



Annual Meeting

**The Coeur `d Alene Resort**

**Coeur `d Alene, Idaho**

*March 7, 8 & 9, 2017*

**MEETING MINUTES**

***Click the Presentation Title to open the presentation's .pdf***  
***Click the Company Name to open their web page***

## **Tuesday March 7, 2017**

- Introduction of Attendees and Steering Committee
- Legal Presentation: “The Western Regional Boiler Association is a non-profit organization and follows the laws as such. Engaging in price-fixing activities while at this event is prohibited.”
- Financial Report
- Review of Agenda / Announcements

**Presentation #1: [Montrose Air Quality Services](#) / [Ramboll](#)-  
[“MACT rules 1<sup>st</sup> half”](#)      [“MACT rules 2<sup>nd</sup> half”](#)**

*No questions were asked*

**Presentation #2: [Detroit Stoker](#) –  
[“Cost effective equipment retrofits for emissions compliance”](#)**

*Question #1: Do you still rake the grates?*

*Answer #1: There is no need to; the intent is that they are automatic*

*Question #2: What is the life expectancy?*

*Answer #2: There are a lot of factors that play into life expectancy, so it's hard to say. The average life expectancy when using hot fuel ranges from around 3-5 years.*

*Question #3: What was your NOx target?*

*Answer #3: We were not given a NOx target. There is no report of the results.*

**Presentation #3: [PCE Pacific](#) / [Emerson](#) –  
[“Modern combustion solutions to match today's mandates”](#)**

*No questions were asked*

**Presentation #4: [Jansen Combustion and Boiler Technologies, Inc.](#)  
**Port Townsend Paper's boiler MACT success story, Part 1:**  
[“Combustion system upgrade”](#)**

**Presentation #5: [Dresser-Rand](#) –  
[“Turbine retrofit and generators”](#)**

*No questions were asked*

## Wednesday March 8, 2017

**Presentation #6: [Loprest Water Treatment Company](#) –  
[“Pre-treatment and post-treatment of Reverse Osmosis Systems”](#)**

*No questions were asked*

**Presentation #7: [Columbia Water Technologies](#) –  
[“Reverse Osmosis Operations”](#)**

*No questions were asked*

**Presentation #8: [Nalco](#) –  
[“Boiler scale and it’s effect on boiler efficiency and reliability”](#)**

*No questions were asked*

**Presentation #9: [Evergreen Engineering, Inc.](#) –  
[“Mechanical integrity inspections of pressure vessels, piping and storage tanks”](#)**

*Question #1: What special procedures do you use to minimize propagation?*

*Answer #1: If the crack is really bad, I may just re-fuse additional metal to seal it. If it’s a small crack I would just smooth out the material to cover it and seal it.*

*Question #2: How successful are you in tracking the cause of a crack?*

*Answer #2: I don’t always know why they are caused. I first look at any thermal or chemical fatigue to figure it out.*

**Presentation #10: [Mechanical Dynamics & Analysis](#) –  
[“Turbine/generator maintenance schedules to avoid the most common problems”](#)**

*No questions were asked*

## Thursday March 9, 2017

**Presentation #11: [Kamengo](#) –  
[“Hog fuel bin design”](#)**

*Question #1: How does the feeder deliver the fuel in the bin evenly?*

*Answer #1: It takes even slices from the bottom. You need to load it carefully and evenly though. I haven’t had any complaints about the feeders clogging.*

*Question #2: Have you had any issues with hog fuel freezing to the sides?*

*Answer #2: I haven’t had that problem. I use a wall friction test to choose the angle of the bin and the liner. I usually use a UHMW liner.*

**Presentation #12: Corrosion Monitoring Services –  
“Air heater leakage”**

*No questions were asked*

**Presentation #13: ProcessBarron –  
“Fan Efficiency”**

*No questions were asked*

**Presentation #14: Clyde Bergemann Power Group -  
“Rebuild vs. replacing your ESP”**

*No questions were asked*

**Presentation #15: Blasting Solutions, inc –  
“Boiler blasting”**

*Question #1: Do the projectiles burn up?*

*Answer #2: Yes, because of the plastic they are made of. We need to make sure we have a clear line of sight and we can fire them over and over until we knock all of the slag off. They can travel up to 250-300 yards.*

*Question #2: Can you knock slag off refractory?*

*Answer #2: Yes, but we need to be careful with the amount of pressure we use and what type of materials. We have tools to gauge the pressure.*

*Question #3: Can falling slag cause damage to tubes?*

*Answer #3: Slag generally won't fall and cause damage. In coal burners it can happen and in cases where it looks like it may, we carefully section off small pieces of the slag and knock them down. A fire hose can work better sometimes.*

**GENERAL DISCUSSION  
GRAND PRIZE DRAWING**

**CONFERENCE ADJOURNMENT**