture. Due to the size of the kettle, the steam pressure required to maintain the proper brewing temperature is between 25 and 40 psi. Scott originally thought brewing could be done with steam pressure under 15 psi, thus eliminating the need for state regulation and inspection. Since this is not possible, Scott is seeking a state special. Scott proposes to operate the pressure vessel well below it's stated working pressure of 60 psi at no more than 40 psi, in order to increase the margin of safety for the vessel.

New safety valve setting will be 45 psi. The steam regulator from the boiler will restrict steam pressure to 32 psi.

The board reviewed the translated vessel specifications/calculations; pictures and the inspection report submitted by state Inspector, Steve Osterbur, who is the inservice Inspector for this location. The board also reviewed the successful hydrostatic test report, which was conducted at 60 psi and witnessed by Scott and Steve.

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The board found these documents satisfactory. The board asked if an ultrasonic survey had been performed on the vessel, the answer was no.

The board voted on approving the state special. The vote (3-0) approved the state special with a condition that on a scheduled shutdown, within the first 6 weeks, do a UT survey to get vessel thickness readings. Uniform thickness readings will be in Millimeters. MAWP of 45. Have passed a hydrostatic test. Motion to accept 45 PSI and satisfactory UT results.

Department will draft letter to Chainline Brewing Company.

Agenda Item 3.

Washington State Special Request – Weyerhaeuser Technology Center

Miles (Ned) Waltz, PE, representing Weyerhaeuser Technology Center - Federal Way, WA is seeking a Washington State Special for a 32 year old autoclave. It is loaded with wood products, flooded with water that ranges in temperature between 40-150 degrees F, and then exposed to either a pressure of up to 150 psi or a vacuum of up to 27 in. of Hg.

In 2014, Weyerhaeuser closed a structural engineering test laboratory in Boise, Idaho and relocated much of the equipment to a renovated facility in Federal Way, WA. This autoclave was moved to Federal Way as part of that transition. While many of the vessel's construction specifics are unknown (Ned, stated that it was built by Weyerhaeuser personnel in Boise), we do know that it was built in 1983 and has satisfactorily performed its intended use for 32 years. The front door assembly was designed and constructed as a part in accordance with ASME Section VIII, Division 1. It was current with its Idaho state inspections and permitting, with the last permit due to expire in 2018.

Once installed in Federal Way, the autoclave was unable to pass its 9 February 2015 WA State boiler inspection due to the lack of a visible placard to identify its fabrication shop or ASME code status. All of the insulation and even some of the paint have since been removed in an unsuccessful effort to find the required nameplate/stamping.

Based upon the recommendation of the WA Chief Boiler Inspector, Weyerhaeuser retained a qualified consultant (P.E. Tom Wolfe, of Q.E.D.) to conduct an evaluation of the pressure vessel using the guidelines in WAC 296-104-405. Mr. Wolfe provided the board with a comprehensive design package, which demonstrated that this vessel could be operated safely at 150 psi. The board also reviewed the results of the ultrasonic inspection survey conducted by an independent inspection firm. The conclusions from this review are that the autoclave is suitable to continue its current use as described above.

The board motioned and voted (3-0) to approve the State Special request for Weyerhaeuser's non-code autoclave for a MAWP of 150 psi. This vessel will be assigned state # 22081-15WS.

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The department will issue a letter to Weyerhaeuser documenting the granting of this state special.

Agenda Item 4.

Department Notes

Update on Fee Increases

Boiler Board Meeting Schedule

Boiler programs budget is on a downward trend. It needs an adjustment of 4.33%, the fiscal growth factor. L & I's Fiscal office may approve a higher fiscal percentage. Decision in September to how much the increase will be. According to Fiscal, the Board does not have the authority to approve the fees. Seek clarification on WAC 700. We have jurisdiction over these WAC's and will get clarification from Angela. Department will have to come back to the Board with an answer. Won't be effective until September 1.

Rob Olson asked to put on agenda for the May Boiler Board Meeting. The question was brought up if we want to go back to five meetings a year (January, March, May, September and November). Space them more evenly.

Discussion on wording the WAC better for schedule conflicts. Put this on the agenda for the next meeting.

Open Public Meeting Act – Phone testimony is allowed. Can conference call a board member in.

Meeting adjourned at 11:24 a.m.