

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

2023 FALL AF&PA RECOVERY BOILER OPERATIONAL SAFETY SEMINARS & REVIEW OF AF&PA - BLRBAC GUIDELINES <u>BOTH</u> VIRTUAL & IN-PERSON FORMATS

Please Mark Your Calendar and Plan for Your Operators, Supervisors, Maintenance Professionals, and Engineers to Attend These Informative Seminars with <u>Eight (8) New BLRBAC Incident Team</u> <u>Exercises for the 2023 Safety Seminars.</u> These eight (8) case studies were also used in the 2023 Spring Safety Seminars. Eight (8) all new case studies are used each year.

- September 20, 2023 (7:45 am 4:30 pm) <u>Eastern Time</u> <u>Online</u> Virtual Format
- October 4-5, 2023 <u>Eastern Time</u> Sonesta Atlanta Airport North <u>In-Person</u> Format

 (The October Seminar Starts at 1:00 pm, after 2023 Fall BLRBAC Adjourns)
- November 2, 2023 (7:15 am 4:00 pm) <u>Pacific Time</u> <u>Online</u> Virtual Format
 - This is (10:15 am 7:00 pm) in Eastern Time

Unfortunately, a Recovery Boiler explosion occurred in North America in 2020. In 2022, there were 51 incidents in the USA and Canada reported to BLRBAC. Of these, 15 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, 71% were discovered by "walk-downs", thus finding small problems before turning into large problems.

There was one Dissolving Tank significant incident 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 Recovery 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 <u>main objective of the Seminars</u> - the need to <u>increase awareness in safely operating Recovery Boilers - as most important.</u>



Thus, with the above factors heard from the mills, there is greater emphasis for these Seminars. The cost for someone attending these Safety Seminars is rather small compared to the possible injuries and costs of an upset in a Recovery Boiler. Based on inquiries already received, we anticipate very good attendance from Operators, Supervisors, Superintendents, Maintenance Professionals, Engineers, Steam Chiefs, and Managers. The Safety Seminars are planned for <u>active participation by each attendee.</u>

The Safety Seminars are being offered in <u>BOTH</u> remote <u>Virtual Online</u>, and <u>In-Person</u> Formats. Seminars are also offered in both North American <u>Eastern Time</u> and North American <u>Pacific Time</u> to accommodate multiple time zones. Registration forms and agendas for each Safety Seminar are enclosed.

For the Virtual Online Safety Seminars (September 20, 2023 & November 2, 2023), the registration fee for the Recovery Boiler Operational Safety Seminar is <u>only \$250 per person</u> for AF&PA Recovery Boiler Program Member Companies (\$500 per person for Non-Member Companies).

For the In-Person Safety Seminar (October 4-5, 2023) at the Sonesta Atlanta Airport North, the registration fee for the Recovery Boiler Operational Safety Seminar is <u>only \$500 per person</u> for AF&PA Recovery Boiler Program Member Companies (\$1,000 per person for Non-Member Companies). This Safety Seminar is being held at the same hotel as the 2023 Fall BLRBAC Meeting and starts at 1:00 pm Wednesday after the BLRBAC Meeting adjourns.

Please complete an enclosed registration form indicating which Safety Seminar you wish to attend and return it to me along with your registration fee made payable to "AF&PA". The attached Registration Forms 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.

Note: Registration is limited to members of Companies and Mills that operate Recovery Boilers.

The Virtual Online Operational Safety Seminars will be conducted online 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 when prompted in the pop-up after clicking the Webex Link that will be provided or you can choose to use the Browser option which is listed under the Download option in the pop-up. With the Browser 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 Browser 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 team's findings & recommendations with the other participants. The transition between sessions should happen seamlessly for the participants. Additional details and Seminar materials will be provided to the registrants prior to the Safety Seminars.



For the In-Person Safety Seminar (October 4-5, 2023) at the Sonesta Atlanta Airport North, we have been fortunate to receive a special rate of \$141.00 (USD), plus taxes, for a standard guest room. This Group Rate applies to reservations made directly with the hotel and not through commission-based travel agencies. A block of rooms has been set aside for October 3rd through October 5th. Hotel reservations may be made by calling **1 (833) 435-0620** but you must request the <u>"BLRBAC Meeting" Group</u> rate. You may also directly contact Marcella Robinson, Complex Group Sales Manager, at 1 (404) 704-1424 or <u>marcella.robinson@sonesta.com</u> for any additional assistance with room reservations. Reservations can also be made online through the following link: <u>BLRBAC Fall 2023</u> For your convenience, this link can be used to make hotel reservations for either or both the October 4-5 Safety Seminar & 2023 Fall BLRBAC Meeting. Additional Hotel Reservation Information is enclosed.

The cut-off date for the hotel special rate is <u>Wednesday</u>, September 20, 2023 – 5:00 pm Eastern Time. Reservations made after that date will be on an "as available" basis only and possibly at a higher rate. <u>The</u> special room rate is available until Wednesday, September 20, 2023 – 5:00 pm Eastern Time or until the group block is sold-out, whichever comes first.

If there are any questions concerning these Recovery Boiler Safety Seminars, please do not hesitate to contact me at: wayne_grilliot@afandpa.org or (937) 602-1892. Thank you.

Attachments:

- Virtual Online Safety Seminar Registration Form (September 20, 2023 & November 2, 2023)
- In-Person Safety Seminar Registration Form (October 4-5, 2023)
- September 20, 2023 Safety Seminar Agenda
- October 4-5, 2023 Safety Seminar Agenda
- November 2, 2023 Safety Seminar Agenda
- Operating Problems Discussion Suggestion Sheet



REGISTRATION FORM FOR THE (VIRTUAL ONLINE) SAFETY SEMINARS 2023 FALL OPERATIONAL SAFETY SEMINARS & REVIEW OF AF&PA AND BLRBAC GUIDELINES

The Safety Seminars are offered in both North American **Eastern Time** & North American **Pacific Time**. For Multiple Participants from a single location, registration fees are based on per participant.

We plan to have (number of people) _____ participate in the 2023 Fall Online Virtual Operational Safety Seminars.

September 20, 2023 (number of people)	
<u>Online</u> : 7:45 am – 4:30 pm <u>Eastern Time</u>	

November 2, 2023 (number of people) <u>Online: 7:15 am – 4:00 pm Pacific Time</u> o 10:15 am – 7:00 pm in <u>Eastern Time</u>

Registration fee <u>\$250 (USD) per person</u> for AF&PA Recovery Boiler Program Member Companies. Registration fee for Non-Member Companies is \$500 (USD) per person.

Attendees (Attendee substitutions, due to mill scheduling changes or any reason, can be made any time)

Names:			
Titles:			
Emails:			
Telephones:			
Cell Phones:			
Company:	_		
Mill:	_		
Address:			
	_		
	 _		
	Ī	Date:	

Let us know of any special requests:

Please return this form and payment	Please make checks payable to: AF&PA
by Email or Mail to:	Name:
	Email:
AF&PA Recovery Boiler Program	Telephone:
C/O: Program Excellence, LLC	Mobile:
Attn: Wayne Grilliot, Manager	Call Wayne Grilliot at (937) 602-1892, if you prefer to
712 Murrell Drive	provide your credit card information by phone.
Kettering, Ohio 45429	If paying by credit card (please provide the following)
	Type of credit card:
Email: wayne_grilliot@afandpa.org	Credit card number:
	Card verification code (CVC):
To register by phone, call:	Card expiration date:
Wayne Grilliot (937) 602-1892	Full Name on the card:
· · · · ·	Amount to be charged to credit card:
Let me know if you have questions	

Let me know if you have questions. Thank you!



REGISTRATION FORM FOR THE (IN-PERSON) SAFETY SEMINAR 2023 FALL OPERATIONAL SAFETY SEMINAR & REVIEW OF AF&PA AND BLRBAC GUIDELINES

This Seminar is scheduled for 2-Half Day Sessions. The Day #1 session starts at 1:00 pm Wednesday, after the 2023 Fall BLRBAC Meeting adjourns and is scheduled from 1:00 pm to 5:00 pm. The Day #2 session is scheduled from 8:00 am to 12:00 Noon (Eastern Time).

We plan to have the following number of people participate in the 2023 Fall In-Person Safety Seminar.

October 4-5, 2023 (number of people) ______ <u>In-Person</u> Safety Seminar at the Sonesta Atlanta Airport North, <u>Eastern Time</u>

Registration fee <u>\$500 (USD) per person</u> for AF&PA Recovery Boiler Program Member Companies. Registration fee for Non-Member Companies is \$1,000 (USD) per person.

Attendees (Attendee substitutions, due to mill scheduling changes or any reason, can be made any time)

Names:				
Titles:				
E MAUS.				
Telephones:				
Cell Phones:				
Company:				
Mill:				
Address				
]	Date:	
Let us know of any dietary res	strictions or specia	l requests:		

Please return this form and payment	Please make checks payable to: AF&PA
by Email or Mail to:	Name:
	Email:
AF&PA Recovery Boiler Program	Telephone:
C/O: Program Excellence, LLC	Mobile:
Attn: Wayne Grilliot, Manager	Call Wayne Grilliot at (937) 602-1892, if you prefer to
712 Murrell Drive	provide your credit card information by phone.
Kettering, Ohio 45429	If paying by credit card (please provide the following)
<u> </u>	Type of credit card:
Email: wayne_grilliot@afandpa.org	Credit card number:
	Card verification code (CVC):
To register by phone, call:	Card expiration date:
Wayne Grilliot (937) 602-1892	Full Name on the card:
•	Amount to be charged to credit card:
Let me know if you have questions.	

Thank you!



September 20, 2023

7:45 am – 4:30 pm (EDT)

(International Coordinated Universal Time Zone: -4 hours)

Online Safety Seminar

Eastern Daylight Saving Time

AGENDA

7:45 – 8:00 am	 Sign-in / Verify Computer Connections & Seminar Materials Wayne Grilliot – AF&PA Recovery Boiler Program
8:00 am	 Welcome, Opening Remarks, AF&PA Antitrust Policy, Process, Introductions Explanation and Outline of Seminar / Review Format by Monitors John Andrews Former BLRBAC ESP Subcommittee Chairman Boiler Services & Inspection, LLC (BSI) Dean Clay BLRBAC ESP Subcommittee Secretary Boiler Services & Inspection, LLC (BSI)
8:10 am	BLRBAC 2022 Incident Summary ReviewJohn Andrews
8:40 am	 Interlocks and Interlock Bypassing – Dean Clay Purpose of interlocks Major interlock systems on Recovery Boilers Specific procedures employed when interlocks are not functioning
8:55 am	Review of ESP Subcommittee Learnings from Reported IncidentsJohn Andrews
9:25 am	 Recovery Boiler BLRBAC Incidents 1, 2, 3, & 4 – Breakout Team Assignments 35 Minutes
10:00 am	10 Minute Break
10:10 am	Team Report Outs and Open Discussions of BLRBAC Incidents 1, 2, 3, & 4
11:50 am	 Recovery Boiler Explosion History – Prevention (Part 1) Pyrolysis Gas, Recovery Boiler Safety Audits, BLRBAC and AF&PA Resources Dean Clay
12:00 Noon	30 Minute Break



September 20, 2023

<u>7:45 am – 4:30 pm (EDT)</u> (International Coordinated Universal Time Zone: -4 hours)

Online Safety Seminar

Eastern Daylight Saving Time

AGENDA / (cont.)

12:30 pm	Questions from the morning session? / Explanation of afternoon's activities
12:35 pm	 Recovery Boiler Explosion History – Prevention (Part 2) Pyrolysis Gas, Recovery Boiler Safety Audits, BLRBAC and AF&PA Resources Dean Clay
1:10 pm	Analysis of Dissolving Tank Explosions - PreventionJohn Andrews
1:30 pm	 Recovery Boiler BLRBAC Incidents 5, 6, 7, & 8 – Breakout Team Assignments 35 Minutes
2:05 pm	10 Minute Break
2:15 pm	Team Report Outs and Open Discussions of BLRBAC Incidents 5, 6, 7, & 8
3:45 pm	 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
4:05 pm	 Opportunities to Improve Recovery Operations - Summary and Discussion John Andrews
4:15 pm	Review of Submitted "Operating Problems - Discussion Suggestion Sheets" and any other Questions
4:25 pm	Closing Remarks
4:30 pm	Adjourn



<u>October 4, 2023</u> <u>1:00 pm – 5:00 pm (Eastern Time)</u> <u>Sonesta Atlanta Airport North</u> <u>Crawford Room</u>

AGENDA (In-Person Safety Seminar)

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1:00 pm	 Register / Team Assignments / Seminar Materials Wayne Grilliot – AF&PA Recovery Boiler Program 		
1:10 pm	 Welcome, Opening Remarks, AF&PA Antitrust Policy, Process, Introductions Explanation and Outline of Seminar / Review Format by Monitors John Andrews Former BLRBAC ESP Subcommittee Chairman Boiler Services & Inspection, LLC (BSI) Dean Clay BLRBAC ESP Subcommittee Secretary Boiler Services & Inspection, LLC (BSI) 		
1:20 pm	BLRBAC 2022 Incident Summary ReviewJohn Andrews		
1:50 pm	 Interlocks and Interlock Bypassing – Dean Clay Purpose of interlocks Major interlock systems on Recovery Boilers Specific procedures employed when interlocks are not functioning 		
2:05 pm	Review of ESP Subcommittee Learnings from Reported IncidentsJohn Andrews		
2:30 pm	 Recovery Boiler BLRBAC Incidents 1, 2, 3, & 4 – Breakout Team Assignments 35 Minutes 		
3:05 pm	10 Minute Break		
3:15 pm	Team Report Outs and Open Discussions of BLRBAC Incidents 1, 2, 3, & 4		
4:50 pm	 Recovery Boiler Explosion History – Prevention (Part 1) Pyrolysis Gas, Recovery Boiler Safety Audits, BLRBAC and AF&PA Resources Dean Clay 		
5:00 pm	Adjourn		
6:00 pm	Dinner – Crawford Room		
Wayne Grilliot	(937) 602-1892 Email: wayne_grilliot@afandpa.org 8/7/2023 Page 8 of 13		



<u>October 5, 2023</u> <u>7:00 am – 12:00 Noon (Eastern Time)</u> Sonesta Atlanta Airport North <u>Crawford Room</u>

In-Person Safety Seminar AGENDA / (cont.)

7:00 am	Continental Breakfast
8:00 am	Questions from the yesterday's session? / Explanation of today's activities
8:05 am	 Recovery Boiler Explosion History – Prevention (Part 2) Pyrolysis Gas, Recovery Boiler Safety Audits, BLRBAC and AF&PA Resources Dean Clay
8:40 am	Analysis of Dissolving Tank Explosions - PreventionJohn Andrews
9:00 am	 Recovery Boiler BLRBAC Incidents 5, 6, 7, & 8 – Breakout Team Assignments 35 Minutes
9:35 am	10 Minute Break
9:45 am	Team Report Outs and Open Discussions of BLRBAC Incidents 5, 6, 7, & 8
11:15 am	 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
11:35 am	Opportunities to Improve Recovery Operations - Summary and DiscussionJohn Andrews
11:45 am	Review of Submitted "Operating Problems - Discussion Suggestion Sheets" and any other Questions
11:55 am	Closing Remarks
12:00 Noon	Adjourn



November 2, 2023

<u>7:15 am – 4:00 pm (PDT)</u>

(International Coordinated Universal Time Zone: -7 hours)

Online Safety Seminar

Pacific Daylight Saving Time

AGENDA

7:15 – 7:30 am	 Sign-in / Verify Computer Connections & Seminar Materials Wayne Grilliot – AF&PA Recovery Boiler Program
7:30 am	 Welcome, Opening Remarks, AF&PA Antitrust Policy, Process, Introductions Explanation and Outline of Seminar / Review Format by Monitors John Andrews Former BLRBAC ESP Subcommittee Chairman Boiler Services & Inspection, LLC (BSI) Dean Clay BLRBAC ESP Subcommittee Secretary Boiler Services & Inspection, LLC (BSI)
7:40 am	BLRBAC 2022 Incident Summary ReviewJohn Andrews
8:10 am	 Interlocks and Interlock Bypassing – Dean Clay Purpose of interlocks Major interlock systems on Recovery Boilers Specific procedures employed when interlocks are not functioning
8:25 am	Review of ESP Subcommittee Learnings from Reported IncidentsJohn Andrews
8:55 am	 Recovery Boiler BLRBAC Incidents 1, 2, 3, & 4 – Breakout Team Assignments 35 Minutes
9:30 am	10 Minute Break
9:40 am	Team Report Outs and Open Discussions of BLRBAC Incidents 1, 2, 3, & 4
11:20 am	 Recovery Boiler Explosion History – Prevention (Part 1) Pyrolysis Gas, Recovery Boiler Safety Audits, BLRBAC and AF&PA Resources Dean Clay
11:30 am	30 Minute Break



November 2, 2023

<u>7:15 am – 4:00 pm (PDT)</u> (International Coordinated Universal Time Zone: -7 hours)

Online Safety Seminar

Pacific Daylight Saving Time

AGENDA / (cont.)

12:00 Noon	Questions from the morning session? / Explanation of afternoon's activities
12:05 pm	 Recovery Boiler Explosion History – Prevention (Part 2) Pyrolysis Gas, Recovery Boiler Safety Audits, BLRBAC and AF&PA Resources Dean Clay
12:40 pm	Analysis of Dissolving Tank Explosions - PreventionJohn Andrews
1:00 pm	 Recovery Boiler BLRBAC Incidents 5, 6, 7, & 8 – Breakout Team Assignments 35 Minutes
1:35 pm	10 Minute Break
1:45 pm	Team Report Outs and Open Discussions of BLRBAC Incidents 5, 6, 7, & 8
3:15 pm	 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
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3:45 pm	Review of Submitted "Operating Problems - Discussion Suggestion Sheets" and any other Questions
3:55 pm	Closing Remarks
4:00 pm	Adjourn



HOTEL RESERVATION INFORMATION AF&PA RECOVERY BOILER PROGRAM 2023 IN-PERSON RECOVERY BOILER SAFETY SEMINAR

<u>October 4-6, 2023</u> Sonesta Atlanta Airport North Atlanta, Georgia

Please make Reservations Directly with the Hotel.

The special room rate is available until <u>Wednesday</u>, <u>September 20, 2023 – 5:00 pm Eastern Time</u> or until the group block is sold-out, whichever comes first.

To make Hotel Reservations, Contact:	Sonesta Atlanta Airport North
	1325 Virginia Avenue
	Atlanta, GA 30344
	Telephone: 1 (833) 435-0620

Reservations can also be made <u>online</u> through the following link: <u>BLRBAC Fall 2023</u> For your convenience, this link can be used to make hotel reservations for either or both the October 4-5 Recovery Boiler Operational Safety Seminar & 2023 Fall BLRBAC Meeting.

ROOM RATE: Standard Guest Room <u>\$141.00 (USD), plus tax</u>. When calling: Request the <u>"BLRBAC Meeting" Group</u> rate and provide the following information.

Arrival Date:	Number in Party:	
Departure Date:		
Credit Card Number (If charging to	a credit card)	
(Please indicate type of card and exp	piration date.)	
Name:		
Company:		
Address:		
Telephone:		

Please make sure to guarantee the room for late arrival.

The Sonesta Atlanta Airport North is conveniently located near the Hartsfield-Jackson Atlanta International Airport. Hotel shuttles leave every 30 minutes between 4:00 am and 2:00 am. The TSA lines at the Hartsfield-Jackson Atlanta International Airport can be long at times. Airlines recommend being at the airport 2 hours prior to your flight time for USA domestic flights and 3 hours prior to your flight time for international flights.

If you have any questions or problems regarding the hotel reservations, please do not hesitate to contact me at: wayne_grilliot@afandpa.org or (937) 602-1892. You may also directly contact Marcella Robinson, Complex Group Sales Manager, at 1 (404) 704-1424 or <u>marcella.robinson@sonesta.com</u> for any additional assistance with room reservations.



OPERATING PROBLEMS

DISCUSSION SUGGESTION SHEET

Please take a moment to share your thoughts!!! Just jot down some things 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 Safety Seminar.

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