

**Board of Boiler Rules Meeting Minutes**  
**February 25, 2015**  
**Combined Study Session/ Board Meeting**  
**Department of Labor & Industries, Tacoma, WA**

**Board Members:**

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

**Other Attendees:**

Michael Carlson, State of Washington  
Tim Barker, FM Global\*  
Larry Leet, City of Seattle  
Calista Shoblom, State of Washington  
Bruce Weech, State of Washington  
Kim Heidebrink, Arise  
Steven Goehring, FM Global\*  
Richard Christner, Kapstone\*  
Brian Sinsel, Kapstone\*  
Israel Mathor, Kapstone\*  
Frank Hart, Kapstone\*  
Matthew Erlich, State of Washington  
Steve Robinson, Phillips 66\*  
Greg Waggoner, HSB\*  
Omar Garza, REC Silicon\*  
Ray Powell, REC Silicon\*

\* Attended Study Session only

\*\* Attended Board Meeting only

The Board of Boiler Rules Study Session was held on February 24, 2015, from 10:03 a.m. to 1:05 p.m.

The Board of Boiler Rules meeting was called to order by the Chair on February 25, 2015, at 10:04 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 November 4, 2014, meeting were reviewed and approved as written.

**Agenda Item 3.**

**Request for one time extension of internal inspection frequency for Kapstone Paper and Packaging Corp.**

Israel Mathov, representing Kapstone Paper, Longview, WA is seeking a one-time 6 month extension of the internal inspection frequency for their Combustion Engineering V2R chemical recovery boiler #20, State number 24404-76W currently due for internal inspection 09/14/2015. They need to align their shutdown schedule so they would have only one outage to deal with. The board reviewed the documents submitted, original MDR's, drawings, photos, and NDE reports (UT survey). All of the documents and NDE reports were found satisfactory to the

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board. Tim Barker, FM Global did confirm that as the Authorized Inspection Agency for this boiler, they support this extension, due to their first-hand experience inspecting this boiler. The board did notice that reports and evidence of water chemistry was missing from the package. Kapstone then initiated a call to Fred Rivers, (their Nalco representative) that handles their water treatment and has worked on this boiler for years. Fred confirmed that all the necessary and required tests and water treatment are being done and the test results have been stable and consistent.

The board approved the onetime extension contingent on their review of the water chemistry report Fred Rivers will be submitting. If the department finds a concern with this report then it will be addressed at the May meeting.

**Agenda Item 4.**

**WAC 296-104-405 Revision to address adding stress values and safety factor for cast iron construction**

Tim Barker, FM Global, proposed revising WAC 296-104-405 to address stress values and an increased factor of safety of 10 for cast iron constructed vessels. ASME UCI-23 requires a safety factor of 10 for cast iron, and Tim feels it's important to include this through this revision. Tim Barker asked if it was the intent of the board to utilize TAPPI Standards for the determination of the tensile strength for cast iron in dryer rolls.

Rob Olson suggested that instead of adding a safety factor of 10, that we address the tensile stress value for cast iron. The board also asked how this change would impact the owner/users of these cast iron dryer rolls. Tim will do more research on the correct tensile strength, and establishing a maximum allowable working pressure for these cast iron dryer rolls. Tim will also draft a version of this revision and then take to the stakeholders for their feedback, and bring forward a revised proposal at the May meeting. Having owner user support will be a big factor in getting this WAC revision approved.

This was a progress report.

**Agenda Item 5.**

**WAC 296-104-303 Revision clarification on emergency remote shut down switch**

Michael Carlson, Department of Labor & Industries, WA proposed revising WAC 296-104-303 in reference to the rule.

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WAC 296-104-303 Agency filings affecting this section

Installation—What control and limit devices are required on automatically fired boilers after December 2004?

In addition to those requirements listed in WAC 296-104-302, the following are also required with regard to installations or refits of gas, oil, or combinations of gas or oil:

(1) All automatically fired boilers with input greater than 400,000 Btu/hr, including electric boilers with input greater than 117 kW shall have a manually operated remote shutdown switch or circuit breaker.

**Activation of the emergency shutdown switch or circuit breaker shall immediately shut off the fuel or energy supply.** The shutdown switch should be located just outside the boiler room door and marked for easy identification. Consideration should be given to the type and location of the switch to safeguard against tampering. If the boiler room door is on the building exterior, the switch should be located just inside the door. If there is more than one door to the boiler room, there should be a switch located at each door.

(2) A means shall be provided for testing the operation of hot water heating boiler low-water fuel cutoff(s) without resorting to draining the entire system. Such means shall not render the device(s) inoperable. If the means temporarily isolates the device from the boiler during testing, it shall automatically return to its normal position.

After a brief discussion, the board recommended that in addition to the sentence added above, the phrase “in accordance of the manufacturers recommendation where applicable” be also added.

Department made the change the board recommended in revising the sentence:

Activation of the emergency shutdown switch or circuit breaker shall immediately shut off the fuel or energy supply and initiate the boiler shutdown sequence in accordance with manufacturers' recommendations.

The board accepted and approved the changes recommended for WAC 296-104-303.

**Agenda Item 6**

**WAC 296-104-100 (5)(b)(i) Revision to update NBIC and API 510 edition to Current Edition**

Michael Carlson, Department of Labor & Industries, WA proposed revising WAC 296-104-100(5)(b)(i) to change the reference to "NBIC or API-510 ninth edition with addenda" to read "NBIC or API current edition. This revision is consistent with the other WAC changes requested by the department since the current version of API-510 is automatically adopted by the NB Certified Owner/User Organizations in the state of Washington.

**Agenda Item 7**

**WAC 296-104-100(5)(b)(i) Revision to allow internal inspections on certain types of vessels to be at the discretion of the inspector**

This WAC revision was proposed by the state of Washington Boiler Inspectors and Supervisors, and sponsored by Tony Oda. The department and the Inspectors are in agreement that although they are considered in corrosive service, internal inspections on the vessels referenced in this

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WAC revision, expansion tanks, air separators, ammonia storage tanks, and hot water storage tanks are NOT being done on a routine basis. The majority of these vessels are considered throw away objects, as when they leak, they are discarded and replaced in kind. The procedure of conducting an internal inspection is typically not economically feasible and in some situations, do more damage to the vessel or system. The proposed revision still would allow the Inspector the option to require an internal inspection for cause.

WAC 296-104-100(5)(b)(i) revised to read:

When subject to corrosion and construction permits-Biennially, expansion tanks, air separators, ammonia storage tanks and hot water storage tanks may have internal inspections at the inspector's discretion.

Given this change, the inspector can decide if an internal is required. The board motioned to approve and accept this change.

**Agenda Item 8.**

**WAC 296-104-700 Revision to fee schedule**

The department provided a revised fee schedule with the fiscal growth factor of 4.333% added for the board's approval and fiscal graphs. It has been over three years since the last increase. The permit fee hasn't been increased since 2001, it is still at \$50.00. The department provided spreadsheets for the last biennium that showed a steady, slow decrease in the department's operating budget. The department and L & I's fiscal office strongly recommends growth factor be approved for this cycle.

Jeff Barnes would like a report on the status of the budget after June 30. The board motioned to approve and accept the fee changes.

**Department Notes:**

Robert Olson, representative for Manufacturers and Larry Trenda, representative for Mechanical Engineers have their Board of Boiler Rules terms expiring August 22, 2015. The Governor's Board Commissions office will be responsible for filling these two vacancies. The department would like to thank both Rob and Larry for their service and major contributions to insuring public safety for the last 8 years.

WSBIA 51st Annual Technical Meeting is on April 16, 2015. April 15, 2015 is the Inspector training at the Renton Technical College.

Board members credentials have been verified that they are up to date.

Transfuel has informed the department that they have followed through on their commitment to NB register their ASME Code built vessels and now have assigned the NB number to these vessels.

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The draft rule language is going to public hearing in May.

We did see there were a couple of errors:

Pg. 14: SBI to accept that and change "shall" to "may".

Pg. 16: Got rid of ninth edition with addenda and put current edition instead.

Pg. 18: We added and initiate the boiler shutdown sequence in accordance to the manufacturer's recommendations.

Discussion on Senate Bill SSB5234 for Hobby Boilers. If they currently have a valid state certificate from their last inspection then they will be exempt from any future inspections. The certificate has no expiration date.

Next meeting to discuss who the new chair will be.

Meeting adjourned at 11:47 a.m.