

TO: Recovery Boiler Managers, Superintendents, Supervisors, Steam Chiefs, AF&PA Recovery Boiler Members, and Other Recovery Boiler Professionals

2021 FALL AF&PA RECOVERY BOILER
OPERATIONAL SAFETY SEMINARS
& REVIEW OF AF&PA - BLRBAC
GUIDELINES
ON-LINE VIRTUAL FORMAT

PLEASE MARK YOUR CALENDAR AND PLAN FOR YOUR OPERATORS, SUPERVISORS, MAINTENANCE PROFESSIONALS, AND ENGINEERS TO ATTEND THESE INFORMATIVE ON-LINE SEMINARS WITH <u>SIX (6) ALL NEW BLRBAC INCIDENT TEAM EXERCISES FOR THE 2021 FALL SAFETY SEMINARS.</u>

September 22, 2021 (7:45 a.m. - 5:00 p.m.) <u>Eastern Daylight Savings Time</u> (UTC/GMT -4 hours) October 27, 2021 (7:45 a.m. - 5:00 p.m.) <u>Pacific Daylight Savings Time</u> (UTC/GMT -7 hours)

Unfortunately, a recovery boiler explosion occurred in North America in 2020. In 2020, there were 37 incidents in the USA and Canada reported to BLRBAC. Of these, 10 incidents were classified as critical. Some of these incidents were considered very serious and it was lucky there were no additional explosions. BLRBAC defines "critical" as meaning water entered the unit forward of isolating baffles, and there was a potential of an explosion. Training and reaction to the situations apparently saved the day in many cases. Learning to recognize the situation before it becomes critical is a big part of the battle. With the increased number of new people or less experienced people working in the recovery boiler area, companies are realizing the need for more training. Of the incidents reported last year, 76% were discovered by "walk-downs", thus finding small problems before turning into large problems.

Although no dissolving tank explosions were reported last year, the AF&PA Recovery Boiler Committee feels there have been more upsets in this area that are not reported. Since 2015, 4 dissolving tank explosions have been reported to BLRBAC. AF&PA continues to study the dissolving tank explosion issue to reduce these upsets and to develop best practices to safely operate dissolving tanks.

Much is learned from the reported incidents. The Committee feels that more mills are realizing the need for people operating boilers to further their knowledge and understanding of the safe operation of recovery boilers. As we see, most pressure part leaks are still found during operator "walk-downs" which supports the conclusion that the operators are more aware of what, where, and how to look for leaks, and to find them as early as possible. The greatest challenge we face in the recovery boiler operation is the recognition of major tube leaks followed by the operator's correct and timely reaction to the emergency. The seminars focus on the proper training and handling of these upset situations to minimize exposure to personnel; reduce injuries; as well as down time and damage. The outstanding dialogue among attendees was again cited as a key factor in responses rating the seminars as "Excellent." The responses repeatedly mentioned that the **main objective of the seminars** - the need to **increase awareness in safely operating the boilers** - **as most important.**

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Thus, with the above factors heard from the mills, there is greater emphasis for these seminars. The cost for someone attending these seminars is rather small compared to the possible injuries and costs of an upset in the boiler. Based on inquiries already received, we anticipate very good attendance from Operators, Supervisors, Maintenance Professionals, Engineers, and Managers. The Seminars are planned for active participation by each attendee. Therefore, to provide a program most beneficial to all, we try to limit attendance at each seminar. The Seminars will be in a remote, virtual, on-line format again this Fall. Seminars are offered in both North American Eastern Daylight Savings Time (September 22, 2021) and North American Pacific Daylight Savings Time (October 27, 2021) to accommodate multiple time zones. A registration form and agendas for each seminar are enclosed.

The registration fee for each Recovery Boiler Operational Safety Seminar is <u>only \$200 per person</u> for AF&PA Recovery Boiler Program Member Companies (\$400 per person for Non-Member Companies). Please complete the enclosed registration form indicating which Seminar you wish to attend and return it to me along with your registration fee made payable to "AF&PA". Registration for each Seminar will be on a first-come first-served basis. The attached form can be completed and returned to me as soon as you know by email or sent by mail to the address indicated on the form. To register by phone, call: Wayne Grilliot at (937) 602-1892.

The Operational Safety Seminars will be conducted on-line using Webex Video and Audio Conferencing. You do not need to subscribe to Webex to join the Safety Seminars. To use Webex, you can either download the Webex software to your computer (Use desktop app) option when prompted in the pop-up after clicking the Webex Link that will be provided or you can choose to use your Browser (Use web app) option which is listed under the (Use desktop app) option in the pop-up. With the (Use web app) option, you do not need to download the Webex software. Please check with your IT Group to make sure the Webex software is allowed on your company computers. If the Webex software is not allowed on your company computers, you will need to use the (Use web app) option. Both options are usually straightforward and normally do not require anything special, but it is best to test it prior to the seminar. There is no download or connection fee from Webex to participate. A computer with an internet connection and microphone & speaker enabled are required to participate in the Safety Seminars. A computer camera enabled is preferred, but not required. I will be available if you wish to test the Webex connection with your computer & conference room equipment prior to the session, just contact me at wayne_grilliot@afandpa.org or (937) 602-1892 to set up a time.

The Seminars will start with everyone in one large group (the Main Seminar Session). For the Recovery Boiler BLRBAC Incidents Team Exercises, the participants will automatically be grouped into smaller, preassigned Breakout Team Sessions. After the scheduled Breakout Team Session time, all participants will automatically rejoin the Main Seminar Session to report out and discuss their recommendations with the other participants. The transition between sessions should happen seamlessly for the participants. The sessions will not be recorded. Additional details and Seminar materials will be provided to the registrants prior to the Safety Seminars.

If there are any questions concerning this Seminar, please do not hesitate to contact me at: wayne grilliot@afandpa.org or (937) 602-1892. Thank you.

Attachments:

Registration Form; September 22, 2021 Safety Seminar Agenda; October 27, 2021 Safety Seminar Agenda; and Operating Problems Discussion Suggestion Sheet

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REGISTRATION FORM

AF&PA RECOVERY BOILER PROGRAM 2021 FALL VIRTUAL OPERATIONAL SAFETY SEMINARS & REVIEW OF AF&PA AND BLRBAC GUIDELINES

The Seminars are offered in North American Eastern Daylight Savings Time (September 22, 2021) & Pacific Daylight Savings Time (October 27, 2021) to accommodate multiple time zones. For multiple participants from a single location, registration fees are based on per participant, not per internet connection.

We plan to have (number of people)	_ participate in the 2021 Fall Operational Safety Seminars.				
September 22, 2021 (number of people)	October 27, 2021 (number of people)				
Registration fee <u>\$200 (USD) per person</u> for AF&PA Recovery Boiler Program Member Companies Registration fee for Non-Member Companies is \$400 (USD) per person.					
Telephones:Cell Phones:					
Date: Let us know of any special requests: Please make checks payable to: AF&PA					
Please return this form and payment by Email or Mail to: AF&PA - Recovery Boiler Program Attn: Wayne Grilliot C/O: Program Excellence, LLC 712 Murrell Drive Kettering, OH 45429 Email: wayne_grilliot@afandpa.org	If paying by credit card (please provide the following) Type of credit card: Credit card number: Expiration date: Card verification code (CVC): Full name on the card: Amount to be charged to credit card: Name: Email: Telephone:				
To register by phone, call: Wayne Grilliot (937) 602-1892	Mobile:				



September 22, 2021 7:45 a.m. – 5:00 p.m. (EDT) (UTC/GMT -4 hours)

On-Line Safety Seminar

Eastern Daylight Savings Time

AGENDA

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7:45 – 8:00 a.m.	Sign-in / Verify Computer Connections & Seminar Materials • Wayne Grilliot – AF&PA Recovery Boiler Program	
8:00 a.m.	 Welcome, Opening Remarks, AF&PA Antitrust Policy, Process, Introductions Explanation and Outline of Seminar / Review Format by Monitors John Andrews BLRBAC ESP Subcommittee Chairman Boiler Services & Inspection, LLC (BSI) Dean Clay BLRBAC ESP Secretary Boiler Services & Inspection, LLC (BSI) 	
8:15 a.m.	BLRBAC 2020 Incident Summary Review • John Andrews	
8:45 a.m.	 Interlocks and interlock bypassing – Dean Clay Purpose of interlocks Major interlock systems on recovery boilers Specific procedures employed when interlocks are not functioning 	
9:00 a.m.	Review of ESP Subcommittee Learnings from Reported Incidents • John Andrews	
9:30 a.m.	Recovery Boiler Incidents 1, 2, & 3 – Team Assignments & Breakout Sessions • 50 Minutes	
10:20 a.m.	Team reports and Open Discussions of Incidents 1, 2, & 3	
11:40 a.m.	Recovery Boiler Explosion History – Prevention (Part 1) Pyrolysis Gas, RB Safety Audits, BLRBAC and AF&PA Resources • Dean Clay	
12:00 Noon	60 Minute Break	



<u>September 22, 2021</u> 7:45 a.m. – 5:00 p.m. (EDT)

(UTC/GMT -4 hours)

On-Line Safety Seminar

Eastern Daylight Savings Time

AGENDA / (cont.)

1:00 p.m.	Questions from the morning session? / Explanation of afternoon's activities
1:05 p.m.	Recovery Boiler Explosion History – Prevention (Part 2) Pyrolysis Gas, RB Safety Audits, BLRBAC and AF&PA Resources • Dean Clay
1:30 p.m.	Analysis of Dissolving Tank Explosions - Prevention • John Andrews
2:00 p.m.	Recovery Boiler Incidents 4, 5, & 6 – Team Assignments & Breakout Sessions • 45 Minutes
2:45 p.m.	Team reports and Open Discussions of Incidents 4, 5, & 6
3:55 p.m.	Review of submitted "Operating Problems - Discussion Suggestion Sheets" and any other questions
4:10 p.m.	 Leak Detection Systems – Dean Clay What are the signs of a leak in the control room? Indications of a Pressure Part Leak Decision Time Best Practices and use of Decision Charts
4:35 p.m.	 "Root Cause" - Five key problem areas (Training, Maintenance, Staff Support, Personnel Qualifications, and Production Pressure). Summary and discussion. John Andrews
4:55 p.m.	Closing remarks
5:00 p.m.	Adjourn



October 27, 2021 7:45 a.m. – 5:00 p.m. (PDT) (UTC/GMT -7 hours)

On-Line Safety Seminar

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(UTC/GMT -7 hours)

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OPERATING PROBLEMS DISCUSSION SUGGESTION SHEET

Please take a moment to share your thoughts!!!

Just jot down some things that you would like to have discussed!!!

SUCCESSES	
CHALLENGES	
QUESTIONS	
	ISSUES

POSSIBLE TOPICS: Precipitators, carbon steel, sootblowers, steam outs, instrumentation, ID fan, green liquor, FD fan, burner management, hoppers, superheater, water wash, cyclone evaporator, egress, insurance, spout cooling, qualification, plugging, generating bank, density, lagging, corrosion, combustibles, ESP, blowdown, pumps, capacity, agitators, metal spray, NDE, scaffolding, refractory temperature, agitators, drum level, air heater, emergency, personnel, atomizing steam, nozzles, sarco strainer, safety shut/off valves, smelt, near drum corrosion, double valve and tell-tale, refractory temperature, metal spray, flame detector, studs, fire protection, sprayer plates.

Completed forms may be submitted prior to the seminar. Send to: <u>wayne_grilliot@afandpa.org</u> Questions may also be submitted in the Webex chat session any time during the Seminar.

Also, please offer your suggestions of how to improve these Operational Safety Seminars. Thank you.

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