

Board of Boiler Rules Meeting Minutes
May 28, 2014
Department of Labor & Industries, Tacoma, WA

Board Members:

Robert Olson, Chair
Larry Trender
Tim Barker*
Terry Chapin
Jeff Waytashek
Tony Oda, Secretary

Other Attendees:

Michael Carlson, State of Washington
Calista Shoblom, State of Washington
Larry Leet, City of Seattle
Shanéé Coachman, Air Liquide*
Steve Socha, OneCIS*
Russell Bartlett, Travelers Insurance*
Steve Robinson, Phillips 66*
David Sumpter, State of Washington*
Bruce Weech, State of Washington*
Jeff Barnes, HSB**
Brian McIntosh, HSB**

* Attended Study Session only

** Attended Board Meeting only

The Board of Boiler Rules Study Session was held on May 27, 2014, from 10:01 a.m. to 12:09 p.m.

The Board of Boiler Rules meeting was called to order by the Chair on May 28, 2014, at 10 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.

The minutes from the February 25, 2014, meeting were reviewed and approved as written.

Agenda Item 3.

A Public Hearing session was held to allow for public comment on the following proposed WAC revisions:

WAC 296-104-050 – Administration
WAC 296-104-102 – Inspection
WAC 296-104-271– Installation
WAC 296-104-502 – Repairs

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Attached are the official meeting minutes for the May 28, 2014, public hearing. The Board received no public comments and all proposed WAC revisions were reviewed and unanimously approved. Public hearing closed.

Agenda Item 4.

WAC 296-104-010 Extension of internal Inspection Frequency Request – Air Liquide Industries U.S. LP, Anacortes, WA

Air Liquide is requesting a permanent 36-month internal inspection interval extension for Waste Heat Boiler (28035-03W) from one year to three years. The board granted a one-time 36-month internal inspection extension in 2011. Air Liquide wants to synchronize their shutdown scheduled inspections with their customers' requirements as they are contractually obligated to provide hydrogen continuously to the Puget Sound Refinery.

OneCIS is their insurance company and is in support of this extension. Steve Socha, the OneCIS inservice Inspector was present to give verbal and written testimony about his inspections on this Waste Heat Boiler. He also supplied inservice inspection reports for the last 3 years. A complete UT survey and evaluation report was presented to the board. Qualified subcontractor TEAM Industrial Services, Inc. prepared this report. The report found no significant problems and UT results on the boiler tube and shells were all satisfactory, with no differences from the UT readings obtained in 2011.

The boiler is also subject to a rigorous water treatment program, administered by ChemTreat, Inc. The water chemistry is measured daily by Air Liquide personnel and a ChemTreat technician does a complete water chemistry analysis on a monthly basis. Deaerated boiler feed water used by this waste heater boiler is supplied by the Puget Sound Refinery. Jeff Waytashek noted that the dissolved oxygen was at 100 ppb plus on all monthly reports, the recommended limit is < 7 ppb. That number was clarified to be not accurate due to their measuring technique used by ChemTreat. They believe that based on the condition of the boiler that the dissolved oxygen is close to within tolerance based on the condition of the boiler, and from the water chemistry tests at PSR.

There are three pressure relief valves on the waste heat boiler, the first set at 745 psi and the second at 767 psi, and the super heater safety valve set at 735 psi. They have had very few planned outages over the life of this boiler. Jeff Waytashek stated that a new test or procedure needs be developed to accurately test the dissolved O2 level in the PSR supplied feed water before the 3 year internal extension can be granted.

The board voted to grant Air Liquide a 3-year permanent extension for internal inspection frequency of the boiler (28035-03W), with the requirement that an accurate system/method of testing for dissolved oxygen in the boiler feed water must be implemented. The current test method is not acceptable. Second, the boiler limit and safety controls must be tested and documented on the annual external certificate inspections report by the authorized inspector in the JO database.

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The department will draft letter to Air Liquide explaining these requirements.

Agenda Item 5.
WAC 296-104-100 Inspection – Revision

The department is proposing a revision to WAC 296-104-100, which will eliminate the confusion on how internal and external inspections on power boilers are handled. As it now stands, this WAC states that both internal and external inspections will be done annually. It does not specify in what order these inspections are done and what inspection the certificate can be issued on. This situation has led to many power boilers not being inspected both internally and externally annually. With this WAC revision, this requirement will be clear to both the inspector and owners. The department wants to add item (1) (c), the required annual certificate of inspection will not be issued until both inspections listed in (1) (a) (external) and (b) (internal) above are completed and reported to the jurisdiction.

The proposed paragraphs 1(b) thru 1(d) will read:

“(b) Internally and externally while not under pressure- Annually, except as noted in (d) below.

(c) The required annual “certificate of Inspection” will not be issued until both inspections listed in (a) and (b) above are completed and reported to the Jurisdiction.

(d) A power boiler in a national board accredited owner-user inspection program may have the internal inspection intervals extended by the owner-user inspection organization to five years maximum under the following conditions:”

Jeff Barnes: Current documentation for these types of inspections is not listed anywhere on inspection reports. We do have the states database JOL but is not readily assessable to the customer and to insurance companies who do not use JOL. If we go forward with this I would like for some consideration be made to where we list that information so that it can be found and available for customers who need to know when their inspections are due so they know this requirement moving forward.

The Department will bring back the revised request to the board in September.

Agenda Item 6.
WAC 296-104-010 Administration – New definition for CO2 System
&

Agenda Item 7.
WAC 296-104-261 Installation – Adopt standards for CO2 Systems

The department would like the board to adopt the new definition of a CO2 system. The purpose for adding a definition for a CO2 system to our WAC’s is for the acceptance of NBIC Part (1)

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Supplement (3) which includes piping, tubing, valves and fittings in the system. Tim Barker is on the NBIC Part 2 subcommittee, he informed the other board members that the subcommittee has been working on inservice inspection rules for this.

The committee will be voting the end of July; if it passes, it will be in 2015 edition of NBIC Part 2. It was decided to not reference the NBIC, take the language from the NBIC and put that into the definition. Because NBIC part 2 does not have adopted inspection criteria for inservice inspection of CO2 systems the Board would like to see the possibility of adopting paragraphs S3.4 and S3.5, gas detection systems and signage. Adopting signing and monitoring will need to be addressed with the AG's office first.

Saving Agenda item 6 for the next meeting. Board agreed to bring forward the proposal of one new WAC, which would answer the question "What gas detection systems and signage are required on CO2 systems".

Board motioned to resend the revision request in agenda item 7. The Department will bring back a new revision request for the specific requirements and proposed new WAC if the AG's office agrees and will carry definition forward.

Agenda Item 8.

Department Notes:

Department is proposing a procedure for enforcement of RCW 70.79.180. The following comments were made on the draft presented; the department will be removing endangering the public and will be including deputy or special inspectors. A meeting (conference call) needs to be changed and would take out deficient inspection. On item number 4, cannot enforce oversight on non-state employees.

Jeff Barnes: Would like to see that the supervisor is notified prior to step one.

The department will write up a draft, call the National Board review board to see what the procedure is, and have it go thru HR and the AG's office. The board supports a multi-step process.

Congratulations to Jeff Waytashek who was appointed on the Boiler Board May 2, 2014 by Governor Inslee to replace Leslie Grimm. His term runs through August 22, 2017.

Tim Barker's term expires August 22, 2014, prior to the next boiler board meeting. The department is working with the Governor's office for the next appointed boiler board member.

Reminder to the board that the deadline to take the online training is July 1.

Meeting adjourned at 11:52 a.m.