FOR THE CASE OF Board of Boiler Rules Meeting

TRANSCRIPT OF

September Meeting

September 20, 2017

Stone & George COURT REPORTING

2020 Fieldstone Pkwy

Suite 900 - PMB 234

Franklin, TN 37069

(615) 268-1244

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For questions, call (615) 268-1244 or send an email to nangeorge@stoneandgeorge.com

	Page 1			Page 3
1.	STATE OF TENNESSEE	1.	APPEARANCES	1 age 3
	DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT	2.		
2.	BOILER UNIT DIVISION	3.	Michael Jay Pischke, Board Member, Boiler Manufacturer Representative, Acting Chairman	
3. 4.		4.	David Baughman, Board Member, Owner/User	
5.		5.	Representative	
6.		6.	Terry Fox, Board Member, Boiler Maker Representative	
7.		7.	Harold Bowers, Board Member, Insurance	
8.	TRANSCRIPT OF PROCEEDINGS	8.	Representative	
9.	OF BOARD OF BOILER RULES	9. 10.	Sam Chapman, Chief Boiler Inspector Eugene Robinson, Assistant Chief Boiler Inspector	
10. 11.	September 20, 2017	11.	Kim Jefferson, Esq., Assistant Administrator	
12.	BEFORE: Michael Pischke	12. 13.	Dan Bailey, Esq., Legal Counsel Carlene T. Bennett, Board Secretary	
13.		14.	Stephanie Crossman, Department of Labor & Workforce	
14.		15.	Development	
15.		16.	Deborah Rhone, Department of Labor & Workforce Development	
16. 17.		17.	Lynn Kirby, Department of Labor & Workforce	
18.		18.	Development	
19.		19.	Dallas Word, State of Tennessee	
20.			Richard Dickerson, State of Tennessee	
21.		20.	Chris O'Guin, State of Tennessee	
22.		21.	Randall Kelley, State of Tennessee	
23.	DOMINIQUE A. DUBOIS, LCR# 686	22.		
	STONE & GEORGE COURT REPORTING	23.	Jesse Smith, State of Tennessee	
24.	2020 Fieldstone Parkway Suite 900 - PMB 234	24.	Tim Holt, State of Tennessee	
25.	Franklin, Tennessee 37069	25.	Mark Neumann, State of Tennessee	
	(615) 221-1089	23.	Michael L. Gafford, State of Tennessee	
	Page 2			Page 4
1.	The above-styled cause came on for	1.	Sammy G. Sitz, State of Tennessee	
2.	hearing on this the 20th day of September, 2017,	2.	Thomas E. Spangler, State of Tennessee	
3.	before the Board of Boiler Rules of Tennessee	3.	Danny Peters, State of Tennessee	
4.	Department of Labor and Workforce Development, at	4.	Chris Hays, BASF	
5.	220 French Landing Drive, P.E.A.R.L Room, 1st	5.	Brittany Davis, BASF	
6.	Floor, Nashville, Tennessee, when and where the	6.	Larry Ritter, Travelers	
7.	following proceedings were had, to wit:	7. 8.	David Parham, Travelers	
8.		9.	Richard Goldsmith, Sunbelt Marketing	
9.		10.	John Wood, Sunbelt Marketing	
10.		11.	Jim Vaughn, Holliston Mills	
11.		12.	Louis Lampton, Ergon Terminaling, Inc.	
12.		13.	Joel Pastorek, Ergon Terminaling, Inc.	
13. 14.		14.	Marc Lauderdale, Ergon Terminaling, Inc.	
		15.	Steve Clark, Ergon Terminaling, Inc.	
15. 16.		16.	David Ogletree, Ergon Terminaling, Inc.	
10. 17.		17.	James Golden, Stonecrest Medical Center	
17.		18.	Eric Watts, Fresenius Medical Care	
19.		19.	Douglas Mayhew, Fresenius Medical Care	
20.		20.	Benjamin Manuel, Fresenius Medical Care	
21.		21.	Derrick Mummert, Milan General Hospital	
22.		22.	James Neville, Neville Engineering	
23.		23.	Rohan Scafe, Rinnai America Corporation	
24.		24.	Kelsey Dorrough, Rinnai America Corporation	
		25.	Jason Siler, Rinnai America Corporation	
25.		I	Richard Eng, Wacker Chemical	
25.				

	Page 5			Page
1. 2.	AGENDA L Call Meeting to Order	1.	PROCEEDINGS	
2. 3.	Call Meeting to Order II. Introductions and Announcements	2.	MR. PISCHKE: Let's call the meeting	
	III. Adoption of the Agenda	3.	to order of the Tennessee Board of Boiler Rules.	
	IV. Approval of the June 14, 2017 Meeting Minutes	4.	Let's start off with some announcements and	
i.		5.	introductions.	
·.	V. Chief Boiler Inspector's Report	6.	As far as announcements, safety	
	VI. Assistant Chief Boiler Inspector's Report		•	
i.	VII. Old Business	7.	first. In the event of an emergency or a natural	
€.	* 17-06	8.	disaster, security personnel will take all of the	
).		9.	attendees to a safe place in the building or	
	VIII. New Business	10.	direct them to exit the building on the Rosa Parks	
	* 17-11	11.	side, which I believe is this side?	
2.	* 17-12	12.	MR. CHAPMAN: Yes.	
3.	* 17-13	13.	MR. PISCHKE: Okay. Okay. We'll	
4.		14.	start with some introductions. My name is Mike	
5.	* 17-14	15.	Pishke. I'm a board member and taking the place of	
	* 17-15			
5.	* 17-16	16.	Brian Morelock who is out sick today.	
7.	IX. Open Discussion Items	17.	MR. BAUGHMAN: I'm Dave Baughman.	
3.		18.	I'm a board member.	
9.	* Status of the 2017 Tennessee Boiler Safety Conference	19.	MR. BOWERS: Harold Bowers, board	
0.	* Update on National Board Commission	20.	member.	
1.	Exam	21.	MR. FOX: Terry Fox, board member.	
2.	* Rinnai wants to understand the TN Roiler Codes better	22.	MR. CHAPMAN: Sam Chapman, Chief	
2. 3.	Boiler Codes better X. Rule Cases and Interpretations	23.	Inspector.	
4.	XI. The next Board of Boiler Rules Meeting is scheduled for 9:00 a.m. (CT), Wednesday,	24.	MR. ROBINSON: Eugene Robinson,	
5.	December 13, 2017, at the Department of	25.	Assistant Chief.	
	Labor & Workforce Development Office	23.	rissistant Cinor.	
	Page 6			Page
	Building located at 220 French Landing	1.	MS. BENNETT: Carlene Bennett, board	- "5"
	Drive, Nashville, Tennessee.	2.	secretary.	
2.		3.	MS. JEFFERSON: Kim Jefferson,	
	XII. Adjournment		Assistant Commissioner.	
3.		4.		
١.		5.	MR. BAILEY: Dan Bailey, legal	
5 .		6.	counsel.	
5 .		7.	MR. PISCHKE: I would like to welcome	
' .		8.	our new members, Terry Fox and Harold Bowers.	
3.		9.	MR. FOX: Thank you.	
).		10.	MR. PISCHKE: This is their first	
).		11.	meeting.	
 I.		12.	Other announcements, Dr. Keith	
2.				
3.		13.	Hargrove was unable to make the meeting, as well.	
۶. 1.		14.	We definitely miss both Brian and Keith.	
+. 5.		15.	The next item of the agenda is the	
5. 5.		16.	adoption of the agenda. I'll entertain a motion	
7.		17.	to adopt the agenda.	
7. 3.		18.	MR. BAUGHMAN: So moved.	
).).		19.	MR. PISCHKE: Do I have a second?	
		20.	MR. BOWERS: Second.	
).		21.	MR. PISCHKE: All those in favor,	
		22.	say, "aye."	
2.			• •	
3.		23.	MR. BAUGHMAN: Aye.	
4.		24.	MR. BOWERS: Aye.	
		25.	MR. FOX: Aye.	
5.				

		Page 9		p.	age 11
1.	MR. PISCHKE: Opposed?	rage y	1.	MR. MUMMERT: I'm Derrick Mummert,	age 11
2.	(Whereupon a discussion was		2.	Milan General Hospital, maintenance manager.	
3.	whispered.)		3.	MR. GAFFORD: Michael Gafford, State	
4.	MR. PISCHKE: Okay. I'm sorry. I		4.	of Tennessee, boiler inspector.	
5.	overlooked the introductions of the audience. Can		5.	MR. NEUMANN: Mark Neumann, State of	
6.	we begin to the right here and yeah.		6.	Tennessee, boiler inspector.	
7.	MR. HAYS: I'm Chris Hays,		7.	MR. HOLT: Tim Holt, State boiler	
8.	engineering specialist with BASF Corporation.		8.	inspector.	
9.	MS. DAVIS: I'm Brittany Davis,		9.	MR. NEVILLE: James Neville, Neville	
10.	process engineer at BASF.		10.	Engineering.	
11.	MR. RITTER: Larry Ritter, Travelers.		11.	MR. WOOD: John Wood with	
12.	MR. PARHAM: Dave Parham, Travelers.		12.	non-manufacturing Sunbelt Marketing.	
13.	MR. GOLDSMITH: Richard Goldsmith for		13.	MR. SCAFE: Rohan Scafe, Rinnai	
14.	non-manufacturing, Sunbelt Marketing.		14.	America Corporation.	
15.	MR. WORD: Dallas Word, State of		15.	MR. DORROUGH: Kelsey Dorrough,	
16.	Tennessee, boiler inspector, Memphis.		16.	Rinnai America Corporation.	
17.	MR. VAUGHN: I'm Jim Vaughn. I'm a		10. 17.	MR. SILER: Jason Siler, Rinnai	
18.	_		18.	•	
19.	mechanical engineer with Holliston Mills. MR. DICKERSON: Richard Dickerson,		16. 19.	America Corporation.	
1	•			MS. KIRBY: Lynn Kirby, admin, WRC. MS. CROSSMAN: Stephanie Crossman,	
20.	State of Tennessee, boiler inspector. MR. O'GUIN: Chris O'Guin, State of		20.	•	
21.	•		21.	admin, WRC.	
22.	Tennessee, boiler inspector.		22.	MR. PISCHKE: Thank you. I'd like to	
23.	MR. KELLEY: Randall Kelley, State of		23.	also remind everyone that this is an open meeting	
24.	Tennessee, boiler inspector.		24.	and if you have something to say or add to the	
25.	MR. SMITH: Jesse Smith, State of		25.	subject, please raise your hand and be recognized.	
1					
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1		Page 10	1		age 12
1.	Tennessee, boiler inspector.	Page 10	1.	Also, anyone presenting, please press the button on	age 12
2.	Tennessee, boiler inspector. MR. LAMPTON: Louis Lampton, Ergon	Page 10	2.	Also, anyone presenting, please press the button on the microphone and turn it from red to green to	age 12
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the National Board right now, and these three	121.	one more meeting or
	22.	MR. BAUGHMAN: Is there a protocol
	23.	for that?
n going to put a little ad-lib into the notes and	24.	MR. PISCHKE: That's Mr. Bailey?
n sorry, but they really dug deep to find code	25.	MR. BAILEY: Can you remove yes.
Page 14		Page 1
nestions. Chief and I were very proud of them.	1.	Sure.
	1	MS. JEFFERSON: So the item can be
•	3.	removed from the agenda without voting.
		MR. PISCHKE: Okay.
	l	MS. JEFFERSON: Without voting on it.
•	6.	MR. PISCHKE: Okay. So I guess we'll
•	7.	remove this item from the agenda.
MR. GAFFORD: Michael Gafford,	8.	MR. ROBINSON: Very well.
emphis.	9.	MR. PISCHKE: Okay. This leads us to
MR. NEUMANN: Mark Neumann, East	10.	New Business. Item 17-11. And before we start, I'd
ennessee.	11.	like to ask if anyone has any conflict with this
(Applause.)	12.	item?
MR. ROBINSON: Thank you. As of	13.	MR. BOWERS: I do.
day, a variance update, we have 116 known	14.	MR. PISCHKE: You do. So
riances out in the state of Tennessee. Forty-five	15.	MR. BAILEY: All right. Just state
thirty-nine percent of those variances require a	16.	what the conflict is.
llow-up inspection. And 44 or 38 percent, they	17.	MR. BOWERS: My insurance company, we
we been verified and approved, so they're actually	18.	insure this location.
perable.	19.	MR. BAILEY: All right. Your
We've got two or two percent	20.	discussion would be to limit it to anything that
quiring reinspection. And we've got 25 or 22	21.	doesn't involve I'm sorry. Any discussion you
	22.	would have, would have to be limited to I really
pilers are placed in dormancy. This quarter,	23.	don't know how this is going to be limited, to be
e've completed six variance audits with five	24.	honest with you, if you're insuring them.
proved and one requiring follow-up inspection.	25.	Well, there is a conflict of
	Page 14 destions. Chief and I were very proud of them. MR. CHAPMAN: Yes. MR. ROBINSON: State your name, sir. MR. O'GUIN: Chris O'Guin. MR. ROBINSON: Where are you give e your location. MR. O'GUIN: Davidson County. MR. GAFFORD: Michael Gafford, emphis. MR. NEUMANN: Mark Neumann, East ennessee. (Applause.) MR. ROBINSON: Thank you. As of day, a variance update, we have 116 known riances out in the state of Tennessee. Forty-five thirty-nine percent of those variances require a llow-up inspection. And 44 or 38 percent, they we been verified and approved, so they're actually be been verified and approved approved at the second actually be been verified and approved at the second actually be been verified and approved at the second actually be been verified and approved at the second actually be be be actually be be been verified and approved at the secon	restions. Chief and I were very proud of them. MR. CHAPMAN: Yes. MR. ROBINSON: State your name, sir. MR. O'GUIN: Chris O'Guin. MR. ROBINSON: Where are you give e your location. MR. O'GUIN: Davidson County. MR. GAFFORD: Michael Gafford, emphis. MR. NEUMANN: Mark Neumann, East nnessee. (Applause.) MR. ROBINSON: Thank you. As of day, a variance update, we have 116 known riances out in the state of Tennessee. Forty-five thirty-nine percent of those variances require a llow-up inspection. And 44 or 38 percent, they we been verified and approved, so they're actually berable. We've got two or two percent quiring reinspection. And we've got 25 or 22 greent no longer utilizing the variances, or the offers are placed in dormancy. This quarter, e've completed six variance audits with five

interest, but the I think if it's a financial interest, you're probably not going to be able to partake in the discussion at all. MR. BOWERS: Okay. MR. BAILEY: Or the vote. MR. BOWERS: Okay. MR. NEVILLE: I do have a request to postpone this item. My client is unable to attend this meeting this morning. So Kayser-Roth would like to be postponed for one meeting. MR. BAILEY: State your name for the record, please. MR. NEVILLE: James Neville, Neville Engineering. MR. BAILEY: And do you represent what is it Kayser? MR. NEVILLE: Kayser-Roth. Yes, I do. MR. BAILEY: Okay. MR. PISCHKE: So we'll table till the	Page 17	1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14.	is just outside the boiler area, about 27 feet. They're going to be monitoring from there primarily. Then the third location that they would like to have a remote station is in the lobby at the front of their building. That is approximately 609 feet from the boiler room. As far as those monitoring the boiler, at the remote station, there will be security officers, and that is the only attendant at the remote station, will be the security officers. Now, the boiler operators for this facility are their job title is Engineering Maintenance Technician II. We've listed their job descriptions in Appendix G, and they will be	Page 19
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what is it Kayser? MR. NEVILLE: Kayser-Roth. Yes, I do. MR. BAILEY: Okay.			monitoring the boiler every four hours while on	
MR. NEVILLE: Kayser-Roth. Yes, I do. MR. BAILEY: Okay.		16.	the variance.	
do. MR. BAILEY: Okay.	l	17.	If you have any questions, we'd be	
MR. BAILEY: Okay.	l	18.	glad to take questions. Yes, sir?	
•		19.	MR. BOWERS: Now, you will be	
MIK. FISCHKE: 50 Well table till the		20.	monitoring this boiler I assume these boilers run	
			-	
•				
•			· · · · · · · · · · · · · · · · · · ·	
within the Board. Okay. Tou represent them, as		23.	who s going to be diele	
	Page 18			Page 20
well?		1.	MR. WATTS: Yes, sir.	
MR. NEVILLE: Yes.		2.	MR. BOWERS: 24 hours a day?	
MR. PISCHKE: Okay. Go ahead and		3.	MR. WATTS: We have a security guard	
push the button. It'll turn green and state your		4.	and an engineering technician there or maintenance	
name names and		5.	technician there 24/7.	
MR. NEVILLE: James Neville with		6.	MR. BOWERS: Okay. What training	
Neville Engineering.		7.	does the security guard have to operate the boilers?	
MR. WATTS: Eric Watts, Fresenius		8.	MR. WATTS: The training is given by	
Medical Care.		9.	the maintenance technician with the criteria we have	
MR. MAYHEW: Douglas Mayhew,		10.	that is documented, and the engineering or	
Fresenius Medical Care.		11.	maintenance technician is trained by our local	
MR. NEVILLE: Today we're requesting		12.	Boiler Supply company.	
a variance to the 20-minute rule regarding two		13.	MR. BOWERS: Do you feel this	
boilers, newly installed at Fresenius Medical Care		14.	boiler's going to be operated just as safely as it	
in Knoxville, Tennessee. These boilers, when they		15.	is on the 20-minute rule?	
go into operation, will be on-demand 24/7, providing		16.	MR. WATTS: Yes, sir. Very safe.	
		17.	•	
		18.		
· · · · · · · · · · · · · · · · · · ·		19.		
-		20.	•	
		21.	new at this. Motion to discuss?	
· · · · · · · · · · · · · · · · · · ·		22.	MR. BAUGHMAN: Motion to discuss.	
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			•	
			,, x , , , , , ,	
The straint of the st	MR. NEVILLE: Thank you. MR. PISCHKE: Next item is 17-12. Do we have any conflicts of interest on this item within the Board? Okay. You represent them, as well? MR. NEVILLE: Yes. MR. PISCHKE: Okay. Go ahead and push the button. It'll turn green and state your name names and MR. NEVILLE: James Neville with Neville Engineering. MR. WATTS: Eric Watts, Fresenius Medical Care. MR. MAYHEW: Douglas Mayhew, Fresenius Medical Care. MR. NEVILLE: Today we're requesting a variance to the 20-minute rule regarding two boilers, newly installed at Fresenius Medical Care in Knoxville, Tennessee. These boilers, when they go into operation, will be on-demand 24/7, providing high-pressure steam for heating and their process. Their process is dialysis-related products. If I can have you turn to the site plan on page two of their variance request, there are three remote stations that they would like to request that they can monitor from. One is the guard shack at the top right. Then the boiler room is located directly south from there, about 820 feet. There is a boiler control room, which	MR. NEVILLE: Thank you. MR. PISCHKE: Next item is 17-12. Do we have any conflicts of interest on this item within the Board? Okay. You represent them, as Page 18 Well? MR. NEVILLE: Yes. MR. PISCHKE: Okay. Go ahead and push the button. It'll turn green and state your name names and MR. NEVILLE: James Neville with Neville Engineering. MR. WATTS: Eric Watts, Fresenius Medical Care. MR. MAYHEW: Douglas Mayhew, Fresenius Medical Care. MR. NEVILLE: Today we're requesting a variance to the 20-minute rule regarding two boilers, newly installed at Fresenius Medical Care in Knoxville, Tennessee. These boilers, when they go into operation, will be on-demand 24/7, providing high-pressure steam for heating and their process. Their process is dialysis-related products. 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So during the off Am. BOWERS: Okay. So during the off Am. BOWERS: Okay. Okay. Oh, sory. MR. BOWERS: Okay. Wa're requesting and their process. MR. BOWERS: Okay. Wat training does the security guard have to operate the boilers? MR. BOWERS: Okay. What training does the security guard have to operate the boilers? MR. BOWERS: Obay. What training MR. BOWERS: Obay. Oh, sory. MR. BOWERS: Okay. O

	Page 21	T		Page 23
1.	MR. FOX: Second.	1.	there's water in the sight glass. That's correct.	1 4.50 20
2.	THE REPORTER: Okay. Thank you.	2.	MR. BAUGHMAN: So how you're	
3.	MR. PISCHKE: Thank you. Okay.	3.	operating it now is very a very safe means of	
4.	MR. BOWERS: I'm done with my	4.	operation. So how does this add to the safety	
5.	discussion.	5.	aspect by being able to now check it every four	
6.	MR. PISCHKE: Okay. Okay.	6.	hours?	
7.	MR. BAUGHMAN: Sir. How are the	7.	MR. WATTS: How does that add to the	
8.	boilers operated presently?	8.	safety?	
9.	MR. WATTS: They are operated with	9.	MR. MAYHEW: Will it maintain the	
10.	security guards that are there 24/7 and engineer	10.	same?	
11.	or maintenance technicians, also. We monitor them	111.	MR. BAUGHMAN: Correct.	
12.	every 20 minutes currently.	12.	MR. MAYHEW: Yeah. It would maintain	
13.	MR. BAUGHMAN: Monitoring them how?	13.	the same. It's the same parameters. The	
14.	MR. WATTS: With the security guard	14.	attendant's there.	
15.	and the maintenance technician. They are doubling	15.	MR. NEVILLE: The Hawk 4000 controls	
16.	up on it.	16.	on both of these boilers will be monitoring the	
17.	MR. BAUGHMAN: Via are they	17.	safety levels, as well. They will be I mean	
18.	physically	18.	at the remote station, staffing those in a while	
19.	MR. WATTS: Yes.	19.	they're on the variance.	
20.	MR. BAUGHMAN: looking at it?	20.	MR. BAUGHMAN: Sure.	
21.	MR. WATTS: Every 20 minutes,	21.	MR. NEVILLE: So	
22.	physically looking at it. They're located at the	22.	MR. BAUGHMAN: I guess my point is if	
23.	station that's 27 feet away, and we are monitoring	23.	we have a sight glass happen to break	
24.	it and document it every 20 minutes, all the	24.	MR. NEVILLE: Yes.	
25.	readings.	25.	MR. BAUGHMAN: the Hawk doesn't	
	Page 22	1		Page 24
1.	Page 22 MR. BAUGHMAN: Okay. When you're	1.	monitor a sight glass rupture.	Page 24
1. 2.	-	Ι.	monitor a sight glass rupture. MR. WATTS: That's true.	Page 24
1	MR. BAUGHMAN: Okay. When you're	1.		Page 24
2.	MR. BAUGHMAN: Okay. When you're looking at it, are we looking at it just from the	1. 2.	MR. WATTS: That's true.	Page 24
2. 3.	MR. BAUGHMAN: Okay. When you're looking at it, are we looking at it just from the standpoint of calling it line-of-sight or are we	1. 2. 3.	MR. WATTS: That's true. MR. MANUEL: It monitors the level.	Page 24
2. 3. 4.	MR. BAUGHMAN: Okay. When you're looking at it, are we looking at it just from the standpoint of calling it line-of-sight or are we looking at it with any specific criteria?	1. 2. 3. 4.	MR. WATTS: That's true. MR. MANUEL: It monitors the level. MR. BAUGHMAN: The water level.	
2. 3. 4. 5.	MR. BAUGHMAN: Okay. When you're looking at it, are we looking at it just from the standpoint of calling it line-of-sight or are we looking at it with any specific criteria? MR. WATTS: We walk up to the boiler	1. 2. 3. 4. 5.	MR. WATTS: That's true. MR. MANUEL: It monitors the level. MR. BAUGHMAN: The water level. MR. MANUEL: Yes, sir.	
2. 3. 4. 5. 6.	MR. BAUGHMAN: Okay. When you're looking at it, are we looking at it just from the standpoint of calling it line-of-sight or are we looking at it with any specific criteria? MR. WATTS: We walk up to the boiler and we have specific criteria that we check on the	1. 2. 3. 4. 5. 6.	MR. WATTS: That's true. MR. MANUEL: It monitors the level. MR. BAUGHMAN: The water level. MR. MANUEL: Yes, sir. MR. BAUGHMAN: Yes. But not so much	
2. 3. 4. 5. 6. 7.	MR. BAUGHMAN: Okay. When you're looking at it, are we looking at it just from the standpoint of calling it line-of-sight or are we looking at it with any specific criteria? MR. WATTS: We walk up to the boiler and we have specific criteria that we check on the boiler and the deaerator.	1. 2. 3. 4. 5. 6. 7.	MR. WATTS: That's true. MR. MANUEL: It monitors the level. MR. BAUGHMAN: The water level. MR. MANUEL: Yes, sir. MR. BAUGHMAN: Yes. But not so much if we've got an incident with the sight glass. It	
2. 3. 4. 5. 6. 7. 8.	MR. BAUGHMAN: Okay. When you're looking at it, are we looking at it just from the standpoint of calling it line-of-sight or are we looking at it with any specific criteria? MR. WATTS: We walk up to the boiler and we have specific criteria that we check on the boiler and the deaerator. MR. BAUGHMAN: And what are those	1. 2. 3. 4. 5. 6. 7. 8.	MR. WATTS: That's true. MR. MANUEL: It monitors the level. MR. BAUGHMAN: The water level. MR. MANUEL: Yes, sir. MR. BAUGHMAN: Yes. But not so much if we've got an incident with the sight glass. It doesn't monitor whether we have a combustion sight	
2. 3. 4. 5. 6. 7. 8. 9.	MR. BAUGHMAN: Okay. When you're looking at it, are we looking at it just from the standpoint of calling it line-of-sight or are we looking at it with any specific criteria? MR. WATTS: We walk up to the boiler and we have specific criteria that we check on the boiler and the deaerator. MR. BAUGHMAN: And what are those criteria, just for my own MR. WATTS: The pressure hang on just a second. We've got	1. 2. 3. 4. 5. 6. 7. 8. 9.	MR. WATTS: That's true. MR. MANUEL: It monitors the level. MR. BAUGHMAN: The water level. MR. MANUEL: Yes, sir. MR. BAUGHMAN: Yes. But not so much if we've got an incident with the sight glass. It doesn't monitor whether we have a combustion sight glass break and so it monitors a lot but not	
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2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21.	MR. BAUGHMAN: Okay. When you're looking at it, are we looking at it just from the standpoint of calling it line-of-sight or are we looking at it with any specific criteria? MR. WATTS: We walk up to the boiler and we have specific criteria that we check on the boiler and the deaerator. MR. BAUGHMAN: And what are those criteria, just for my own MR. WATTS: The pressure hang on just a second. Hang on just a second. We've got one of the guys here. MR. BAUGHMAN: You bet. Yeah. Thanks for taking the time. MR. MANUEL: We monitor steam pressure, DA level MR. BAILEY: State your name for the MR. MANUEL: Oh, I'm sorry. Benjamin Manuel, Fresenius Medical Care. So we check the steam pressure, the DA level, the water	1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21.	MR. WATTS: That's true. MR. MANUEL: It monitors the level. MR. BAUGHMAN: The water level. MR. MANUEL: Yes, sir. MR. BAUGHMAN: Yes. But not so much if we've got an incident with the sight glass. It doesn't monitor whether we have a combustion sight glass break and so it monitors a lot but not everything. So I understand what we're saying and why we're going to the variance. I just want everybody to know that we're training security guards or you're having security guards in this position of attending a piece of equipment that has more power than dynamite. And in doing so, understanding that that training goes beyond training to the manual in a conscientious manner of operating the boiler itself. Speaking with the DA, going to the equipment description on Appendix A, Boiler Data, under the DA data sheet, we're got the N.B. number	
2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22.	MR. BAUGHMAN: Okay. When you're looking at it, are we looking at it just from the standpoint of calling it line-of-sight or are we looking at it with any specific criteria? MR. WATTS: We walk up to the boiler and we have specific criteria that we check on the boiler and the deaerator. MR. BAUGHMAN: And what are those criteria, just for my own MR. WATTS: The pressure hang on just a second. Hang on just a second. We've got one of the guys here. MR. BAUGHMAN: You bet. Yeah. Thanks for taking the time. MR. MANUEL: We monitor steam pressure, DA level MR. BAILEY: State your name for the MR. MANUEL: Oh, I'm sorry. Benjamin Manuel, Fresenius Medical Care. So we check the steam pressure, the DA level, the water level in the boiler, and one more thing, the	1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22.	MR. WATTS: That's true. MR. MANUEL: It monitors the level. MR. BAUGHMAN: The water level. MR. MANUEL: Yes, sir. MR. BAUGHMAN: Yes. But not so much if we've got an incident with the sight glass. It doesn't monitor whether we have a combustion sight glass break and so it monitors a lot but not everything. So I understand what we're saying and why we're going to the variance. I just want everybody to know that we're training security guards or you're having security guards in this position of attending a piece of equipment that has more power than dynamite. And in doing so, understanding that that training goes beyond training to the manual in a conscientious manner of operating the boiler itself. Speaking with the DA, going to the equipment description on Appendix A, Boiler Data, under the DA data sheet, we're got the N.B. number but we don't have a Tennessee Number assigned.	
2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23.	MR. BAUGHMAN: Okay. When you're looking at it, are we looking at it just from the standpoint of calling it line-of-sight or are we looking at it with any specific criteria? MR. WATTS: We walk up to the boiler and we have specific criteria that we check on the boiler and the deaerator. MR. BAUGHMAN: And what are those criteria, just for my own MR. WATTS: The pressure hang on just a second. Hang on just a second. We've got one of the guys here. MR. BAUGHMAN: You bet. Yeah. Thanks for taking the time. MR. MANUEL: We monitor steam pressure, DA level MR. BAILEY: State your name for the MR. MANUEL: Oh, I'm sorry. Benjamin Manuel, Fresenius Medical Care. So we check the steam pressure, the DA level, the water level in the boiler, and one more thing, the oh, the sight glass. We make sure the sight	1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23.	MR. WATTS: That's true. MR. MANUEL: It monitors the level. MR. BAUGHMAN: The water level. MR. MANUEL: Yes, sir. MR. BAUGHMAN: Yes. But not so much if we've got an incident with the sight glass. It doesn't monitor whether we have a combustion sight glass break and so it monitors a lot but not everything. So I understand what we're saying and why we're going to the variance. I just want everybody to know that we're training security guards or you're having security guards in this position of attending a piece of equipment that has more power than dynamite. And in doing so, understanding that that training goes beyond training to the manual in a conscientious manner of operating the boiler itself. Speaking with the DA, going to the equipment description on Appendix A, Boiler Data, under the DA data sheet, we're got the N.B. number but we don't have a Tennessee Number assigned. MR. MAYHEW: There is one. I can't	

	Page 25			Page 27
1.	the record, I'd like it to be part of	1.	like there's how many security guards on	υ
2.	MR. MAYHEW: Yes, sir.	2.	MR. WATTS: One security guard and	
3.	MR. NEVILLE: We can update that	3.	one technician.	
4.	field.	4.	MR. MANUEL: On each shift.	
5.	MR. BAUGHMAN: So on this, it's	5.	MR. BAUGHMAN: Okay. I take it the	
6.	showing the unit is a Bryan 700-gallon capacity,	6.	security guard has other duties?	
7.	design pressure 50 PSI, but the DA is operating	7.	MR. WATTS: No.	
8.	atmospheric. I don't quite understand that since	8.	MR. BAUGHMAN: He doesn't make any	
9.	the DA is not an atmospheric application unless	9.	rounds whatsoever?	
10.	there's a problem with the DA itself. So could you	10.	MR. WATTS: Nothing.	
11.	elaborate a little on that?	11.	MR. BAUGHMAN: He just stays at the	
12.	MR. WATTS: I don't have an answer	12.	guard station?	
13.	for you on that.	13.	MR. WATTS: Or at correct. That's	
14.	MR. NEVILLE: I will get some more	14.	all he does.	
15.	information on that.	15.	MR. BAUGHMAN: Okay. So should there	
16.	MR. BAUGHMAN: Okay.	16.	be an incident within the facility itself, he would	
17.	MR. MAYHEW: It's about seven pounds.	17.	not respond to it. He would stay put.	
18.	I'll tell you that.	18.	MR. WATTS: That's his job. Correct.	
19.	MR. BAUGHMAN: About what it should	19.	And he'll help notify 911 or direct traffic if he's	
20.	be.	20.	out there, but other than that, he's right there.	
21.	MR. MAYHEW: Okay. So	21.	MR. BAUGHMAN: Okay. And then we've	
22.	MR. BAUGHMAN: Yeah. Exactly. It	22.	got one maintenance personnel on call. And he's not	
23.	should be seven to ten PSI, but I just noted that it	23.	necessarily on call; he's at the facility.	
24.	did show that it was atmospheric and didn't know	24.	MR. WATTS: He's on site all the	
25.	why.	25.	time.	
	Page 26			Page 28
1.	How are we communicating between the	1.	MR. BAUGHMAN: So on the weekends,	
2.	Hawk and the rest of the remote stations? Are we	2.	there will be somebody, not only the security guard,	
3.	doing anything via web-based communications? How	3.	but there'd be a maintenance	
4.	are we communicating?	4.	MR. MAYHEW: Yes. 24/7.	
5.	MR. NEVILLE: Those should all be	5.	MR. BAUGHMAN: technician.	
6.	hardwired.	6.	MR. WATTS: We have two people on	
7.	MR. BAUGHMAN: I'm sorry. You	7.	site all the time. Correct.	
8.	MR. NEVILLE: Those are hardwired	8.	MR. MANUEL: 24/7.	
9.	connections for each of the boilers. So you	9.	MR. BAUGHMAN: Very good. That's all	
10.	can	10.	I got for now.	
11.	MR. WATTS: The one we're going to	11.	MR. NEVILLE: Okay.	
12.	hardwire all of them and the one that goes the	12.	MR. BAUGHMAN: Thank you.	
13.	further is 821 feet, is going to be fiber-optic.	13.	MR. PISCHKE: Okay. I had a couple	
14.	MR. BAUGHMAN: Okay. And how is the	14.	questions.	
15.	communications back to maintenance personnel, should	15.	MR. NEVILLE: Yes.	
16.	there be any needs for communication, is this via	16.	MR. PISCHKE: On the training of the	
17.	MR. WATTS: Telephone or a	17.	personnel in the procedures, is there any kind of	
18.	walkie-talkie. We have the option of both of those.	18.	testing criteria or, you know, is it just	
19.	We usually use cell phones for communication.	19.	instructional and, you know, how often is this done	
20.	MR. BAUGHMAN: Okay. How many	20.	and	
21.	maintenance personnel do you have?	21.	MR. NEVILLE: Are you talking about	
22.	MR. WATTS: Currently, we have seven	22.	training to the variance manual or training for the	
ı		1		
23.	maintenance personnel.	23.	boiler attendant?	
ı	maintenance personnel. MR. BAUGHMAN: So on the weekends,	23. 24.	boiler attendant? MR. PISCHKE: Reacting to the boiler	
23.	maintenance personnel.			

		Page 29			Page 31
1.	MR. NEVILLE: Okay.	1 4.50 2	1.	more.	1 1180 01
2.	MR. PISCHKE: and emergency		2.	MR. PISCHKE: Okay.	
3.	procedures, and so on and so forth.		3.	MR. BAUGHMAN: If you'll pay turn	
4.	MR. NEVILLE: There will be yearly		4.	to job description under G-2	
5.	training, as far as to the variance. As far as		5.	MR. NEVILLE: Okay.	
6.	training the boiler operators to be a qualified		6.	MR. BAUGHMAN: and if you can read	
7.	boiler operator, that would be outside training		7.	for me since we just said that the security	
8.	is brought in		8.	officer does not leave the security station, could	
9.	MR. PISCHKE: Yeah.		9.	you read for me what that job summary states?	
10.	MR. NEVILLE: to do on-site		10.	MR. WATTS: Observes and reports	
11.	training.		11.	activities and incidents as assigned client	
12.	MR. PISCHKE: But the security		12.	providing for security and safety of client property	
13.	officers and the maintenance employees that will be		13.	and personnel. Makes periodic tours of check for	
14.	responding to this or, you know, involved in the		14.	irregularities and inspect protection devices and	
15.	variance, are they just trained once and that's it		15.	fire control equipment. Preserves order and may act	
16.	or		16.	as enforce regulations and directives for the site	
17.	MR. WATTS: We have requirements that		17.	pertaining to personnel, visitors, and, premise	
18.	we train annually on the boiler and the training of		18.	(verbatim).	
19.	the boiler. The company policies are that.		19.	MR. BAUGHMAN: Thank you, brother.	
20.	MR. PISCHKE: Do they have any other		20.	Going on down to number five, I'll read that. The	
21.	safety responsibilities, site safety		21.	security officer patrols assigned site on foot or in	
22.	responsibilities?		22.	vehicle; checks for unsafe conditions, hazards,	
23.	MR. WATTS: As far as the security		23.	unlocked doors, security violations, blocked ingress	
24.	guard or the		24.	and egress, mechanical problems, unauthorized	
25.	MR. PISCHKE: Either of them. Both		25.	persons, so forth and so on.	
				persons, so rotal and so on	
1					i i
		Page 30			Page 32
1.	of them.	Page 30	1.	Number six, protects evidence or	Page 32
1. 2.		Page 30	1. 2.	Number six, protects evidence or scene of incident in the event of accidents,	Page 32
1	of them. MR. WATTS: At this time, security guards do not have any other criteria that they're	Page 30		scene of incident in the event of accidents,	Page 32
2.	MR. WATTS: At this time, security guards do not have any other criteria that they're	Page 30	2.		Page 32
2. 3.	MR. WATTS: At this time, security	Page 30	2. 3.	scene of incident in the event of accidents, emergencies, or security investigations; sets up	Page 32
2. 3. 4.	MR. WATTS: At this time, security guards do not have any other criteria that they're responsible for other than the boiler. The maintenance technicians do have some other plant	Page 30	2. 3. 4.	scene of incident in the event of accidents, emergencies, or security investigations; sets up barriers and signage, and provides direction or information to others.	Page 32
2. 3. 4. 5.	MR. WATTS: At this time, security guards do not have any other criteria that they're responsible for other than the boiler. The	Page 30	2. 3. 4. 5.	scene of incident in the event of accidents, emergencies, or security investigations; sets up barriers and signage, and provides direction or	Page 32
2. 3. 4. 5. 6.	MR. WATTS: At this time, security guards do not have any other criteria that they're responsible for other than the boiler. The maintenance technicians do have some other plant equipment they're responsible for maintaining and	Page 30	2. 3. 4. 5. 6.	scene of incident in the event of accidents, emergencies, or security investigations; sets up barriers and signage, and provides direction or information to others. That sounds like he doesn't stay in	Page 32
2. 3. 4. 5. 6. 7.	MR. WATTS: At this time, security guards do not have any other criteria that they're responsible for other than the boiler. The maintenance technicians do have some other plant equipment they're responsible for maintaining and keeping an eye on, but they're not solely at the	Page 30	2. 3. 4. 5. 6. 7.	scene of incident in the event of accidents, emergencies, or security investigations; sets up barriers and signage, and provides direction or information to others. That sounds like he doesn't stay in the security office.	Page 32
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		Page 33			Page 35
1.	MR. NEVILLE: Which it needs to be	r age 33	1.	than one security officer, so one would be at the	ruge 33
2.	more		2.	station at all times. There may be another one	
3.	MR. BAUGHMAN: Why have we got this		3.	doing a so that's where it the quantity. So	
4.	in the manual if it's not an accurate representation		4.	there may be, you know, roaming security guards, but	
5.	of the job description? Otherwise, this is a		5.	the request is that there would always be someone at	
6.	copy/paste, put it in as filler, it doesn't make any		6.	the remote station while they were operating under a	
7.	difference kind of, piece of paper in here, and I		7.	variance. So	
8.	take exception to that.		8.	MR. PISCHKE: I guess that was my	
9.	MR. PISCHKE: I would tend to agree.		9.	when I first read this, that was my assumption, as	
10.	If there's a specific contractual agreement I		10.	well	
11.	assume the security guards are contracted or are		11.	MR. NEVILLE: Right.	
12.	they		12.	MR. PISCHKE: is that there would	
13.	MR. WATTS: They are contract.		13.	be multiple. But obviously	
14.	MR. PISCHKE: Okay. If there's a		14.	MR. WATTS: Well, we are a start-up	
15.	specific contractual agreement on the duties that		15.	facility, and we are trying to get organized with	
16.	are specific to this site, then we should have those		16.	various, different things. One of the reasons we've	
17.	in that manual and they should be spelled out very		17.	hired security guards is to support us with the	
18.	clearly.		18.	boilers. You know, to make us help us monitor	
19.	MR. BOWERS: Yeah. The problem is,		19.	them. They're not so much for walking around and	
20.	you know, any incident is usually a combination of a		20.	doing security checks and things of that nature.	
21.	bunch of events happening. So if this security		21.	And I know that's not in here, but, you know, that's	
22.	guard who's supposed to be monitoring the boiler,		22.	the reason why.	
23.	he's taking care of other situations you know,		23.	So we you know, our HR department	
24.	it's usually not one thing that happens. Usually,		24.	had talked at one time about having two people.	
25.	it's several things that happen that ended up a big		25.	When we talked to him first, that's what we had	
1					
		Page 34			Page 36
1.	problem. And that's I think that's one of our	Page 34	1.	planned. Things changed. You know. It's	Page 36
1. 2.	problem. And that's I think that's one of our concerns that if this is true, which you say it's	Page 34	1. 2.	planned. Things changed. You know. It's things have changed since we drove down here this	Page 36
1	-	Page 34	l		Page 36
2.	concerns that if this is true, which you say it's	Page 34	2.	things have changed since we drove down here this	Page 36
2. 3.	concerns that if this is true, which you say it's not, that there'll be nobody monitoring the boiler	Page 34	2. 3.	things have changed since we drove down here this morning. So we're up in a bit of a flux and we're	Page 36
2. 3. 4.	concerns that if this is true, which you say it's not, that there'll be nobody monitoring the boiler for a certain amount of time.	Page 34	2. 3. 4.	things have changed since we drove down here this morning. So we're up in a bit of a flux and we're trying to get things lined out. So you are	Page 36
2. 3. 4. 5.	concerns that if this is true, which you say it's not, that there'll be nobody monitoring the boiler for a certain amount of time. MR. PISCHKE: Yeah.	Page 34	2. 3. 4. 5.	things have changed since we drove down here this morning. So we're up in a bit of a flux and we're trying to get things lined out. So you are correct. We will modify this.	Page 36
2. 3. 4. 5. 6.	concerns that if this is true, which you say it's not, that there'll be nobody monitoring the boiler for a certain amount of time. MR. PISCHKE: Yeah. MR. BAUGHMAN: And this is excuse	Page 34	2. 3. 4. 5. 6.	things have changed since we drove down here this morning. So we're up in a bit of a flux and we're trying to get things lined out. So you are correct. We will modify this. MR. PISCHKE: Are there any other	Page 36
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	Page 37			Page 39
1.	needs to be cleaned up. It made me believe that it	1.	talk back to the operator and say, hey, I've got a	Tuge 37
2.	was conceptual, which	2.	situation here.	
3.	MR. WATTS: Okay.	3.	MR. NEVILLE: Yes. Absolutely.	
4.	MR. ROBINSON: You've got two	4.	MR. BOWERS: I need to leave.	
5.	boilers, correct?	5.	MR. NEVILLE: Right. The remote	
6.	MR. WATTS: Correct.	6.	station cannot be left unattended and, you know, not	
7.	MR. ROBINSON: And you're going to	7.	monitoring the boiler. So, you know, there is that	
8.	have one switch at each door for the two boilers,	8.	protection built in.	
9.	correct?	9.	MR. BAUGHMAN: So if security	
10.	MR. WATTS: They're there currently.	10.	personnel cannot by chance, for whatever reason, get	
111.	Yes.	111.	in touch with maintenance, then he will then act as	
12.	MR. ROBINSON: Yes, sir.	12.	the boiler attendant.	
1	MR. MAYHEW: There's two. There's	13.	MR. NEVILLE: He would shut the	
13.		1		
14.	one E-stop for each boiler, so there's two.	14.	boiler I mean, if there is I mean, if he has	
15.	MR. ROBINSON: That's unacceptable.	15.	to leave the remote station, he would shut the	
16.	MR. CHAPMAN: There's only one E-stop	16.	boilers off if he can't make contact with the boiler	
17.	for	17.	attendant.	
18.	MR. NEVILLE: One shuts both.	18.	MR. BAUGHMAN: Okay. And then what	
19.	MR. WATTS: Per two boilers?	19.	happens?	
20.	MR. CHAPMAN: no matter how many	20.	MR. NEVILLE: I mean, well, the	
21.	boilers you've got in that room.	21.	boilers are off. So, you know, I'm sure there would	
22.	MR. WATTS: Okay.	22.	be a response.	
23.	MR. CHAPMAN: One button kills	23.	MR. BAUGHMAN: I'm just saying, in	
24.	everything.	24.	case the boiler let's say, a maintenance tech	
25.	MR. WATTS: Okay.	25.	gets sick on the job.	
-		+		
	Page 38			Page 40
1.	MR. ROBINSON: And the rationale is,	1.	MR. NEVILLE: Sure.	-
2.	MR. ROBINSON: And the rationale is, trying to figure out which boiler is to shut off	2.	MR. BAUGHMAN: And he's incapacitated	-
I .	MR. ROBINSON: And the rationale is, trying to figure out which boiler is to shut off is going to be a challenge sometimes.	1	MR. BAUGHMAN: And he's incapacitated for whatever reason, security then even if we	-
2.	MR. ROBINSON: And the rationale is, trying to figure out which boiler is to shut off	2. 3. 4.	MR. BAUGHMAN: And he's incapacitated for whatever reason, security then even if we don't have an alarm	-
2. 3.	MR. ROBINSON: And the rationale is, trying to figure out which boiler is to shut off is going to be a challenge sometimes. Sir, that's all I have. That's all I have.	2. 3.	MR. BAUGHMAN: And he's incapacitated for whatever reason, security then even if we don't have an alarm MR. NEVILLE: Right.	-
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1		Page 41			Page 43
1.	MS. BENNETT: off site to be able	1 age +1	1.	MR. WATTS: As far as boiler	1 age 43
2.	to notify them and then that timeframe of having		2.	management, right. And attendant.	
3.	them come in and so forth. You've got to kind of		3.	MR. ROBINSON: So they're not trained	
4.	got to look at all the different avenues that play		4.	to the manual.	
5.	into the operation of this piece of equipment.		5.	MR. WATTS: Correct.	
6.	MR. PISCHKE: Mr. Robinson?		6.	MR. NEVILLE: Not yet. Not yet.	
7.	MR. ROBINSON: Just two questions.		7.	MR. WATTS: That's not that's	
8.	MR. NEVILLE: Yes.		8.	correct.	
9.	MR. ROBINSON: Your monitoring		9.	MR. ROBINSON: Okay. That's what	
10.	stations, you have two monitoring stations, correct?		10.	that's	
11.	MR. NEVILLE: There were three.		11.	MR. BOWERS: Does the security	
12.	MR. ROBINSON: The boiler room.		12.	guard I see where the guard shack is. Does he	
13.	MR. NEVILLE: Right. Right outside		13.	have a vehicle there all the time?	
14.	the boiler room.		14.	MR. WATTS: That's a good question.	
15.			15.	We don't I don't know. We don't have the	
16.	MR. ROBINSON: Two with the exception of the boiler room.				
1			16.	security guard station ready to move into yet. MR. BOWERS: Okay.	
17.	MR. NEVILLE: Yeah. Boiler control		17.	•	
18.	rooms.		18.	MR. WATTS: So I would imagine they	
19.	MR. ROBINSON: The question is, what		19.	would have some sort of a you know, a golf cart	
20.	mechanism do you use to identify who's in which		20.	or something like that. That would be most likely	
21.	monitoring station?		21.	what will happen, but we don't have that yet.	
22.	MR. NEVILLE: You want to		22.	MR. BOWERS: Well, the reason I was	
23.	MR. WATTS: So we will have		23.	addressing that, you know, if you have to the	
24.	documentation of when someone leaves one and the		24.	security guard has to check the boiler, it's	
25.	other one becomes active, and we will exchange that		25.	800-something feet over there. You know. It's a	
		Page 42	_		Page 44
1.	with the engineering tech and the boiler room or	1 age 42	1.	pretty good little ways. That's why by the time	1 age 44
2.	the security guard.		l	you walk over there, it'd take 20 minutes to get	
1	the security guard.				
1 1	MR ROBINSON: Is that a manual		2.	•	
3.	MR. ROBINSON: Is that a manual exchange electronic phone call?		3.	over there and get back. You know. So till he'd	
4.	exchange, electronic, phone call?		3. 4.	over there and get back. You know. So till he'd have to walk back again. So he'd have to pretty	
4. 5.	exchange, electronic, phone call? MR. WATTS: As far as, when you say		3. 4. 5.	over there and get back. You know. So till he'd have to walk back again. So he'd have to pretty well be in the boiler room if he's going to station	
4. 5. 6.	exchange, electronic, phone call? MR. WATTS: As far as, when you say manual		3. 4. 5. 6.	over there and get back. You know. So till he'd have to walk back again. So he'd have to pretty well be in the boiler room if he's going to station at the security guard station (verbatim). So that's	
4. 5. 6. 7.	exchange, electronic, phone call? MR. WATTS: As far as, when you say manual MR. ROBINSON: I hand it off to		3. 4. 5. 6. 7.	over there and get back. You know. So till he'd have to walk back again. So he'd have to pretty well be in the boiler room if he's going to station at the security guard station (verbatim). So that's why I was wondering if there was going to be a	
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	Page 4	5 T	Pas	ge 47
1.	MR. BAUGHMAN: All right. So what	$\begin{bmatrix} 1 \\ 1 \end{bmatrix}$	sensitive, and I let them know that they need to	50 17
2.	would his title now be?	2.	label boiler one, boiler two on the shock buttons.	
3.	MR. WATTS: It's	3.	But and with their boilers, boiler one, boiler	
4.	MR. NEVILLE: Engineering Maintenance	4.	two at each door to designate the difference in	
5.	Technician II.	5.	the shock buttons.	
6.	MR. WATTS: Engineering Maintenance	6.	I've also looked at they've got	
7.	Technician II. Yeah.	7.	several autoclaves there, air tanks; I've	
8.	MR. BAUGHMAN: Thank you for pointing	8.	registered all those with the State. Should have	
9.	that out. All right. Thank you.	9.	a Tennessee Number to the DA tank, hopefully. I	
10.	MR. PISCHKE: Yeah. That's in	10.	don't know.	
11.	Appendix G.	111.	MR. BOWERS: The question on that one	
12.	MR. BAUGHMAN: Okay.	12.	is if it's under 50 PSI, it wouldn't be	
13.	MR. PISCHKE: Any other questions or	13.	registered what do you think, Sam?	
14.	comments?	14.	MR. BAUGHMAN: It's 50 PSI.	
15.	MR. BAUGHMAN: So presently, you	15.	MR. CHAPMAN: 50 PSI.	
16.	mentioned that the guard shack is not operational?	16.	MR. BAUGHMAN: That's the rating on	
17.	MR. WATTS: Correct.	17.	the	
18.	MR. BAUGHMAN: Okay. Okay. That's	18.	MR. BOWERS: Okay. Okay. Okay.	
19.	pretty exhaustive. You did well.	19.	MR. CHAPMAN: Yeah.	
20.	MR. PISCHKE: We have someone in the	20.	MR. BOWERS: It did say what the	
21.	back.	21.	safety okay.	
22.	MR. PETERS: May I say a few words?	22.	MR. CHAPMAN: Yeah.	
23.	Danny Peters, boiler inspector. I'm the inspector	23.	MR. BOWERS: Do you feel like their	
24.	that has registered the boiler with the State, and	24.	boiler operators do a good job there?	
25.	the boiler is about a 500-horsepower boiler.	25.	MR. PETERS: Yes. I talked with	
	and solid is about a 500 horsepower bonon	25.	Militarano. Test Tunked with	
1				
	Page 4	6	Pac	ge 48
1	Page 4 There's two of them and a DA tank. I registered			ge 48
1.	There's two of them and a DA tank. I registered	1.	them. I could tell. You know. You could tell	ge 48
2.	There's two of them and a DA tank. I registered those through the permit procedure. I've seen these	1. 2.	them. I could tell. You know. You could tell after a while with this communication, but they	ge 48
2. 3.	There's two of them and a DA tank. I registered those through the permit procedure. I've seen these boilers and seen the facility a couple times. I've	1. 2. 3.	them. I could tell. You know. You could tell after a while with this communication, but they had their computer room was compatible to the	ge 48
2. 3. 4.	There's two of them and a DA tank. I registered those through the permit procedure. I've seen these boilers and seen the facility a couple times. I've been back on an internal, external, run through	1. 2. 3. 4.	them. I could tell. You know. You could tell after a while with this communication, but they had their computer room was compatible to the Hawk system on both the Cleaver-Brooks boilers. We	ge 48
2. 3. 4. 5.	There's two of them and a DA tank. I registered those through the permit procedure. I've seen these boilers and seen the facility a couple times. I've been back on an internal, external, run through low-water cutoff alarms, flame failure on both the	1. 2. 3. 4. 5.	them. I could tell. You know. You could tell after a while with this communication, but they had their computer room was compatible to the Hawk system on both the Cleaver-Brooks boilers. We went through a scenario with low-water cutoff. I	ge 48
2. 3. 4. 5. 6.	There's two of them and a DA tank. I registered those through the permit procedure. I've seen these boilers and seen the facility a couple times. I've been back on an internal, external, run through low-water cutoff alarms, flame failure on both the boilers. The company is I mean, you could eat	1. 2. 3. 4. 5. 6.	them. I could tell. You know. You could tell after a while with this communication, but they had their computer room was compatible to the Hawk system on both the Cleaver-Brooks boilers. We went through a scenario with low-water cutoff. I looked at their process that they do inside the	ge 48
2. 3. 4. 5. 6. 7.	There's two of them and a DA tank. I registered those through the permit procedure. I've seen these boilers and seen the facility a couple times. I've been back on an internal, external, run through low-water cutoff alarms, flame failure on both the boilers. The company is I mean, you could eat off the floor if you'd see the company. It's I	1. 2. 3. 4. 5. 6. 7.	them. I could tell. You know. You could tell after a while with this communication, but they had their computer room was compatible to the Hawk system on both the Cleaver-Brooks boilers. We went through a scenario with low-water cutoff. I looked at their process that they do inside the boiler room or the boiler control room with their	ge 48
2. 3. 4. 5. 6. 7. 8.	There's two of them and a DA tank. I registered those through the permit procedure. I've seen these boilers and seen the facility a couple times. I've been back on an internal, external, run through low-water cutoff alarms, flame failure on both the boilers. The company is I mean, you could eat off the floor if you'd see the company. It's I mean, it has to be sterilized. They said that they	1. 2. 3. 4. 5. 6. 7. 8.	them. I could tell. You know. You could tell after a while with this communication, but they had their computer room was compatible to the Hawk system on both the Cleaver-Brooks boilers. We went through a scenario with low-water cutoff. I looked at their process that they do inside the boiler room or the boiler control room with their operator, and I was well pleased at how they	ge 48
2. 3. 4. 5. 6. 7. 8. 9.	There's two of them and a DA tank. I registered those through the permit procedure. I've seen these boilers and seen the facility a couple times. I've been back on an internal, external, run through low-water cutoff alarms, flame failure on both the boilers. The company is I mean, you could eat off the floor if you'd see the company. It's I mean, it has to be sterilized. They said that they work in the medical industry with people that need	1. 2. 3. 4. 5. 6. 7. 8.	them. I could tell. You know. You could tell after a while with this communication, but they had their computer room was compatible to the Hawk system on both the Cleaver-Brooks boilers. We went through a scenario with low-water cutoff. I looked at their process that they do inside the boiler room or the boiler control room with their operator, and I was well pleased at how they maintained it.	ge 48
2. 3. 4. 5. 6. 7. 8. 9.	There's two of them and a DA tank. I registered those through the permit procedure. I've seen these boilers and seen the facility a couple times. I've been back on an internal, external, run through low-water cutoff alarms, flame failure on both the boilers. The company is I mean, you could eat off the floor if you'd see the company. It's I mean, it has to be sterilized. They said that they work in the medical industry with people that need dialysis. And the process is I mean, it's	1. 2. 3. 4. 5. 6. 7. 8. 9.	them. I could tell. You know. You could tell after a while with this communication, but they had their computer room was compatible to the Hawk system on both the Cleaver-Brooks boilers. We went through a scenario with low-water cutoff. I looked at their process that they do inside the boiler room or the boiler control room with their operator, and I was well pleased at how they maintained it. MR. BAUGHMAN: Danny, I'll just ask	ge 48
2. 3. 4. 5. 6. 7. 8. 9. 10.	There's two of them and a DA tank. I registered those through the permit procedure. I've seen these boilers and seen the facility a couple times. I've been back on an internal, external, run through low-water cutoff alarms, flame failure on both the boilers. The company is I mean, you could eat off the floor if you'd see the company. It's I mean, it has to be sterilized. They said that they work in the medical industry with people that need dialysis. And the process is I mean, it's 100-percent sterile.	1. 2. 3. 4. 5. 6. 7. 8. 9.	them. I could tell. You know. You could tell after a while with this communication, but they had their computer room was compatible to the Hawk system on both the Cleaver-Brooks boilers. We went through a scenario with low-water cutoff. I looked at their process that they do inside the boiler room or the boiler control room with their operator, and I was well pleased at how they maintained it. MR. BAUGHMAN: Danny, I'll just ask you real quick. You mentioned checking low waters,	ge 48
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		Page 49			Page 51
1.	being reopened. And if it sticks in the closed	- 1.61	1.	boiler room and the showing the exits on that	
2.	position and then you lose the blower motor, the		2.	and modifying the shutoffs to one. So	
3.	boiler thinks it's still got air and it'll load up		3.	MR. WATTS: One E-stop.	
4.	and have what we refer to as a self-cleaning stack		4.	MR. NEVILLE: One E-stop. Those are	
5.	incident.		5.	the three items that I had or four items that I	
6.	MR. PETERS: Will that show in the		6.	had that we will modify.	
7.	computer readout as it goes through the purge? Will		7.	MR. BAUGHMAN: I've got one other	
8.	it show that, though, that it's proved?		8.	item to address and that's on page H-1 under	
9.	MR. BAUGHMAN: Yes.		9.	Appendix H, the Boiler Variance Training Log.	
10.	MR. PETERS: The power switch.		10.	MR. NEVILLE: Yes.	
11.	MR. BAUGHMAN: If it's in the closed		11.	MR. BAUGHMAN: So where do we	
12.	position. Let's say the airflow switch is stuck		12.	presently stand? As of today, we've got no training	
13.	closed. It's a diaphragm switch, so it can stay		13.	that's in place	
14.	closed. So it'll go through a pre-purge and it'll		14.	MR. NEVILLE: That's	
15.	come back down and go into the ignition sequence,		15.	MR. BAUGHMAN: according to the	
16.	and it'll try to light off, because it things its		16.	log sheet.	
17.	got air, because that airflow switch is closed.		17.	MR. NEVILLE: That is correct.	
18.	So it's an important part of what		18.	MR. BAUGHMAN: Okay.	
19.	we're checking to make sure that that airflow		19.	MR. NEVILLE: Right. I mean, you	
20.	switch is working properly. And, of course, if we		20.	know, we're applying for a variance. You know.	
21.	don't check it, we don't know. But so what I'm		21.	Once the variance is approved, then we would train	
22.	getting at is these controls, as sophisticated as		22.	individuals on what the variance is, because this	
23.	they are, man made them. Man's operating it. Man		23.	document could change, so we don't want to train	
24.	maintains it. And if man's involved, it's not		24.	them to a document that hasn't been approved by the	
25.	perfect.		25.	Board.	
20.	Position.			2344	
		Page 50			Page 52
1.	So working as a team within this		1.	MR. FOX: There's normally a pretty	
2.	aspect, we want to make sure that we're all		2.	high turnover rate with security personnel, we've	
3.	working towards the goal of not talking about an		3.	seen in the past. Is that something that when	
4.	incident.		4.	you receive a new security officer, they're going to	
5.	MR. PETERS: I'll make sure that we		5.	get trained?	
6.	do go through a safety check with that airflow the		6.	MR. WATTS: That's a good point.	
7.	next time.		7.	It's possible. Most likely, you're correct in that.	
8.	MR. BAUGHMAN: Super.		8.	We will train anyone who is new that comes in prior	
9.	MR. PISCHKE: Any other questions,		9.	to them coming in. We'll be notified that the	
10.	comments? Well, what's your pleasure, as far as		10.	person who was supposed to come in is not going to	
11.	you want us to vote or would you like to revise?		11.	come in for whatever reason. They won't necessarily	
12.	MR. NEVILLE: I'd like to go over the		12.	divulge that, but we will train them ahead of time	
13.	items that we will revise for the first of all,		13.	before their scheduled start date.	
14.	as far as the security officer, we will have this		14.	MR. PISCHKE: Can we see some of	
15.	is was provided by the security company that they		15.	those spelled out in more detail in the manual,	
16.	work with. We will have a tailored one, as well,		16.	those types	
17.	for the other shifts where they're just operating		17.	MR. NEVILLE: Right.	
18.	one security officer at the so we would like to		18.	MR. PISCHKE: of agreements with	
19.	provide a manual with additional information there.		19.	security?	
20.	Also, on the deaerator information,		20.	MR. NEVILLE: As far as their	
21.	we will update that with the Tennessee Number and		21.	training before	
22.	the seven pound operating pressure for that.		22.	MR. PISCHKE: Training and	
23.	And I believe those were the and		23.	requirements and	
24.	one other piece of information that was mentioned		24.	MR. NEVILLE: Okay.	
25.	as far as the boiler room, a plot plan of the		25.	MR. PISCHKE: verification of	
	Provided by Stone & G	eorge C	oui	rt Reporting (615) 268-1244	

		Page 53			Page 55
1.	training and before they	1 480 33	1.	MR. ROBINSON: Attendant.	ruge 33
2.	MR. NEVILLE: Okay.		2.	MR. NEVILLE: So we have	
3.	MR. BAUGHMAN: And refresh me again,		3.	MR. ROBINSON: So if you would so	
4.	who's in charge of training personnel?		4.	anybody new coming into if you get a phone call	
5.	MR. WATTS: We have Boiler Supply		5.	for replacement of a new security guard, then you	
6.	training the technicians, and then the technicians		6.	MR. WATTS: Right.	
7.	are training the security personnel.		7.	MR. ROBINSON: are responsible for	
8.	MR. BAUGHMAN: And for new hires,		8.	making sure	
9.	when they come in, who is going to be responsible?		9.	MR. NEVILLE: And keeping the log	
10.	MR. WATTS: We have a training		10.	MR. WATTS: Right.	
11.	organization that is giving them orientation, and		11.	MR. NEVILLE: of that training.	
12.	they'll give them, you know, the basics. And then		12.	MR. WATTS: That's correct.	
13.	whenever they're finished with that, our engineering		13.	MR. ROBINSON: Dave, does that	
14.	techs will go over the same trainings for the		14.	MR. PISCHKE: Does that clarify?	
15.	boiler.		15.	MR. BAUGHMAN: Somewhat. You	
16.	MR. BAUGHMAN: And is that laid out		16.	mentioned there was somebody else that you just	
17.	in the manual, James?		17.	mentioned that's involved in training, too, that	
18.	MR. NEVILLE: As far as the training,		18.	I	
19.	if you'll look on G-6, you know, we've got on-site		19.	MR. WATTS: Well, we have a	
20.	boiler training there listed. But as far as more		20.	MR. BAUGHMAN: need clarification	
21.	detail than that, no, we don't we have not		21.	on.	
22.	documented that.		22.	MR. WATTS: corporate trainer who	
23.	MR. ROBINSON: Page 5, Paragraph 2.		23.	does orientation. You know. Things like, you know,	
24.	MR. NEVILLE: Yes. Yes. Regarding		24.	your basic general company policies and things of	
25.	training for the boiler variance.		25.	that nature. And then we have the training for the	
				6	
		Page 54			Page 56
1.	MR. ROBINSON: Right.	Page 54	1.	specific job duties of what the boiler requirements	Page 56
1. 2.	MR. ROBINSON: Right. MR. NEVILLE: Yes.	Page 54	1. 2.	specific job duties of what the boiler requirements are with checks and things like that. And then the	Page 56
1	_	Page 54			Page 56
2.	MR. NEVILLE: Yes.	Page 54	2.	are with checks and things like that. And then the	Page 56
2. 3.	MR. NEVILLE: Yes. MR. ROBINSON: Yes.	Page 54	2. 3.	are with checks and things like that. And then the training of the book, obviously, is part of it, as	Page 56
2. 3. 4.	MR. NEVILLE: Yes. MR. ROBINSON: Yes. MR. NEVILLE: Yes. Okay.	Page 54	2. 3. 4.	are with checks and things like that. And then the training of the book, obviously, is part of it, as well.	Page 56
2. 3. 4. 5.	MR. NEVILLE: Yes. MR. ROBINSON: Yes. MR. NEVILLE: Yes. Okay. MR. ROBINSON: But now, which leads	Page 54	2. 3. 4. 5.	are with checks and things like that. And then the training of the book, obviously, is part of it, as well. MR. BAUGHMAN: So there's some	Page 56
2. 3. 4. 5. 6.	MR. NEVILLE: Yes. MR. ROBINSON: Yes. MR. NEVILLE: Yes. Okay. MR. ROBINSON: But now, which leads me to another question.	Page 54	 2. 3. 4. 5. 6. 	are with checks and things like that. And then the training of the book, obviously, is part of it, as well. MR. BAUGHMAN: So there's some multiple entities that'd be involved in training, it sounds.	Page 56
2. 3. 4. 5. 6. 7.	MR. NEVILLE: Yes. MR. ROBINSON: Yes. MR. NEVILLE: Yes. Okay. MR. ROBINSON: But now, which leads me to another question. MR. NEVILLE: Yes.	Page 54	2. 3. 4. 5. 6. 7.	are with checks and things like that. And then the training of the book, obviously, is part of it, as well. MR. BAUGHMAN: So there's some multiple entities that'd be involved in training, it	Page 56
2. 3. 4. 5. 6. 7. 8.	MR. NEVILLE: Yes. MR. ROBINSON: Yes. MR. NEVILLE: Yes. Okay. MR. ROBINSON: But now, which leads me to another question. MR. NEVILLE: Yes. MR. ROBINSON: Who is the facilities	Page 54	2. 3. 4. 5. 6. 7. 8.	are with checks and things like that. And then the training of the book, obviously, is part of it, as well. MR. BAUGHMAN: So there's some multiple entities that'd be involved in training, it sounds. MR. WATTS: To get someone up to	
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2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22.	MR. NEVILLE: Yes. MR. ROBINSON: Yes. MR. NEVILLE: Yes. Okay. MR. ROBINSON: But now, which leads me to another question. MR. NEVILLE: Yes. MR. ROBINSON: Who is the facilities and maintenance manager? MR. WATTS: That's me. MR. ROBINSON: You're responsible for training all incoming personnel assigned to boiler duties and keeping a documentation log. MR. NEVILLE: Yes. MR. ROBINSON: But you said it was Boiler Supply. MR. WATTS: Well, Boiler Supply trains our engineering technician our yeah, engineering MR. NEVILLE: Boiler attendant. Right. The boiler attendants are trained by Boiler Supply. So I guess we've got two things going on	Page 54	2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22.	are with checks and things like that. And then the training of the book, obviously, is part of it, as well. MR. BAUGHMAN: So there's some multiple entities that'd be involved in training, it sounds. MR. WATTS: To get someone up to speed, yes. A new person. That's correct. MR. BAUGHMAN: Okay. And that should be identified, also, a little MR. WATTS: Okay. MR. BAUGHMAN: more clarification on because, as we know, this is a copy and paste, James. MR. NEVILLE: Well MR. BAUGHMAN: This is very much MR. NEVILLE: as far as the facility and maintenance manager, you know, he is the one person responsible for making sure the documentation is filled out. I mean, he is will have subordinates that he's handing off the training	
2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23.	MR. NEVILLE: Yes. MR. ROBINSON: Yes. MR. NEVILLE: Yes. Okay. MR. ROBINSON: But now, which leads me to another question. MR. NEVILLE: Yes. MR. ROBINSON: Who is the facilities and maintenance manager? MR. WATTS: That's me. MR. ROBINSON: You're responsible for training all incoming personnel assigned to boiler duties and keeping a documentation log. MR. NEVILLE: Yes. MR. ROBINSON: But you said it was Boiler Supply. MR. WATTS: Well, Boiler Supply trains our engineering technician our yeah, engineering MR. NEVILLE: Boiler attendant. Right. The boiler attendants are trained by Boiler Supply. So I guess we've got two things going on here. The training to the variance manual, how we	Page 54	2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23.	are with checks and things like that. And then the training of the book, obviously, is part of it, as well. MR. BAUGHMAN: So there's some multiple entities that'd be involved in training, it sounds. MR. WATTS: To get someone up to speed, yes. A new person. That's correct. MR. BAUGHMAN: Okay. And that should be identified, also, a little MR. WATTS: Okay. MR. BAUGHMAN: more clarification on because, as we know, this is a copy and paste, James. MR. NEVILLE: Well MR. BAUGHMAN: This is very much MR. NEVILLE: as far as the facility and maintenance manager, you know, he is the one person responsible for making sure the documentation is filled out. I mean, he is will have subordinates that he's handing off the training to. We can document that, if that's what you	

	Pa	age 57		Page 59
1.	saying that he's responsible for the	1	. there?	ruge 37
2.	documentation	2	. MR. BAUGHMAN: You cannot.	
3.	MR. NEVILLE: Yes.	3		
4.	MR. BAUGHMAN: but it also says	4	•	
5.	he's responsible for training. Not just responsible	5	. MR. BAUGHMAN: Oh, no	
6.	for documentation	6		
7.	MR. NEVILLE: Right.	7	. conflict with this one.	
8.	MR. BAUGHMAN: but he's	8	. MR. BAUGHMAN: this isn't a	
9.	responsible for the training, as this states.	9	. conflict. I'm sorry. Excuse me.	
10.	MR. NEVILLE: Absolutely.	10		
11.	MR. BAUGHMAN: Okay. And from what	11		
12.	he's saying is that others are involved in that	12	•	
13.	training, also, not just himself. And so I since	13	. MR. BAUGHMAN: You're the new guy.	
14.	there's multiple entities involved in training	14		
15.	MR. NEVILLE: Absolutely.	15	. MR. BAUGHMAN: You cannot. No, I'm	
16.	MR. BAUGHMAN: they need to be	16		
17.	identified.	17		
18.	MR. NEVILLE: Okay.	18	•	
19.	MR. PISCHKE: Any other questions,	19		
20.	comments, clarifications?	20		
21.	MR. BAUGHMAN: Well, the only other	21	. MR. PISCHKE: Do I	
22.	clarification I've got, Mike, is under Personnel	22	. MR. BAILEY: He didn't have a	
23.	Responsible for Remote Monitoring, in the first	23	. conflict with this one.	
24.	section, Remote Station Personnel, it just says, a	24	. MR. ROBINSON: Okay.	
25.	trained boiler operator must attend the boiler, and	25	MR. BAILEY: It was the other one.	
	Pa	ige 58		Page 60
1.	Pa I don't see anything under "boiler operators" as job	nge 58	. MR. ROBINSON: Okay. Good. That's	Page 60
1. 2.		·	•	Page 60
1	I don't see anything under "boiler operators" as job	1	. my fault.	Page 60
2.	I don't see anything under "boiler operators" as job descriptions. I see "security officer" and	1 2	. my fault MR. BOWERS: Yeah.	Page 60
2. 3.	I don't see anything under "boiler operators" as job descriptions. I see "security officer" and "engineering maintenance tech II/boiler attendant,	1 2 3	. my fault MR. BOWERS: Yeah MR. BAUGHMAN: Yeah.	Page 60
2. 3. 4.	I don't see anything under "boiler operators" as job descriptions. I see "security officer" and "engineering maintenance tech II/boiler attendant, but I don't see a trained boiler operator. MR. NEVILLE: Right. And MR. BAUGHMAN: And so just from a	1 2 3 4	my fault. MR. BOWERS: Yeah. MR. BAUGHMAN: Yeah. MR. PISCHKE: Yeah.	Page 60
2. 3. 4. 5.	I don't see anything under "boiler operators" as job descriptions. I see "security officer" and "engineering maintenance tech II/boiler attendant, but I don't see a trained boiler operator. MR. NEVILLE: Right. And	1 2 3 4 5	. my fault MR. BOWERS: Yeah MR. BAUGHMAN: Yeah MR. PISCHKE: Yeah MR. BAUGHMAN: No, I did the same	Page 60
2. 3. 4. 5. 6.	I don't see anything under "boiler operators" as job descriptions. I see "security officer" and "engineering maintenance tech II/boiler attendant, but I don't see a trained boiler operator. MR. NEVILLE: Right. And MR. BAUGHMAN: And so just from a	1 2 3 4 5	my fault. MR. BOWERS: Yeah. MR. BAUGHMAN: Yeah. MR. PISCHKE: Yeah. MR. BAUGHMAN: No, I did the same thing.	Page 60
2. 3. 4. 5. 6. 7. 8. 9.	I don't see anything under "boiler operators" as job descriptions. I see "security officer" and "engineering maintenance tech II/boiler attendant, but I don't see a trained boiler operator. MR. NEVILLE: Right. And MR. BAUGHMAN: And so just from a clarification standpoint, a trained boiler attendant since we don't have an operator listed in any capacities not unless I missed	1 2 3 4 5 6	my fault. MR. BOWERS: Yeah. MR. BAUGHMAN: Yeah. MR. PISCHKE: Yeah. MR. BAUGHMAN: No, I did the same thing. MR. PISCHKE: He did the same thing. MR. BAILEY: We'll make sure this is	Page 60
2. 3. 4. 5. 6. 7. 8.	I don't see anything under "boiler operators" as job descriptions. I see "security officer" and "engineering maintenance tech II/boiler attendant, but I don't see a trained boiler operator. MR. NEVILLE: Right. And MR. BAUGHMAN: And so just from a clarification standpoint, a trained boiler attendant since we don't have an operator listed in any capacities not unless I missed MR. NEVILLE: Right. I mean, that	1 2 3 4 5 6 7 8	my fault. MR. BOWERS: Yeah. MR. BAUGHMAN: Yeah. MR. PISCHKE: Yeah. MR. BAUGHMAN: No, I did the same thing. MR. PISCHKE: He did the same thing. MR. BAILEY: We'll make sure this is right.	Page 60
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2. 3. 4. 5. 6. 7. 8. 9.	I don't see anything under "boiler operators" as job descriptions. I see "security officer" and "engineering maintenance tech II/boiler attendant, but I don't see a trained boiler operator. MR. NEVILLE: Right. And MR. BAUGHMAN: And so just from a clarification standpoint, a trained boiler attendant since we don't have an operator listed in any capacities not unless I missed MR. NEVILLE: Right. I mean, that would be I mean, the only trained boiler operator would be the engineering maintenance technician II,	1 2 3 4 5 6 7 8 9 10 11 12	my fault. MR. BOWERS: Yeah. MR. BAUGHMAN: Yeah. MR. PISCHKE: Yeah. MR. BAUGHMAN: No, I did the same thing. MR. PISCHKE: He did the same thing. MR. PISCHKE: We'll make sure this is right. MR. BOWERS: Yeah. I move to vote, yea or nay on this, contingent and that this stuff	Page 60
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	P:	age 61		Page
1.	fix the things that you have pointed out.	age of	1.	much. We're going to take a brief 10-minute break.
2.	MR. BOWERS: Yes. Okay.		2.	Yeah.
3.	MR. BAILEY: So I mean, that so		3.	And we have a presentation before the
4.	which way do you want to go?		4.	break. Can we
5.	MR. BOWERS: To a vote to accept		5.	MS. RHONE: I have a just before
6.	it and that they fix the update the stuff they		6.	the break, we have a special presentation. During
7.	MR. BAILEY: Okay. Thank you. Any		7.	our trainings, we have what we call the
8.	second?		8.	Douglas Pippin Memorial Award. We implemented that
9.	MR. PISCHKE: Do we have a second?		9.	in 2004, and that was based on we had Assistant
0.	No second?		10.	Chief, Douglas Pippin, who passed away in 2004. So
1.	MR. FOX: I'll second that.		11.	each year, during our conference, we like to
2.	MR. PISCHKE: Okay. So I'll call for	- 1	12.	recognize one of our boiler inspectors, which we
3.	•	- 1		
	the question. All those in favor, say, "aye."	- 1	13.	know all of them are very diligent. But we'd like
4.	(No verbal response.)		14.	to recognize one of our boiler inspectors.
5.	MR. PISCHKE: Opposed?		15.	And this year, our award says, on the
6.	THE REPORTER: You have to say it	- 1	16.	Department of Labor and Workforce Development
7.	verbally, please.		17.	Workplace Regulations and Compliance, be it known
8.	MR. BOWERS: Aye.		18.	that Dallas Word
9.	MR. PISCHKE: Two ayes. Opposed.		19.	(Applause.)
0.	MR. BAUGHMAN: No.		20.	MS. RHONE: that Dallas Word is
21.	MR. PISCHKE: One no.		21.	awarded the 2017 Douglas Pitman Memorial Achievement
2.	MR. BAILEY: Am I allowed to vote		22.	Award in recognition of outstanding commitment and
3.	on		23.	dedication to the interest and achievements of the
4.	MR. BAUGHMAN: Yes.		24.	goals of the Tennessee Boiler Unit this 20th day of
5.	MR. PISCHKE: Okay. I vote for,		25.	September, 2017.
	P ₁	age 62		Page (
1.	based on		1.	(Applause.)
2.	MR. NEVILLE: Based on the		2.	MS. RHONE: All right.
3.	modifications that		3.	Congratulations.
4.	MR. PISCHKE: the contingencies.		4.	MR. WORD: Thank you.
5.	MR. BAUGHMAN: I'd like to add		5.	MR. BAUGHMAN: Still going to take a
<i>5</i> .	MR. NEVILLE: Thank you.		<i>5</i> .	break?
	•		7.	
7.	MR. BAUGHMAN: do we have ever see			MR. PISCHKE: Going to take a break.
8.	the revision ourselves? We do not? You said we do?		8.	(Recess observed.)
9.	MR. CHAPMAN: We do.		9.	MR. PISCHKE: Okay. We'll get
0.	MR. BAUGHMAN: And when do we see		10.	started again. The next item on the agenda is
1.	those?		11.	17-13, Milan General Hospital. Representative?
2.	MR. CHAPMAN: No. The Board doesn't,		12.	MR. NEVILLE: This is James Neville
3.	but I get them.		13.	with Neville Engineering. I represent Milan General
4.	MR. BAUGHMAN: You get them.		14.	Hospital.
5.	MR. CHAPMAN: I get them.		15.	MR. MUMMERT: And I'm Derrick
6.	MR. NEVILLE: Mr. Chapman checks		16.	Mummert. I'm the maintenance manager from the
7.	those. Yes, sir.		17.	hospital.
8.	MR. PISCHKE: The motion carries, by		18.	MR. BAUGHMAN: Hey, Derrick.
9.	the way.		19.	MR. MUMMERT: Hello.
0.	MR. NEVILLE: Okay. We're approved.		20.	MR. NEVILLE: We're back today to
1.	Thank you.	- 1	21.	request
2.	MR. BAUGHMAN: Good job, guys.		22.	MR. BAILEY: Excuse me. Any
.2.			23.	conflicts?
	MR. NEVILLE: Thank you.	- 1		
24.	MR. BOWERS: Good job. Yeah.		24.	MR. PISCHKE: Oh, I'm sorry. Yes.
25.	MR. PISCHKE: Yeah. Thank you very		25.	Thank you. I had it written right here, too. Are
	Provided by Stone & Geo	vrae C		

Page 6 onflicts of interest that we need to his time? Okay. Hearing none, please R. NEVILLE: We're here today to other variance for two boilers. These operated on-demand 24 hours a day, seven as, furnishing high-pressure steam for ag, potable water heating, dietary sterilizers, and humidification. Appendix A-2, it lists those have you flip there and we'll R. MUMMERT: A-1. It's A-1. R. NEVILLE: Or A-1. Pardon me. others are Tennessee Number T106752 and Chose are both Cleaver Brooks boilers.	1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13.	As far as the other folks, we do a I do a walkthrough, which show them where all the mercy stops are, where the alarm panel's located, and I also do that with the department managers every six months, just as a refresher, because it is a hospital. We want to make sure if no matter who's there, somebody has the ability or knows where the location of all the safety shutdowns are for these. MR. PISCHKE: Okay. MR. NEVILLE: Also at the remote	Page 67
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Appendix A-2, it lists those have you flip there and we'll R. MUMMERT: A-1. It's A-1. R. NEVILLE: Or A-1. Pardon me. poilers are Tennessee Number T106752 and	10. 11. 12.	MR. PISCHKE: Okay.	
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R. MUMMERT: A-1. It's A-1. R. NEVILLE: Or A-1. Pardon me. poilers are Tennessee Number T106752 and	12.	MR. NEVILLE: Also at the remote	
R. NEVILLE: Or A-1. Pardon me. poilers are Tennessee Number T106752 and			
oilers are Tennessee Number T106752 and	13.	station, there is a new shutoff panel	
		MR. MUMMERT: Yes.	
hose are both Cleaver Brooks boilers	14.	MR. NEVILLE: that has been	
me com creater brooks somets.	15.	installed that is you have listed. So	
manufactured in 2015.	16.	previously, that was a deficiency as far as the	
h of those boilers have the	17.	control system. So that has been modified.	
control system. In the site plan, we	18.	MR. MUMMERT: Yes.	
er room and the remote station. And	19.	MR. PISCHKE: Okay. That	
distance between those is 192 feet.	20.	MR. NEVILLE: If there are any	
individuals that will be	21.	questions, we'd like	
those boilers at the remote station is	22.	MR. PISCHKE: Okay. Do I have a	
y therapist. They will be monitoring	23.	motion to discuss?	
anel and responding to alarms. And the	24.	MR. BAUGHMAN: Motion to discuss.	
that will be monitoring as boiler	25.	MR. FOX: I'll second.	
··			
Page 6	6		Page 68
- there are three or four listed.	1.	MR. PISCHKE: Second? Okay. So	
three listed. The maintenance manager	2.	questions, comments? Do we have	
r maintenance mechanic, and the	3.	MR. BAUGHMAN: One or two.	
ntenance mechanic. Those are listed on	4.	MR. PISCHKE: Okay.	
	5.	MR. BAUGHMAN: Your name again is	
R. MUMMERT: And I actually have	6.	MR. MUMMERT: Derrick.	
maintenance mechanics.	7.	MR. BAUGHMAN: You look familiar.	
R. NEVILLE: So we've detailed the	8.	MR. MUMMERT: I was here in March.	
procedures for this when an alarm and	9.	MR. BAUGHMAN: I thought you looked	
ge 10 on the colored page part of the	10.	familiar.	
Ve've listed our emergency call list on	11.	MR. MUMMERT: Yeah. I had to go back	
nd as far as training the individuals to	12.	and fix some things, but that's all hopefully	
1	13.	and hire somebody to help me.	
endants, if you'd like to elaborate on	14.	MR. BAUGHMAN: Okay. And this is for	
endants, if you'd like to elaborate on e trained	15.	that same hospital?	
	115.	MR. MUMMERT: Yes. Uh-huh.	
e trained	16.		
e trained R. MUMMERT: Yeah. Morgan &	- 1	MR. BAUGHMAN: Okay. And how many	
e trained R. MUMMERT: Yeah. Morgan & s coming out of Memphis. They did my	16.	MR. BAUGHMAN: Okay. And how many hospitals are you responsible for?	
e trained R. MUMMERT: Yeah. Morgan & s coming out of Memphis. They did my -out. When they did the actual	16. 17.		
e trained R. MUMMERT: Yeah. Morgan & s coming out of Memphis. They did my -out. When they did the actual once it was up and running, they did a	16. 17. 18.	hospitals are you responsible for?	
e trained R. MUMMERT: Yeah. Morgan & s coming out of Memphis. They did my -out. When they did the actual once it was up and running, they did a aining with my guys for a day to make	16. 17. 18. 19.	hospitals are you responsible for? MR. MUMMERT: Two hospitals and two	
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e tra R. M s co -out	oming out of Memphis. They did my . When they did the actual	·	16. Hospitals are you responsible for:

	Page 69	1		Page 71
1.	shoulder.	1.	MR. BAUGHMAN: Okay.	
2.	Being that, we've got three senior	2.	MR. MUMMERT: 6:00 to 2:30.	
3.	mechanics. Are those three senior mechanics also	3.	MR. BAUGHMAN: 6:00 to 2:30. So that	
4.	spread between two hospitals and two medical	4.	leaves a little gap	
5.	centers?	5.	MR. MUMMERT: Uh-huh.	
6.	MR. MUMMERT: I've got one that's	6.	MR. BAUGHMAN: of no	
7.	part-time, and he stays in Gibson County, which is	7.	maintenance	
8.	where Milan Hospital is at. He stays only in those	8.	MR. MUMMERT: That's correct.	
9.	three facilities there, because Humboldt, Trenton,	9.	MR. BAUGHMAN: techs on site.	
10.	and Milan's all in Gibson County. So he stays in	10.	MR. MUMMERT: All my guys also carry	
11.	between those three, as needed. The other two are	11.	cell phones that are tied into the computer system.	
12.	full-time at Milan.	12.	So any time there's an issue, regardless one of	
13.	MR. BAUGHMAN: So we've got one	13.	them's on-call 24/7, every day. Regardless of which	
14.	part-time in you said Gibson. Is that Milan	14.	one goes off, which well, I mean, if the boiler	
15.	also?	15.	goes off, no matter which one is on call, they all	
16.	MR. MUMMERT: Yes. Uh-huh. Milan.	16.	get the phone call. Even I do. So all five of us	
17.	MR. BAUGHMAN: Okay. So we've got	17.	get the phone call.	
18.	one part-time and two full-time.	18.	MR. BAUGHMAN: Via the computer.	
19.	MR. MUMMERT: Senior maintenance.	19.	MR. MUMMERT: Correct.	
20.	And there's one general maintenance that stays at	20.	MR. BAUGHMAN: You ever have a	
21.	Humboldt who also covers for Milan.	21.	computer issue?	
22.	MR. BAUGHMAN: Okay. And then we've	22.	MR. MUMMERT: Oh, yes.	
23.	got one in Humboldt.	23.	MR. BAUGHMAN: Me, too.	
24.	MR. MUMMERT: Yes.	24.	MR. MUMMERT: All the time.	
25.	MR. BAUGHMAN: Which is how far from	25.	MR. PISCHKE: Once or twice.	
	Page 70			Page 72
1.	Page 70 Milan?	1.	MR. BAUGHMAN: Yeah. So during those	Page 72
1. 2.	-	1. 2.	MR. BAUGHMAN: Yeah. So during those times that there are not any technicians, there's	Page 72
	Milan?	1	6	Page 72
2.	Milan? MR. MUMMERT: Eighteen miles.	2.	times that there are not any technicians, there's	Page 72
2. 3.	Milan? MR. MUMMERT: Eighteen miles. MR. BAUGHMAN: Okay. So personnel	2. 3.	times that there are not any technicians, there's always a respiratory therapist that'll be	Page 72
2. 3. 4.	Milan? MR. MUMMERT: Eighteen miles. MR. BAUGHMAN: Okay. So personnel that are at the hospital at any one time, besides	2. 3. 4.	times that there are not any technicians, there's always a respiratory therapist that'll be MR. MUMMERT: 24/7. There's usually	Page 72
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2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24.	MR. MUMMERT: Eighteen miles. MR. BAUGHMAN: Okay. So personnel that are at the hospital at any one time, besides the respiratory therapist would be who? MR. MUMMERT: Engineering-wise? MR. BAUGHMAN: No. Just who would be responsible for the boiler? MR. MUMMERT: I'm there two days a week and my two senior maintenance mechanics work Monday through Friday. And then also, the administrator. When I'm not there she kind of picks up as the department manager when I'm not there. If there's questions that come up, she'll have to take care of that. She's there all week, Monday through Friday. MR. BAUGHMAN: So we've got two at least two maintenance people that are there MR. MUMMERT: Monday through Friday. MR. BAUGHMAN: Monday through Friday. MR. MUMMERT: Correct. MR. BAUGHMAN: Do they work 12-hour shifts?	2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24.	times that there are not any technicians, there's always a respiratory therapist that'll be MR. MUMMERT: 24/7. There's usually two at a time. MR. BAUGHMAN: There's two at a time. MR. NEVILLE: Yeah. MR. BAUGHMAN: Okay. Is there ever an instance where, for lack of a more diplomatic term, I guess, where multiple people can be coughing up a lung, that the respiratory therapist may be at multiple patients? MR. MUMMERT: You're talking about, like, after hours when maintenance is not there MR. BAUGHMAN: At any MR. MUMMERT: or any time? MR. BAUGHMAN: time. MR. MUMMERT: Well, yeah. That's possible. Yes. MR. BAUGHMAN: Okay. MR. MUMMERT: During the day, it's not so much of an issue, as long as I've got guys there. Yes. MR. BAUGHMAN: Sure. So but	Page 72
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Page 7			Page 75
maintenance wouldn't be at the nurses station to	1.	hospital, because we're so big and do so much	ruge 75
monitor, should there be an event where these people	2.	÷	
	4.	•	
MR. MUMMERT: That's correct.	5.		
MR. BAUGHMAN: Okay.	6.		
•	7.	MR. BAUGHMAN: and moving forward	
work hours.	8.	to	
MR. BAUGHMAN: Sure.	9.	MR. MUMMERT: There's no plans in the	
MR. MUMMERT: Yeah.	10.	-	
MR. NEVILLE: That would revert to	11.		
the 20-minute rule	12.		
MR. MUMMERT: Yeah.	13.	•	
	14.		
	15.		
	16.		
remote station	17.		
	- 1	•	
		· · · · · · · · · · · · · · · · · · ·	
	- 1	•	
	- 1	•	
and similar someody is in medical straights—and	25.	everyone there, every line an iero. We might	
Page 7	'4		Page 76
just talking real life.	1.	have six of them. That way, they could see	
MR. MUMMERT: Right.	2.	different perspectives from different ones. So,	
MR. BAUGHMAN: that they're going	3.	you know, everybody's got their little pet peeves.	
to take the time to get somebody in to monitor the	4.	So we try to rotate them with everybody so that	
boilers and wait for them to monitor the boilers	5.	it's not the same person training them. You know.	
while this patient's in	6.	MR. BAUGHMAN: You bet. I can	
MR. MUMMERT: Respiratory therapy is	7.	imagine I mean, especially going in and being a	
an occupation that's going away, basically. I mean,	8.	therapist and a nurse and going into this piece of	
I hate to say that, but it's going by the wayside.	9.	equipment.	
Most all of the nurses now aren't being trained	10.	MR. MUMMERT: Yeah.	
for that, even at we don't have any RTs at Camden	11.	MR. BAUGHMAN: You know.	
Hospital. None at all. It's all done by nurses.	12.	MR. MUMMERT: Yeah. It's	
Same thing at Milan. Most all the nurses are	13.	intimidating.	
doing all the RT stuff.	14.	MR. BAUGHMAN: Well, so is working on	
MR. BAUGHMAN: Interesting. So what	15.	people as a patient. I'm more intimidated	
you're saying is, is that the RT at some point in	16.	MR. MUMMERT: It depends on if	
time is not going to be the one monitoring the	17.	they're	
boiler.	18.	MR. BAUGHMAN: from that	
MR. MUMMERT: Not monitoring the	19.	standpoint than working on the boiler.	
boiler but not may not be monitoring the patients	20.	MR. MUMMERT: unconscious or not.	
that you're talking about. It could be the nurse	21.	MR. PISCHKE: That would be just as	
doing the RT job.	22.	bad as one of us yeah attending a patient.	
MR. BAUGHMAN: Okay. So this RT may	23.	MR. BAUGHMAN: So we've got a person	
change at some point in time to nurse.	24.	in Humboldt. We've got two full-time there. We've	
MR. MUMMERT: Hopefully, not at that	25.	got one part-time. As these technicians are working	
- •			
_	MR. BAUGHMAN: Okay. MR. MUMMERT: Except during normal work hours. MR. BAUGHMAN: Sure. MR. MUMMERT: Yeah. MR. NEVILLE: That would revert to the 20-minute rule MR. MUMMERT: Yeah. MR. NEVILLE: if MR. BAUGHMAN: So MR. NEVILLE: at that if the remote station MR. BAUGHMAN: there's a medical emergency that mandates these people if MR. NEVILLE: Yes. MR. BAUGHMAN: I was having an emergency in a hospital room and I needed attendance right away, I'm just wondering if the respiratory therapist is going to be able to take the time knowing that somebody is in medical straights and Page 7 just talking real life. MR. MUMMERT: Right. MR. BAUGHMAN: that they're going to take the time to get somebody in to monitor the boilers and wait for them to monitor the boilers while this patient's in MR. MUMMERT: Respiratory therapy is an occupation that's going away, basically. I mean, I hate to say that, but it's going by the wayside. Most all of the nurses now aren't being trained for that, even at we don't have any RTs at Camden Hospital. None at all. It's all done by nurses. Same thing at Milan. Most all the nurses are doing all the RT stuff. MR. BAUGHMAN: Interesting. So what you're saying is, is that the RT at some point in time is not going to be the one monitoring the boiler. MR. MUMMERT: Not monitoring the boiler but not may not be monitoring the patients that you're talking about. It could be the nurse doing the RT job. MR. BAUGHMAN: Okay. So this RT may change at some point in time to nurse.	have to get up and attend to a patient in dire straights. MR. MUMMERT: That's correct. MR. BAUGHMAN: Okay. MR. MUMMERT: Except during normal work hours. MR. BAUGHMAN: Sure. MR. MUMMERT: Yeah. MR. NEVILLE: That would revert to 11. the 20-minute rule MR. MUMMERT: Yeah. MR. NEVILLE: if MR. BAUGHMAN: So MR. NEVILLE: at that if the remote station MR. NEVILLE: Yes. MR. 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	Page 77			Page 79
1.	at do they have duties at the other hospitals,	1.	in every weekend, and we do the boiler checks and	- 1.65
2.	too?	2.	stuff. We go in and test the alarms. We do have a	
3.	MR. MUMMERT: Only the general	3.	routine on the weekends.	
4.	technician. Yeah. The part-time just I put him	4.	MR. BOWERS: Yeah. So that's a lot	
5.	wherever I need him.	5.	of hours that you're relying on somebody if	
6.	MR. BAUGHMAN: Okay. And the general	6.	you've got a multiple car wreck and those people are	
7.	technician is the one that is he the one at	7.	tied up you know, like I'm not sure they're	
8.	Humboldt or is he	8.	not going to say, hey, I can't work on this patient.	
9.	MR. MUMMERT: Humboldt. Yes.	9.	I've got to go check the boilers. You know. It's	
10.	MR. BAUGHMAN: Okay. So that leaves	10.	like it's a lot of time there that's	
11.	us two full-time working Monday through Friday, 6:00	11.	MR. MUMMERT: If there's something	
12.	to 2:00 on their shifts, giving us somewhat of a	12.	that extensive that it's going to take that many	
13.	little gap. If either one of those goes sick or is	13.	people, we do a code surge drill.	
14.	on vacation or the flu bug comes through and	14.	MR. BOWERS: Yeah.	
15.	MR. MUMMERT: I cover for them.	15.	MR. MUMMERT: Well, it's not a drill	
16.	MR. BAUGHMAN: You cover for them.	16.	at that point. It's real. But if we do a code	
17.	Good.	17.	surge, then we call everybody in anyway.	
18.	MR. MUMMERT: And if something	18.	MR. BOWERS: Yeah. You know. You	
19.	with if they're down and I go on vacation or if I	19.	know. You've got a lot of automatic controls	
20.	become sick, the or I mean, the system-wide	20.	nowadays and you know, and everything's on cruise	
21.	hospital has boiler their own boilers and	21.	control. But, you know, I don't fly very often, but	'
22.	everything. Now, they have qualified people there	22.	I like to have a pilot in there. You know. Not a	
23.	that can step in and help cover for us at the big	23.	stewardess, you know, checking on the controls. You	
24.	house.	24.	know. It's a lot of time there that you really	
25.	MR. BOWERS: The question I have	25.	don't know how well-trained these people are going	
25.	WIR. DOWERS. The question I have	25.	don't know now wen-trained these people are going	
	D 70	_		D 00
,	Page 78	١,	As he as force and house the same him does	Page 80
1.	MR. BAUGHMAN: Thanks, Derrick.	1.	to be as far as you know, like, a person hired as	
2.	MR. BOWERS: is that you've got	2.	respiratory therapist, you know, like, uh, you're	
3.	two guys; do they work on opposite shifts?	3.	going to be a boiler operator? And these are pretty	
4.	MR. MUMMERT: No.	4.	good-sized boilers. I mean, they could do a lot of	
5.	MR. BOWERS: They're working	5.	damage. A lot of damage.	
6.	together.	6.	MR. BAUGHMAN: To further that	
7.	MR. MUMMERT: Yes, sir.	7.	conversation, Derrick and thanks again for coming	
8.	MR. BOWERS: So they're only working	8.	up here. You've been very forthright in the past,	
9.	eight hours.	9.	and you still are, and I appreciate that in itself,	
10.	MR. MUMMERT: That's correct.	10.	because we are working with equipment that carries a	
11.	MR. BOWERS: Out of 24 hours.	11.	high liability.	
12.	MR. MUMMERT: Correct.	12.	MR. MUMMERT: That's correct.	
13.	MR. BOWERS: So you've got 16 hours,	13.	MR. BAUGHMAN: I should say. So are	
14.	basically, you're relying on that boiler operation	14.	you in charge of the incoming training?	
15.	to, I don't know, a respiratory therapist? Right?	15.	MR. MUMMERT: Yes. I usually set it	
16.	MR. MUMMERT: And alarms.	16.	up with Morgan & Thornburg. If it's maintenance	
17.	MR. BOWERS: Right. That's	17.	people, Morgan I bring Morgan & Thornburg. I've	
18.	MR. NEVILLE: Wait. That's	18.	got a contract for them to maintain my equipment,	
19.	MR. BOWERS: a lot of time. And	19.	and they'll come in and do the training for new.	
20.	you're only working 40 hours a week, so you're	20.	And I usually pull my other guys down there as a	
21.	leaving nobody there on weekends, right?	21.	refresher while they're going through it with new	
22.	MR. MUMMERT: Yes.	22.	people so the guy's not alone by himself or gal, if	
23.	MR. BOWERS: So basically	23.	it's a gal.	
24.	MR. MUMMERT: Well, on the weekends,	24.	MR. BAUGHMAN: Okay. But Morgan &	
25.	I do my maintenance guy that's on call has to go	25.	MR. MUMMERT: Thornburg.	
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	Provided by Stone & George C	Cour	rt Reporting (615) 268-1244	

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1.	MR. BAUGHMAN: Thornburg?		1.	know, the active log that they have
2.	MR. MUMMERT: Uh-huh. Out of		2.	MR. MUMMERT: Right.
3.	Memphis.		3.	MR. NEVILLE: as of today.
4.	MR. BAUGHMAN: Are they listed in the		4.	MR. MUMMERT: And it looks just like
5.	manual as the ones		5.	this log that's in here, but it's got their names
6.	MR. MUMMERT: They only did the		6.	and signatures and dates. And then there's copies
7.	initial on-hands with the I guess it would be the		7.	of the test that we give them.
8.	boiler operators. Yeah. The attendant, I do.		8.	MR. BAUGHMAN: How long does it take
9.	MR. NEVILLE: On G-3, we list		9.	to schedule somebody from Morgan & Thornburg to come
10.	training but we don't call out that company		10.	in from the time you call them
11.	specifically. We say "trained and qualified		11.	MR. MUMMERT: I can usually call him,
12.	on-site."		12.	have him there within a few minutes, because he
13.	MR. MUMMERT: Yeah.		13.	lives right there, within 20 miles of the hospital.
14.	MR. NEVILLE: So, you know, that		14.	MR. BAUGHMAN: Unless he's on
15.	training company could change, so we didn't		15.	vacation or what have you.
	specifically, you know, mention that company.		16.	•
16.				MR. MUMMERT: True. Yeah. I mean,
17.	MR. BAUGHMAN: Okay. I'm not		17.	but they're pretty fast. They've got an office in
18.	familiar with Morgan & Thornburg, so I'm just not		18.	Jackson now, which they didn't till two years ago.
19.	that I know everybody in the industry		19.	MR. BAUGHMAN: I guess what I'm
20.	MR. MUMMERT: Right.		20.	getting at is that since we've got respiratory
21.	MR. BAUGHMAN: by any stretch, I		21.	therapists that are operating and one calls in for
22.	just haven't been in any communication with them		22.	whatever reason and there's somebody else that's
23.	over the years. Has there already been some		23.	going to be put in that position, if they're not
24.	training put in place? Has there already been		24.	trained
25.	training performed?		25.	MR. MUMMERT: They're not allowed to
		Page 82		Page 84
1.	MR. MUMMERT: Yeah. I went over	Ü	1.	do it.
2.	the like, the safety features and stuff for		2.	MR. BAUGHMAN: They're not allowed to
3.	attendants and stuff to make sure they know where		3.	do it.
4.	the basic stuff is, you know, the mercy shutoffs,		4.	MR. MUMMERT: They have to call me.
5.	make sure they know how to activate them, make sure		5.	MR. BAUGHMAN: Okay.
6.	they know the call schedule, who's on call, and, you		6.	MR. MUMMERT: Or whoever's on call,
7.	know, how to activate the alarms, how to shut down		7.	maintenance.
8.	the boilers remotely if there's a problem.		8.	MR. BAUGHMAN: Okay. What kind of
9.	And when we do the boiler test every		9.	feed water system do you have, Derrick
10.	morning, we actually have them the RTs at the		10.	MR. MUMMERT: Old leaky one.
11.	ER shut it down from in there just so they're in		11.	MR. BAUGHMAN: for these two
12.	the habit of being able to push the button and see		12.	boilers?
13.	what it feels like, what it's going to do. And		13.	MR. MUMMERT: Old leaking one. I
14.	then, you know, they have to reset it there before		14.	don't know. It's a Cleaver-Brooks. I'm in the
15.	we can turn it back on down at the boiler room.		15.	process of changing it right now as we speak. It's
16.	So yeah, we do a lot of hands-on with that.		16.	being upgraded.
10. 17.	MR. BAUGHMAN: So there's been		17.	MR. BAUGHMAN: Okay.
18.	training, but is there a training log that's been		18.	MR. MUMMERT: They the money is
19.	filled out?		19.	there. The capital is obligated. Morgan &
20.	MR. MUMMERT: I have it at the		20.	Thornburg is the company that's changing it out.
20.	office. Yeah.		21.	Their company should be hopefully, in the next
22.			ı	four to six weeks, actually, start the work.
l	MR. NEVILLE: Right. So the training		22.	•
23.	log here is just representative. It's not a		23.	MR. FOX: Good.
	training log, per se, of the, you know, the active.		24.	MR. MUMMERT: And it's going to be a and I don't know the name brand of the new one
24.	THE STATE OF THE S			a and I don't know the name brand of the new one
l	This is what we will keep if it's approved, not, you		25.	a and I don't know the hame brand of the new one

		Page 85			Page 87
1.	off the top of my head. I've got a copy of it.	υ	1.	MR. MUMMERT: Yeah. I used to stand	U
2.	MR. FOX: Is it a feedwater tank or		2.	inside those, but I can't do that here.	
3.	is it a deaerator?		3.	MR. BAUGHMAN: Good. Under G-9, or	
4.	MR. MUMMERT: It's a tank. It's a		4.	on page G-9, Milan General Hospital Job Description	,
5.	tank.		5.	job title, respiratory therapist. Under the job	
6.	MR. FOX: A deaerator?		6.	summary/scope of responsibility, is there anywhere	
7.	MR. MUMMERT: No.		7.	under that job summary/scope of responsibility the	
8.	MR. FOX: No.		8.	boiler or the attendants of the boiler?	
9.	MR. BAUGHMAN: The kind you got is a		9.	MR. MUMMERT: Not under that, but	
10.	very common one in the industry.		10.	it's down under	
11.	MR. MUMMERT: Yeah.		11.	MR. NEVILLE: Under essential	
12.	MR. FOX: Yeah.		12.	MR. MUMMERT: the essential	
13.	MR. ROBINSON: I'm kind of smiling.		13.	functions.	
	_				
14.	I couldn't help but look on your checklist and it		14.	MR. NEVILLE: Yeah.	
15.	said, check for leaks.		15.	MR. BAUGHMAN: I see it under	
16.	MR. MUMMERT: Yeah. Yeah.		16.	"essential job functions." I don't see it under	
17.	MR. ROBINSON: That's what they		17.	scope of responsibility.	
18.	meant.		18.	MR. MUMMERT: Right.	
19.	MR. MUMMERT: That's why we're		19.	MR. BAUGHMAN: And so the job	
20.	replacing it. Yeah. We kept finding that.		20.	functions don't match the scope of responsibility.	
21.	MR. PISCHKE: Yeah. If there's no		21.	MR. MUMMERT: You're correct. Yeah.	
22.	leaks, then there's something wrong.		22.	MR. NEVILLE: We can add	
23.	MR. MUMMERT: Yeah. It was probably		23.	MR. BAUGHMAN: So I would	
24.	empty.		24.	MR. NEVILLE: We can add wording to	
25.	MR. ROBINSON: Derrick, I would		25.	that as the facility directs.	
	,			,	
		Page 86			Page 88
1.	prefer and I think Chief would agree. I would		1.	MR. BAUGHMAN: Well, I just want to	
2.	prefer not to see leaks. Period.		2.	make sure as a respiratory therapist gets handed	
3.	MR. MUMMERT: Right. Exactly. But		3.	this piece, which I'm sure they do, that they're	
4.	if they don't look, they won't find them, and if we		4.	understanding completely that under their scope of	
5.	find them, we need to fix them. And we do get steam		5.	responsibility, that this is there and gee whiz,	
6.	leaks, you know, from, you know, the		6.	if I was a trained respiratory therapist and that	
7.	MR. ROBINSON: Grommets.		7.	was my scope of education and training	
8.	MR. MUMMERT: the grommets and		8.	MR. MUMMERT: It might scare them	
	_				
9.	stuff. So that's why it's on there is for them to		9.	from coming in there. Yeah.	
10.	visually check. I don't want to go down there and		10.	MR. BAUGHMAN: and then they say,	
11.	see something hissing and not tell me, because then		11.	oh, yeah, by the way, let's walk down to the boiler	
12.	I if I'm not there that day, it may go two or		12.	room.	
13.	three days before I get there and it may already be		13.	MR. MUMMERT: Right.	
14.	too late. It could be a matter of tightening up		14.	MR. BAUGHMAN: And this is it's	
15.	bolts instead of replacing a gasket. So yes, I want		15.	not under your responsibility, but you're also going	
16.	them to look for that.		16.	to be responsible for what horsepower boilers are	
17.	MR. BAUGHMAN: How much experience		17.	these?	
18.	have you got in operating a boiler, Derrick?		18.	MR. MUMMERT: 150.	
19.	MR. MUMMERT: The last time I		19.	MR. BAUGHMAN: 150-horse boilers.	
20.	well, I've been here five years. Before that, I was		20.	Yeah. So at any rate, if	
21.	in the Coast Guard on an icebreaker. I ran main		21.	MR. MUMMERT: Right.	
22.	compulsion boilers, salt water systems, old mud		22.	MR. BAUGHMAN: Yeah. If you make the	
23.	drums and		23.	paperwork jive I just can't really imagine that	
24.	MR. BAUGHMAN: A little different		24.	these people that do a wonderful job at what they're	
25.	than the private sector, but		25.	trained to do would really feel comfortable and be	
۵۶.	man die private sector, out		.	damed to do would really leef collifortable and be	

	Page 89			Page 91
1.	confident at doing this.	1.	something, we need to understand that they've been	1 1180 > 1
2.	MR. MUMMERT: I understand.	2.	trained and that that training has been verified or	
3.	MR. BAUGHMAN: And that's not a	3.	validated. That okay. They understand. They're	
4.	dis	4.	proficient at whatever they're doing. I mean, if	
5.	MR. MUMMERT: Right.	5.	we if the person doing it is a trained boiler	
6.	MR. BAUGHMAN: on any person, I'm	6.	operator, we know that they've had the proper	
7.	just saying that in the health care environment	7.	training and proficiency. When somebody's not, we	
8.	it'd be like taking the surgeon and saying, hey, you	8.	don't know what they have.	
9.	do a great job, but you're going to need to take	9.	MR. NEVILLE: Correct.	
10.	care of the boilers, too.	10.	MR. PISCHKE: And so as long as we	
11.	MR. MUMMERT: Actually I won't go	11.	have a solid training program and a verification of	
12.	there, but I have surgeons thinking they're	12.	that training, that they got it, they understand it,	
13.	mechanics sometimes.	13.	they understand what they need to do, they're	
14.	MR. BAUGHMAN: I understand.	14.	comfortable with it, so on and so forth, it doesn't	
15.	MR. MUMMERT: So I'll just let it go	15.	really bother me what their other skills are. They	
16.	at that.	16.	may be skilled at a lot of things that, you know,	
17.	MR. BAUGHMAN: I would not feel	17.	don't come into play. I guess that's my take on the	
18.	comfortable in somebody asking me, Dave, by the way,	18.	whole thing.	
19.	you mind monitoring this heart/lung machine for a	19.	MR. BOWERS: And I feel like the same	
20.	few minutes? Okay. Thanks, Derrick.	20.	way. You know. If you look at the importance of	
21.	MR. MUMMERT: You're thinking trauma	21.	the job, you're talking about, you know, you've got	
22.	centers. You're thinking we're not thinking	22.	it 40 hours manned by a trained operator, 120 hours	
23.	Milan respiratory. There's a big difference.	23.	is basically with somebody not that a respiratory	
24.	MR. BAUGHMAN: I'm sure.	24.	therapist. I'm sure they could be the best boiler	
25.	MR. PISCHKE: I have some mixed	25.	operator there is. The problem is, when it comes	
1				
	Page 90			Page 92
1.	Page 90 feelings, myself. As I truly understand, you know,	1.	down to saving a life here or operating a boiler, of	Page 92
1. 2.	-	1. 2.	down to saving a life here or operating a boiler, of course, saving a life is a lot more important. You	Page 92
1	feelings, myself. As I truly understand, you know,	ı		Page 92
2.	feelings, myself. As I truly understand, you know, the size of an operation can dictate or mandate	2.	course, saving a life is a lot more important. You	Page 92
2. 3.	feelings, myself. As I truly understand, you know, the size of an operation can dictate or mandate who you know, how many people you specialists	2. 3.	course, saving a life is a lot more important. You know.	Page 92
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		Page 93			Page 95
1.	MR. BOWERS: No. No.	1 460 > 0	1.	MR. MUMMERT: Yeah. I can only tell	Tuge 70
2.	MR. PISCHKE: with nurses or, you		2.	you the building's been there since 1965, and that's	
3.	know, nurses stations.		3.	how it's been ever since 1965. And it's the	
4.	MR. BOWERS: Yeah. That's right.		4.	reason I found out I had to do this, because I found	
5.	MR. PISCHKE: Things like that.		5.	the old one had expired and that you all approved,	
6.	MR. BAUGHMAN: So I'm just going to		6.	and it was the same group of people, nothing's	
7.	interject this, Derrick, because you've got a good		7.	changed. We're still training the same group of	
8.	background working with the Coast Guard and with		8.	people. I mean, I know that's not	
9.	propulsion and boilers, I take it, within the coast		9.	MR. BAUGHMAN: No.	
10.	guard. I feel like you've been put in a position of		10.	MR. MUMMERT: an answer, but	
11.	bringing something to the table that you may not		11.	that's what I'm dealing with.	
12.	really fall in step with, from the standpoint of		12.	MR. BAUGHMAN: I understand.	
13.	safety, but you've been put in a position of saying,		13.	MR. PISCHKE: There's some relevance	
14.	I've got to bring this to the		14.	to that.	
15.	MR. MUMMERT: Exactly.		15.	MR. BAUGHMAN: Yeah.	
16.	MR. BAUGHMAN: Okay.		16.	MR. PISCHKE: I mean, when you have a	
17.	MR. MUMMERT: Yeah.		17.	program and it has been successful, there's some	
18.	MR. BAUGHMAN: And I you know,		18.	relevance to that.	
19.	it's easy enough to see, but I thought, you're very		19.	MR. BAUGHMAN: Absolutely.	
20.	intelligent and competent and you have a good		20.	MR. BOWERS: So you've had a variance	
21.	background in mechanical operation, i.e. within the		21.	for a number of years.	
22.	boiler end of it. And so to say, Dave, or any of		22.	MR. MUMMERT: Sure.	
23.	us, yes, I'm doing this because it enhances safety.		23.	MR. BOWERS: And you've been doing	
24.	It's you know, I'm on board with this, you're put		24.	this and never had any problem?	
25.	in a position of having to bring something to the		25.	MR. MUMMERT: Well, I've only been	
				,	
		Page 94			Page 96
1.	table from	Page 94	1.	there since 2010.	Page 96
1. 2.	table from MR. MUMMERT: A requirement.	Page 94	1. 2.	there since 2010. MR. BOWERS: Okay. Have you had a	Page 96
1		Page 94	l '		Page 96
2.	MR. MUMMERT: A requirement.	Page 94	2.	MR. BOWERS: Okay. Have you had a	Page 96
2. 3.	MR. MUMMERT: A requirement. MR. BAUGHMAN: Yes. And it puts you	Page 94	2. 3.	MR. BOWERS: Okay. Have you had a problem in the last seven years?	Page 96
2. 3. 4.	MR. MUMMERT: A requirement. MR. BAUGHMAN: Yes. And it puts you in a pickle, and we're basically doing it because of	Page 94	2. 3. 4.	MR. BOWERS: Okay. Have you had a problem in the last seven years? MR. MUMMERT: No. No.	Page 96
2. 3. 4. 5.	MR. MUMMERT: A requirement. MR. BAUGHMAN: Yes. And it puts you in a pickle, and we're basically doing it because of manpower.	Page 94	2. 3. 4. 5.	MR. BOWERS: Okay. Have you had a problem in the last seven years? MR. MUMMERT: No. No. MR. BOWERS: And they're doing their	Page 96
2. 3. 4. 5. 6.	MR. MUMMERT: A requirement. MR. BAUGHMAN: Yes. And it puts you in a pickle, and we're basically doing it because of manpower. MR. MUMMERT: Exactly. That's	Page 94	2. 3. 4. 5. 6.	MR. BOWERS: Okay. Have you had a problem in the last seven years? MR. MUMMERT: No. No. MR. BOWERS: And they're doing their checks, the respiratory they're doing their	Page 96
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		Page 97		Page 9
1.	we've got a failure in the boiler room, describe		1.	MR. MUMMERT: Yes.
2.	what happens.		2.	MR. BAUGHMAN: Have there been any
3.	MR. MUMMERT: The E-stops, there's		3.	computer issues specific there?
4.	one by each exit door coming out of the boiler room.		4.	MR. MUMMERT: Not since I've been
5.	There's only two exits out of the boiler room. When		5.	there.
6.	you hit it, no matter which boiler, there's one		6.	MR. BAUGHMAN: Super.
7.	switch for both boilers, and it kills the field		7.	MR. MUMMERT: And we just upgraded it
8.	shutoff, which kills also the main board, as well.		8.	with a new system. When we did the boilers, we
9.	MR. BAUGHMAN: So it's wired into the		9.	upgraded the system, as well. New monitors, new
10.	gas valves		10.	CPUs, everything.
11.	MR. MUMMERT: Yes.		11.	MR. PISCHKE: Are there any other
12.	MR. BAUGHMAN: themselves?		12.	employees present, on-site, in other capacities
13.	MR. MUMMERT: Yes.		13.	you know, cleaning crews or security or anyone else
14.	MR. BAUGHMAN: Okay.		14.	during you know, during off hours, weekends
15.	MR. MUMMERT: That was a question		15.	and
16.	that came up in March and I had to go back and		16.	MR. MUMMERT: The maintenance is
17.	verify it.		17.	security.
18.	MR. BAUGHMAN: That's good.		18.	MR. PISCHKE: Okay.
19.	MR. MUMMERT: And we tested it to		19.	MR. MUMMERT: It's only there when
20.	make sure.		20.	we're there. Off hours, housekeeping is not there
21.	MR. ROBINSON: That's good.		21.	24/7. They leave, maybe 11:00 o'clock at night.
22.	MR. BAUGHMAN: Yeah.		22.	The only ones there it's minimal-staffed at after
23.	MR. ROBINSON: That's the code.		23.	hours. You've got maybe one person in the lab.
24.	MR. BAUGHMAN: You're doing going		24.	You've got your staff on the fourth floor with the
25.	back to the computer, calling out describe to me		25.	inpatients, maybe anywhere. Depending on the number
		Page 98		Page 10
1.	how the Hawk system communicates. Does it	Page 98	1.	of patients, any it could one to three people
2.	communicate via the computer?	Page 98	1. 2.	of patients, any it could one to three people there. Usually, there's one doctor on staff 24/7.
1	communicate via the computer? MR. MUMMERT: It feeds the	Page 98	l	of patients, any it could one to three people there. Usually, there's one doctor on staff 24/7. Two RTs, one x-ray or two x-rays, depending on
2.	communicate via the computer? MR. MUMMERT: It feeds the information through the computer so you can do a	Page 98	2. 3. 4.	of patients, any it could one to three people there. Usually, there's one doctor on staff 24/7. Two RTs, one x-ray or two x-rays, depending on again, inpatient level. And maybe three or four
2. 3.	communicate via the computer? MR. MUMMERT: It feeds the information through the computer so you can do a visual look at everything, but it also calls the	Page 98	2. 3.	of patients, any it could one to three people there. Usually, there's one doctor on staff 24/7. Two RTs, one x-ray or two x-rays, depending on again, inpatient level. And maybe three or four nurses. That's the entire after-hours past
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	Page 101			Page 103
1.	been an issue. And I actually quiz them, too, and	1.	there 38 years.	5
2.	so does the administrator. We do what's called an	2.	MR. BAUGHMAN: So he didn't pass	
3.	environmental care survey where we pick a different	3.	along this variance?	
4.	department every month and we quiz them. We've got	4.	MR. MUMMERT: I don't know that he	
5.	a set list of questions of stuff, and we'll actually	5.	even knew. I really don't know if he knew.	
6.	quiz them.	6.	MR. BAUGHMAN: Okay.	
7.	And then when it gets to the RT,	7.	MR. MUMMERT: I can't speak for him.	
8.	we'll ask them specific how often are you going	8.	MR. BOWERS: But how would you	
9.	down there? What are you looking at? Do you know	9.	operate the boiler on a would you check them	
10.	where the emergency stops are and stuff like that.	10.	every 20 minutes or were you checking every four	
10.	I'm also the safety officer. So	11.	hours?	
	•	12.		
12.	MR. BOWERS: Okay.		MR. MUMMERT: They were doing four	
13.	MR. BAUGHMAN: So you came on in	13.	hours.	
14.	2010.	14.	MR. BOWERS: Four hours. So you	
15.	MR. MUMMERT: Correct.	15.	know, you were operating under a variance	
16.	MR. BAUGHMAN: You got advised, when,	16.	MR. MUMMERT: Yes.	
17.	that you needed to put this variance in place?	17.	MR. BOWERS: even though you	
18.	MR. MUMMERT: I didn't know nothing	18.	didn't know you had a variance.	
19.	about a variance until I started doing the	19.	MR. MUMMERT: That's correct.	
20.	changing out the boilers, and I had to go with	20.	MR. BOWERS: But you were operating	
21.	getting the approval from Mr. Chapman to do the	21.	as you had a variance.	
22.	boilers. And that's when I'm learning. And that	22.	MR. MUMMERT: Yes.	
23.	MR. BAUGHMAN: Okay. So this has	23.	MR. ROBINSON: Until we notified	
24.	only been within recent	24.	him	
25.	MR. MUMMERT: In the last	25.	MR. MUMMERT: Right.	
	P. 100	_		D 104
1.	Page 102 MR. NEVILLE: Yes.	1.	MR. BOWERS: Yeah.	Page 104
2.	MR. MUMMERT: two years	2.	MR. ROBINSON: that he was in	
3.	MR. BAUGHMAN: Okay.	3.	violation.	
	MR. MUMMERT: that I've even found			
4. 5.		4. 5.	MR. PISCHKE: Is it safe to assume	
	out this was required.		that if they would have had continuance of that	
6.	MR. PISCHKE: How old was the	6.	variance from as we went along	
7.	original variance?	7.	MR. ROBINSON: Predecessors?	
8.	MR. MUMMERT: I think it expired in	8.	MR. PISCHKE: I'm sorry?	
9.	'98.	9.	MR. ROBINSON: From my predecessors	?
10.	MR. ROBINSON: Approximately. Yes.	10.	MR. PISCHKE: Yeah. Would	
11.	Our records were really not very good, but the last	11.	MR. ROBINSON: They'd be okay.	
12.	official date of the origin on the manual said '98.	12.	MR. PISCHKE: Would we be asking	
13.	MR. BAUGHMAN: So when you came on	13.	these same questions? I guess, that's	
14.	board and started operating, how did we attend to	14.	MR. BAUGHMAN: Yeah. I think so.	
15.	the boilers?	15.	MR. PISCHKE: Would we	
16.	MR. MUMMERT: They'd already had a	16.	MR. ROBINSON: That's a good	
17.	plan in place. There was a guy who worked there	17.	question.	
18.	when I took in, he was the senior maintenance guy.	18.	MR. MUMMERT: Well, I put new boilers	
19.	He'd been there 38 years. So basically, he was	19.	in, so it would have had to have been redone anyway	
20.	telling me what to do and stuff, because I really	20.	MR. PISCHKE: Yeah.	
21.	didn't know. This is the only hospital I got that	21.	MR. BAUGHMAN: Well, I'm just	
22.	has boilers that requires that type of service.	22.	wondering if that original variance had the same	
23.	Most everything else has got water heaters. So this	23.	personnel monitoring, RE (sic) a respiratory	
24.	is the only facility I got that has those boilers.	24.	therapist	
25.	And so my training came from this guy that had been	25.	MR. MUMMERT: Yeah. I used them who	'n
25.	and so my duming came from this guy that had been	123.	MIX. MOMMENT. Team. I used them who	·11
1				

	Page 105	1		Page 107
1.	I drew the first one up in March that y'all tore me	1.	MR. NEVILLE: That I believe that	rage 107
2.	up on (verbatim).	2.	it should be like, number five should say, you	
3.	MR. PISCHKE: So it did yeah.	3.	know, a boiler attendant should be on site at all	
4.	MR. BAUGHMAN: Okay. Interesting.	4.	times. Because if you're monitoring under the	
5.	MR. PISCHKE: Yeah.	5.	variance	
6.	MR. ROBINSON: I've got	6.	MR. ROBINSON: Well, it says that,	
7.	MR. PISCHKE: Go ahead.	7.	but I'm just asking if it's true. I don't know.	
8.	MR. ROBINSON: Just two questions.	8.	MR. NEVILLE: Yeah. Yeah.	
9.	On your page 8, Item 3, 5; is that a true statement?	9.	MR. ROBINSON: Is it true? Yes or	
10.	24/7.	10.	no?	
11.	MR. MUMMERT: I'm sorry, where was	111.	MR. NEVILLE: Yes. It needs to be	
12.	that again?	12.	true to operate under	
13.	MR. ROBINSON: Page 8.	13.	MR. BAUGHMAN: That's not what he's	
14.	MR. MUMMERT: Uh-huh. Oh, number 5.	14.	asking.	
15.	MR. ROBINSON: Under "Procedures,"	15.	MR. NEVILLE: I mean, any	
16.	daily normal daily duties, Item 5. Is that	16.	MR. MUMMERT: As it is now, it's not.	
17.	MR. MUMMERT: Yeah. Well	17.	MR. NEVILLE: As it is now, no.	
18.	MR. ROBINSON: a true statement?	18.	MR. ROBINSON: So it's not true.	
19.	MR. MUMMERT: what we're calling	19.	MR. MUMMERT: That's right. As it is	
20.	an attendant is the RT or the maintenance.	20.	right now.	
21.	MR. NEVILLE: Well	20.	MR. ROBINSON: That's all. That's	
22.	MR. ROBINSON: Well, that's not	22.	all.	
23.	MR. NEVILLE: that's the rub here,	23.	MR. NEVILLE: Right.	
$\begin{vmatrix} 23. \\ 24. \end{vmatrix}$	I think is that	$\begin{bmatrix} 23. \\ 24. \end{bmatrix}$	MR. MUMMERT: Yeah.	
25.	MR. ROBINSON: That's not a true	25.	MR. ROBINSON: Okay. So you would	
25.	MR. ROBINSON. That's not a true	23.	MR. ROBINSON. Okay. 30 you would	
1		1		
	Page 106			Page 108
1.	Page 106	Ι.	have to clean it up some. Okay.	Page 108
1. 2.	statement.	1.	have to clean it up some. Okay. MR. PISCHKE: Is that possible to	Page 108
2.	statement. MR. NEVILLE: It would be a true	1. 2.	MR. PISCHKE: Is that possible to	Page 108
2. 3.	statement. MR. NEVILLE: It would be a true statement if they staffed, you know, the general	1.	MR. PISCHKE: Is that possible to clean that up easily or to change that?	Page 108
2. 3. 4.	statement. MR. NEVILLE: It would be a true statement if they staffed, you know, the general maintenance mechanics all three shifts. You know.	1. 2. 3. 4.	MR. PISCHKE: Is that possible to clean that up easily or to change that? MR. NEVILLE: Well, I don't think	Page 108
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3. 4. 5. 1 6. 7.	MR. ROBINSON: Okay. So are you your steam is condensate and return. So it's MR. MUMMERT: Yes.	Page 109	1.	Milan, it's probably 15 miles. So any major	Page 11
3. 4. 5. 1 6. 7.			I -		
4. 5. 1 6. 7.	MR. MUMMERT: Yes.		2.	incidents, they go to Jackson. And this is just,	
5. 16.7.			3.	I would call, a little, minor hospital. You know.	
6. 7.	MR. ROBINSON: a 24/7 continuous		4.	And I mean, they don't do major	
6. 7.	loop. Okay. No more questions.		5.	surgeries. Everything is brought to Jackson. You	
	MR. PISCHKE: Anyone else?		6.	know. And I mean, it's a real small hospital.	
	MR. ROBINSON: Go ahead, Dave. I		7.	You know. And basically, that's about it.	
8. (defer.		8.	MR. BAUGHMAN: Is there any surgery	
9.	MR. PISCHKE: Go ahead, Dave. We		9.	that's performed there?	
	know you have at least one more in you.		10.	MR. MUMMERT: They have	
1.	MR. BAUGHMAN: No. I'm just for		11.	occasionally do surgery. Yeah. They do a lot of	
	one, I really respect Derrick and		12.	GIs, mostly GIs.	
3.	MR. ROBINSON: Yeah. I do, too.		13.	MR. BAUGHMAN: So they use the	
<i>3</i> . 4.	MR. BAUGHMAN: the position you're		14.	boilers do they have an autoclave that their	
			ı	MR. MUMMERT: Yes.	
	in, the honesty, the candor. You're trying to do		15.		
	everything you can with what you've got, and I'm		16.	MR. BAUGHMAN: sterilization	
	impressed by that, Derrick.		17.	MR. MUMMERT: Yes.	
8.	MR. BOWERS: Yeah. I think you did a		18.	MR. BAUGHMAN: Okay.	
•	good job and you're controlling it pretty good.		19.	MR. BOWERS: Without go ahead.	
0.	MR. BAUGHMAN: What I don't want to		20.	MR. BAUGHMAN: So if there was a	
	do is to be having a discussion down the road on any		21.	boiler alarm, the one E-stop's going to kill both	
	kind of incident and thinking about this discussion		22.	boilers. So if we're in a position of sterilization	
	and going, gosh you know. But everybody's doing		23.	or in the autoclave, it's going to shut down that	
	what they can and you bring to the table that the		24.	process	
5. I	RT, in your estimation, is competent and that you've		25.	MR. MUMMERT: Yes.	
		Page 110			Page 11
1. 9	got competent maintenance personnel.	Č	1.	MR. BAUGHMAN: at that point in	υ
2.	To that extent, how long have those		2.	time.	
	personnel, the senior and the fella in Humboldt		3.	MR. MUMMERT: Yeah. And it	
-	and part-time, how long have they been on board?		4.	records the sterilizer records any shutdowns,	
5.	MR. MUMMERT: The general tech in		5.	whether it finishes normally or it doesn't finish	
	Humboldt's been there 14 years. The one of the		6.	normally. And then if it doesn't finish normally,	
	senior techs has been there 10. The other one's		7.	they have to recycle it, do it again. We have a	
	been there nine.		8.	process in place for all that.	
ο. ι 9.	MR. BAUGHMAN: And the part-time?		9.	MR. BAUGHMAN: If both boilers are	
9. 0.	MR. MUMMERT: Oh. That was the		' '		
			10.	shut down, how would the tech identify what the	
	part-time. The one senior tech's new. He's been		11.	problem is? MP_MUMMEPT: If they shut down?	
	there less than a year or right at a year now.		12.	MR. MUMMERT: If they shut down?	
3.	MR. BAUGHMAN: Okay. I'm good.		13.	Both of them? It's got an alarm panel. It'll tell	
4. - ·	MR. PISCHKE: How about the		14.	you.	
	inspector? I mean, do we have any more input from		15.	MR. BAUGHMAN: Okay.	
	inspectors that we can		16.	MR. MUMMERT: And they also print it	
7.	MR. DICKERSON: Yeah. I'll say		17.	out. It shows up certain alarms also show up on	
	something.		18.	the like the other day we had a flame failure,	
9.	MR. BAILEY: Identify yourself.		19.	and it'll actually say that on the phone when you	
0.	MR. DICKERSON: I'm Richard		20.	get a text.	
	Dickerson, a State boiler inspector. These are in		21.	MR. BAUGHMAN: What if there's an	
	my area.		22.	alarm that doesn't lock the boiler out? A primary	
3.	West Tennessee Health Care is the		23.	low-water cutoff goes out on alarm.	
4. ł	biggest hospital between Memphis and Nashville.		24.	MR. MUMMERT: Well, I've never seen	
5. 1	It's located in Jackson. And this facility in		25.	that happen.	

	Page 113		Pa	age 115
1.	MR. BAUGHMAN: Resets itself. It's	1.	MR. MUMMERT: I'm not an RT.	uge 115
2.	going to alarm typically before the secondary does.	2.	MR. BAUGHMAN: Okay. That's good.	
3.	It goes down, the boiler goes off an alarm I	3.	Yeah.	
4.	guess my question is, which low-water cutoff is the	4.	MR. BOWERS: So the question I	
5.	alarm tied to that causes a person to hit the alarm?	5.	have besides steam for sterilization which the	
6.	In other words, the primary low-water cutoff is in	6.	only time you're going to use the steam for	
7.	the control circuit. Both of them have alarm	7.	sterilization is probably during the day if you're	
8.	circuits in it, but which one is the alarm hooked up	8.	going to because you're not going to have surgery	
9.	to?	9.	at night.	
10.	MR. MUMMERT: I wouldn't know without	10.	MR. MUMMERT: That's correct.	
11.	going back and researching it.	11.	MR. BOWERS: So you're going to have	
12.	MR. BAUGHMAN: Okay. I'd just be	12.	surgery so you're going to have technicians there	
13.	interested, because what I've seen is the primary	13.	during the day. So besides the steam for	
14.	low-water cutoffs will shut the boiler down, the	14.	sterilization, what else are the boilers main	
15.	boiler goes into an alarm, if the alarm's hooked up	15.	function of the boiler what do they serve at the	
16.	to it.	16.	hospital?	
17.	MR. MUMMERT: Correct.	17.	MR. MUMMERT: They have some patient	
18.	MR. BAUGHMAN: If it's hooked up to	18.	heating coils and some that like PTAC units up there	
19.	it, the boiler fills back up with water from	19.	on the patient rooms. They also have dietary use	
20.	whatever the deal is, the alarm goes away. The	20.	them for, like, steam pots to cook in. That's	
21.	boiler's gone off an alarm, but it hasn't tripped a	21.	pretty much it. Mostly, it's heat.	
22.	manual reset. And so what I'm wondering is, is just	22.	MR. BOWERS: So if the boiler is shut	
23.	the capabilities of going back in, figuring these	23.	down	
24.	things out, but taking that a step further through	24.	MR. MUMMERT: It'd get cold.	
25.	discussions, I'm always interested in what alarms	25.	MR. BOWERS: It'd eventually get	
	Page 114		Pa	age 116
1.	are actually hooked up that dictate the manual	1.	cold.	
2.	reset, because some alarms don't.	2.	MR. MUMMERT: Uh-huh.	
3.	MR. MUMMERT: Right.	3.	MR. BOWERS: So that's the worst	
4.	MR. BAUGHMAN: And so if an alarm	4.	thing that's going to happen.	
5.	goes off, it's gone off there at the remote station	5.	MR. MUMMERT: Yes.	
6.	and then the alarm goes away, I'm just wondering how	6.	MR. BAUGHMAN: Does Morgan &	
7.	the attendant would view that? If they would say,	7.	Thornburg perform the maintenance on the boilers?	
8.	well, that was odd, or if they would go ahead and	8.	MR. MUMMERT: Yes.	
9.	shut anything down or what have you.	9.	MR. BAUGHMAN: Okay. Including	
10.	MR. MUMMERT: If it went off at the	10.	combustion?	
11.	attendants station, it also went off on five	11.	MR. MUMMERT: Yes.	
12.	telephones at the same time. Somebody better be	12.	MR. BAUGHMAN: Very good.	
13.	calling, because I the first thing I do is call	13.	MR. MUMMERT: I do have a chemical	
14.	whoever's on call and say, did you check this?	14.	guy that does the water side of it. That tests the	
15.	MR. BAUGHMAN: Even if it reset	15.	water, treats the water.	
16.	itself	16.	MR. BAUGHMAN: And so you get a	
17. 18.	MR. MUMMERT: Yes.	17. 18.	service report on what it is that they've MR. MUMMERT: Yes. That's correct.	
18. 19.	MR. BAUGHMAN: without having to	18. 19.	MR. BAUGHMAN: performed and keep	
19. 20.	MR. MUMMERT: I want to know why.	20.	that in a service record?	
20.	MR. BAUGHMAN: Okay. Good. Exactly.	21.	MR. MUMMERT: I keep that in the log.	
22.	Okay.	22.	Yeah.	
23.	MR. MUMMERT: Yeah. I'm scared of	23.	MR. BAUGHMAN: Super.	
24.	boilers, too.	24.	MR. PISCHKE: If one of these remote	
25.	MR. BAUGHMAN: Okay.	25.	alarms go off and an RT isn't there, would anyone	
		1		
-0.				

		Page 117		Pa	age 119
1.	else know enough to shut it down?	ruge III	1.	station has one, and it's labeled boiler one, boiler	uge 119
2.	MR. MUMMERT: We've got a sign with		2.	two, and they have an indicator light which one's	
3.	an instruction on it, but the normal procedure is,		3.	on.	
4.	immediately call the RT, if it's after hours.		4.	MR. BAUGHMAN: So the only places	
5.	They'll need to call them and, at the same time, you		5.	we've got E-stops at are at the boiler room and	
6.	know, shut it down. If they can't, the RT will go		6.	where else?	
7.	down and then see what caused it.		7.	MR. MUMMERT: You've got one at each	
8.	MR. PISCHKE: I mean, is that		8.	exit in the boiler room, and they can kill them both	
9.	alarm I guess		9.	at the emergency room.	
10.	MR. NEVILLE: Yeah. It emits a loud		10.	MR. BAUGHMAN: Okay. But the	
11.	alarm.		11.	emergency room	
12.	MR. PISCHKE: obvious enough that		12.	MR. MUMMERT: Has one	
13.	anybody walking by would know to		13.	MR. BAUGHMAN: kills both boilers	
14.	MR. MUMMERT: I've got an audible		14.	or one for each boiler?	
15.	alarm in the ER. There's an audible alarm on the		15.	MR. MUMMERT: One for each boiler.	
16.	boiler room. Between the two, it's 192 feet. No		16.	MR. BAILEY: Excuse me.	
17.	matter where you are on that first floor, you're		17.	MR. BAUGHMAN: Yes, sir.	
18.	going to hear an alarm. It's loud.		18.	MR. BAILEY: Y'all try not to talk	
19.	MR. BAUGHMAN: Is the reset do you		19.	over each other. Be considerate of the court	
20.	have a reset capability off of the computer screen		20.	reporter. And plus, it makes a cleaner record.	
21.	itself?		21.	MR. BAUGHMAN: Thank you, brother.	
22.	MR. MUMMERT: No.		22.	Sorry.	
23.	MR. BAUGHMAN: Okay. Everything's		23.	So what I'm getting at is a little	
24.	hard		24.	disparity on the shutoffs. In other words, if	
25.	MR. MUMMERT: You'd have to go down		25.	there's an alarm at the remote station, i.e., the	
1	As the bellen	Page 118	١,		age 120
1.	to the boiler.		1.	nurses station, they're going to shut off or they	
2.	MR. BAUGHMAN: And at the nurses		2.	have the capabilities of shutting off either	
3.	station, how is that reset also, because they also		3.	boiler, but it's not going to shut off both boilers.	
4.	have to		4.		
5.	MR. MUMMERT: They have to flip a		5.	MR. MUMMERT: Correct.	
6.	switch the toggle switch will turn it back on,		6.	MR. BAUGHMAN: Okay. Is that how you	
7.	but they cannot turn it on from there (verbatim).		7.	would like it?	
8.	That just gives them the power to go back because	:	8.	MR. CHAPMAN: That's the way it is.	
9.	when it goes down, if it's off, they have to call		9.	MR. BAUGHMAN: Okay.	
10.	maintenance in. There's no getting around that.		10.	MR. CHAPMAN: Yeah. And that the	
11.	Whoever's on call will have to come in and start it		11.	egress for one E-stop at the door has got to kill	
12.	back up. They have to check it. They turn it back		12.	both boilers. But in the remote station, it could	
13.	on, but it has to be turned on in the ER before they		13.	be individual ones.	
14.	can even manually start it at the boiler itself.		14.	MR. BAUGHMAN: And why is that?	
15.	MR. BAUGHMAN: So in that station,		15.	MR. CHAPMAN: Because normally, if	
16.	you said, toggle switch. Is there one for each		16.	it's something that's happened, it's an individual	
17.	boiler?		17.	boiler.	
18.	MR. MUMMERT: Yes.		18.	MR. BAUGHMAN: Uh-huh.	
19.	MR. BAUGHMAN: But the E-stops kill		19.	MR. CHAPMAN: But if it's at the	
20.	both boilers.		20.	boiler room, if something goes on, you want to kill	
21.	MR. MUMMERT: In the remote place,		21.	everything in it.	
22	they each have a single button. The boiler room has		22.	MR. BAUGHMAN: But yet, the	
22.	one for both boilers.		23.	attendant, when he goes down, the boiler's off, is	
23.			24.	he not also disabling, or does he hit the E-stop in	
23. 24.	MR. NEVILLE: At the exit.		l		
23.			25.	there in the boiler room or are we just only	

		Page 121		Page 12	23
1.	disabling the one in the remote station?	l uge 121	1.	is that correct? Is that what we're	
2.	MR. CHAPMAN: Okay. For the remote		2.	MR. NEVILLE: That's what we're	
3.	station.		3.	presenting. Yes.	
4.	MR. BAUGHMAN: Uh-huh.		4.	MR. PISCHKE: Presenting. So it's	
5.	MR. CHAPMAN: Okay. That is set up		5.	MR. BAUGHMAN: Well, it states it's a	
6.	for of course, they're just monitors or whatever		6.	new variance.	
7.	name they're calling them.		7.	MR. NEVILLE: Right. This I mean,	
8.	MR. BAUGHMAN: Okay.		8.	this is they're new boilers, so it's considered a	
9.	MR. CHAPMAN: Okay. It is for		9.	new variance.	
10.	monitoring the boilers. You know. Normally, when	1	10.	MR. PISCHKE: Okay.	
11.	they get an alarm, it's a certain boiler. So they	1	l 1.	MR. NEVILLE: The history is that	
12.	can hit that button to isolate that boiler.	1	12.	they've had a previous variance, but it I mean,	
13.	MR. BAUGHMAN: Okay.	1	13.	it has to be classified as a new variance, because	
14.	MR. CHAPMAN: But at the from	1	14.	we're not tracking changes from an old variance.	
15.	the CSD-1 states that it must be at the door, one	1	15.	We're giving you new information.	
16.	E-stop to kill all boilers.	1	16.	MR. ROBINSON: Yeah. We couldn't	
17.	MR. BAUGHMAN: Okay.	1	17.	even find the original manual.	
18.	MR. CHAPMAN: Which is not part of	1	18.	MR. PISCHKE: But all of the players	
19.	the boiler variance.	1	19.	in this have been abiding by this	
20.	MR. BAUGHMAN: Okay. And CSD-1	2	20.	MR. NEVILLE: Yes.	
21.	specifically and that's for another discussion, I	2	21.	MR. PISCHKE: historic correct?	
22.	guess. Thank you, Sam.	2	22.	That's the one thing that gives me mixed feelings	
23.	MR. CHAPMAN: All right.	2	23.	about	
24.	MR. FOX: The monitoring station that	2	24.	MR. BAILEY: Did y'all answer his	
25.	they have is not, per se, Dave, an E-stop. The	2	25.	last question or did you just shake your head?	
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		Page 122	1	Page 12	24
1.	that boiler can be running and the nurse could flip		1.	Because she needs a verbal answer. You had asked a	24
2.	that boiler can be running and the nurse could flip that switch if they want to. That would not shut		2.	Because she needs a verbal answer. You had asked a question. I didn't hear an answer and then you went	24
2. 3.	that boiler can be running and the nurse could flip that switch if they want to. That would not shut that boiler off unless that boiler goes out on alarm		 3. 	Because she needs a verbal answer. You had asked a question. I didn't hear an answer and then you went on. I thought they answered. I think they shook	24
2. 3. 4.	that boiler can be running and the nurse could flip that switch if they want to. That would not shut that boiler off unless that boiler goes out on alarm first and sends the signal. That's normally how		 2. 3. 4. 	Because she needs a verbal answer. You had asked a question. I didn't hear an answer and then you went on. I thought they answered. I think they shook their head. Did you get the answer?	24
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2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23.	that boiler can be running and the nurse could flip that switch if they want to. That would not shut that boiler off unless that boiler goes out on alarm first and sends the signal. That's normally how that works. MR. MUMMERT: Yes. MR. FOX: Do you follow what I'm saying? MR. BAUGHMAN: I do. MR. BOWERS: And once they shut that off, it's pretty well locked out MR. MUMMERT: Correct. MR. BOWERS: until you get there. MR. MUMMERT: Yes. MR. BOWERS: And once they hit that button, it's MR. MUMMERT: It has to be somebody from maintenance. MR. BOWERS: To turn it back on. MR. PISCHKE: Do we have enough information and knowledge on their program? I guess I'd like to emphasize that this and correct me if I'm wrong. This is more or less a continuance of	1 1 1 1 1 1 1 2 2 2 2 2 2	2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 222. 223.	Because she needs a verbal answer. You had asked a question. I didn't hear an answer and then you went on. I thought they answered. I think they shook their head. Did you get the answer? THE REPORTER: I didn't get anything, no. MR. BAILEY: Okay. MR. MUMMERT: What was the question? MR. PISCHKE: Which yeah. Can you repeat the which question I was asking? THE REPORTER: I think you asked hang on. I've got to look back. I think you said, but all the players in this have been abiding by this historically, correct? MR. MUMMERT: Yes. MR. PISCHKE: Okay. Any other discussions, questions? MR. BOWERS: I guess I'd motion to close discussion. MR. PISCHKE: The motion, I guess, would be to approve with I guess I'll entertain a motion to approve with the changes MR. NEVILLE: With modifications.	24

	Pag	ge 125		Page 1
1.	boiler attendant, as well. Not just the remote		1.	MR. BOWERS: Aye.
2.	station, but as a boiler attendant. And, you know,		2.	MR. BAUGHMAN: Aye.
3.	with monitoring duties. So on page 7, I propose		3.	MR. PISCHKE: Aye.
4.	that we add the respiratory therapist there, because		4.	MR. FOX: Aye.
5.	for those hours that they would be a boiler		5.	MR. PISCHKE: No? Item passes for
6.	attendant, that would make page 8, number 5, you		6.	affirmative.
7.	know, a boiler attendant should be on site at all		7.	MR. BAUGHMAN: Derrick, good job.
8.	times. That makes that statement accurate, as well.		8.	MR. NEVILLE: Thank you.
9.	So I believe that's one of the		9.	MR. MUMMERT: I feel like I just had
0.	changes that needs to be implemented for this to		10.	a baby.
1.	be accurate. Yes, sir.		11.	MR. PISCHKE: You well, you did.
2.	MR. BAUGHMAN: So James, what you're		12.	You kind of did.
2. 3.	saying is that, not only for the purpose of the	- 1	13.	MR. BAUGHMAN: Yeah. What are you
<i>3</i> .	manual but also by Milan General Hospital, your	- 1	14.	going to name it?
 . 5.	hospital is going to need to make that change in the		15.	MR. MUMMERT: Thank you all. I
5. 6.	description. Not just the manual itself, but the		15. 16.	appreciate your patience. And like I said, I've
		- 1		
7.	hospital needs to		17.	been trying to deal with this monster, and I hope to
8.	MR. NEVILLE: Right.		18.	make everybody happy with the outcomes of it. And
9.	MR. BAUGHMAN: be on board with	- 1	19.	we'll put a good training together for everybody,
20.	that this is on page 7, boiler attendant		20.	not just
1.	procedures, personnel type.		21.	MR. PISCHKE: You've done a very
2.	MR. NEVILLE: Right.		22.	good
3.	MR. BAUGHMAN: So you'll need to get		23.	MR. MUMMERT: So
4.	approval from the hospital itself that that's		24.	MR. PISCHKE: at preparation and
5.	MR. NEVILLE: And that was one of		25.	addressing our concerns.
	Pag	ge 126		Page 1
1.	your comments, I believe, on G-9 where you talked	,• 120	1.	MR. NEVILLE: Thank you.
2.	about the respiratory therapist and their job		2.	MR. MUMMERT: So thank you all.
3.	summary.		3.	MR. PISCHKE: Thank you. Okay. The
4.	MR. PISCHKE: Yeah. Right here.		4.	next item on the agenda is Item 17-14, Ergon
5.	Yeah.		5.	Terminaling, Inc. Do we have representatives?
<i>5</i> .	MR. NEVILLE: And in order to do		<i>5</i> .	MR. PASTOREK: Yes, sir.
7.	that, as far as we need to add them as a boiler		7.	MR. PISCHKE: Please identify
				•
8.	attendant. They may only have monitoring duties,		8.	yourselves and present your case, please.
9.	you know, every four hours, but		9.	MR. PASTOREK: Sure. Joel Pastorek
0.	MR. PISCHKE: So that's there.		10.	with Ergon.
1.	MR. NEVILLE: their training needs		11.	MR. LAUDERDALE: Marc Lauderdale,
2.	to reflect that and their scope of responsibility.		12.	Ergon.
3.	So that's what we're presenting.	- 1	13.	MR. PASTOREK: So good morning. I
4.	MR. PISCHKE: Any other specific		14.	think all of you have a copy of the letter and
5.	revisions that we're going to call out to this?		15.	attachments that we sent. We have sort of a unique
6.	MR. NEVILLE: That's what we have		16.	situation, I guess, in that, we're not discussing a
7.	right now. So		17.	steam boiler today. We're talking about a thermal
8.	MR. PISCHKE: Okay. Do I have a		18.	fluid heater.
9.	motion to approve with the manual revisions that		19.	So Ergon operates a bulk storage
0.	were stated?]:	20.	facility in Chattanooga. We store products like
1.	MR. BAUGHMAN: So moved.]:	21.	asphalt, that require heat, in bulk storage tanks.
2.	MR. PISCHKE: Do I have a second?]:	22.	So our method for heating is to use a thermal
3.	MR. FOX: I'll second.		23.	fluid heater. In this instance, we're discussing
4.	MR. PISCHKE: Okay. All those in		24.	a Hopkins Volcanic Heater, which is was
	favor, say "aye."		25.	originally manufactured in 1977. When we
24. 25.				_

	Page 129	Т		Page 131
1.	MR. PISCHKE: Excuse me. I'm sorry.	1.	was designed and installed with an R stamp, per	ruge 131
2.	MR. PASTOREK: Uh-huh.	2.	ASME code, but there was not a registration	
3.	MR. PISCHKE: I failed to ask if	3.	process for the National Board associated with it.	
4.	there was	4.	So we are here today requesting that	
5.	MR. BAILEY: And I failed to remind	5.	we use the manufacturer's number for the unit in	
6.	you. So I share	6.	lieu of a National Board Number for a Tennessee	
7.	MR. PISCHKE: If there are any	7.	Special.	
8.	conflicts in okay. Sorry about that.	8.	MR. PISCHKE: Okay. Yes. I'd like a	
9.	MR. PASTOREK: No worries.	9.	motion to discuss.	
10.	MR. PISCHKE: Please proceed.	10.	MR. BAUGHMAN: So moved.	
11.	MR. PASTOREK: So Ergon	11.	MR. FOX: I'll second.	
12.	MR. PISCHKE: Thank you.	12.	MR. PISCHKE: Second? I went	
13.	MR. PASTOREK: constructed this	13.	through I reviewed this, and I'm just trying to	
14.	facility in 1977. This unit was installed at that	14.	understand. The original vessel was registered with	
15.	time. We have since replaced the pressure-retaining	15.	the State	
16.	portion of the vessel in 2001. That unit is a	16.	MR. PASTOREK: No.	
17.	6 million BTU thermal fluid heater. It is the	17.	MR. PISCHKE: was not was never	
18.	pressure tank portion was designed per ASME. It has	18.	registered with the State?	
19.	an S stamp. It's rated for 150 PSI at 600 degrees	19.	MR. PASTOREK: No, sir.	
20.	Fahrenheit.	20.	MR. LAUDERDALE: It's registered with	
21.	We operate it below the temperature	21.	the State, not registered with the National Board.	
22.	rating and pretty well below the pressure rating,	22.	MR. PISCHKE: I'm sorry.	
23.	as well. The deadhead pressure for the system is	23.	MR. LAUDERDALE: It's had a Tennessee	,
24.	about a little less than 100 PSI. So we	24.	Number.	
25.	operate it below the pressure, below the	25.	MR. PISCHKE: It's had a Tennessee	
	•			
	Page 130	\vdash		Page 132
1.	Page 130 temperature.	1.	Number.	Page 132
1. 2.	temperature.	1. 2.	Number. MR. PASTOREK: Yes.	Page 132
1	_	1		Page 132
2.	temperature. Generally, if you're familiar with a	2.	MR. PASTOREK: Yes.	Page 132
2. 3.	temperature. Generally, if you're familiar with a system like this, it's actually an open system.	2. 3.	MR. PASTOREK: Yes. MR. PISCHKE: Okay. So	Page 132
2. 3. 4.	temperature. Generally, if you're familiar with a system like this, it's actually an open system. It's atmospheric. There's an expansion tank	2. 3. 4.	MR. PASTOREK: Yes. MR. PISCHKE: Okay. So MR. LAUDERDALE: There's an old	Page 132
2. 3. 4. 5.	temperature. Generally, if you're familiar with a system like this, it's actually an open system. It's atmospheric. There's an expansion tank that's part of the system that allows for the oil	2. 3. 4. 5.	MR. PASTOREK: Yes. MR. PISCHKE: Okay. So MR. LAUDERDALE: There's an old Tennessee Number and a new Tennessee Number.	Page 132
2. 3. 4. 5. 6.	temperature. Generally, if you're familiar with a system like this, it's actually an open system. It's atmospheric. There's an expansion tank that's part of the system that allows for the oil to expand. All of the product that flows through	2. 3. 4. 5. 6.	MR. PASTOREK: Yes. MR. PISCHKE: Okay. So MR. LAUDERDALE: There's an old Tennessee Number and a new Tennessee Number. MR. PASTOREK: Yeah.	
2. 3. 4. 5. 6. 7.	temperature. Generally, if you're familiar with a system like this, it's actually an open system. It's atmospheric. There's an expansion tank that's part of the system that allows for the oil to expand. All of the product that flows through the heater is in liquid state. It's not elevated	2. 3. 4. 5. 6. 7.	MR. PASTOREK: Yes. MR. PISCHKE: Okay. So MR. LAUDERDALE: There's an old Tennessee Number and a new Tennessee Number. MR. PASTOREK: Yeah. MR. PISCHKE: Okay. So the vessel	
2. 3. 4. 5. 6. 7. 8.	temperature. Generally, if you're familiar with a system like this, it's actually an open system. It's atmospheric. There's an expansion tank that's part of the system that allows for the oil to expand. All of the product that flows through the heater is in liquid state. It's not elevated in temperature above the boiling point and there's	2. 3. 4. 5. 6. 7. 8.	MR. PASTOREK: Yes. MR. PISCHKE: Okay. So MR. LAUDERDALE: There's an old Tennessee Number and a new Tennessee Number. MR. PASTOREK: Yeah. MR. PISCHKE: Okay. So the vessel had a Tennessee Number. The replacement part that	
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Page 133 MR. ROBINSON: with a like coil	1.	Page 133 MR. BOWERS: Do you think the
		MIK. DOWERS. DO YOU UIIIK UIE
that also did not have a National Board Number.	2.	original coil that was in there may have had a
MR. PASTOREK: That's correct.	3.	National Board Number?
MR. ROBINSON: But somewhere during	4.	MR. PASTOREK: The manufacturer says
_	5.	that it did not.
		MR. BOWERS: It did not?
		MR. PISCHKE: Well, it would not
	1	normally have a separate National Board Number for
	-	that coil unless it's a replacement, right? I mean,
		the original vessel would have had a National Board
	l	Number for the entire vessel, correct? From the
•	ı	original manufacturing.
	1	MR. PASTOREK: No, sir. That's I
	1	mean, that's not what our understanding is from the
	1	manufacturer. From what they've told us is they
•	1	manufacture: 170m what they ve told us is they manufacture these units, even today I guess
	ı	different states have different requirements.
<u>c</u>	1	MR. PISCHKE: Sure.
	1	MR. PISCHKE: Sure. MR. PASTOREK: And so they
-	1	manufacture them even today without National Board
	1	Numbers. So they'll
•	1	MR. PISCHKE: Without a National
	1	Board Number.
		MR. PASTOREK: Yes, sir.
	ı	MR. PISCHKE: Okay.
looked at, it had a National Board Number on it of	23.	MR. FISCHKE. Okay.
Page 134		Page 136
33. Okay? When they tried they were discussing	1.	MR. BOWERS: It's registered as a
with them that they could contact the National Board	2.	P-4, so it's just a part of a boiler, basically. It
to get a data plate on it. Well, with that number	3.	wouldn't have a National Board Number, correct?
that's on our record from I don't remember what	4.	MR. PISCHKE: Well, oftentimes, parts
the exactly year it was registered, but it had	5.	do have
always had the National Board number of 33. I don't	6.	MR. BOWERS: Oh, yeah.
know who put that number on there, but there's	7.	MR. PISCHKE: national Board
the National Board says, they don't have any record	8.	Numbers.
of it.	9.	MR. ROBINSON: Yes, they do.
So that's where we're at right now is	10.	MR. PISCHKE: But in this case,
it has a Tennessee Number with the National Board	11.	neither the parent vessel or the replacement part
number of 33, but 33 is not a good number.	12.	have a National Board Number that we know of.
MR. BOWERS: Do you think,	13.	MR. CHAPMAN: That's true.
mistakenly, it would have originally registered	14.	MR. PISCHKE: Okay.
it should have been registered as a Tennessee	15.	MR. BOWERS: Yes.
Special from day one?	16.	MR. PISCHKE: Okay. That's
MR. CHAPMAN: I don't know, because	17.	MR. PASTOREK: We did try to see if
that	18.	we could retroactively get a National Board Number
MR. PISCHKE: You can't answer that.	19.	or something along those lines and that's not
We can't answer that.	20.	allowed, as you all probably well know.
MR. CHAPMAN: I can't answer that.	21.	MR. PISCHKE: Yeah. And we
	22.	MR. ROBINSON: The original well,
the original coil the coil is actually the	23.	for the sake of discussion, the second manufacturer
·	24.	of the replacement coil, is he still in business or
MR. LAUDERDALE: That is correct.	25.	is he capable of providing you with a traveler?
Provided by Stone & George C	<u> </u>	. D
_	that period when it was installed originally, it was given a Tennessee unique number, serial number, on the original installation. MR. LAUDERDALE: A Tennessee license number. MR. PISCHKE: Yeah. MR. PISCHKE: Yeah. MR. PISCHKE: That's what I was trying to clarify. And was it always, I guess, a State Special, then or a MR. CHAPMAN: No. MR. PASTOREK: That's something we haven't been able to show. We kind of went back and looked through our files to see if we could find anything or something from an inspection report that would indicate that, but we couldn't find anything to that effect. I'm not sure how it MR. CHAPMAN: You know. I don't I'm the chief. Normally, in that record that we looked at, it had a National Board Number on it of Page 134 33. Okay? When they tried they were discussing with them that they could contact the National Board to get a data plate on it. Well, with that number that's on our record from I don't remember what the exactly year it was registered, but it had always had the National Board number of 33. I don't know who put that number on there, but there's the National Board says, they don't have any record of it. So that's where we're at right now is it has a Tennessee Number with the National Board number of 33, but 33 is not a good number. MR. BOWERS: Do you think, mistakenly, it would have originally registered it should have been registered as a Tennessee Special from day one? MR. CHAPMAN: I don't know, because that MR. PISCHKE: You can't answer that. MR. CHAPMAN: I can't answer that.	that period when it was installed originally, it was given a Tennessee unique number, serial number, on the original installation. MR. LAUDERDALE: A Tennessee license number. MR. PISCHKE: Yeah. MR. PISCHKE: Yeah. MR. PISCHKE: That's what I was trying to clarify. And was it always, I guess, a State Special, then or a MR. CHAPMAN: No. MR. PASTOREK: That's something we haven't been able to show. We kind of went back and looked through our files to see if we could find anything or something from an inspection report that would indicate that, but we couldn't find anything to that effect. I'm not sure how it MR. CHAPMAN: You know. I don't I'm the chief. Normally, in that record that we looked at, it had a National Board Number on it of Page 134 33. Okay? When they tried they were discussing with them that they could contact the National Board to get a data plate on it. Well, with that number that's on our record from I don't remember what the exactly year it was registered, but it had always had the National Board number of 33. I don't know who put that number on there, but there's the National Board says, they don't have any record of it. So that's where we're at right now is it has a Tennessee Number with the National Board number of 33, but 33 is not a good number. MR. BOWERS: Do you think, mistakenly, it would have originally registered it should have been registered as a Tennessee MR. CHAPMAN: I don't know, because that MR. PISCHKE: You can't answer that. MR. PISCHKE: You can't answer that. MR. CHAPMAN: I can't answer that. MR. BOWERS: Do you think that maybe the original coil the coil is actually the pressure-containing object of the vessel, correct? MR. LAUDERDALE: That is correct.

	Daga 127		Page 120
1.	Page 137 MR. LAUDERDALE: He is no longer in	1.	Page 139 MR. BAUGHMAN: Are both these thermal
2.	business.	2.	fluid heaters on the same system? In other words,
3.	MR. PASTOREK: They're not in	3.	one being a back-up to the other.
4.	business. No.	4.	MR. PASTOREK: They are part of the
5.	MR. PISCHKE: Okay.	5.	same system. Yeah. They don't necessarily back
6.	MR. BAUGHMAN: So Roessing Montgomery	6.	each other up, but they can flow through the same
7.	Company is no longer in business?	7.	network of piping.
8.	MR. LAUDERDALE: That is my	8.	MR. BAUGHMAN: They're on the same
9.	understanding.	9.	manifold on circulation.
10.	MR. BAUGHMAN: That's your	10.	MR. PASTOREK: Yes.
11.	understanding. So it was manufactured by Roessing	11.	MR. BAUGHMAN: And they both work off
12.	Montgomery Company out of Pittsburgh for the	12.	the same expansion tank?
13.	Volcanic Heater Company out of Alliance, Ohio. Ohio	13.	MR. PASTOREK: Yes.
14.	being where our National Board	14.	MR. BAUGHMAN: Okay.
15.	MR. ROBINSON: Resides.	15.	MR. PASTOREK: That's correct.
16.	MR. BAUGHMAN: actually is	16.	MR. ROBINSON: Same pressure.
17.	located. My concern is that it's gone through	17.	MR. PASTOREK: Same pressure?
18.	installation, repair through the R stamp procedure	18.	MR. ROBINSON: Pressures.
19.	and this is just now coming into play.	19.	MR. PASTOREK: The pumps are set up
20.	I noticed through and we've got	20.	to where we have an orifice and they as far as
21.	two thermal fluid heaters. Is the other thermal	21.	the 150-pound or is that what you're asking? The
22.	fluid heater under the same conditions or is it	22.	rating of the unit or the operating pressure?
23.	just the one?	23.	MR. ROBINSON: I'm verifying on two
24.	MR. PASTOREK: No. It's just the	24.	manifold one manifold, two boilers. One boiler
25.	one. We have a National Board Number for it.	25.	higher than the other boiler, naturally, will push
	Page 138		Page 140
1.	MR. BAUGHMAN: Is the other heater	1.	through.
2.	the same manufacturer?	2.	MR. PASTOREK: I understand.
3.	MR. PASTOREK: It's not. It's a	3.	MR. ROBINSON: Are you rating them at
4.	different brand.	4.	the same pressure or
5.	MR. BAUGHMAN: Got you. I notice	5.	MR. LAUDERDALE: The output pressure
6.	under the Certificate of Boiler Inspection, the	6.	has been balanced between the two units.
7.	pressure allowed for this Boiler Number T10655	7.	MR. ROBINSON: And protected with a
8.	the pressure allowed is the 300, but on one	8.	safety valve?
9.	inspection where it expired in 2002, the safety	9.	MR. LAUDERDALE: Yes, sir.
10.	valve was set at 50, and the next go-around in a	10.	MR. BAUGHMAN: The Certificate of
11.	word, expired on the next page in 2003, the safety	11.	Boiler Inspection shows a pressure allowed of 300
12.	valve has been changed to 125. Being that we've got	12.	PSI.
13.	an expansion tank, does that have a nitrogen blanket	13.	MR. PASTOREK: I'm not sure why
14.	on it?	14.	they I noticed that. I noticed the inspector put
15.	MR. PASTOREK: No, sir.	15.	that. I'm not sure why they put it. I mean, it's
16.	MR. LAUDERDALE: No, it's not.	16.	clearly stamped for 150 and we don't operate
17.	MR. BAUGHMAN: No. It's just to	17.	anywhere near that but
18.	atmosphere.	18.	MR. BAUGHMAN: Well, not only is it
19.	MR. PASTOREK: Yes, sir.	19.	not operated at that, but what is it certified to?
20.	MR. BAUGHMAN: Okay. Have you had	20.	What is the construction of that unit certified to?
21.	any problems with oil degradation?	21.	MR. PASTOREK: I would have to go off
22.	MR. PASTOREK: We have replaced the	22.	of the S stamp data plate and say 150 pounds at 600
23.	oil. Yes. We experience that over time, but	23.	PSI. MP. DISCHVE: I had wrote it was at
24. 25	it's it can go for pretty extended periods, 10,	24.	MR. PISCHKE: I had wrote it was at 225. So
25.	15 years, depending on the plant and the operation.	25.	223. SU
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	Page	141		Page 143
1.	MR. BAUGHMAN: Yes. So it would be a	141 1.	MR. PASTOREK: I'm not familiar with	1 age 143
2.	150 rated	2.	the specific information about our valve. I mean,	
3.	MR. PASTOREK: Yes, sir.	3.	again, our system is an open system to where it's	
4.	MR. BAUGHMAN: unit. And so there	4.	atmospheric. So if there is one, if there's a	
5.	needs to be a correction to our	5.	pressure buildup in the line, you're going to get	
6.	MR. ROBINSON: Yeah. Absolutely.	6.	a to where it prevents flow, then you're going to	
7.	MR. BAUGHMAN: certificate.	7.	get a high temperature which is going to shut down	
8.	MR. PASTOREK: For the inspection.	8.	the unit. And then if you don't, then you just have	
9.	Okay.	9.	flow going through the system. And if there's any	
10.	MR. BAUGHMAN: I'd be interested in	10.	sort of upset condition, then you have atmospheric	
11.	the other unit, also, since they're both on the same	11.	relief, which then allows it to just vent,	
12.	manifold. And I know that it's not part of this	12.	basically.	
13.	discussion.	13.	MR. ROBINSON: So it's vented? The	
14.	MR. PASTOREK: Right.	14.	system's vented to atmospheric?	
15.	MR. BAUGHMAN: I just	15.	MR. PASTOREK: That is correct.	
16.	MR. PASTOREK: Just to clarify	16.	That's correct. At the expansion tank. Yes, sir.	
17.	something, though. It's a little different from	17.	MR. BAUGHMAN: It's a little	
18.	a and you guys probably understand this	18.	different of a system.	
19.	completely. But it's a little different from a	19.	MR. CHAPMAN: Yeah.	
20.	typical boiler situation when you can have the	20.	MR. ROBINSON: It's very unique.	
21.	boilers actually fighting each other. In this case,	21.	MR. BAUGHMAN: Yeah.	
22.	you're pumping fluid through a coil. Ultimately,	22.	MR. ROBINSON: That atmosphere.	
23.	that goes to the heater. But in this particular	23.	MR. BAUGHMAN: Typically, there's a	
24.	case, we have the pumps set up to where they're	24.	blanket on the top to keep the oil if you get any	
25.	identical with the orifices that are controlling the	25.	water in the system, it gets nasty. When you	
			, . g , . g , ,	
	Page	: 142		Page 144
1.	Page flow. So they fighting each other would really	142	replace and put oil in the system, it'll puke.	Page 144
1. 2.	Page flow. So they fighting each other would really just result in more flow going into the manifold.	l .	replace and put oil in the system, it'll puke. You'll get	Page 144
1	flow. So they fighting each other would really	1.	replace and put oil in the system, it'll puke. You'll get MR. PASTOREK: Moisture.	Page 144
2.	flow. So they fighting each other would really just result in more flow going into the manifold.	1. 2.	You'll get	Page 144
2. 3.	flow. So they fighting each other would really just result in more flow going into the manifold. It's not a	1. 2. 3.	You'll get MR. PASTOREK: Moisture.	Page 144
2. 3. 4.	flow. So they fighting each other would really just result in more flow going into the manifold. It's not a MR. ROBINSON: Right.	1. 2. 3. 4.	You'll get MR. PASTOREK: Moisture. MR. BAUGHMAN: moisture and	Page 144
2. 3. 4. 5.	flow. So they fighting each other would really just result in more flow going into the manifold. It's not a MR. ROBINSON: Right. MR. PASTOREK: It's different. It's	1. 2. 3. 4. 5.	You'll get MR. PASTOREK: Moisture. MR. BAUGHMAN: moisture and moisture in the thermal fluid. Of course, the	Page 144
2. 3. 4. 5. 6.	flow. So they fighting each other would really just result in more flow going into the manifold. It's not a MR. ROBINSON: Right. MR. PASTOREK: It's different. It's just a slightly different application. But	1. 2. 3. 4. 5. 6.	You'll get MR. PASTOREK: Moisture. MR. BAUGHMAN: moisture and moisture in the thermal fluid. Of course, the thermal fluid operates at a higher temperature	Page 144
2. 3. 4. 5. 6. 7.	flow. So they fighting each other would really just result in more flow going into the manifold. It's not a MR. ROBINSON: Right. MR. PASTOREK: It's different. It's just a slightly different application. But MR. ROBINSON: So what kind of valves	1. 2. 3. 4. 5. 6. 7.	You'll get MR. PASTOREK: Moisture. MR. BAUGHMAN: moisture and moisture in the thermal fluid. Of course, the thermal fluid operates at a higher temperature without pressure	Page 144
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	Page 145	1		Page 147
1.	of the R-1.	1.	have been that repair	
2.	MR. BAUGHMAN: Does anybody have a	2.	MR. PISCHKE: Yeah. That's the	
3.	copy of the R-1?	3.	expiration.	
4.	MR. LAUDERDALE: Unless I am aware,	4.	MR. BOWERS: Okay.	
5.	we may have it.	5.	MR. ROBINSON: Other side.	
6.	MR. BAUGHMAN: Okay.	6.	MR. BOWERS: Okay.	
7.	MR. LAUDERDALE: They may not. I	7.	MR. PISCHKE: Yeah. It's all	
8.	don't know.	8.	MR. BOWERS: Sorry. Yeah. You're	
9.	MR. BAUGHMAN: Okay. So a code	9.	right.	
10.	repair has been performed. And we're looking at	10.	MR. ROBINSON: So 26, 26.	
11.	this, evaluating it without that documentation being	11.	MR. BOWERS: So it was repaired as	
12.	here, which should be an integral part of what we're	12.	soon as it was put in? Or was that part of the	
13.	looking at. And during that repair process, it	13.	MR. ROBINSON: And I don't really	
14.	seems to me that the repair company would have made	14.	MR. BAUGHMAN: Oh, no. The	
15.	some note at that time that there was not a NB	15.	MR. ROBINSON: understand that.	
16.	Number.	16.	If they repaired it, they build a part think of	
17.	MR. PISCHKE: Would the State of	17.	it they build a part.	
18.	Tennessee have a record of this repair?	18.	MR. BOWERS: Yeah.	
19.	MR. CHAPMAN: I haven't found it.	19.	MR. ROBINSON: Okay. The coil is	
20.	MR. PISCHKE: Okay.	20.	nothing more than a segment 4.5-inch tube.	
21.	MR. CHAPMAN: Because like I was	21.	MR. BOWERS: Yeah.	
22.	looking up I was talking to a gentleman on it and	22.	MR. ROBINSON: Okay. It's wrapped	
23.	trying to find the information on it and I couldn't	23.	around and then you literally insert it inside a big	
24.	find anything on it.	24.	gigantic shell.	
25.	MR. PISCHKE: Okay.	25.	MR. BOWERS: Yeah.	
	Page 146			Page 148
1.	Page 146 MR. BOWERS: One note, the repair	1.	MR. ROBINSON: Okay. Then the only	Page 148
1. 2.	-	1. 2.	thing that really could have been done in the field	Page 148
1	MR. BOWERS: One note, the repair that was done was done in '01, correct? MR. PASTOREK: Yes, sir.		thing that really could have been done in the field was maybe they put flanges on it. But I don't think	Page 148
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		Page 149		Page 15
1.	did. I can't say that he didn't.	C	1.	like that.
2.	MR. ROBINSON: Well, let's look at		2.	MR. BAUGHMAN: And I know Scott is
3.	the data report. See what it says. See if it says		3.	fairly new with Hartford, so I don't see any of
4.	anything about flanges. Usually, they do. They		4.	his any communications on here from himself, even
5.	used to. I don't know.		5.	through any of the previous records. But I was just
6.	MR. PASTOREK: Just thinking about		6.	wondering if because Steve Alexander with ARISE,
7.	it, I don't know the answer, either, but just		7.	which was the insurance inspection there would
8.	thinking about it, you do have penetrations in the		8.	have been an AI at that time with this R stamp
9.	fired portion of the unit.		9.	repair, and I don't know who the AI was, but the AI
0.	MR. ROBINSON: Penetrations.		10.	may also have some documentation, because they're an
1.	MR. PASTOREK: And so it's likely		11.	intimate part of this repair equation.
2.	that they did have to weld the nozzles on.		12.	But we're lacking documentation on
3.	MR. BAUGHMAN: Yeah.		13.	the repair, which is a concern. And we've got the
4.	MR. ROBINSON: Okay. Okay. That		14.	P-4, which is a partial data report for the coil
5.	makes sense, then.		15.	itself, but we're lacking the supporting
6.	MR. BOWERS: Okay.		16.	documentation for the coil. And I'm just trying
7.	MR. PISCHKE: Yeah. They don't list		17.	to think of how we can get it for analyzation.
8.	the flange on the data reports.		18.	MR. ROBINSON: Did you try to go back
9.	MR. ROBINSON: So that's		19.	to ARISE and ask them for documentation?
0.	MR. BAUGHMAN: Verdict.		20.	MR. PASTOREK: We went back to Ivan
1.	MR. ROBINSON: Okay. They do talk		21.	and Son.
2. 3.	about (as read) the schedule of the four-inch		22. 23.	MR. ROBINSON: Who?
э. 4.	piping. They talk about the seamless carbon steel. The coil, 60-inch diameter. They talk about the		23. 24.	MR. PASTOREK: Ivan and Son was the company that
4. 5.	turns, 600 square feet through the elbow, 12-inch		25.	MR. ROBINSON: Did the installation.
J.	turns, 600 square reet unough the eroow, 12-men		23.	WK. RODINSON. Did the histaliation.
		Page 150		Page 15
1.	pipe on the first wrap and having 14 groove weld.		1.	MR. CHAPMAN: Where?
2.	And they don't other parts they talk about the		2.	MR. BAUGHMAN: That's where.
3.	heating coil, and that's it.		3.	MR. PASTOREK: Well, they
4.	MR. PISCHKE: And that's it.		4.	MR. ROBINSON: Where?
5.	MR. ROBINSON: So basically, the		5.	MR. PASTOREK: I guess acquired or
6.	piping. You're right. They did not put the flanges		6.	retained the ownership of I don't know how that
7.	on it. That's why the stamp is there.		7.	worked but in access to the records but we did
8.	MR. PISCHKE: Yeah. They welded it		8.	request the records from them and they did not
9.	on.		9.	provide them to us.
0.	MR. BAUGHMAN: Vertical or a		10.	MR. ROBINSON: What did they say?
1.	horizontal unit?		11.	MR. PASTOREK: I think the company
2.	MR. PASTOREK: It's horizontal.		12.	went out of business probably 10-plus years ago, and
3.	MR. BAUGHMAN: Okay. Has Steve		13.	I think it was just a matter of probably new people,
4. ~	Alexander's still the current inspector with ARISE.		14.	new you know, not familiar with it and they were
5.	Has he been contacted as far as having any possible		15.	just kind of like, we don't know. We're not even in
6. 7	data?		16.	that business anymore. We're not sure what the
7.	MR. PASTOREK: We the only I'm		17.	history of that is.
8.	trying to think of who we've spoken with related to		18.	MR. ROBINSON: And you
9. 0	that. But we've been dealing with a representative		19.	MR. PASTOREK: I mean, is that fair
0.	from Hartford Steam Boiler. And I think his name i	S	20.	to
1.	Scott Brown (phonetic), and he did not have any		21.	MR. ROBINSON: Go ahead, Harold.
2.	record or copy or photos of an old he did provide		22.	MR. BOWERS: You know, being that
3. 1	inspection history since we installed the unit		23.	we've got P-4, you know, we know that the coil was
4. 5.	and the replacement coil. And there was no there were no references to it or attachments or anything		24. 25.	made to ASME. I guess the only concern we have Dave has brought up. We have this pressure vessel
J.	were no references to it of attachments of anything		J.	Dave has brought up. we have this pressure vesser

	Page 153		Page 155
1.	built to code. The only thing we don't have is the	1.	forward to recertify this vessel to have the repair
2.	R-1 that it was done three days I look at the	2.	analyzed and I don't feel comfortable taking an
3.	days like, three days after the coil. So I guess	3.	assumption that everything is like it's supposed to
4.	that's the only question is but we know that	4.	be. I just I don't feel comfortable in that.
5.	we've got the P-4 here, so we know this is a good	5.	How would we move forward with taking
6.	coil. So we just don't know what's happen to it	6.	this vessel and whether the SOP is to do an
7.	afterwards.	7.	ultrasound, do a mag particle, doing whatever to
8.	MR. BAUGHMAN: What's the protocol	8.	recertify this repair. We know the vessel the
9.	and I ask because I don't know. So when a code	9.	unit itself is okay, or at least it was
10.	repair is done and there's a stamp put on the	10.	constructed okay. It's been there since 2001.
11.	boiler	11.	It's been operating since 2001. So we've got 16
12.	MR. CHAPMAN: Uh-huh.	12.	years of operation on this, too.
13.	MR. BAUGHMAN: what's the protocol	13.	MR. PISCHKE: And we and it's been
14.	and where would that information be? Boiler Heat &	14.	signed off by the State. So that's objective
15.	Exchange got bought out by Ware. Ware took over	15.	evidence
16.	those assets and should have retained the paperwork.	16.	MR. ROBINSON: Yes.
17.	But somewhere along the way, is there a travelers or	17.	MR. PISCHKE: too, that everything
18.	is there any other paperwork that has been filed	18.	was done in accordance with the, you know, NBIC and
19.	somewhere that may still be accessible.	19.	ASME. I mean so I don't think we need to argue
20.	MR. CHAPMAN: Well, if it'd had a	20.	that so much. Now, having said that, we're missing
21.	good National Board Number, it would have been sent	21.	a few pieces of the puzzle.
22.	up to the National Board. But by I don't know	22.	And to Dave's point, is there
23.	where the number came from for that was put on	23.	something that we can do to help us fill in those
24.	there for National Board Number. There's no way	24.	blanks? Perhaps, even, you know, an additional
25.	their link what is what? And I know that's kind	25.	inspection of the unit that could give us
-0.			inspection of the unit that could give us
1			
	Daga 15/	 	Daga 156
1	Page 154	1	Page 156
1.	of a halfway answer, but that's the	1.	reassurance that it's still in good operating
2.	of a halfway answer, but that's the MR. PISCHKE: And even the repair	2.	reassurance that it's still in good operating condition and not in unsafe degradation or
2. 3.	of a halfway answer, but that's the MR. PISCHKE: And even the repair company they would only be required to maintain	2. 3.	reassurance that it's still in good operating condition and not in unsafe degradation or anything like that? Is that kind of
2. 3. 4.	of a halfway answer, but that's the MR. PISCHKE: And even the repair company they would only be required to maintain those records for five years.	2. 3. 4.	reassurance that it's still in good operating condition and not in unsafe degradation or anything like that? Is that kind of MR. BAUGHMAN: Well, my end of it is,
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	Pac	ge 157	Page 159
1.	to. So how can we confidently define this as a		whether or not to replace it. We actually replaced
2.	Tennessee Special without having all the		• • •
3.	information in place?	3	. replace it
4.	MR. ROBINSON: I've got a suggestion.		MR. ROBINSON: So you're verifying
5.	And I briefly brought it up to the Chief, just	4	i. it
6.	briefly. And I haven't seen drawings, so I don't	6	MR. PASTOREK: for a long time.
7.	know I don't have a luxury of knowing your		MR. ROBINSON: in accordance with
8.	configuration, with the exception I could imagine	8	NBIC and looking for carbon content, as well. So
9.	do you have drawings?	Ģ	. you've got a track record.
10.	MR. LAUDERDALE: I do not have a	10	MR. PASTOREK: We check a number of
11.	drawing. You needed to have a sketch of the basic	11	. different things. Yes, sir.
12.	configuration of the unit.	12	MR. ROBINSON: And again, to validate
13.	MR. ROBINSON: Well, for the flanges	13	that, to make sure, and that's my two cents.
14.	and how they attach to that coil as it sticks out of	14	. MR. BAUGHMAN: Will the unit have to
15.	the vessel.	15	. be disassembled in order to perform this
16.	MR. PASTOREK: We don't have a	16	
17.	drawing of that.	17	
18.	MR. ROBINSON: If the wells are	18	Ç
19.	accessible for just the coil section or I'm	19	·
20.	sorry, for the attachment of the flanges to the	20	
21.	coil, I would suggest doing a PMI first to determine	21	ϵ
22.	that your material was adequate. Positive material	22	
23.	identification. And if possible, look in the weld	23	·
24.	area, as well. See if that will show. If that's	24	1
25.	successful, then go ahead and perform a radiography,	25	MR. ROBINSON: You if the nozzles
	Pag	ge 158	Page 160
1.	100 percent of the welds. Now, we can't go back and	1	. are accessible and that would require you to move
2.	identify the welder.	2	the manifold header. And there's a good possibility
3.	MR. PISCHKE: Well, we have a P-4	3	. you can do a visual on the internal of that
4.	form that documents the welds, correct?	4	connection. Most of the ones I've seen, the nozzles
5.	MR. ROBINSON: For the coil.	5	. was approximately between 12 and 10 inches from the
6.	MR. PISCHKE: For the elements.	(face of the flange. By taking off the header
7.	MR. ROBINSON: For the coil.	1 7	. manifold, you would expose that entry point to that
8.	MR. PISCHKE: But the welds	8	e. piece of pipe.
9.	MR. ROBINSON: For the flanges.	Ģ	MR. PASTOREK: Yes, sir.
10.	MR. PISCHKE: For flanges, depending	10	MR. ROBINSON: And I've seen where
11.	on the type of flange, they may not be able to be	11	•
12.	x-rayed.	12	
13.	MR. ROBINSON: Absolutely. And	13	
14.	again, because I don't know the configuration,	14	
15.	slip-ons or butt-welded. If they're butt welded,	15	
16.	it's well within our rights that we could perform a	16	
17.	radiography inspection. And that'll tell us if the	17	e
18.	welds are sound. The PMI will tell us if the	18	
19.	material meets or exceeds criteria of the code.	19	
20.	With that said, the other only	20	• · ·
21.	option the only other well, additive I would	21	E C
22.	make a mention to is, you're doing a 15-year oil	$\begin{bmatrix} 22 \\ 22 \end{bmatrix}$	
23.	analysis, right? You said approximately 15 years?	23	1 1 1
24.	MR. PASTOREK: Well, we test it more	24	, , , , , , , , , , , , , , , , , , ,
	often than that, and we really make a decision on	25	MR. PISCHKE: We know that the
25.			

		Page 161	<u> </u>	Page 16
1.	component itself was built to ASME Section 1. I	rage 101	1.	MR. ROBINSON: Testing.
2.	mean, we have the data report.		2.	MR. PISCHKE: positive material
3.	MR. ROBINSON: Objective evidence.		3.	identification in accordance with Section 5 even
4.	MR. PISCHKE: Yeah. We don't have		4.	has ASME Section 5 has requirements for that.
5.	the R-1 form. And so the purpose of this would be		5.	And so you can do that.
6.	to verify that the requirements of that R stamp were		6.	Now, PMI is intended to verify what
7.	met. Is that did I properly characterize that?		7.	we believe we already know from documentation and
8.	MR. BOWERS: Yeah. But I would say,		8.	history and things like that. It's not a
9.	also, if you could dig in your files and find that		9.	fundamental process that you can take a piece of
10.	R-1, it might save a lot of headaches.		10.	material and from not knowing anything about it,
11.	MR. PASTOREK: Sure. I mean,		11.	have a definite
12.	we'll		12.	MR, ROBINSON: Identification.
			l	
13.	MR. PISCHKE: And ARISE might have		13.	MR. PISCHKE: conclusion. And the
14.	that?		14.	reason is it will not detect carbon content. And
15.	MR. CHAPMAN: Yeah.		15.	so it'll detect everything else, but it will not
16.	MR. PISCHKE: So maybe that would be		16.	detect carbon. So but it's a good tool. It's
17.	a good place to start.		17.	to verify what we already believe we know.
18.	MR. BAUGHMAN: Would the National		18.	MR. BAUGHMAN: In looking down the
19.	Board possibly assign an NB Number to this or not?		19.	road, if this unit has to have a coil replaced
20.	MR. CHAPMAN: Not now. It's too much		20.	again, then what do we do? Get a manufacturer
21.	time.		21.	that's got an NB Number?
22.	MR. PISCHKE: Not now.		22.	MR. PASTOREK: I would think that we
23.	MR. BAUGHMAN: Not now. Okay.		23.	learned a good lesson
24.	MR. ROBINSON: And because the cart's		24.	MR. BAUGHMAN: Okay.
25.	before the horse. You don't have welder		25.	MR. PASTOREK: in this situation.
		Page 162		Page 16
1.	qualification; you don't have material,		1.	So yes
2.	authenticity. There's a lot of things that are		2.	MR. PISCHKE: I think
3.	unknown.		3.	MR. PASTOREK: it was actually
4.	MR. PISCHKE: Yeah.		4.	something we I was exchanging some e-mails with
5.	MR. PASTOREK: When you talk about a		5.	our engineering manager earlier today about this
6.	visual inspection, who would conduct that? Is that		6.	very same thing that we've got to take a lesson
7.	something the State would do or is that		7.	learned from this and try to apply it.
8.	MR. ROBINSON: You could get a third		8.	MR. BAUGHMAN: Good.
9.	party.		9.	MR. BOWERS: Well, there were a lot
10.	MR. PISCHKE: AI. An authorized		10.	of mistakes that's not really your fault. It's
	inspector.		11.	other people have made that put you in this
11. 12.	MR. ROBINSON: You could have a third		12.	situation.
			13.	MR. PISCHKE: No. It sounds like you
13.	party perform your radiographic testing that has to		l	•
14.	be certified in accordance with Section 5. You can		14.	inherited
15.	get a third party to perform your PMI. A PMI		15.	MR. BAUGHMAN: So does that mean
16.	forgive me, positive material identification.		16.	that, in looking at this, that we get that
17.	MR. LAUDERDALE: Oh, you're talking		17.	accomplished first and then re-review this? Or does
18.	about		18.	that mean that we're approving it upon this
19.	MR. ROBINSON: They'll have to		19.	happening, or what the point moving forward, then?
20.	generate a procedure. Normally, there's a		20.	MR. CHAPMAN: Well, me, personally, I
21.	procedure. Some people will have a procedure. Go		21.	think that as what they should go ahead and get
22.	ahead.		22.	all that done and then bring it back.
23.	MR. PISCHKE: The testing the		23.	MR. BOWERS: Okay.
24.	third party testing company would normally have		24.	MR. CHAPMAN: All of that, because
25.	their qualifications to perform that		25.	then we'll have more pieces to the puzzle, as they
				<u> </u>

	Page 165	Г		Page 167
1.	say.	1.	question. If I understand what we talked about a	ruge 107
2.	MR. BAUGHMAN: So can they operate	2.	minute ago, if that was what was required of us; the	
3.	presently under the conditions that they have?	3.	PMI assessment, x-ray 100 percent of the welds, and	
4.	MR. ROBINSON: At some point, they're	4.	visual inspection of the internal of the nozzle	
5.	going to have to turn it off to	5.	or nozzles by a third-party AI. If there were a	
6.	MR. CHAPMAN: To do	6.	time period granted to us to perform that I mean,	
7.	MR. ROBINSON: do the testing.	7.	I we're going to call, like, this afternoon to	
8.	MR. CHAPMAN: Yeah.	8.	just try to begin the wheels, the gears turning on	
9.	MR. BAUGHMAN: Well, I understand.	9.	this.	
10.	But it's operating now	10.	But if we could have some reasonable	
11.	MR. CHAPMAN: Exactly.	11.	time frame where we can schedule a shutdown, do	
12.	MR. BAUGHMAN: without a Tennessee	12.	the disconnecting piping, because that's going to	
13.	Special, without an NB Number. It's been operating	13.	be a pretty significant effort on our part, then	
14.	for a number of years	14.	we can conduct that within that period, bring the	
15.	MR. CHAPMAN: Yeah.	15.	results back to you. But I guess, what I'm	
16.	MR. BAUGHMAN: safely, but what	16.	requesting is consideration of continuing to	
17.	I'm saying is, is that what's the protocol for	17.	operate the unit as it's operated for the past 16	
18.	operating without these numbers in place?	18.	years. We want to do what's right and we'll do it	
19.	MR. PISCHKE: Can we provide a	19.	quickly, but it will take us a little	
20.	temporary provision for operation?	20.	preferably, if we had time, we would like to be	
21.	MR. CHAPMAN: I believe it is, but I	21.	able to schedule it safely.	
22.	will have to make check and make sure on that.	22.	MR. PISCHKE: I would like to clarify	
23.	MR. BAILEY: Can I interject	23.	something in those requirements.	
24.	something? I just want to make sure, when you're	24.	MR. ROBINSON: Yes. Please do.	
25.	talking about Tennessee Special that I just want	25.	MR. PISCHKE: The RT would be	
	J			
	Page 166			Page 168
1.	Page 166 to read the rule to you on a Tennessee Special of	1.	necessary if the flange is a weld neck flange, and	Page 168
1. 2.	Page 166 to read the rule to you on a Tennessee Special of boilers and pressure vessels.	1. 2.	necessary if the flange is a weld neck flange, and it has the circumferential weld. That's when the RT	Page 168
1	to read the rule to you on a Tennessee Special of		it has the circumferential weld. That's when the RT	Page 168
2.	to read the rule to you on a Tennessee Special of boilers and pressure vessels.	2.		Page 168
2. 3.	to read the rule to you on a Tennessee Special of boilers and pressure vessels. MR. PISCHKE: Could you turn on your	2. 3.	it has the circumferential weld. That's when the RT would be required. We aren't asking you to x-ray	Page 168
2. 3. 4.	to read the rule to you on a Tennessee Special of boilers and pressure vessels. MR. PISCHKE: Could you turn on your mic?	2. 3. 4.	it has the circumferential weld. That's when the RT would be required. We aren't asking you to x-ray the welds that were produced using the ASME code	Page 168
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		Page 169		Pa	age 171
1.	understand.		1.	not a shop drawing.	C
2.	MR. PISCHKE: Yeah.		2.	MR. ROBINSON: No.	
3.	MR. PASTOREK: Not both.		3.	MR. PISCHKE: No.	
4.	MR. ROBINSON: And		4.	MR. BAUGHMAN: The Code specifically	
5.	MR. PISCHKE: And PMI		5.	says "shop drawing." So if we're not going to have	
6.	MR. PASTOREK: Plus the PMI.		6.	a shop drawing, then we're changing and not adhering	
7.	MR. ROBINSON: Technically, you don't		7.	to what's in the Code itself. So we've got the P-4	
8.	need an AI. What you need is a nondestructive		8.	and we're talking about the weld repair or the weld	
9.	testing organization.		9.	that was done for this, which is fine. That's kind	
10.	MR. PASTOREK: Okay.		10.	of its own separate entity. But the coil itself is	
11.	MR. LAUDERDALE: So a level 3		11.	also this Tennessee Special. And from what I'm	
12.	inspector.		12.	understanding, the shop drawing is an integral part	
13.	MR. PISCHKE: Yeah. A level well,		13.	of that.	
14.	it would be performed by a level 2 examiner.		14.	MR. ROBINSON: And you	
15.	MR. LAUDERDALE: Sure.		15.	MR. BAUGHMAN: So	
16.	MR. ROBINSON: Yes. Yes, sir.		16.	MR. ROBINSON: Is there any latitude	
17.	MR. PISCHKE: In accordance with		17.	in that verbiage, Dan?	
18.	their program. Normally, ASNT-TC-1A is		18.	MR. BAILEY: I'll read it again. If	
19.	MR. ROBINSON: And you could point		19.	a boiler or pressure vessel is of special design,	
20.	out to them that it's just keep it proper. You		20.	comma, or one that cannot bear the ASME and NB	
21.	could point out to them that it's a Section 1		21.	stamping, comma, details of the proposed	
22.	pressure vessel and it's stamped in accordance with		22.	construction, parentheses, including shop	
23.	that. And what he should be able to give to you is		23.	drawings that's in parentheses shall be	
24.	an ASME Section 1 procedure for performing those		24.	submitted to the chief inspector or chief	
25.	examinations. Okay?		25.	inspector's designee.	
		D 170		n	170
1	MR. BAUGHMAN: One other item that	Page 170	1.	MR. PASTOREK: Before construction.	age 172
1. 2.	Mr. Bailey described in that definition of the		2.	MR. BAILEY: Well, it just yeah.	
3.	Tennessee Special is the shop drawing. And so we're		3.	It says, approval for construction and installation	
4.	going to have to have the shop drawing itself on the		<i>3</i> .	as a, quote, "Tennessee Special," boiler, or	
5.	unit. Is that correct, through that wording?		5.	pressure vessel, must be obtained from the Board	
6.	MR. BAILEY: That's what it says.		6.	before construction has started.	
7.	MR. PASTOREK: We requested that, and		7.	MR. PISCHKE: Now, that's if it	
8.	we're not able to get copies of it.		8.	cannot be stamped with an ASME	
9.	MR. LAUDERDALE: Well		9.	MR. BOWERS: Right. This was	
10.	MR. ROBINSON: At least something so		10.	MR. PISCHKE: It can be and was.	
1	_		- 0.		
111.	we could identify it.		11.	MR. BOWERS: This can be	
11.	we could identify it. MR. CHAPMAN: Identify it. Yeah. Be		11. 12.	MR. BOWERS: This can be. MR. PISCHKE: This can be and was	
12.	MR. CHAPMAN: Identify it. Yeah. Be		12.	MR. PISCHKE: This can be and was	
12. 13.	MR. CHAPMAN: Identify it. Yeah. Be able to identify it.		12. 13.	MR. PISCHKE: This can be and was stamped, because there's an ASME	
12.	MR. CHAPMAN: Identify it. Yeah. Be able to identify it. MR. ROBINSON: And keep in mind		12.	MR. PISCHKE: This can be and was	
12. 13. 14. 15.	MR. CHAPMAN: Identify it. Yeah. Be able to identify it. MR. ROBINSON: And keep in mind well, with regards to possibly two different		12. 13. 14.	MR. PISCHKE: This can be and was stamped, because there's an ASME MR. BOWERS: Because there are P-4s that have	
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		Page 173		Page 175
1.	drawings if it's ASME code stamped.	ruge 173	1.	MR. BAUGHMAN: For me, it's just not
2.	MR. BOWERS: Right.		2.	meeting the total verbage of what's in the Code. I
3.	MR. PISCHKE: That's the way I		3.	don't disagree. It just says that it's got to have
4.	understand it.		4.	an ASME and National Board and that the shop
5.	MR. BAUGHMAN: Excuse me, just a		5.	drawings were to be included and
6.	second. Is that there's a word in there, though,		6.	MR. BAILEY: Well, the shop drawings
7.	that says "ASME and		7.	would be included if it's going to try to seek the
8.	MR. BAILEY: Yeah.		8.	status of Tennessee Special.
9.	MR. BAUGHMAN: National Board."		9.	MR. BAUGHMAN: If it can't meet
10.	It doesn't say either/or.		10.	MR. BAILEY: Right.
11.	MR. BAILEY: No. It comes between		11.	MR. BOWERS: Right.
12.	two parentheses. So it's you know, it says, if a		12.	MR. PISCHKE: ASME
13.	boiler or pressure vessel is of special design,		13.	MR. BOWERS: Yeah.
14.	comma, or one that cannot bear the ASME and NB		14.	MR. BAUGHMAN: And
15.	stamping, comma so we're talking about two		15.	MR. PISCHKE: requirements.
16.	different situations there.		16.	MR. BAILEY: Right.
17.	MR. PISCHKE: Yeah.		17.	MR. BAUGHMAN: Okay.
18.	MR. BAILEY: And this and there's		18.	MR. BAILEY: Exactly.
19.	is the second situation, one that cannot bear the		19.	MR. BAUGHMAN: Where does that word
20.	ASME		20.	"and" follow, because is "and" and "shall" virtually
21.	MR. PISCHKE: It can.		21.	the same thing, where it says
22.	MR. BAILEY: and NB stamping, or		22.	MR. PISCHKE: Because all vessels in
23.	at least that's what I was hearing to begin with.		23.	Tennessee are they don't meet they don't
24.	But I never heard why it cannot be stamped.		24.	necessarily meet National Board requirements other
25.	MR. PISCHKE: Oh, it can.		25.	than registration.
		Page 174		Page 176
1.	MR. BAUGHMAN: It can.	Page 174	1.	Page 176 MR. ROBINSON: Right.
1. 2.	MR. BAUGHMAN: It can. MR. BOWERS: Yes.	Page 174	1. 2.	_
1		Page 174		MR. ROBINSON: Right.
2.	MR. BOWERS: Yes.	Page 174	2.	MR. ROBINSON: Right. MR. PISCHKE: Because it's not
2. 3.	MR. BOWERS: Yes. MR. BAILEY: It hasn't been, so	Page 174	2. 3.	MR. ROBINSON: Right. MR. PISCHKE: Because it's not applicable to a brand new vessel.
2. 3. 4.	MR. BOWERS: Yes. MR. BAILEY: It hasn't been, so MR. PISCHKE: There's it can.	Page 174	2. 3. 4.	MR. ROBINSON: Right. MR. PISCHKE: Because it's not applicable to a brand new vessel. MR. BOWERS: And it would have
2. 3. 4. 5.	MR. BOWERS: Yes. MR. BAILEY: It hasn't been, so MR. PISCHKE: There's it can. MR. BAILEY: So does that even	Page 174	2. 3. 4. 5.	MR. ROBINSON: Right. MR. PISCHKE: Because it's not applicable to a brand new vessel. MR. BOWERS: And it would have again, its ASME paperwork
2. 3. 4. 5. 6.	MR. BOWERS: Yes. MR. BAILEY: It hasn't been, so MR. PISCHKE: There's it can. MR. BAILEY: So does that even qualify or does it come under the definition of a	Page 174	2. 3. 4. 5. 6.	MR. ROBINSON: Right. MR. PISCHKE: Because it's not applicable to a brand new vessel. MR. BOWERS: And it would have again, its ASME paperwork MR. BAUGHMAN: One that can bear ASME
2. 3. 4. 5. 6. 7.	MR. BOWERS: Yes. MR. BAILEY: It hasn't been, so MR. PISCHKE: There's it can. MR. BAILEY: So does that even qualify or does it come under the definition of a Tennessee Special?	Page 174	2. 3. 4. 5. 6. 7.	MR. ROBINSON: Right. MR. PISCHKE: Because it's not applicable to a brand new vessel. MR. BOWERS: And it would have again, its ASME paperwork MR. BAUGHMAN: One that can bear ASME and National Board stamping.
2. 3. 4. 5. 6. 7. 8.	MR. BOWERS: Yes. MR. BAILEY: It hasn't been, so MR. PISCHKE: There's it can. MR. BAILEY: So does that even qualify or does it come under the definition of a Tennessee Special? MR. PISCHKE: It's my	Page 174	2. 3. 4. 5. 6. 7. 8.	MR. ROBINSON: Right. MR. PISCHKE: Because it's not applicable to a brand new vessel. MR. BOWERS: And it would have again, its ASME paperwork MR. BAUGHMAN: One that can bear ASME and National Board stamping. MR. PISCHKE: So it's saying that it can't. This one can. It may not, but it can. MR. BOWERS: Yes.
2. 3. 4. 5. 6. 7. 8. 9. 10.	MR. BOWERS: Yes. MR. BAILEY: It hasn't been, so MR. PISCHKE: There's it can. MR. BAILEY: So does that even qualify or does it come under the definition of a Tennessee Special? MR. PISCHKE: It's my understanding and I'm I can be corrected on	Page 174	2. 3. 4. 5. 6. 7. 8. 9.	MR. ROBINSON: Right. MR. PISCHKE: Because it's not applicable to a brand new vessel. MR. BOWERS: And it would have again, its ASME paperwork MR. BAUGHMAN: One that can bear ASME and National Board stamping. MR. PISCHKE: So it's saying that it can't. This one can. It may not, but it can.
2. 3. 4. 5. 6. 7. 8. 9. 10. 11.	MR. BOWERS: Yes. MR. BAILEY: It hasn't been, so MR. PISCHKE: There's it can. MR. BAILEY: So does that even qualify or does it come under the definition of a Tennessee Special? MR. PISCHKE: It's my understanding and I'm I can be corrected on this. The only thing this is missing is National	Page 174	2. 3. 4. 5. 6. 7. 8. 9.	MR. ROBINSON: Right. MR. PISCHKE: Because it's not applicable to a brand new vessel. MR. BOWERS: And it would have again, its ASME paperwork MR. BAUGHMAN: One that can bear ASME and National Board stamping. MR. PISCHKE: So it's saying that it can't. This one can. It may not, but it can. MR. BOWERS: Yes. MR. PISCHKE: There's nothing stopping it from bearing it already bears the
2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.	MR. BOWERS: Yes. MR. BAILEY: It hasn't been, so MR. PISCHKE: There's it can. MR. BAILEY: So does that even qualify or does it come under the definition of a Tennessee Special? MR. PISCHKE: It's my understanding and I'm I can be corrected on this. The only thing this is missing is National Board	Page 174	2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13.	MR. ROBINSON: Right. MR. PISCHKE: Because it's not applicable to a brand new vessel. MR. BOWERS: And it would have again, its ASME paperwork MR. BAUGHMAN: One that can bear ASME and National Board stamping. MR. PISCHKE: So it's saying that it can't. This one can. It may not, but it can. MR. BOWERS: Yes. MR. PISCHKE: There's nothing
2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13.	MR. BOWERS: Yes. MR. BAILEY: It hasn't been, so MR. PISCHKE: There's it can. MR. BAILEY: So does that even qualify or does it come under the definition of a Tennessee Special? MR. PISCHKE: It's my understanding and I'm I can be corrected on this. The only thing this is missing is National Board MR. CHAPMAN: Number.	Page 174	2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13.	MR. ROBINSON: Right. MR. PISCHKE: Because it's not applicable to a brand new vessel. MR. BOWERS: And it would have again, its ASME paperwork MR. BAUGHMAN: One that can bear ASME and National Board stamping. MR. PISCHKE: So it's saying that it can't. This one can. It may not, but it can. MR. BOWERS: Yes. MR. PISCHKE: There's nothing stopping it from bearing it already bears the ASME. MR. BAUGHMAN: Right. And
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		Page 177		Page
1.	Board's consideration as a Tennessee Special. And I	1 480 177	1.	MR. PISCHKE: Anybody who's quick,
2.	think we performed we elected to perform some		2.	fast with math.
3.	additional testing to authenticate or to objectively		3.	MR. PASTOREK: November 1st-ish.
4.	identify that the welding was correct and the welds		4.	MR. BAILEY: Around Halloween.
5.	were sufficient. And we granted the Tennessee		5.	MR. PASTOREK: Around yeah. End
6.	Special.		6.	of October, late October.
7.	MR. BAUGHMAN: Those units also had		7.	MR. BAILEY: You could dress it up.
8.	shop drawings that we evaluated.		8.	MR. ROBINSON: Put a sticker on it.
9.	MR. ROBINSON: Yes, they did.		9.	MR. PASTOREK: I'm going to turn to
0.	Absolutely. They had a complete dossier.		10.	look at my plant manager and see if that's does
1.	MR. PISCHKE: They were fairly new,		11.	that seem reasonable to you? Late October? I mean,
2.	also.		12.	I know I mean, just being transparent, I mean,
3.	MR. ROBINSON: They had a complete		13.	this is probably the busiest time of year for us for
4.	dossier.		14.	asphalt business. And so
5.	MR. BOWERS: Well, the situation we		15.	MR. PISCHKE: Six weeks.
6.	are in now and what the I guess, what they're		16.	MR. PASTOREK: Yeah. And we'll get
7.	wanting to know is they have to have a certain		17.	back and be able to tell whether or not if it's a
8.	amount of stuff they're going to have to do, but		18.	slip-on or a butt weld. And that'll if it's not,
9.	they want to operate this device, I guess until the		19.	then we can very easily schedule it and have it
20.	next board meeting, correct? I guess they won't be		20.	ready by that time. But if we have to disconnect
21.	able to present anything until the next Board		21.	piping and drain the system, do all that, that's
22.	meeting. So they need to operate this equipment		22.	I mean, we could be down for a couple weeks,
23.	they're going to need a time period to get this		23.	
	stuff done.			probably.
24.			24.	MR. PISCHKE: I'd also like to, I
25.	MR. CHAPMAN: Right.		25.	guess, emphasize that, you know, this is an ASME
		Page 178		Page
1.	MR. BOWERS: And they want to operate	Ü	1.	Code vessel that is operating using a fluid and not
2.	until they get it done. So they won't present it		2.	gas, correct?
3.	till the next Board meeting. So they're wanting our		3.	MR. PASTOREK: That's correct.
4.	consideration to see if they can operate until the		4.	MR. PISCHKE: It's not steam. It
5.	next Board meeting.		5.	doesn't possess a large amount of stored energy like
6.	MR. ROBINSON: The gentleman was		6.	steam. It's an incompressible fluid under pressure.
7.	give he had given us you had given us your		7.	MR. BAUGHMAN: That does have a
8.	plans as far as what you planned on doing after you		8.	flashpoint.
9.	left here if we decided to go a certain way. You		9.	MR. PISCHKE: Sure.
10.	want to restate what you just mentioned?		10.	MR. PASTOREK: Sure.
1.	MR. PASTOREK: Yes, sir. I guess one		11.	MR. PISCHKE: Yeah.
12.	question I have before I run through that, if I		12.	MS. JEFFERSON: Is it an alternative
12.	could, is just a question about how often the Board		13.	for them to request a variance, instead, for them to
4.			l	continue to operate? Is that appropriate? And then
	meets and when the next meetings would be? MR. PISCHKE: It's December.		14.	to come to the March meeting with all of the
15.			15.	<u>c</u>
16.	MS. JEFFERSON: Yes. It's going to		16.	approvals? That would probably provide additional
7.	be		17.	time.
8.	MR. PISCHKE: December 13th.		18.	MR. BAILEY: Basically, a temporary
9.	MS. JEFFERSON: December the 13th.		19.	variance
0.	MR. PASTOREK: And so in that case,		20.	MR. PISCHKE: A temporary variance.
1.	would we need to 45 days before that meeting,		21.	MR. BAILEY: to keep running until
2.	have objective information to provide to the Board?		22.	March.
23.	MR. CHAPMAN: The criteria is 45		23.	MR. PASTOREK: That would be if
24.	days.		24.	that was something that we could be considered,
	MR. PASTOREK: So		25.	that would be preferable.
25.				

Page 181 MR. BOWERS: It'd be six months,	1.	Page 183
	1.	the same operating conditions that you have been
7.	2.	now or have now. Also in March by March, we
MR. BAUGHMAN: Well, and that doesn't	3.	will have the deliverables of the nondestructive
cedent, then, in the future. Where it set	4.	examination and the material verification, all of
ent for us to evaluate a variance rather	5.	those requirements that we spelled out earlier.
oping forward and just saying, you can run.	6.	Is that correct?
ne variance is a good idea.	7.	MR. BAUGHMAN: Yeah.
MR. ROBINSON: Yeah, it is. Very	8.	MR. PISCHKE: Am I
•	9.	MR. PASTOREK: Can I ask one
MR. BAUGHMAN: So how do we word the	10.	clarification? The shop drawings.
?	11.	MR. BOWERS: You won't need the shop
MR. BAILEY: Well, basically, that	12.	drawings if we do the variance.
y're requesting is they be permitted to	13.	MR. PASTOREK: Okay.
to operate as they've been operating, which	14.	MR. BOWERS: Correct?
om the Code or the rules. And I don't know	15.	MR. PISCHKE: Correct.
xact you know, all every exact thing	16.	MR. PASTOREK: We requested just
ferent, but whatever the differences are,	17.	for your own information, we did try to request
sking that you all grant a variance for	18.	those from the manufacturer and they did not provide
March Board meeting for them to come back	19.	those to us.
ond to some of the questions.	20.	MR. PISCHKE: Just as good practice,
And even then, I still question	21.	I would try to continue to find that.
this is a Tennessee Special. It may be	22.	MR. PASTOREK: To try to pursue it?
grant a permanent variance for them to	23.	Okay.
at that time. I mean, I think what I	24.	MR. PISCHKE: Pursue that. Perhaps
tle afraid of is granting this a	25.	even do some reverse drawings.
	1	
Page 182	+	Page 184
ee Special, calling it that, when it really	1.	MR. BAUGHMAN: Can I interject?
. You know. And that kind of sets a	2.	MR. PISCHKE: Go ahead.
nt that you don't want to do. You know.	3.	MR. BAUGHMAN: The manufacturer
So this would be a temporary variance	4.	the coil is no longer manufactured, but Volcanic
, basically, to continue operating as they	5.	themselves out of Alliance, Ohio, is still a
n operating. Now, you can qualify that.	6.	manufacturer.
are certain things you think they're	7.	MR. PASTOREK: Yes, sir. That's
w that you'd rather see them do it this	8.	correct.
l March, you can certainly do it that way.	9.	MR. BAUGHMAN: And they themselves
hat's up to y'all as far as how you word	10.	cannot provide a shop drawing for this unit, even
tion.	11.	a
MR. PISCHKE: I tend to agree with	12.	MR. PASTOREK: They haven't.
ssment that it should be a variance rather	13.	MR. LAUDERDALE: So far, they have
ate Special.	14.	not. We have requested it repeatedly. We will
MR. BOWERS: Okay.	15.	continue to hound them and see what happens.
MR. PISCHKE: Is that	16.	MR. BAUGHMAN: It seems if they're a
MR. BAUGHMAN: I agree.	17.	current manufacturer that they, especially wanting
MR. BOWERS: Yeah.	18.	to do business with a company like Ergon, that they
MR. BAUGHMAN: It's just the wording	19.	would be forthcoming in that. But
-	20.	MR. PISCHKE: Sometimes they can't.
MR. PISCHKE: Okay. Well, you know,	21.	I mean
we can refine the wording between now and	22.	MR. BAUGHMAN: Yeah. Well, they're
f a permanent variance.	23.	still building units and they have the dimensionals,
But for now, I guess the motion is a	24.	so coming up with the dimensional shop drawings
ry variance to operate until March under	25.	shouldn't be a huge issue for this manufacturer.
•		-
we car f a per But for	n refine the wording between now and manent variance. The now, I guess the motion is a	PISCHKE: Okay. Well, you know, n refine the wording between now and manent variance. 23. r now, I guess the motion is a 24.

		Page 185		Page 18'
1.	But there again, I'm not working there, so I don't	1 4 5 0 10 5	1.	we're going to provide two things. We're either
2.	know.		2.	going to provide PMI and a visual inspection or PMI
3.	MR. PISCHKE: Yeah.		3.	and a 100-percent x-ray of the flange welds.
4.	MR. BAUGHMAN: But regardless, we're		4.	MR. PISCHKE: That's correct. Yeah.
5.	looking at this not from the possibility of a		5.	MR. PASTOREK: Results of that.
6.	Tennessee State Special, as we are an operational		6.	MR. PISCHKE: Yeah.
7.	variance now, at this point. Jesse's got something.		7.	MR. BOWERS: Or the R-1.
8.	MR. PASTOREK: So the		8.	MR. PASTOREK: Sir?
9.	MR. SMITH: I'm confused about the		9.	MR. BOWERS: Or the R-1.
10.	term oh, Jesse Smith, State boiler inspector.		10.	MR. PASTOREK: Yes, sir.
11.	I'm confused about the term		11.	MR. PISCHKE: Yeah. If you can
12.	"operational variance." We've got two types of		12.	contact ARISE and somehow get their records and
13.	variances listed in our boiler rules. One's the		13.	perhaps track down the R-1, that would be good.
14.	attendance variance and the other one's a variance		14.	MR. PASTOREK: Okay. Thank you.
15.	from meeting the annual internal inspection data		15.	MR. PISCHKE: I would also suggest
16.	of a high pressure boiler with data provided		16.	and we aren't making this mandatory, as I understand
17.	instances be met. But I'm not familiar with the		17.	it, but if you can come up with some drawings
18.	operational variance that you're describing.		18.	somehow?
19.	MR. BAILEY: I think in the		19.	MR. LAUDERDALE: We could at least
20.	statute and this is T.C.A. 68-122-1109(g): The		20.	come up with drawings of the external piping.
21.	Board may also, in its discretion, grant other		21.	MR. PISCHKE: Okay.
22.	variances where the Board deems it necessary in		22.	MR. BOWERS: Sound good?
23.	order to protect the health, safety, and welfare of		23.	MR. ROBINSON: You going to take a
24.	the public. All requests for variances shall be		24.	vote?
25.	submitted to the chief inspector or the chief		25.	MR. BAUGHMAN: I would make a motion
		Page 186		Page 18
1.	inspector's designee no less than 45 days prior to	Page 186	1.	Page 18 that we continue their operation until the next
1. 2.	inspector's designee no less than 45 days prior to the next regularly scheduled or called meeting of	Page 186	1. 2.	-
1		Page 186		that we continue their operation until the next
2.	the next regularly scheduled or called meeting of	Page 186	2.	that we continue their operation until the next Board meeting in March.
2. 3.	the next regularly scheduled or called meeting of the Board.	Page 186	2. 3.	that we continue their operation until the next Board meeting in March. MR. PISCHKE: Okay.
2. 3. 4.	the next regularly scheduled or called meeting of the Board. That's pretty broad.	Page 186	2. 3. 4.	that we continue their operation until the next Board meeting in March. MR. PISCHKE: Okay. MR. BOWERS: I second.
2. 3. 4. 5.	the next regularly scheduled or called meeting of the Board. That's pretty broad. MR. PISCHKE: Does that help?	Page 186	2. 3. 4. 5.	that we continue their operation until the next Board meeting in March. MR. PISCHKE: Okay. MR. BOWERS: I second. MR. PISCHKE: Second? We have a
2. 3. 4. 5. 6.	the next regularly scheduled or called meeting of the Board. That's pretty broad. MR. PISCHKE: Does that help? MR. SMITH: Yeah. If that satisfies	Page 186	2. 3. 4. 5. 6.	that we continue their operation until the next Board meeting in March. MR. PISCHKE: Okay. MR. BOWERS: I second. MR. PISCHKE: Second? We have a motion and a second. All those in favor, signify by
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2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 20. 21. 22. 23.	the next regularly scheduled or called meeting of the Board. That's pretty broad. MR. PISCHKE: Does that help? MR. SMITH: Yeah. If that satisfies you, that satisfies me. I just didn't know the existence. So thank you. MR. BAUGHMAN: Does that fall within those MR. BAILEY: I think so. MR. BAUGHMAN: terminology? MR. BAILEY: Yes, sir. MR. BAUGHMAN: Good. MR. BOWERS: Okay. MR. BAUGHMAN: If he's good with it MR. PISCHKE: He's good. MR. BAUGHMAN: I'm good with it. MR. PISCHKE: I was going to say the same thing. MR. PASTOREK: So not to beat a dead horse, but to make sure that we give you guys the	Page 186	2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23.	that we continue their operation until the next Board meeting in March. MR. PISCHKE: Okay. MR. BOWERS: I second. MR. PISCHKE: Second? We have a motion and a second. All those in favor, signify by saying "aye." MR. FOX: Aye. MR. BAUGHMAN: Aye. MR. BOWERS: Aye. MR. PISCHKE: Aye. Opposed? Item passes unanimously. MR. PASTOREK: Thank you. MR. BAUGHMAN: Good job guys. MR. PISCHKE: Thank you. MR. BAUGHMAN: Thank you. MR. BAUGHMAN: Thank you. MR. BAILEY: Mr. Chairman, could we at least have a five-minute break? MR. BOWERS: Yes. MR. PISCHKE: I don't know. Yeah. Sure. (Recess observed.) MR. PISCHKE: Okay. We'll get back

		Page 189			Page 191
1.	MR. BOWERS: Ask about	ruge 10)	1.	circumstances. We have direct radio-to-radio	ruge 171
2.	MR. BAUGHMAN: Conflicts?		2.	capability for power outages. We have a	
3.	MR. PISCHKE: Oh, I'm sorry. Thank		3.	plant-wide intercom system in case of somebody	
4.	you.		4.	has a radio turned off, the battery dies, that	
5.	MR. FOX: Conflicts.		5.	sort of thing.	
6.	MR. PISCHKE: Anyone have a conflict		6.	Also, we have examples the Board	
7.	of interest on this item? Okay. Not hearing any.		7.	has asked a lot of questions about training for	
8.	MR. HAYS: I'm Chris Hays, BASF		8.	operators and the today, so we've brought	
9.	Corporation. This is Brittany Davis, also with		9.	examples of what our training documentation looks	
10.	BASF.		10.	like and both for our on-the-job sign-offs and	
11.	We are BASF is requesting a		11.	things like that as well as training on	
12.	variance for two boilers located at the 32 Lost		12.	procedures.	
13.	Mound Drive plant in Chattanooga. The boilers are		13.	So our plan would be, if a variance	
14.	part of a chemical manufacturing process. We		14.	is approved, we would initiate our management of	
15.	produce styrene-butadiene polymers, as far as it's		15.	change process and get these procedures that are	
16.	for using adhesives and foams on the asphalt.		16.	drafts that we presented to you actually in	
17.	In addition to these boilers, we		17.	service in the plant and training started on all	
18.	operate 123 other pressure vessels, including		18.	of those approved by site management, engineering,	
19.	eight 5,500 gallon reactors. Our processes are		19.	and EHS. And then we would include in the	
20.	governed by OSHA PSM and EPA RMP standards.		20.	maintenance plans for the area to have the	
21.	And a little background on the		21.	variance renewed at the proper time.	
22.	facility. It's divided into six production units.		22.	MR. PISCHKE: Okay.	
23.	So the six units make up a continuous process from		23.	MR. HAYS: If you have any	
24.	raw material to finished goods. And a utilities		24.	questions	
25.	area, 1600, is where the boilers, deaerator, air		25.	MR. PISCHKE: Okay. I'd like a	
		Page 190			Page 192
1.	compressors, cooling towers of the utilities are	ruge 170	1.	motion to discuss.	ruge 172
2.	located.		2.	(No verbal response.)	
3.	We have a main control room that's		3.	MR. BOWERS: I'll second.	
4.	centrally located in the plant. Our main control		4.	MR. PISCHKE: Okay.	
5.	room is attended 24/7 by either a team leader or		5.	MR. BAILEY: Before we go, just let	
6.	one or more of the other operators on shift. It's			$\mathcal{E} \nearrow 3$	
7.	one of more of the other operators on sint. It's		6.	the record show that Ms. Jefferson and Mr. Robinson	1
1	•			the record show that Ms. Jefferson and Mr. Robinson had to leave the meeting to go to Capitol Hill.	1
8.	a common operating area for the plant. Operators		6.	had to leave the meeting to go to Capitol Hill.	1
8. 9.	•		6. 7.		1
1	a common operating area for the plant. Operators that make adjustments to the process are either		6. 7. 8.	had to leave the meeting to go to Capitol Hill. That was already planned.	1
9.	a common operating area for the plant. Operators that make adjustments to the process are either from the field or from the control room DCS		6. 7. 8. 9.	had to leave the meeting to go to Capitol Hill. That was already planned. MR. PISCHKE: Thank you.	1
9. 10.	a common operating area for the plant. Operators that make adjustments to the process are either from the field or from the control room DCS consoles.		6. 7. 8. 9.	had to leave the meeting to go to Capitol Hill. That was already planned. MR. PISCHKE: Thank you. MR. BAUGHMAN: Let's go through that	1
9. 10. 11.	a common operating area for the plant. Operators that make adjustments to the process are either from the field or from the control room DCS consoles. The remote monitoring station for the		6. 7. 8. 9. 10.	had to leave the meeting to go to Capitol Hill. That was already planned. MR. PISCHKE: Thank you. MR. BAUGHMAN: Let's go through that again, the motion.	1
9. 10. 11. 12.	a common operating area for the plant. Operators that make adjustments to the process are either from the field or from the control room DCS consoles. The remote monitoring station for the boilers is located in the main control room. It's		6. 7. 8. 9. 10. 11.	had to leave the meeting to go to Capitol Hill. That was already planned. MR. PISCHKE: Thank you. MR. BAUGHMAN: Let's go through that again, the motion. MR. PISCHKE: Okay. A motion to	1
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9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24.	a common operating area for the plant. Operators that make adjustments to the process are either from the field or from the control room DCS consoles. The remote monitoring station for the boilers is located in the main control room. It's around 300 feet from the boiler control room. So in our case, the remote monitoring personnel will be either fellow operators and team leaders that are assigned to a shift or maybe the actual boiler operator, at the time. So the way that works in the control room, it may be attended by the team leader may leave and it could be the boiler operator, reactor operator, any of the other team that's actually attending the room. And also, all our operators carry two-way radios for direct communication. We		6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24.	had to leave the meeting to go to Capitol Hill. That was already planned. MR. PISCHKE: Thank you. MR. BAUGHMAN: Let's go through that again, the motion. MR. PISCHKE: Okay. A motion to discuss. MR. BOWERS: Second. MR. BAUGHMAN: Well, there needs to be a motion. MR. BOWERS: Okay. Motion to discuss. MR. PISCHKE: And second? MR. BAUGHMAN: Second. MR. BAUGHMAN: Second. MR. BAUGHMAN: Okay. Thank you. Go ahead. MR. BOWERS: Okay. I'm looking at your packet here, and the only thing I can see about	
9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22.	a common operating area for the plant. Operators that make adjustments to the process are either from the field or from the control room DCS consoles. The remote monitoring station for the boilers is located in the main control room. It's around 300 feet from the boiler control room. So in our case, the remote monitoring personnel will be either fellow operators and team leaders that are assigned to a shift or maybe the actual boiler operator, at the time. So the way that works in the control room, it may be attended by the team leader may leave and it could be the boiler operator, reactor operator, any of the other team that's actually attending the room. And also, all our operators carry		6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23.	had to leave the meeting to go to Capitol Hill. That was already planned. MR. PISCHKE: Thank you. MR. BAUGHMAN: Let's go through that again, the motion. MR. PISCHKE: Okay. A motion to discuss. MR. BOWERS: Second. MR. BAUGHMAN: Well, there needs to be a motion. MR. BOWERS: Okay. Motion to discuss. MR. PISCHKE: And second? MR. BAUGHMAN: Second. MR. PISCHKE: Okay. Thank you. Go ahead. MR. BOWERS: Okay. I'm looking at	

	Page 193	3	Page 1
1.	There's no Tennessee Number, National Board Number,	1.	MR. BAUGHMAN: It's okay.
2.	anything about the boilers in your packet.	2.	MR. HAYS: That's all I could give
3.	MR. HAYS: Right.	3.	you.
4.	MR. BOWERS: I mean, you're asking	4.	MR. PISCHKE: What are they set at?
5.	for a variance for these boilers, right?	5.	MR. HAYS: There's one right off the
6.	MR. HAYS: Yes.	6.	drum or right off the header that's 175 and then we
7.	MR. BOWERS: So there should be	7.	have a 195 and then also a 200 on the steam drum.
8.	something about the boilers in the packet, right?	8.	And we also I believe we did we supply them
9.	MR. HAYS: Well	9.	with the P&IDs?
0.	MR. BOWERS: Don't you agree?	10.	MS. DAVIS: We I don't believe we
1.	MR. HAYS: If that's a requirement,	11.	put the P&IDs in your packet, but we do have a copy
2.	then yes. We don't have the National Board Number.	12.	of some supplemental materials that we can pass
3.	Would you like that in you would want that	13.	around. So if you would like to see the P&IDs, we
4.	included in the in our remote monitoring	14.	have a copy.
5.	procedure, just for the Board's information?	15.	MR. BAUGHMAN: I guess at my point
6.	MR. BOWERS: Yeah. You need that,	16.	where I'm at is that I've got nothing to refer to,
7.	right, Sam? You need the Tennessee Numbers and	17.	as far as the boilers go. I've got we're
8.	MR. CHAPMAN: Yeah.	18.	approving we're being asked to discuss and
o. 9.	MR. BOWERS: everything else for	19.	approve and a variance upon equipment that we can't
). 0.	the packets to	20.	ask about or even have identified other than the
1.	MR. CHAPMAN: Like on	21.	manufacturer in writing.
2.	MR. BAUGHMAN: Actually, part of the	22.	MS. DAVIS: Would you like to see a
.2.	requirement of the	23.	P&ID?
4.	MR. CHAPMAN: Yeah. On the check	24.	MR. HAYS: Are you saying that we
 5.	list.	25.	should have included the a U-1 form with the
		25.	should have included the "the Frontin with the
	Page 194	1	Page 1
1.	MR. PISCHKE: The check list. Yeah.	1.	MR. BAUGHMAN: No. Not necessarily
2.	MR. BAUGHMAN: It's under Systems	2.	the manufacturer data report. A U-1 would be for an
3.	Operating Manual, Number 4. Does the manual clearly	3.	unfired vessel, so this would be a P-2 manufacturer
4.	describe the boiler system that is being remotely	4.	data report.
5.	monitored?	5.	MR. PISCHKE: P-3.
6.	MR. HAYS: Okay.	6.	MR. BAUGHMAN: P-3. For the
7.	MR. BAUGHMAN: And to expand upon	7.	high-pressure boiler?
8.	that, since we have only that these are two B&W	8.	MR. PISCHKE: Yeah. For
9.	boilers, what year are the boilers?	9.	high-pressure.
0.	MR. HAYS: They are in this case,	10.	MR. BAUGHMAN: And S stamp's a P-2.
1.	they are original to the plant, 1971.	11.	Particularly, regardless, we don't have any we
2.	MR. BAUGHMAN: Two 1971 B&Ws. And	12.	don't have anything identifying what it is that
3.	what size are they?	13.	we're looking at. We've got the control system
4.	MR. HAYS: They are in our let me	14.	identified through here and valves that are opening
5.	get my correct procedure pulled up here. In our	15.	and closing and the procedures, but it doesn't
6.	Normal Operation Procedure that's UCM-W1603 in the	16.	identify the equipment itself. So I just I don't
7.	overview of the steam generation system, it's	17.	have anything to really analyze.
8.	Section 6.1, they are 30,000 pounds per hour on	18.	MR. BOWERS: Yeah. It'd be more like
9.	their name plate.	19.	a fact sheet. Basically, your Tennessee Number,
). 0.	MR. BAUGHMAN: At what PSI are they	20.	your
0. 1.	rated? Not what they operate, but what are they	21.	MR. PISCHKE: Your spec sheet.
2.	rated?	22.	MR. BOWERS: Yeah. Your National
2. 3.	MR. HAYS: They have I can give	23.	Board Number, your MAWP of your boiler, your safety
			valve settings, a fact sheet of that boiler. It'd
	· · · · · · · · · · · · · · · · · · ·		be something that you would put together. It
J.	out that 5	23.	oe something that you would put together. It
24. 25.	you relief valve settings off the but that's	_	- I

	Page 19	97		Page 199
1.	doesn't have to be something from the manufacturer.	´´ _{1.}	plant, we did find some evidence that they had in	ruge 199
2.	But all that data that relates to that boiler, like	2.	the past, but in our case, no, at Amnicola.	
3.	the now, you do have down 30,000 pounds an hour,	3.	MR. BOWERS: And basically, how	
4.	but, you know, what's the manufacturer the MAWP	4.	you're operating now is you have full-time operators	
5.	of that boiler	5.	24-7	
6.	MR. HAYS: Right.	6.	MR. HAYS: Yes, sir.	
7.	MR. BOWERS: in which your safety	7.	MR. BOWERS: based in the control	
8.	valves are set. You know. A little more data to	8.	room.	
9.	let us go by. And I even tried to look it up under	9.	MR. HAYS: Yes, sir.	
10.	the database, and I didn't even see these boilers in	10.	MR. BOWERS: So you're doing	
11.	there even to find the National Board the	11.	you're complying with the 20-minute rule	
12.	Tennessee Numbers on these. And you're the	12.	MR. HAYS: Yes.	
13.	MR. HAYS: Well, as far as the	13.	MR. BOWERS: by full-time	
14.	Yeah. As far as the name plate information and	14.	operators.	
15.	anything that our inspector	15.	MR. HAYS: Yes. We have a for the	
16.	MR. BOWERS: Yes.	16.	six operating areas, a full shift would be 18	
17.	MR. HAYS: would see and that sort	17.	members.	
18.	of thing, we well, we didn't include it in our	18.	MR. BOWERS: Yeah.	
19.	operating procedures or monitoring procedures. And	19.	MR. HAYS: One of them being an	
20.	then also, I guess, we should have set just given	20.	operator, a boiler operator that's qualified.	
21.	you that as a separate fact sheet.	21.	MS. DAVIS: There may be several	
22.	MR. BOWERS: And maybe a copy of	22.	operators on that shift that are qualified in that	
23.	the one of the State certificates, you know, with	23.	area, but only one should be assigned that day.	
24.	that. Your latest State certificate would help.	24.	So	
25.	MR. BAUGHMAN: Chris and Brittany, if	25.	MR. BOWERS: And what is the purpose	
	Page 19	98		Page 200
1.	you could direct me to where the placard is in the	1.	of going from the system that you've got to going	1 450 200
2.	manual that would be posted at the monitoring	2.	to a four-hour system? What's the benefits to	
3.	station?	3.	your is the operator still going to be there or	
4.	MR. HAYS: We don't have a placard in	4.	he's going to be doing different things now?	
5.	the manual for that. We normally, for any of our	5.	MR. HAYS: Yes. The operator will	
6.	operating procedures, we keep them, in this case, in	6.	still be there. Actually, for this plant, we had	
7.	books for every area next to the control console.	7.	not planned on going to four-hour checks. We were	
8.	Our plan was to use the control system work station	8.	going to just continue with most of the areas	
9.	that is designated for monomer storage and utilities	9.	have hourly rounds, anyway. So the purpose of this	
10.	use, those alarms from those areas are all routed	10.	would be for, really, flexibility, because the	
11.	through that one station, and through that one	11.	operator that runs the utility area also unloads raw	
12.	station's alarm annunciator.	12.	materials at times, which are flammables. And they	
13.	In that case, we had planned to use	13.	also, during certain parts of their operation,	
14.	radio communication to talk to a nearby boiler	14.	require constant attendance. So it's in a case	
15.	operator, which in our case would be most likely	15.	where we have possibly one boiler operator on shift,	
16.	within 300 feet of the boiler, anyway, or possibly	16.	he's got to kind of leave one spot possibly or shut	
17.	in the control room at the time. We had hoped to	17.	down an unloading operation, go check a boiler, and	
18.	stick with our if it would be allowed, to stick	18.	start up another unloading operation.	
19.	with our normal method of storing procedures,	19.	And some shifts where they may have	
20.	accessing procedures, and that sort of thing, if	20.	more than one boiler operator, you know, they may	
21.	it would be allowed.	21.	have to call somebody to leave, possibly the	
	MR. BAUGHMAN: Have these boilers	22.	reactor area, to go check the boilers and that	
22	ever operated under a variance?	23.	sort of thing. So this would just really allow a	
22. 23		- 1	normal hourly round of checks.	
23.		124		
l	MR. HAYS: I can't I don't believe so. I don't believe so on these. For our other	24. 25.	MR. BOWERS: So it's not going to	

	Page 20)1	Page 2
1.	change much from what you're operating right now.	1.	to materials that we don't have
2.	MR. HAYS: It doesn't add or subtract	2.	MR. HAYS: Right.
3.	any personnel from the area.	3.	MR. BAUGHMAN: that are integral
1.	MR. BOWERS: Okay.	4.	to the manual. Okay.
5.	MR. BAUGHMAN: So on Number 33 of our	5.	MR. HAYS: We understood that this
6.	form for the checklist, for attendant variance	6.	may cause some heartburn when we met with the Board
7.	request, Number 33 says, does the manual include a	7.	and we were hoping that we could bring enough
8.	training log that contains the date, name,	8.	information to show that we satisfied
9.	instructor signature and remarks. And it's marked	9.	MR. BAUGHMAN: Okay. It's
0.	"not applicable" with the comment to the side of	10.	MR. PISCHKE: Oh, we found it.
1.	6.3.3.2. And as I go back to look for 6.3.3.2, I	11.	MR. BAUGHMAN: We got it.
2.	cannot find that, unless I'm just overlooking it.	12.	MR. HAYS: the requirements.
3.	But it goes from 6.3.2.4.	13.	MR. BAUGHMAN: Yeah. Thank you.
4.	MS. DAVIS: So this is part of our	14.	MS. DAVIS: In summary, basically
5.	supplemental material.	15.	what happens is, somebody will be qualified for an
6.	MR. BAUGHMAN: That all of us have?	16.	area, so they go through training, and those are the
7.	MS. DAVIS: You don't have that. We	17.	on-the-job training forms that I left right there.
8.	didn't realize that we needed to include it in your	18.	And then every year or every time a procedure is
9.	original packet, but we brought it with us. So we	19.	updated, we use our learning management system and
20.	have some samples of training records, our	20.	the training is re-sent out. And then that's the
21.	on-the-job training records.	21.	electronic records beside you for every operator and
22.	MR. BAUGHMAN: Okay.	22.	every procedure that they've been trained on. So
23.	•	23.	
	MS. DAVIS: They're initialed each by		they're trained annually and when a procedure's
24. 25.	a team leader, and then they all say, I verify that I reviewed and I understand and I can do this job.	24. 25.	updated that they're qualified in that area. MR. BAUGHMAN: So these are samples?
	Page 20	1 .	Page 2
1.	It's signed by the operator, it's signed by a	1.	MS. DAVIS: Yes. We have
2.	trainer, a senior evaluator, and team leader and a	2.	MR. BAUGHMAN: Or they're not I'm
3.	backup.	3.	sorry.
4.	MR. BAUGHMAN: So would that, then,	4.	MS. DAVIS: a stack this thick.
5.	be that 6.3.3.2 or is	5.	MR. BAUGHMAN: Got you. So they're
6.	MS. DAVIS: That's a description of	6.	not the actual up-to-date records. They're just
7.	how we train and our training standards and our	7.	MS. DAVIS: So we have on-the-job
8.	training procedure. And this is, I guess, the	8.	training for initial training. So those are actual,
9.	physical training records.	9.	real-life samples of the first time that somebody
10.	MR. BAUGHMAN: Okay. So what does	10.	was trained in that area, and then we go to the
11.	MR. HAYS: The 6.3.3.2 mentions the	11.	annual training on the learning management system.
12.	learning management system and site support	12.	So they are up to date, but they're only trained on
13.	specialist. And through the learning management	13.	the on-the-job training form once.
14.	system and site support specialist, that's where we	14.	MR. BAUGHMAN: What I would suggest
15.	got that log. So it's our	15.	is that instead of having vetting and unloading and
16.	MR. BAUGHMAN: Oh, so it's not	16.	styrene and all the different training, is probably
17.	actually in here.	17.	making it specific to the boiler, for our own
. / •	MR. HAYS: Our records are maintained	18.	analyzation. Because I'm looking through a training
		19.	manual off hand or training records and
8.	electronically in a database, along with well,		MR. HAYS: If I could explain the way
18. 19.	electronically in a database, along with well, all the operator training and records.	20.	
8. 9. 20.	all the operator training and records.	- 1	that works, there's a package of training and
8. 19. 20. 21.	all the operator training and records. MR. BAUGHMAN: Super. Thank you. So	21.	that works, there's a package of training and procedures and equipment and you know, that goes
18. 19. 20. 21.	all the operator training and records. MR. BAUGHMAN: Super. Thank you. So what I was just getting at was that's what I	21. 22.	procedures and equipment and you know, that goes
18. 19. 20. 21. 22.	all the operator training and records. MR. BAUGHMAN: Super. Thank you. So what I was just getting at was that's what I couldn't find, was as I was looking for it	21. 22. 23.	procedures and equipment and you know, that goes with the equipment in the area that each operator
17. 18. 19. 20. 21. 22. 23. 24.	all the operator training and records. MR. BAUGHMAN: Super. Thank you. So what I was just getting at was that's what I	21. 22.	procedures and equipment and you know, that goes

	Page 20	: 1	Page 207
1.	really, I can't run, you know, monomer storage and	′ _{1.}	would initiate a management of change, train all
2.	not the boilers or boiler and not monomer storage.	2.	operators on this procedure and the tasks involved,
3.	So that's why you see all that together. It's it	3.	and that's how we would take care of training. And
4.	is one guy's responsibility.	4.	then it would be annual from there, unless that
5.	MR. BAUGHMAN: I'm just thinking, as	5.	procedure were to change.
6.	far as for our own review, if in presentation you	6.	MR. HAYS: Our change procedures, the
7.	can condense all of this pages and pages of training	7.	way it starts out is it has a description, reason
8.	down to specifically	8.	for changes, and then you kind of start with, here's
9.	MR. HAYS: Okay. Yeah.	9.	what we would like to do and why, and then we'd go
10.	MR. BAUGHMAN: down to boiler.	10.	through engineering and management approval. And
11.	MS. DAVIS: We can do that, but since	11.	then there are different tabs. It's a Lotus Notes
12.	these are the on original on-the-job training	12.	database type things. There's different tabs for
13.	records, they won't have initials. I mean, it would	13.	items to be updated, action items, pre-startup
14.	just be a list that we've put together.	14.	safety review with a walkdown with the HS folks, and
15.	MR. HAYS: Yeah.	15.	that sort of the thing, and then approval of the
16.	MS. DAVIS: Because these I mean,	16.	change and startup approval before it's an official
17.	it is part of a package, like Chris said. So it	17.	procedure. And training would be part of that where
18.	won't be initialed by anybody; it won't be signed;	18.	we would actually have a training roster that an
19.	it'll just be a Word document, basically, that says,	19.	operator would need to sign.
20.	here's who's trained.	20.	MR. BAUGHMAN: So under that 6.3.3.2,
21.	MR. BAUGHMAN: And we're looking for	21.	which they found for me, it does say, training is
22.	current personnel, as it is. So whether they were a	22.	administered by the Chattanooga site support
23.	previous hire of 2006 or 2012, what we're looking	23.	specialist and the production supervisor. Do we
24.	for is the training, because this is a new	24.	have who that is, or is that just identifying the
25.	variance	25.	position?
	Page 20	5	Page 208
1.	Page 20 MR. HAYS: Right.	5 1.	Page 208 MR. HAYS: The position? Yes, sir.
1. 2.	_	- 1	_
1	MR. HAYS: Right.	1.	MR. HAYS: The position? Yes, sir.
2.	MR. HAYS: Right. MR. BAUGHMAN: and there's going	1. 2.	MR. HAYS: The position? Yes, sir. MR. BAUGHMAN: Okay.
2. 3.	MR. HAYS: Right. MR. BAUGHMAN: and there's going to have to be new training to the variance	1. 2. 3.	MR. HAYS: The position? Yes, sir. MR. BAUGHMAN: Okay. MS. DAVIS: We try not to be too
2. 3. 4.	MR. HAYS: Right. MR. BAUGHMAN: and there's going to have to be new training to the variance MS. DAVIS: Right.	1. 2. 3. 4.	MR. HAYS: The position? Yes, sir. MR. BAUGHMAN: Okay. MS. DAVIS: We try not to be too specific in case we do have changes in personnel,
2. 3. 4. 5.	MR. HAYS: Right. MR. BAUGHMAN: and there's going to have to be new training to the variance MS. DAVIS: Right. MR. BAUGHMAN: itself. So there's	1. 2. 3. 4. 5.	MR. HAYS: The position? Yes, sir. MR. BAUGHMAN: Okay. MS. DAVIS: We try not to be too specific in case we do have changes in personnel, because then we have to remember exactly whose name
2. 3. 4. 5. 6.	MR. HAYS: Right. MR. BAUGHMAN: and there's going to have to be new training to the variance MS. DAVIS: Right. MR. BAUGHMAN: itself. So there's going to be a whole new set of training to this	1. 2. 3. 4. 5. 6.	MR. HAYS: The position? Yes, sir. MR. BAUGHMAN: Okay. MS. DAVIS: We try not to be too specific in case we do have changes in personnel, because then we have to remember exactly whose name is referenced in every procedure. So we try to list
2. 3. 4. 5. 6. 7.	MR. HAYS: Right. MR. BAUGHMAN: and there's going to have to be new training to the variance MS. DAVIS: Right. MR. BAUGHMAN: itself. So there's going to be a whole new set of training to this manual, as it is.	1. 2. 3. 4. 5. 6. 7.	MR. HAYS: The position? Yes, sir. MR. BAUGHMAN: Okay. MS. DAVIS: We try not to be too specific in case we do have changes in personnel, because then we have to remember exactly whose name is referenced in every procedure. So we try to list general titles in case that role were to change
2. 3. 4. 5. 6. 7. 8.	MR. HAYS: Right. MR. BAUGHMAN: and there's going to have to be new training to the variance MS. DAVIS: Right. MR. BAUGHMAN: itself. So there's going to be a whole new set of training to this manual, as it is. MR. HAYS: Exactly. That was one thing that I was going to explain earlier. Our within the document numbers that you see the	1. 2. 3. 4. 5. 6. 7. 8.	MR. HAYS: The position? Yes, sir. MR. BAUGHMAN: Okay. MS. DAVIS: We try not to be too specific in case we do have changes in personnel, because then we have to remember exactly whose name is referenced in every procedure. So we try to list general titles in case that role were to change people. MR. HAYS: We kind of have we have a published organizational structure and we try to
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	Page 209	I	Page 211
1.	site, on that shift they're in charge of all the	1.	paragraphs (verbatim). I know you did identify
2.	processes. So they have the authority.	2.	them and you identified the paragraphs.
3.	So in this case, we said, in 6.4.1.5,	3.	Unfortunately, sometimes the document numbers,
4.	that the team leader or process technician has the	4.	because there were so many different document
5.	authority to place the boiler in a safe state by	5.	numbers, that kind of confuses us. I'm easily
6.	activating a master fuel trip until a condition	6.	confused.
7.	can be corrected. So	7.	MR. BOWERS: I went through
8.	MR. BAUGHMAN: Because just under	8.	there's a lot of data here to siffle through it, try
9.	6.4.1 is what's on the checklist. That refers to	9.	to go back and forth. You know, maybe if you all
10.	the warm startup, warm system startup procedure that	10.	would have kind of just made a synopsis on some of
11.	I'm showing under operations.	11.	this stuff, you know, break it down, not as part of
12.	MR. HAYS: For the yeah. This is	12.	your documentation but just given us a, kind of,
13.	6.4 and the remote monitoring of the boiler systems	13.	flip-through shorter version of it
14.	procedure is remote boiler monitor personnel duties	14.	MR. HAYS: Yeah. We realize that
15.	and responsibility.	15.	possibly if we'd have hired an outside firm or, you
16.	MR. BAUGHMAN: Got you. I'm looking	16.	know, a local boiler company or somebody that offers
17.	under the wrong 6.4.1.	17.	this as a service, that they would probably have a
18.	MS. DAVIS: We apologize for	18.	template for this sort of thing. You can paste in
19.	confusion and the format, but we tried to be	19.	it from our procedures. So we apologize for any
20.	consistent with all of our other procedures. So we	20.	confusion that we caused with our standard format.
21.	understand that it might be a little difficult to	21.	MR. BAILEY: Sounds like a case of
22.	navigate. But we tried to be	22.	TMI.
23.	MR. HAYS: Yeah. For a reactor	23.	MS. DAVIS: We also just wanted to
24.	operator, he knows every one of his procedures or	24.	state that we take safety very seriously. This is
25.	she knows every one of those procedures. 8.01 is an	25.	not to, you know, downplay safety in any means. Our
	Page 210	 	Dog 212
	Page 210		Page 212
1.	emergency shutdown procedure, for instance. So they	1.	Amnicola site has actually gone over 2,000 days
1. 2.	_	1. 2.	- I
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ot plan. What this looks like originally, boilers were out in the open, had no they not under a roof when the plant was originally ructed. A Canadian company built the plant,		16.	monitoring procedure. That way, it always shows up
boilers were out in the open, had no they not under a roof when the plant was originally ructed. A Canadian company built the plant,		17.	with somebody from BASF when we renew the variance,
not under a roof when the plant was originally ructed. A Canadian company built the plant,		18.	I guess. That would be a good idea.
ructed. A Canadian company built the plant,		19.	MR. BAUGHMAN: It's not a requirement
		20.	to have the DA, but being that we've had a rather
iey nad they seemed to have had a for more		21.	
		1	significant DA catastrophic incident
than they should have had that they wouldn't		22. 23.	MR. HAYS: Right.
freezing problems here in the South.			MR. BAUGHMAN: it may be up for
So much of that plan is		24.	review in the future, but it's an integral part and
ructed equipments' outdoors, out in the		25.	it's a pressure vessel that's integral to the boiler
	Page 214		Page 21
In possibly the 1980s, somewhere along in		1.	system.
a roof was placed over both of them with		2.	MR. HAYS: Right.
acks penetrating through. So that's what		3.	MR. BAUGHMAN: So it's always good to
ave. In original construction, there was a		4.	have that as review. And part of your it's
room, if you want to call it that. They		5.	already being monitored, as it is, in some form or
l it the boiler shack, you know, that had a		6.	fashion, correct?
ol panel in it. And that had been has		7.	MR. HAYS: Yeah. Yes. Yes.
expanded as part of this under-roof section.		8.	MR. BAUGHMAN: So even though it's
n actual room that has a plant DCS console		9.	not mandated that it be in the variance, it's good
re.		10.	to have that equipment information described along
So there are two workstations in		l	with the boilers.
		l	MR. HAYS: Okay. Yeah.
		l	MR. BAUGHMAN: Is that a fair
		l	statement, Sam?
_		l	MR. HAYS: Possibly some
-		1	MR. CHAPMAN: Yes.
			MR. HAYS: You guys asked about a
		l	feed water system earlier, possibly some pump
		l	information, pressures or horsepower, that type of
		1	thing?
		l	MR. BAUGHMAN: The NB Number, the
		1	Tennessee Number, the capacity, the safety relief
MIN. I ISCHINE. THAT WAS OUT HIST		l	valves
MD HAVS: a little aggior on a		1	MR. HAYS: Okay. MP. BALIGHMAN: construction PSI
MR. HAYS: a little easier on a		23.	MR. BAUGHMAN: construction, PSI,
	So there are two workstations in that the boiler operators can use. We have a case of a failure of one of the stations, are would be able to operate and see all the ols, manipulate them. MR. BAUGHMAN: If you'd be so kind, a site drawing, as just to point me in the ion of where the boilers are located? Never I see them right here where it says, ars." MR. HAYS: That comes across MR. PISCHKE: That was our first MR. HAYS: a little easier on a drawing.	that the boiler operators can use. We have a case of a failure of one of the stations, ney would be able to operate and see all the ols, manipulate them. MR. BAUGHMAN: If you'd be so kind, e site drawing, as just to point me in the ion of where the boilers are located? Never I see them right here where it says, ers." MR. HAYS: That comes across MR. PISCHKE: That was our first MR. HAYS: a little easier on a	that the boiler operators can use. We have 12. 13. 14. 15. 16. 17. 18. 18. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19

	Pao	e 217	Page 219
1.	set points of the relief valves, and so forth.	1	
2.	MR. HAYS: We can we should easily	2	
3.	be able to put our hands on that information.	3	
4.	MR. CHAPMAN: Yes.	4	•
5.	MR. HAYS: That should be no problem	5	_
6.	at all.	6	
7.	MR. PISCHKE: Do we have a	7	
8.	comprehensive list of things that we would like them	8	-
9.	to add to this?	9	
10.	MS. DAVIS: I have a few things	10	
11.	written down that you want a spec sheet for the	11	
12.	boilers, also some info on the deaerator, a training	12	•
13.	roster that's a little more concise, and then just	13	
14.	to kind of revise our procedure so it's more	14	· · · · · · · · · · · · · · · · · · ·
15.	navigable for you?	15	
16.	MR. PISCHKE: The navigable is not a	16	
17.	requirement. But one thing that is a requirement is	17	· · · · · · · · · · · · · · · · · · ·
18.	an organizational chart showing who reports into	18	
19.	whom. So what was another requirement that we	19	
20.	identified?	20	
21.	MR. BAUGHMAN: Well, for one, we've	21	
22.	got to have she mentioned the spec sheet.	22	,
23.	MR. PISCHKE: Yeah. Is there	23	
24.	anything	24	•
25.	MR. BAUGHMAN: Yeah.	25	
	Pag	e 218	Page 220
1.	MR. PISCHKE: any more that we're	1	. There again, is there a placard showing emergency
2.	missing?	2	. procedures prominently displayed at the remote
3.	MR. HAYS: In the case of the	3	. monitoring station, and it's marked. Not
4.	organizational chart	4	applicable, but it's under the 4.2.2, you're saying
5.	MR. PISCHKE: It needs to be.	5	. that it's kept
6.	MR. HAYS: How far does that need to	6	. MR. HAYS: We yeah, with the.
7.	go? For example, there are eight people to a crew.	7	. MS. DAVIS: It's in the control room.
8.	If it's after 6:00 o' clock, that's night shift, and	8	. MR. BAUGHMAN: Yeah. It's in the
9.	the authority on site is the team leader. It's the	9	. MR. HAYS: From the remote monitoring
10.	team leader and everybody underneath. And that's,	10	. station, the operator can put their hands on any
11.	rather than a chart, is why we just did it with an	11	. site procedure in the binders on the spot, plus any
12.	underlined statement that said that the team leader	12	. BASF personnel, they have access to business network
13.	or process technician had the authority to shut down	13	. connected computers, and they have access to all the
14.	the boiler. Would you want the organizational chart	14	. procedures electronically, also.
15.	for the site management to be included?	15	So when we do procedure updates,
16.	MR. PISCHKE: Well	16	. there's a checklist and a well, there's a
17.	MR. HAYS: We wouldn't include them	17	. procedure for procedures for us. And we have to
18.	in the decision making for shutting down a boiler	18	. list that we put these in certain binders in
19.	MR. PISCHKE: No.	19	certain locations and then also in the folder, and
20.	MR. HAYS: for certain.	20	. there's a database for that.
21.	MR. PISCHKE: Go ahead.	21	. MS. DAVIS: Part of that checklist
22.	MR. BAUGHMAN: I would do a	22	. is, has it been sent out for training? You cannot
23.	simplistic flow chart just showing those personnel	23	. issue a procedure without sending it out for
24.	and who they report to.	24	. training.
	MR. HAYS: Three blocks. Remote	25	. MR. PISCHKE: Okay. That's very
25.	THE THIES. THE STOCKS. Itemote		, , , , , , , , , , , , , , , , , , ,

		Page 221		Page 223
1.	good. I mean, that's good practice. Absolutely.	1 450 221	1.	network, its own fiber network for PC to PC or
2.	MR. BAUGHMAN: One thing that I'm		2.	server to server. Through there again, it's
3.	just one other technical thing that comes up,		3.	redundant fibers, dual network switches, all that.
4.	because in the State of Tennessee, all these		4.	That system that actually controls handles the
5.	electronics, apertures, and so forth are to be UL		5.	portion of the system that handles the burn
6.	labeled, and in the manual, it asks for a complete		6.	management functions and controls and that sort of
7.	description of the computer remote monitoring		7.	thing, we our burn management designer we were
8.	system. I've got down that it's a monomer storage		8.	speaking with Chief about this earlier.
9.	utilities DCS work station, will function as the		9.	We had some committee members
10.	computerized remote monitoring system.		10.	actually that were on the NFPA 85 committee for
11.	MR. HAYS: Yes. So you would like		11.	single-burn boilers that worked for Foxboro, which
12.	more detail as to a brand, that		12.	is our control system vendor. We had them design
13.	MR. BAUGHMAN: Well, it's a		13.	that portion, segregate the system into different
14.	requirement. We've got to have a detail on the		14.	control processors for each boiler. All that
15.	computer monitoring system as it is, more than just		15.	stuff is segregated in a way that's
16.	a generic. We're required also that this be a UL		16.	MR. BAUGHMAN: Can anything be
17.	labeled system, and I don't have anything to be able		17.	monitored off-site?
18.	to go through and analyze in that respect.		18.	MR. HAYS: No, sir.
19.	MR. HAYS: Okay.		19.	MR. BAUGHMAN: Okay.
20.	MS. DAVIS: So Section 6.2 in our		20.	MR. HAYS: Not at this time. I will
21.	procedure is all about the computerized remote		21.	say, with our some planned upgrades, a DCS
22.	monitoring system.		22.	migration that we have coming up, the only way we
23.	MR. BAUGHMAN: Okay.		23.	would monitor anything would be through a PIMS
24.	MS. DAVIS: I don't know if you've		24.	information management system where there would a
25.	seen that yet.		25.	standard BASF firewall set up that actually prevents
	•			1 71
1				
		Page 222		Page 224
1.	MR. HAYS: There's not a statement in	Page 222	1.	Page 224 connection from the Internet, from the outside world
1. 2.	MR. HAYS: There's not a statement in there about UL listing. But yeah, the 6.2 that	Page 222	1. 2.	connection from the Internet, from the outside world
1	there about UL listing. But yeah, the 6.2 that	Page 222		connection from the Internet, from the outside world directly to our control system. So there's a
2.	there about UL listing. But yeah, the 6.2 that Brittany mentioned is where we just say that it's	Page 222	2.	connection from the Internet, from the outside world directly to our control system. So there's a dual there will be a dual firewall there. And
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	Page 225		Page 227
zone in the middle, another firewall that it has to	1 uge 223	1.	shutdown in every single procedure on site. So in
•		2.	the event of an emergency, they would open the
		3.	procedure and know exactly what section to flip to.
world.		4.	It's just a general format that we use.
There is a server that sits in the		5.	MR. PISCHKE: Any other guidance
middle, and information only goes one way, not in		6.	MR. HAYS: We can certainly make a
		7.	sign if it doesn't meet the requirement.
		8.	MR. PISCHKE: that we're missing?
out to the clients. And BASF firewall team has to		9.	MR. BAUGHMAN: Not that I can think
		10.	of.
			MR. PISCHKE: Sam? So what are we
			how do we want to handle these
			MR. BAUGHMAN: Well, I don't know.
-		l	I've got my own personal thoughts on it.
		l	MR. PISCHKE: Okay.
-		1	MR. BAUGHMAN: But whether that's how
			we handle it or not is another thing.
		1	MR. PISCHKE: Well, let me hear those
•		1	personal
_		1	MR. BAUGHMAN: Well, my end of it is,
		l	is it still goes back to if we approved a variance,
6 6		l	we're approving a variance without any boiler info
· · · · · · · · · · · · · · · · · · ·		1	to approve it on other than two B&W boilers with a
		1	particular capacity. We've got no identification to
		1	them. So that would be up to the rest of the Board
MR. LISCHKE. Okay. 1 sec.		25.	them. So that would be up to the fest of the Board
	Page 226		Page 228
MR. HAYS: yellow paper		1.	to discuss whether or not that that's proper to
necessarily.		2.	follow suit. But we've got no identifying criteria
MS. DAVIS: Right.		3.	other than that. And so I'd like to get the input
MR. BAUGHMAN: That's what we were		4.	from the rest to discuss that.
speaking of earlier with the placard, because you		5.	MR. BOWERS: Well, I kind of agree
were saying, this is going to be, actually, in a		6.	with you, Dave. There's not, to me, enough data
binder. Not necessary on the wall but in a binder		7.	here. There's a lot of data here, but not enough
•		8.	correct data for us to move forward. That's my
		9.	opinion.
		10.	MR. PISCHKE: What's the urgency of
		l	this? You're obviously running you know
		1	MR. HAYS: Yeah. Is this
• •		1	something could we well, I guess you're saying
		1	you don't you can't say one way or another
		l	without some pressure vessel specs.
		1	MR. PISCHKE: We'd like some more
1			information to make a decision.
		1	MR. HAYS: We were concentrating when
		1	we were putting this together
		1	MR. PISCHKE: On the procedure?
		1	MR. HAYS: When we called the
		l	yeah. We were concentrating on the procedure, and
		1	then we called the Chief about this and discussed it
But obviously		24.	over the phone and understood that we at the time
•		25.	we called, to get everything submitted in a 45-day
		۷٤.	we cancu, to get everything submitted III a 45-day
MS. DAVIS: Section 8.0 is emergency			
	go through to get to the business network, and then business network firewalls to get to the outside world. There is a server that sits in the middle, and information only goes one way, not in to manipulate the control system, but out through predefined tags to a server on the DMZ to be dealt out to the clients. And BASF firewall team has to configure those and we have to order it through our experts. So they won't let people like us do that sort of thing. That's how that goes. MR. PISCHKE: Another requirement that Sam brought up is the highlighted emergency procedure sheet that looks something like that. That needs to be included in this. MR. HAYS: We had a discussion yes, sir. We had a discussion with Chief about that at one point in time, because we I think we printed them in color. We took the highlighted section to mean that the text was highlighted. MR. PISCHKE: Oh, okay. Okay. Yeah. MR. HAYS: We didn't understand that we needed to have MR. PISCHKE: Okay. I see. MR. HAYS: yellow paper necessarily. MS. DAVIS: Right. MR. BAUGHMAN: That's what we were speaking of earlier with the placard, because you were saying, this is going to be, actually, in a binder. Not necessary on the wall but in a binder to be accessed, correct? MR. HAYS: Right. So, you know, if we for instance, if we were using the security guard and they have their security monitoring equipment and cameras and this, that, and the other, I certainly see where that's very useful for that sort of thing, where they're not necessarily boiler operators or part of the crew that's operating the plant. In this case, we were hoping that we could keep the procedures presented to the operators in the same way that they would find reactor procedures, reactor emergency procedures, site emergency response plan, or anything else. That's the way they go to them. If the Board approves, then that's what we would like to do.	go through to get to the business network, and then business network firewalls to get to the outside world. There is a server that sits in the middle, and information only goes one way, not in to manipulate the control system, but out through predefined tags to a server on the DMZ to be dealt out to the clients. And BASF firewall team has to configure those and we have to order it through our experts. So they won't let people like us do that sort of thing. That's how that goes. MR. PISCHKE: Another requirement that Sam brought up is the highlighted emergency procedure sheet that looks something like that. That needs to be included in this. MR. HAYS: We had a discussion yes, sir. We had a discussion with Chief about that at one point in time, because we I think we printed them in color. We took the highlighted section to mean that the text was highlighted. MR. PISCHKE: Oh, okay. Okay. Yeah. MR. 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If the Board approves, then that's what we would like to do.

1	Page 229			Page 231
1.	time frame, that we would need to move along pretty	1.	sound accurate?	1 450 231
2.	quickly at the time.	2.	MR. BAUGHMAN: The best I can tell.	
3.	We didn't understand, you know, that	3.	I mean, that sounds like an accurate description.	
4.	maybe that you wouldn't have that information.	4.	MR. BOWERS: To wait three months is	
5.	You know. We know during a phone call with the	5.	not going to really inconvenience you that much, is	
6.	Chief, he understood that we didn't have a	6.	it?	
7.	variance pretty quick, but I didn't know, you	7.	MR. HAYS: Well, it	
8.	know, that we were going to have that we would	8.	MS. DAVIS: The operators are already	
9.	need this.	9.	doing regular round checks. It's, you know, how	
10.	MR. BOWERS: It's hard to get your	10.	they we express that when they have to check on	
11.	tags on your car without your VIN number. You know.	11.	it every 20 minutes, that we may have to stop an	
12.	MR. HAYS: Right.	12.	operation, go check the boiler, and then go back.	
13.	MR. BOWERS: That's what you're doing	13.	We do have plenty of manpower to operate the plant	
14.	to us. You said, well, we've got these two boilers,	14.	safely, but just freeing up more of that time, it	
15.	but what's the National Board Number? Well	15.	would really be valuable to our operators.	
16.	MS. DAVIS: Is this something that I	16.	And they're like I said, they're	
17.	might can make a five-minute phone call and	17.	already doing regular round checks, usually on	
18.	provide you with the information?	18.	hour intervals. It's just every 20 minutes	
19.	MR. BOWERS: No. You probably need	19.	it's every time they turn around, they're having	
20.	to go back to the drawing board.	20.	to stop what they're doing if they're in the	
21.	MS. DAVIS: It's very easily	21.	middle of working on something, stop, put that	
22.	accessible. We just didn't know that we needed to	22.	down, go check the boiler, write down that	
23.	include it.	23.	they're, you know, and then go back to it. It's	
24.	MR. BAUGHMAN: Well, having the	24.	just it's an inconvenience, really. You know.	
25.	information on the boiler itself, setting up some of	25.	It would just provide us more flexibility with	
-	D 220	├		D 222
1	Page 230	1		Page 232 I
1.	Page 230 these other things that we've asked to clean up	1.	operating the rest of the plant.	Page 232
1.	these other things that we've asked to clean up	1.	operating the rest of the plant. MR. HAYS: We want the right guy	Page 232
2.	these other things that we've asked to clean up isn't horrible. But how are you operating	2.	MR. HAYS: We want the right guy	Page 232
1	these other things that we've asked to clean up isn't horrible. But how are you operating presently? You've already got people that are	1	MR. HAYS: We want the right guy operating the boiler and we you know.	Page 232
2. 3.	these other things that we've asked to clean up isn't horrible. But how are you operating presently? You've already got people that are operating within the context of checking the	2. 3.	MR. HAYS: We want the right guy operating the boiler and we you know. MS. DAVIS: Right.	Page 232
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		Page 233		Page 235
1.	MR. BAILEY: Well, you've certainly	1 ugo 233	1.	MR. BAUGHMAN: moving forward.
2.	got I mean, you've got the option to if you		2.	MR. HAYS: Well, and what you
3.	don't feel like you have enough information to make		3.	know, we didn't understand it in the way that
4.	a decision to approve the variance, you could move		4.	it's almost like that we're asking permission to
5.	to hold it in abeyance until your next meeting and		5.	operate the boilers in the first place. We kind of
6.	then they come back with the info that you need.		6.	thought that that portion of it was way past, you
7.	You know. They talked about, you know, providing		7.	know, and we were just asking for the 20-minute rule
8.	the information with a phone call, but at the same		8.	variance. You know. So we didn't include that. We
9.	time, it's you know, it's not in the manual that		9.	concentrated on the procedures.
10.	you're approving, basically.		10.	It is a shame, considering that we
11.	I mean, I don't guess that would be		11.	just have all that information on site. It could
12.	absolutely improper, but I guess I don't know how		12.	have been easily that specific numbers
13.	proper it would be. You know. So I mean, that's		13.	pressures, relief valve information, relief valve
14.	kind of your call on that, or you could vote to		14.	studies, we have all of it. We have all of it. I
15.	disapprove and make you know, they just have to		15.	have a if I had
16.	come back.		16.	MR. PISCHKE: Is there anything
17.	But I think if you're holding up just		17.	that
18.	on, there's just not enough pertinent information		18.	MR. HAYS: If I had a Wi-Fi password
19.	that we need to see, then, you know, probably		19.	for this room, I could probably get to it with my
20.	holding it into moving to hold it into abeyance		20.	MR. PISCHKE: And is there anything
21.	until the December meeting is probably a better		21.	that we can do better in the future, I guess,
22.	thing to do.		22.	that's of communicating our needs and
23.	MR. PISCHKE: Would that allow them		23.	MR. BAUGHMAN: Something to discuss.
24.	to continue as they are right now		24.	MR. BAILEY: Was all that covered on
25.	MR. BAILEY: Yes.		25.	the checklist?
25.	MIK. DAILL I. 165.		25.	the elecalist:
		Page 234		Page 236
1.	MR. PISCHKE: until December?	<i>J</i> . <i>z</i> .	1.	MR. CHAPMAN: Yes.
2.	MR. BAILEY: Yes. They would have to		2.	MR. BAILEY: Yeah. Pretty much, Sam?
3.	continue as they are right now until December.		3.	MR. CHAPMAN: Yes.
4.	MR. BAUGHMAN: Yeah. And the		4.	MS. DAVIS: It's a general statement
5.	information there again, the boiler information,		5.	that says, does the manual clearly describe the
6.	the inspection certificates, as you saw or listened		6.	boiler system that is being remotely monitored? So
7.	to earlier in the meeting, when Ergon made their		7.	we, you know, it doesn't say, please provide PSV
8.	presentation on the thermal fluid system, the		8.	calculations and this and that and you know. We
9.	certificates didn't match up to the equipment from a		9.	just figured we provided a general overview of this
10.	PSI standpoint. And so by having all this data, it		10.	boiler that we were operating and that satisfied the
11.	allows us to make an evaluation to look at things		11.	questions.
12.	just to go over everything as it is.		12.	MR. HAYS: Yeah. We're
13.	Whether you look or hire somebody		13.	MR. BAILEY: So you think saying that
14.	else to look at it and put it in some format or		14.	they were two, what, B&W boilers made in 1971 was
15.	whether you come back and make the presentation,		15.	enough to satisfy that question?
16.	we talked about even the system, because whether		16.	MR. HAYS: We have had in our
17.	Foxboro or somebody else put this together, there		17.	procedures in the past we put a little more
18.	again, looking at the UL listing and whether or		18.	detail about you know, one plant having
19.	not that that falls within UL or NFPA or whatever		19.	water-tube boilers and one having fire-tube boilers.
20.	that may be. But making sure that our system		20.	That type of thing in there, but we didn't include
21.	actually has the ratings that it's supposed to.		21.	any more information than we felt like our operators
22.	And all this information that you're		22.	would need. You know. That's what the problem was.
23.	going to present back to us allows us, then, to		23.	MR. PISCHKE: They do provide some
24.	have that discussion and		24.	detailed information on, you know, the boilers and
25.	MR. HAYS: Right.		25.	what they're like and
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	Page 237			Page 239
1.	MR. HAYS: Water circulation and that	1.	MR. HAYS: of the relief valve.	- 1.81>
2.	sort of thing.	2.	MR. BAUGHMAN: Okay. Yeah. The	
3.	MR. BOWERS: That's pretty generic,	3.	terminology was just	
4.	though, I think.	4.	MR. HAYS: Yeah. That's	
5.	MR. PISCHKE: It is. It's not the	5.	MR. BAUGHMAN: a little bit but	
6.	operating data that we would	6.	yeah, just	
7.	MR. HAYS: As far as what our	7.	MR. HAYS: That's where we would get	
8.	operators the information on the system	8.	that from. Now, in that case, we may want to put	
9.	obviously, the National Board Numbers or anything	9.	this in a separate I don't know. We can put it	
10.	like that would not normally be a concern to the	10.	in a separate document. You might want to see	
11.	operators, but for our normal operating procedures,	11.	better evidence of it than taking our word from a	
12.	pressures and things like that are mentioned in that	12.	Word document	
13.	same procedure that you just had. Our normal	13.	MR. BOWERS: Oh, we'll take	
14.	operation potential normal operating range and	14.	MR. HAYS: too. You know.	
15.	potential deviations give some steam pressure, water	15.	MR. BOWERS: Yeah. We'll take your	
16.	level information, chemicals associated with water	16.	word for it.	
17.	treatment, 02 airflow, and that type of information	17.	MR. BAUGHMAN: Yeah.	
18.	that the operator would use.	18.	MR. PISCHKE: Yeah.	
19.	MR. BOWERS: The information I would	19.	MR. BOWERS: Just a fact sheet.	
20.	like to see is, one, the National Board number,	20.	Yeah. We wouldn't know if we were talking about a	
21.	number two, the Tennessee Number, manufacturer, the	21.	little boiler, a 50-horsepower boiler, or a	
22.	model of the boiler, date built, maximum the	22.	800-pound boiler. You know.	
23.	output of the boiler, the MAWP of the boiler, the	23.	MR. PISCHKE: Yeah. One the size of	
24.	fuel, what type of fuel the boiler uses, operating	24.	this room.	
25.	pressure, and safety valve capacities and safety	25.	MR. BOWERS: A 800-PSI boiler. We'd	
	Page 238			Page 240
1.	Page 238 valve settings. Is there anything else?	1.	just like to know what we're looking at. You know?	Page 240
1. 2.	-	1. 2.	just like to know what we're looking at. You know? MR. PISCHKE: Yeah.	Page 240
1	valve settings. Is there anything else?	1	-	Page 240
2.	valve settings. Is there anything else? MR. HAYS: So we need yeah. We	2.	MR. PISCHKE: Yeah.	Page 240
2. 3.	valve settings. Is there anything else? MR. HAYS: So we need yeah. We need yeah. You're wanting to see relief valve	2. 3.	MR. PISCHKE: Yeah. MR. HAYS: Yeah. And that's all	Page 240
2. 3. 4.	valve settings. Is there anything else? MR. HAYS: So we need yeah. We need yeah. You're wanting to see relief valve studies and	2. 3. 4.	MR. PISCHKE: Yeah. MR. HAYS: Yeah. And that's all we have was a you know, the	Page 240
2. 3. 4. 5.	valve settings. Is there anything else? MR. HAYS: So we need yeah. We need yeah. You're wanting to see relief valve studies and MR. BOWERS: Yes.	2. 3. 4. 5.	MR. PISCHKE: Yeah. MR. HAYS: Yeah. And that's all we have was a you know, the MR. BOWERS: Yeah.	Page 240
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1.	MR. BAUGHMAN: Can you also get that	uge 211	1.	MR. BAUGHMAN: Just like any of the
2.	information on the computerized remote monitoring		2.	other manuals, when they'd send in a document, the
3.	station, as far as the UL listing and so forth?		3.	information that we've got, just to look at what we
4.	MR. HAYS: Well, it's a Foxboro I/A		4.	had previously, would list the boiler, the equipment
5.	system, so data sheets are available on the		5.	description. Same thing with the
6.	Internet. You know. That type of thing.		6.	MR. CHAPMAN: A-1.
7.	MR. BAUGHMAN: If you could produce		7.	MR. BAUGHMAN: Thank you. Same thing
8.	that instead of me going on the Internet, that would		8.	with the equipment description. Any of it is going
9.	be		9.	to be just separate within the binder itself. So it
10.	MR. HAYS: Yeah. That's a		10.	would all be
11.	MR. BAUGHMAN: perfect.		11.	MR. PISCHKE: And it can just be an
12.	MR. HAYS: That's a that's		12.	appendix.
13.	something that we can get.		13.	MS. DAVIS: One thing that would be
14.	MR. BAUGHMAN: Thank you.		14.	very helpful is an example for us. I mean, all we
15.	MR. HAYS: For sure. It would be		15.	had was this checklist, and some of the questions
16.	data sheets for all the for a lot of components,		16.	are pretty vague, so like, for example, we thought
10. 17.	but		17.	we answered some questions and we really didn't. So
18.	MR. BAUGHMAN: Well, the system		18.	if there's an example we could use to go by or, you
10. 19.	itself not so much the components, but the system		19.	know, just to kind of get a feel of how much
20.	itself should be a UL packaged unit, instead of		20.	information or how little information you want,
21.	identifying every component that's in that system.		21.	because I think we overshot a lot and we undershot a
22.	So when they produce the system, that system itself		22.	lot. But without an example, we have no idea what
23.	should be UL listed. And they'll know exactly what		23.	you're looking for.
24.	to produce as far as documentation in that respect.		24.	MR. BAUGHMAN: And there may be a
25.	So like, with your Fireye components,		25.	company willing to do that, or Sam, you might have
23.	50 fike, with your rifeye components,		25.	company winning to do that, or Sain, you might have
	I	Page 242		Page 24-
1.	if you had a Fireye monitoring, which		1.	some examples of
2.	MR. HAYS: We		2.	MR. CHAPMAN: I don't everything
3.	MR. BAUGHMAN: They would have that		3.	that I have is in a manual, onto that. But as far
4.	in itself. But the computer monitoring system		4.	as there's companies out there that does them.
5.	itself, because it's integral to the monitoring and		5.	They'll help or however they do them. But I can't
6.	the operation of the boiler, needs to have a		6.	say a company
7.	labeling to it. So Foxboro, if they're the ones		7.	MR. BAUGHMAN: Sure.
8.	that developed it, they would be able to have that		8.	MR. CHAPMAN: Yeah.
9.	and produce it.		9.	MR. BAUGHMAN: Is there anything out
10.	MR. HAYS: Right.		10.	of a manual without stating anybody's particular
11.	MR. PISCHKE: Have we given them		11.	name and company and so forth. Because a lot of
12.	enough information?		12.	this, as we know, is cut and paste that they
13.	MR. BAUGHMAN: I'd say I think		13.	might be able to review?
14.	Brittany's written down a pretty good checklist.		14.	MR. CHAPMAN: I haven't seen anything
15.	MS. DAVIS: Yeah.		15.	as an example on it.
16.	MR. BAUGHMAN: And Chris is		16.	MR. BAUGHMAN: Okay.
17.	MR. PISCHKE: Do you feel like you		17.	MR. CHAPMAN: You know. The only
18.	understand what we're looking for now?		18.	thing everybody has been doing is just off the
19.	MR. HAYS: Yes. We feel like we do,		19.	checklist, and they go from that. And some of the
20.	or I do. Do you want it as a do you just want it		20.	times, they'll ask questions and we can answer the
21.	as a separate document? Do you want that		21.	questions that they're asking. And that kind of
22.	information as a separate document, just to put		22.	makes sense on that, somewhat.
23.	together? Since it's not useful information to our		23.	MR. HAYS: That does make sense.
24.	operators. You just want documents and references		24.	We and I think most of the folks that are
25.	in a list.		25.	applying for these successfully probably do hire
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	Page 245			Page 247
1.	somebody. I think we feel like we may have come to	1.	done 100 different ways.	
2.	court without a lawyer.	2.	MR. BOWERS: And your	
3.	MR. BOWERS: Well, what you've	3.	MR. HAYS: So	
4.	done	4.	MR. BOWERS: And your boiler	
5.	MR. BAILEY: If you've never been	5.	inspector might be able to help you.	
6.	here before, that's true.	6.	MR. HAYS: Yeah. Well, yeah. I	
7.	MR. BOWERS: Yeah. On your own,	7.	think he thought we did speak to him about it.	
8.	you've done a good job. I think you just don't have	8.	Of course, he can't give us specific advice. I	
9.	a lot of information, but you've put together a lot	9.	think he thought we would have an easier time than	
10.	of information for your first time here. Yeah.	10.	we did. So considering that he sees how we	
11.	MR. HAYS: Yeah. That's the shame of	11.	operate. But there again	
12.	it all. I mean, it was so much harder to get some	12.	MR. BOWERS: Yeah. It's not that	
13.	of this information that we to put together what	13.	you're not	
14.	we did get, and we could just you know, a call to	14.	MR. HAYS: We didn't you know, we	
15.	the maintenance managers at each plant gets us all	15.	didn't a get a, if you don't show up with this,	
6.	this other stuff packaged together. I mean, it	16.	they're throwing you know, they're throwing your	
17.	was	17.	case away, and that type of information. But	
18.	MR. BAUGHMAN: Who do you work who	18.	MR. BOWERS: Yeah.	
19.	services you down there in Chattanooga?	19.	MR. BAUGHMAN: Well, I feel like	
20.	MR. HAYS: Who maintains the boilers?	20.	you're on top of the game. I think it's	
21.	MR. BAUGHMAN: Yeah.	21.	everything's going to head the right direction. I	
22.	MR. HAYS: So mechanically, it	22.	just we've had the motion to discuss and we've	
23.	would IB&M services the boilers mechanically.	23.	pretty well discussed. I just feel like we're at a	
24.	MR. BAUGHMAN: Randy should be able	24.	point where we need to get it revised so that we can	
25.	to be of help.	25.	come in and have some further discussion and then	
	Page 246	+		Page 248
1.	MR. CHAPMAN: Yeah.	1.	put it to bed.	
2.	MR. HAYS: Well, those guys don't	2.	MR. PISCHKE: Do we need a motion or	
3.	keep the well, they may keep the information, but	3.	can we	
		1	can we	
4.	I know we have it. We have it in our maintenance	4.	MR. BAILEY: I think	
5.	I know we have it. We have it in our maintenance records. We have to have that.	4. 5.	MR. BAILEY: I think MR. PISCHKE: move to table it?	
5. 6.	I know we have it. We have it in our maintenance records. We have to have that. MR. BAUGHMAN: Yeah. I'm just saying	4.	MR. BAILEY: I think MR. PISCHKE: move to table it? MR. BAILEY: I think if you want to	
5.6.7.	I know we have it. We have it in our maintenance records. We have to have that. MR. BAUGHMAN: Yeah. I'm just saying as far as being able to give a template to	4. 5.	MR. BAILEY: I think MR. PISCHKE: move to table it? MR. BAILEY: I think if you want to kick it down the road, you need a motion either to	
5.6.7.8.	I know we have it. We have it in our maintenance records. We have to have that. MR. BAUGHMAN: Yeah. I'm just saying as far as being able to give a template to MR. HAYS: Oh, and give a template.	4. 5. 6. 7. 8.	MR. BAILEY: I think MR. PISCHKE: move to table it? MR. BAILEY: I think if you want to kick it down the road, you need a motion either to table it or hold it in abeyance until the December	
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5. 6. 7. 8. 9. 0. 11. 22. 33. 44. 55. 66. 77. 88. 99. 20. 21. 222.	I know we have it. We have it in our maintenance records. We have to have that. MR. BAUGHMAN: Yeah. I'm just saying as far as being able to give a template to MR. HAYS: Oh, and give a template. MR. BAUGHMAN: Yeah. IB&M, Combustion & Controls, WARE, all MR. HAYS: Yeah. MR. BAUGHMAN: of those companies that are down there MR. HAYS: Yeah. MR. BAUGHMAN: would be could be a help to you. MR. HAYS: I know one of the folks that we work with I had spoken to Steve Slatten (phonetic) MR. BAUGHMAN: At IB&M. MR. HAYS: at IB&M about how you know, how these different companies are doing	4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22.	MR. BAILEY: I think MR. PISCHKE: move to table it? MR. BAILEY: I think if you want to kick it down the road, you need a motion either to table it or hold it in abeyance until the December meeting. And if you're saying that you've got the same issue on the very next item coming up, you could probably do both of them in one motion. MR. BOWERS: Yeah. MS. DAVIS: Well, is it possible, during our next break I mean, we can provide the model, the date built, the maximum output, the MAN the fuel, the operating pressure, and some of the safety valve we can provide that in a five- to ten-minute phone call for the next, you know, variance. And if that's going to be enough that we can keep moving, then we would like to, you know, look at the second one. But if you know, if it's if a written piece of paper on my end and we	WP,
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	Page 249		Page 251	П
1.	Foxboro information that I'd asked for within a	1.	MR. HAYS: Is that good enough?	۱
2.	phone call?	2.	Yeah. Is that good enough?	
3.	MR. HAYS: We can not you know,	3.	MR. BAUGHMAN: Sure. And then	
4.	not as a system, but yeah, all the parts and	4.	well, just looking at one of the previous	
5.	components of a you know, of a Foxboro system.	5.	variances we were looking at was the control system	
6.	There are optional ways that you can that they	6.	description, and it gives the description of the	
7.	construct these things. So as far as control	7.	flame monitoring system, the system itself that is	
8.	processors, I/O modules, and that sort of the	8.	integrated back in to the computer system. So it	
9.	thing	9.	gives us this technical information	
10.	MR. BAUGHMAN: The question was about	10.	MR. HAYS: Yeah.	
11.	getting the UL labeling	11.	MR. BAUGHMAN: on what we're	
12.	MR. HAYS: Yeah.	12.	looking at. And so to further that, I would put	
13.	MR. BAUGHMAN: making sure that	13.	this additional data that's needed into a revised	
14.	it's a UL listed system, not all the individual	14.	manual, and there again, asking for direction.	
15.	components.	15.	Because you're not reinventing the wheel by any	
16.	MR. HAYS: Right.	16.	stretch. You've come into this without really	
17.	MR. BAUGHMAN: So I hope I didn't	17.	knowing what all we were looking for.	
18.	miscommunicate, but just that the system is a UL	18.	So if you can go back in and possibly	
19.	listed system.	19.	pick up a sample or get advice from Steve or	
20.	MR. HAYS: Yeah. And that would	20.	anybody that's been involved with these things,	
21.	be there's not, like a there's not a Foxboro,	21.	you should be able to get some guidance on that.	
22.	you know, boiler control box, so to speak. There's	22.	MR. HAYS: I have a so from the	
23.	not this animal that's a boiler control box. It was	23.	folks that provided the burn management system for	
24.	constructed NFPA 85 mentions, you know, the way	24.	this plant, for sure, I do have a I have an NFPA	
25.	that we should have our control system arrangement	25.	review from them where we had them come on site and	
	Page 250		Page 252	$\frac{1}{2}$
1.	Page 250 if we use DCS. Or gives options for safety	1.	Page 252 say, hey, where are we deficient? What instruments	2
1. 2.	if we use DCS. Or gives options for safety	1. 2.	say, hey, where are we deficient? What instruments	2
l .	if we use DCS. Or gives options for safety instruments and systems and using you know if you	l	say, hey, where are we deficient? What instruments do we need to add, or what, you know, wiring changes	2
2.	if we use DCS. Or gives options for safety	2.	say, hey, where are we deficient? What instruments	2
2. 3.	if we use DCS. Or gives options for safety instruments and systems and using you know if you do a PHA and that type of thing. So we just went to	2. 3.	say, hey, where are we deficient? What instruments do we need to add, or what, you know, wiring changes do we need to make, and this that and the other, to	2
2. 3. 4.	if we use DCS. Or gives options for safety instruments and systems and using you know if you do a PHA and that type of thing. So we just went to the folks on the committee and thought that we were	2. 3. 4.	say, hey, where are we deficient? What instruments do we need to add, or what, you know, wiring changes do we need to make, and this that and the other, to our system and how we need to meet the requirements	2
2. 3. 4. 5.	if we use DCS. Or gives options for safety instruments and systems and using you know if you do a PHA and that type of thing. So we just went to the folks on the committee and thought that we were going to the right place.	2. 3. 4. 5.	say, hey, where are we deficient? What instruments do we need to add, or what, you know, wiring changes do we need to make, and this that and the other, to our system and how we need to meet the requirements of the code. And they gave us a description or	2
2. 3. 4. 5. 6.	if we use DCS. Or gives options for safety instruments and systems and using you know if you do a PHA and that type of thing. So we just went to the folks on the committee and thought that we were going to the right place. MR. BAUGHMAN: For me, that's the	2. 3. 4. 5. 6.	say, hey, where are we deficient? What instruments do we need to add, or what, you know, wiring changes do we need to make, and this that and the other, to our system and how we need to meet the requirements of the code. And they gave us a description or we're going to get we're going to sell you,	2
2. 3. 4. 5. 6. 7.	if we use DCS. Or gives options for safety instruments and systems and using you know if you do a PHA and that type of thing. So we just went to the folks on the committee and thought that we were going to the right place. MR. BAUGHMAN: For me, that's the additional description that I'm looking for, because	2. 3. 4. 5. 6. 7.	say, hey, where are we deficient? What instruments do we need to add, or what, you know, wiring changes do we need to make, and this that and the other, to our system and how we need to meet the requirements of the code. And they gave us a description or we're going to get we're going to sell you, basically, a compliance system.	2
2. 3. 4. 5. 6. 7. 8.	if we use DCS. Or gives options for safety instruments and systems and using you know if you do a PHA and that type of thing. So we just went to the folks on the committee and thought that we were going to the right place. MR. BAUGHMAN: For me, that's the additional description that I'm looking for, because right now, I've just got a computer remote	2. 3. 4. 5. 6. 7. 8.	say, hey, where are we deficient? What instruments do we need to add, or what, you know, wiring changes do we need to make, and this that and the other, to our system and how we need to meet the requirements of the code. And they gave us a description or we're going to get we're going to sell you, basically, a compliance system. So I have those yeah, I have that	22
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		Page 253		Page 2
1.	MR. PISCHKE: For the variance.	1 480 200	1.	It started on Monday the 18th and will conclude on
2.	MR. HAYS: Yeah.		2.	Friday the 22nd.
3.	MS. DAVIS: The remote operator, the		3.	We've got an agenda that's packed
1.	boiler operator, and the team leader.		4.	with National Board as well as some State
5.	MR. HAYS: Yeah. Yeah. Yeah, we		5.	presentations being conducted. And we anticipate,
6.	just in that case, we just made a statement. We		6.	in 2018, that we will have a fall safety
7.	didn't make a chart. We made a statement that these		7.	conference that will include the special
8.	two positions have the authority.		8.	inspectors as well as the deputy inspectors. And
9.	Because we were kind of thinking in a		9.	that's something, of course, that will be up for
0.	case where it's a little different you know, in		10.	discussion once again at our future board meeting.
1.	a case of a security personnel or something like		11.	Thank you.
2.	that, when they knock a boiler offline and are		12.	MR. PISCHKE: Thank you. Okay. I
3.	going to shut a plant down and that sort of thing,		13.	think we covered some of this, but Sam, the update
4.	that they're not part of the operation or		14.	on the National Board Commission Exam.
5.	MR. BOWERS: Yeah.		15.	MR. CHAPMAN: Yes, we did. Like we
6.	MR. HAYS: you know, in these		16.	said that three the three candidates that took
7.	cases, these guys, they would if they shut it		17.	their exam on September the 6th, all three of them
8.	down, they would be the ones to start it back up.		18.	passed. We have one that's at the National Board in
9.	So they understand the hazards, the effects on the		19.	Columbus, Ohio, and he will take the National Board
0.	rest of the plant, and the processes.		20.	Exam next Friday, and we'll know if we've got four
21.	MR. PISCHKE: I think from a		21.	new inspectors.
22.	practical standpoint here, you're doing the right		22.	MR. PISCHKE: Very good.
23.	things operationally. It's just describing it is		23.	MR. CHAPMAN: So that's where we're
24.	the key.		24.	at right now on the Commission Exam.
5.	MR. BOWERS: Do you want to move this		25.	MR. PISCHKE: Very good.
		Page 254		Page 2
1.	to the December meeting?		1.	MR. CHAPMAN: Okay.
2.	MR. BAUGHMAN: It's up to you to make		2.	MR. PISCHKE: Thank you.
3.	a motion.		3.	MR. CHAPMAN: Uh-huh.
4.	MR. BOWERS: Okay. I make a motion		4.	MR. PISCHKE: The next item is is
5.	we move this both locations to the December		5.	there someone here from Rinnai that would if you
6.	meeting and bring back the data that we requested.		6.	gentlemen would like to come forward and be heard.
7.	MR. FOX: I'll second that motion.		7.	Please identify yourself.
8.	MR. PISCHKE: I'll call any more		8.	MR. SILER: Jason Siler.
9.	discussion? Questions? I'll call for the question,		9.	MR. DORROUGH: Kelsey Dorrough.
0.	and all those in favor, say, "aye."		10.	MR. SCAFE: And Rohan Scafe.
1.	MR. FOX: Aye.		11.	MR. PISCHKE: Thank you. Okay. Go
2.	MR. BOWERS: Aye.		12.	ahead.
3.	MR. BAUGHMAN: Aye.		13.	MR. SCAFE: All right. I first want
4.	MR. PISCHKE: Opposed? Not voting?		14.	to thank everyone for giving us the opportunity to
5.	Okay. Sorry. I apologize.		15.	speak with you today.
6.	MR. HAYS: All right.		16.	THE REPORTER: Could you state your
7.	MR. PISCHKE: Okay. This moves us to		17.	name again, please?
8.	part nine of the agenda of open discussion items.		18.	MR. SCAFE: My name is Rohan Scafe.
9.	And the first one is the status of the 2017		19.	THE REPORTER: Thank you.
0.	Tennessee Boiler Safety Conference. Deborah?		20.	MR. SCAFE: I am the assistant design
1.	MS. RHONE: Thank you. Deborah		21.	engineering manager for Rinnai. And to my left is
2.	Rhone. Just wanted to let everyone know, as far as		22.	Jason Siler, director of engineering solutions. And
	the boiler safety conference, what we've done this		23.	Kelsey Dorrough; he's our engineering lab manager
23.	- · · · · · · · · · · · · · · · · · · ·		24.	engineering lab and product certification manager.
23. 24.	year is we're actually holding a conference for our			
	year is we're actually holding a conference for our State inspectors. We're conducting it this week.		25.	And the just to give you a brief

		Page 257			Page 259
1.	background about Rinnai, we are a water	1 480 20 7	l _{1.}	Now, the concern is, you know, I	1 480 200
2.	heating/space heating products manufacturer. The		2.	size, I design, I quote a lot of commercial	
3.	core of our business is a tankless water heater,		3.	systems around the country, mostly major	
4.	and that is what I want to speak to today. And I		4.	renovation or new construction. And what we're	
5.	do want to speak objectively for the tankless		5.	seeing is a timing of the mechanical space. And	
6.	industry, in general, and not in particular to		6.	what we're also seeing is the mechanical equipment	
7.	Rinnai.		7.	spec, because based on the space constraints or	
8.	And the reason we are here is to		8.	the space that they want to maintain to the	
9.	share a code concern as it relates to the		9.	building. And so they're calling out products	
10.	inspection clearance for tankless water heaters.		10.	around the footprint, if you will, to fit in a	
11.	I do want to point out that the tankless water		11.	very tight mechanical space.	
12.	heater is not a boiler; it is not certified as a		12.	In commercial, you know, we see	
13.	boiler. But I believe the State of Tennessee is		13.	major, major technical technological	
14.	using a code clearance that is intended for a		14.	advancements in mechanical equipment, water	
15.	boiler to tankless.		15.	heaters, included. They're getting smaller and	
16.	And the clearance that's in question		16.	smaller. If you think about it, a boiler of today	
17.	is the 18-inch separation that is required,		17.	is not the same size as one 20, 50, or even five	
18.	according to the code, between the water heaters,		18.	years ago. They're much smaller, much more	
19.	or on the off the side of the water heaters for		19.	efficient. And that's what's driving the	
20.	the purpose of inspection, and that's provided.		20.	mechanical space change in commercial	
21.	The water heater a tankless water heater is		21.	establishments today.	
22.	above 100,000 BTU or higher 100,000 BTU		22.	And what customers or owners or	
23.	yes or higher.		23.	businesses are looking for is to maximize that	
24.	I would like to speak to the concern		24.	space so they can grow their business. It creates	
25.	and the installation challenges that we're seeing		25.	a reduction in construction of material and cost,	
		Page 258			Page 260
1.	in the field and offer a proposal for	1 uge 250	1.	as well. And it's got significant environmental	1 uge 200
2.	consideration to make a change to the existing		2.	that benefits, as well.	
3.	code. If you turn to the third page, I've got a		ı	·	
4.			L 3.	So the disadvantage to the industry.	
1	few graphics there. The one on the left shows		3. 4.	So the disadvantage to the industry, in general and I won't say any names. And if	
l 5.	few graphics there. The one on the left shows the unit on the extreme left shows a mockup		4.	in general and I won't say any names. And if	
5. 6.	the unit on the extreme left shows a mockup		4. 5.	in general and I won't say any names. And if you noticed, there's no name on the presentation	
6.	the unit on the extreme left shows a mockup installation drawing, if you will, or image, if		4. 5. 6.	in general and I won't say any names. And if you noticed, there's no name on the presentation that I printed out here today is it requires	
6. 7.	the unit on the extreme left shows a mockup installation drawing, if you will, or image, if you will, showing the required 18-inch separation.		4. 5. 6. 7.	in general and I won't say any names. And if you noticed, there's no name on the presentation that I printed out here today is it requires much, much larger mechanical spaces. I've	
6. 7. 8.	the unit on the extreme left shows a mockup installation drawing, if you will, or image, if you will, showing the required 18-inch separation. And this is specific to Tennessee only. This is a		4. 5. 6. 7. 8.	in general and I won't say any names. And if you noticed, there's no name on the presentation that I printed out here today is it requires much, much larger mechanical spaces. I've mentioned earlier up to 60 percent, in most cases,	
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ey points, temperature, et cetera. And also, ast experience in certification of water heating roducts and boiler products, as well.		14.		
ast experience in certification of water heating roducts and boiler products, as well.			18-inch.	
roducts and boiler products, as well.		15.	MR. BAILEY: Yeah. The	
_		16.	MR. SCAFE: Two boilers.	
Convith that I will let I age and		17.	MR. BAILEY: Yeah. That yeah. I	
*		18.	don't think the language came out, it was just	
Celsey speak to the testing and the data, if you		19.	MR. SCAFE: Okay.	
vill.		20.	MR. BAILEY: rearranged.	
MR. BAILEY: I have a question. When		21.	MR. SCAFE: Okay.	
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eferencing, like 0800-03-0304(13)(a), we don't		25.	it's just not where you're say it's at	
	Page 262			Page 264
ven have that. That's not even in the rules	8	1.	MR. SCAFE: I understand.	8
nymore. It's been rearranged. That same language		2.	MR. BAILEY: in this publication.	
s somewhere else.		3.	MR. SILER: Okay. I'm going to walk	
MR. SCAFE: Well, that's the other		4.	through, as Rohan mentioned, some of the safety	
oncern that we were having. I have read		5.	standards and testing, as they pertain to the water	
xtensively through the Boiler Code, the 0800-03-03	,	6.	heating category that we sell products under. And	
nd there's nothing in that code about tankless or		7.	all the tankless that we sell, they're all above	
nstantaneous water heaters. This that code is		8.	75,000 BTUs so that they have to be certified to the	
pecific to boilers. This is really the only		9.	ANSI Z21.10.3 safety standard. This is an industry	
ocument that I could find through the State of		10.	consensus safety standard, you know, with specific	
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Page 265 Page 267 And we refer to it as -- and the test -- and it heater, so we literally -- our lab guys will 2. refers to it as the wall, floor, and ceiling test, 2. actually take a permanent marker and grid off the per the ANSI Z21.1.3 standard. So I'll let Kelsey 3. water heater into two-by-two grids. And if you talk a little bit more about the actual test and see the -- in figure seven on the right-hand side, 4. 5. the setup. 5. this is actually the measuring and -- measuring 6. MR. DORROUGH: So the test requires probe that's placed into each grid, and you take 6. 7. that we run a maximum vent length as we test and do 7. the measurements. And then you see table 13, this 8. that through our design and development. We require 8. tells you what the maximum surface temperature 9. a maximum vent length through testing. That maximum 9. that's allowed. 10. 10. vent length is installed on the water heater, and we If we go to the next page, this one 11. are required to set that to the maximum set point to 11. actually shows the result data that was captured 12. obtain the maximum out-of-the-water temperature and 12. from the probe, you know, the left side, the top 13. therefore, heat the water heater up to its maximum 13. of the unit, the right side. So these are each in 14. the two-by-two grids. So the maximum allowed, 14. condition in a closet, closed up. 15. And what we do -- we will -- as you 15. based on the room temperature that we're testing, see it in there, we'll box this up to zero 16. is 146 degrees. The maximum surface temperature 16. clearance. We're actually touching the water 17. that was actually recorded was only 112 degrees, 17. heater all the way around. There are thermal 18. so we're well below the maximum allowable 18. 19. 19. couples -- the dots on the walls indicate thermal temperature. 20. 20. MR. SCAFE: Per the standard? couples there. They're placed six inches apart 21. vertically and horizontally. And then the floor 21. MR. SILER: Per the standard. Yes. 22. 22. beneath that, they're spaced three inches apart. Thank you, Rohan. 23. We monitor those for a period of --23. MR. DORROUGH: These are just a few 24. 24. well, we reach equilibrium, and once we reach of the temperature-related tests that we're required 25. equilibrium, then we'll record those temperatures. 25. to do. Not -- while we're set up in the closet, Page 266 Page 268 The requirements for the walls that -- the walls, there are other temperature-related tests that we the ceiling, and the floor in contact or adjacent 2. 2. do, such as components -- ignition components, burn 3. to is 117 degrees plus room; that's the allowable. 3. components, burn -- flame spreader temperatures. So And the floor under the water heater is 90 degrees 4. 4. it's not limited to just the cabinet and the walls 5. above room. 5. and surrounding -- the area that surrounds it, but it's also internally. 6. And so on the other -- the next page 6. 7. over, we've given you an example of actual test 7. We also will measure the internal 8. data on one of our products showing our maximum 8. components, as well, to ensure the safety of that, 9. temperatures under these conditions on the left, 9. even the electrical wiring. We get down to that 10. back, and right walls. 10. to make sure that, under the conditions of a fire 11. MR. SILER: So -- and all this was 11. hazard condition, that the installation on the 12. based on one of our largest tankless models of 12. wiring does not soften to the point to where it 13. 199,000 BTUs. And each segment, if you start off on 13. arcs against something in the -- a metal -- or 14. wire to wire, or something to that nature. 14. your left, this is actually showing the left wall 15. temperature, the back wall temperature, and the 15. MR. SILER: On the final slide here, right wall temperature. And each one of those that 16. we wanted to just discuss further and understand 16. 17. we actually had callouts shows what the maximum 17. what the proper protocol and process to formalize a 18. temperature that was read during the wall, floor, 18. request for the -- a rule amendment. Our request is 19. ceiling test of, you know, 79 degrees on the max 19. to, you know, eliminate the arbitrary 18-inch 20. 20. requirement -- required clearance that's currently left wall, 106 degrees on the back and 89 degrees on 21. 21. the right wall. in the code. 22. 22. Go to the next page. This was Our request is to replace this 23. 23. another test that we wanted to talk further about. clearance with the manufacturers' minimum required 24. 24. It is the burn hazard test. So we -- this test, clearances, which is determined based on the ANSI

25.

testing, plus any required clearances for

25.

we actually have to apply a grid to the water

1. serviceability, if that is necessary. And we 2. provided an example on the right-hand side from 3. one of our operation and installation manuals that 4. shows all the clearances to combustibles, 5. non-combustibles, you know, top, front, back, 6. side, ground, and the vent. 7. MR. SCAFE: So in closing, we're 8. hoping that you will consider a change to the 9. current code to accommodate what Mr. Siler has just 10. mentioned. And with that, I'll open to questions. 11. MR. PISCHKE: All right. Yeah. I 12. have a couple questions myself. 13. MR. BOWERS: Open discussion? 14. MR. PISCHKE: Yeah. 15. MR. BAUGHMAN: It's open discussion. 16. MR. PISCHKE: Well, we aren't voting 17. on this. Do we need a motion? 18. MR. BAUGHMAN: Un-uh. 19. MR. BAUGHMAN: No. This is open 20. MR. PISCHKE: Right now, this is open 21. discussion. 22. MR. PISCHKE: Right now, this is open 23. discussion. 24. I guess I'd like to understand the 25. history of the 18-inch.	Page 271
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24. I guess I'd like to understand the 24. know, they may consider a smaller clearance.	
25. Busicarry, what we're - the	
Page 270	Page 272
1. MR. SMITH: If I can interject, 1. information we're trying to achieve is the serial	-
2. Jesse Smith, State boiler inspector. The clearances 2. number, the manufacturer, which is usually on one	
3. they're talking about isn't a consideration of 3. of the side panels, and then, obviously, you've	
4. safety or combustibility. It stems from the 4. got to access the safety valve. The front of it	
5. National Board Inspection Code Requirement that we 5. is where all of your access to any of the internal	
6. have three feet of inspection clearance around every 6. components are. So	
7. item we inspect. And you can see where that would 7. MR. SCAFE: And if we're able to	
8. get a little cumbersome. 8. relocate that rating plate, will we have to fit	
9. So the State of Tennessee, sometime 9. still fall in that	
10. back I believe it was probably '98, or '98 10. MR. SMITH: That was just kind of my	
11. there was a Boiler Board determination that we 11. recommendation for	
12. could get by with 18 inches on water heaters and 12. MR. CHAPMAN: Don't answer that.	
13. some boilers. Of course, you've got bigger 13. Don't answer that.	
14. boilers that require overhead and clearances. But 14. MR. SMITH: I was just kind of trying	
15. for what you're dealing with here, it's 18	
16. inches was determined. And I guess it is kind of 16. MR. SILER: No. That's	
17. arbitrary, but it's still based on the ability to 17. MR. SCAFE: As you said, I thought	
18. get in and inspect adequately around it. 18. in our discussion in the past, I believe the focus	
19. Now, as the technology's changed and 19. was more focused on safety, being able to inspect	
20. equipment's become more efficient and less 20. around the unit.	
21. combustible want to be put in a more compact 21. MR. CHAPMAN: Around it, but you	
22. area, then the 18 inches may seem excessive. And 22. also	
23. the only reason you're falling into that category 23. MR. SCAFE: And not the rating plate.	
24. is because Tennessee's also unique in the fact 24. MR. CHAPMAN: need to be able to	
25. that it inspects non-ASME code water heaters, 25. get sorry about that. But you also need to be	
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	Pag	e 273			Page 275
1.	able to get to the information on it. You know.	0 273	1.	there's nothing inside, either. I've taken the	1 uge 273
2.	You might have, as Rinnai, might have it on the		2.	front off. There's nothing inside.	
3.	front. You've got A.O. Smith, you've got Norton,		3.	MR. SILER: So the information that	
4.	you've got Bock. Where are they putting theirs? So		4.	you need is rating plate info.	
5.	will they will we be able to get to their		5.	MR. HOLT: Yeah. The serial	
6.	information?		6.	number	
7.	MR. SCAFE: Right. I understand		7.	MR. SILER: That's what you guys are	
8.	that.		8.	looking for.	
9.	MR. CHAPMAN: Yeah.		9.	MR. HOLT: the BTUs, all this	
10.	MR. BOWERS: I think on the Rinnai,		10.	and it's all on the side.	
11.	it's on the side, isn't it?		11.	MR. SILER: Right.	
12.	MR. SCAFE: It is on the side.		12.	MR. HOLT: It needs to be able to be	
13.	MR. CHAPMAN: It is on the side.		13.	accessed as well as being able to get around it and	
14.	MR. SCAFE: But we can relocate it		14.	check all the so the and the clearances of 18	
15.	the rating plate anywhere.		15.	inches is any vessel, water heater, boiler,	
16.	MR. CHAPMAN: Yeah. But see,		16.	anything, 100,000, 200- and 400,000. It can be a	
17.	that's you guys can. But what about the rest of		10. 17.	water heater that's a six feet by three feet; they	
18.	the companies? Because, like, we have to think as a		18.	have to have 18 inches also. And so, you know, it's	
19.	whole		16. 19.	just not tankless.	
20.	MR. SCAFE: Right.		20.	MR. BAUGHMAN: So I've got a question	ı
21.	MR. CHAPMAN: not just one		20.	that you guys can probably answer.	•
22.	company. We have to do it as a whole. Am I right		22.	MR. CHAPMAN: Okay.	
23.	on that, Mr. Bailey?		23.	MR. BAUGHMAN: When these units are	
24.	MR. BAILEY: Yes.		23. 24.	manifolded, is, then, the output considered a total	
2 4 . 25.	MR. PISCHKE: Sure. I mean, yeah.		2 4 . 25.	of all manifolded units?	
23.	WK. HSCHKE. Suic. Thean, year.		23.	of an mannoided units:	
	Pag	e 274			Page 276
1.	MR. CHAPMAN: Yeah.		1.	MR. CHAPMAN: No.	
2.	MR. PISCHKE: We had another		2.	MR. BAUGHMAN: Okay.	
3.	question.		3.	MR. CHAPMAN: Because they a lot	
4.	MR. HOLT: Yeah. I was going to say		4.	of them have a marginal grain on them that only	
5.	that.		5.	operates and if it needs more, it'll kick in the	
6.	MR. PISCHKE: Stand up and		6.	second one. But as far as adding them together, no.	
7.	MR. HOLT: Oh, Tim Holt, State		7.	MR. BAUGHMAN: Okay.	
8.	inspector. 200,000 and greater, which you make		8.	MR. SILER: Yeah. Each	
9.	some, I believe. They don't		9.	MR. CHAPMAN: So you've got 199 and	
10.	MR. SCAFE: Not on the tankless.	1	10.	199, it's not 398.	
11.	MR. SILER: Not on the water heaters.	1	11.	MR. BAUGHMAN: Okay. Each	
12.	MR. HOLT: That must be yeah.	1	12.	MR. SILER: Yeah. Because each unit	
13.	MR. SCAFE: There's some other	1	13.	has its own safety, each pressure relief valve,	
14.	guys yeah.	1	14.	each safety features	
15.	MR. DORROUGH: Not anymore. We used		15.	MR. BAUGHMAN: Got you.	
16.	to		16.	MR. SILER: are all built in with	
17.	MR. HOLT: They have a National Board	1	17.	each one. So	
18.	Number, and all that information is on the front	1	18.	MR. PISCHKE: That's no different	
19.	behind the cover on the plaque right on the tubes.		19.	than any other	
20.	You know. And that's part of the main thing is		20.	MR. CHAPMAN: Yeah.	
21.	being able to if you I've gone in where you've		21.	MR. PISCHKE: water heater.	
22.	had they've had Rinnais right next to each other.		22.	MR. SILER: Right. If I put four	
23.	I can't get the information. I can't see it. I		23.	199, 100s together, what is there's no	
24.	can't anything. And it has to have that to be		24.	difference.	
25.	able to register. Like, it's you know. And		25.	MR. BAUGHMAN: So the same criteria	
	5 ,				
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	Page 277			Page 279
1.	holds true for propane versus natural gas?	l _{1.}	specifically for these.	Tage 217
2.	MR. CHAPMAN: Yes.	2.	MR. BAUGHMAN: Okay.	
3.	MR. SCAFE: Correct. Yes, sir.	3.	MR. SILER: I don't think so.	
4.	MR. SILER: Correct.	4.	MR. SCAFE: I don't think not that	
5.	MR. BAUGHMAN: Okay. Any differences	5.	I'm aware of.	
6.	or any testing been done at elevation?	6.	MR. BAUGHMAN: Okay. Well, it's like	
7.	MR. DORROUGH: We test up to	7.	with the boilers, you know, boilers have gotten	
8.	MR. SCAFE: We have	8.	smaller, but what hasn't gotten smaller is the	
9.	MR. DORROUGH: Yeah. We test up to	9.	clearance requirements. And even though they're	
10.	10,000 feet. We actually take our product out to	10.	more efficient and so forth, we still have the same	
11.	Colorado and we'll test up to we test at three	11.	requirements. So everything has naturally	
12.	different levels at 5,500, 7,700, and 10,000, too.	12.	progressed down, you're just in a competitive market	
13.	MR. BAUGHMAN: When you get there,	13.	where you're wanting to compress even farther.	
14.	how's your input? Having to change or are you just	14.	From the service standpoint, we've	
15.	adding modules instead, because our input's going to	15.	got to deal with it, going out and working on the	
16.	change.	16.	boilers, and so many people are compacting	
17.	MR. DORROUGH: It derates and we test	17.	everything in there, but they're not necessarily	
18.	at that derated value. There is a natural derate	18.	the ones that are going out and working on it.	
19.	that manufacturers can opt to take. It's I	19.	And the guy that goes out and works on it is	
20.	believe it's 4,000 per 1,000 feet, I believe, of	20.	cussing the guy that designed it, and so forth,	
21.	elevation. I don't know right off the top of my	21.	just having to try to service it.	
22.	head.	22.	So I understand the whole footprint	
23.	MR. SCAFE: It's around three and a	23.	and, you know, that footprint is money and you	
24.	half percent	24.	want to put in as many BTUs in this small amount	
25.	MR. DORROUGH: Yeah.	25.	of space as possible. But there again, you've got	
	Page 278			Page 280
1.	-	1.	to take a conscientious approach to it of	Page 280
1. 2.	Page 278 MR. SCAFE: per 1,000 feet above 5,000. Well, that's what	1. 2.	to take a conscientious approach to it of understanding that there's both service,	Page 280
1	MR. SCAFE: per 1,000 feet above	1		Page 280
2.	MR. SCAFE: per 1,000 feet above 5,000. Well, that's what	2.	understanding that there's both service,	Page 280
2. 3.	MR. SCAFE: per 1,000 feet above 5,000. Well, that's what MR. DORROUGH: We choose not to do	2. 3.	understanding that there's both service, maintenance, and inspection that has to be	Page 280
2. 3. 4.	MR. SCAFE: per 1,000 feet above 5,000. Well, that's what MR. DORROUGH: We choose not to do that, because we want to go up we will test our	2. 3. 4.	understanding that there's both service, maintenance, and inspection that has to be accomplished.	Page 280
2. 3. 4. 5.	MR. SCAFE: per 1,000 feet above 5,000. Well, that's what MR. DORROUGH: We choose not to do that, because we want to go up we will test our products so that we can optimize our systems at	2. 3. 4. 5.	understanding that there's both service, maintenance, and inspection that has to be accomplished. MR. SCAFE: And to that point, there	Page 280
2. 3. 4. 5. 6.	MR. SCAFE: per 1,000 feet above 5,000. Well, that's what MR. DORROUGH: We choose not to do that, because we want to go up we will test our products so that we can optimize our systems at elevation.	2. 3. 4. 5. 6.	understanding that there's both service, maintenance, and inspection that has to be accomplished. MR. SCAFE: And to that point, there is an industry-required clearance for service, which	Page 280
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2. 3. 4. 5. 6. 7. 8.	MR. SCAFE: per 1,000 feet above 5,000. Well, that's what MR. DORROUGH: We choose not to do that, because we want to go up we will test our products so that we can optimize our systems at elevation. MR. BAUGHMAN: Sure. MR. SILER: So we actually have switches inside the product that says you know, when you look at the instructions, it says, if	2. 3. 4. 5. 6. 7. 8.	understanding that there's both service, maintenance, and inspection that has to be accomplished. MR. SCAFE: And to that point, there is an industry-required clearance for service, which is 24 inches. MR. BAUGHMAN: Twenty-four inches. On the front. MR. SCAFE: We require that.	Page 280
2. 3. 4. 5. 6. 7. 8. 9.	MR. SCAFE: per 1,000 feet above 5,000. Well, that's what MR. DORROUGH: We choose not to do that, because we want to go up we will test our products so that we can optimize our systems at elevation. MR. BAUGHMAN: Sure. MR. SILER: So we actually have switches inside the product that says you know, when you look at the instructions, it says, if you're at 5,500 feet, if you flip this DIP switch,	2. 3. 4. 5. 6. 7. 8. 9.	understanding that there's both service, maintenance, and inspection that has to be accomplished. MR. SCAFE: And to that point, there is an industry-required clearance for service, which is 24 inches. MR. BAUGHMAN: Twenty-four inches. On the front.	Page 280
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1. we'v 2. ther 3. unit 4. over 5. mov 6. pipe 7. issu 8. You 9. get 10. the 11.	listance for serviceability? I mean, because	1	
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 ther unit over mov pipe issu You get the que 	Page 282	23.	can't to your point, Dan, about revising the
 ther unit over mov pipe issu You get the que 	ϵ		Page 2
3. unit 4. over 5. mov 6. pipe 7. issu 8. You 9. get 10. the 11.	've heard stories that we have tankless units and	1.	rules, that we could not revise them in such a way
 over move pipe issu You get the que 	re's a riser pipe that goes beside one of the	2.	that we're specific about certain types. You know.
5. mov 6. pipe 7. issu 8. You 9. get 10. the 11.	ts that say, well, you've got to have 18 inches	3.	Instead of having one requirement for all different
6. pipe 7. issu 8. You 9. get 10. the 11.	er to that riser pipe, and they're they have to	4.	types, we become more specific. You know. To meet
7. issu 8. You 9. get 10. the 11. 12. que	ve the whole system down. I mean, what that riser	5.	the requirements of serviceability and inspection.
 You get the que 	e didn't I mean, not posing any serviceability	6.	I mean, that's the goal, right? That's the goal
 You get the que 	ues. You still can take the front cover off.	7.	is to ensure
9. get 10. the 11. 12. que	u still could take the whole unit off. If I can	8.	MR. CHAPMAN: Safety.
10. the 11. 12. que	to everything, I can still read everything on	9.	MR. PISCHKE: serviceability and
11. 12. que	side of it.	10.	inspection.
12. que	MR. PISCHKE: Any other comments,	11.	MR. CHAPMAN: Excuse me.
•	estions?	12.	MR. SILER: Is there
	MR. BAILEY: Well, I mean, as to your	13.	MR. PISCHKE: And yeah.
	nment, yeah, I mean, you could as the Board,	14.	MR. SILER: When I hear the reference
	Il can revise the rules, you know, however you	15.	of inspection, is there somewhere that we can see
-		1	•
	fit. Of course, you know that's a process.	16.	what is there, like, a checklist of what an
17.	MR. PISCHKE: Yeah.	17.	inspector goes out when he looks at one, what
18.	MR. BAILEY: And we just, you know	18.	does he look for and look at? Is that in the
	nt through it not too long ago. But I mean, if	19.	specifically in the code or how is that if an
	t's an area that, as a Board, you think there	20.	inspector goes out to a job to look at six tankless
	eds to be some, you know, flexibility some as there's no flexibility, some areas there's	21.	water heaters, what is he inspecting? Just trying
	as there's no tievinility some areas there's	22.	to understand that.
		23.	MR. CHAPMAN: Well, first, he starts
	ne flexibility. Yeah. You can do that through	24.	out with the clearance.
25.		25.	MR. SILER: Okay.

		Page 285	Ι	P.	age 28
1.	MR. CHAPMAN: I'll tell you that	1 uge 203	1.	the proper information out there. It may not have	uge 20
2.	much. Then he goes through and he checks on		2.	to be a set amount of clearance on there, but if an	
3.	different criteria, like safety valves. Okay?		3.	inspector can't get the information off there, he	
4.	Serial does it have a temperature gauge on it?		4.	should maybe not approve installation.	
5.	You know. As far as A, B, C, D, no, there's		5.	He I mean, he can't really approve	
6.	nothing.		6.	installation, because he's got to have that	
7.	MR. SILER: Okay.		7.	information to do his	
8.	MR. CHAPMAN: Because one person		8.	MR. SCAFE: Right.	
9.	might start at the top and work down. One might		9.	MR. BOWERS: Put that information in	
0.	start at the bottom and go up. It's they still		10.	there to even get there. And that may be something	
1.	have the end product as inspecting the whole unit,		11.	we could consider.	
2.	not just parts of it all, little checklists.		12.	MR. PISCHKE: I was wondering if	
3.	MR. SILER: So there's not a		13.	one does this group clearly want would like to	
4.	checklist.		14.	see a change, how would they initiate a formal	
5.			ı	·	
	MR. CHAPMAN: No.		15.	request?	
6.	MR. SILER: Okay.		16.	MR. BAILEY: Well, I mean, this can	
7.	MR. HOLT: There's a report that we		17.	be considered a formal request right now. What	
8.	have that		18.	they're doing today is that they're basically	
9.	MR. PISCHKE: It's a report.		19.	bringing to our attention that they feel like our	
20.	MR. CHAPMAN: It's a report.		20.	rules don't meet the technology for these tankless	
21.	MR. SILER: It's a report. Okay.		21.	water heaters. And that'd be a thing that the Board	
22.	MR. CHAPMAN: But it's not a		22.	would have to discuss have as a discussion item	
3.	checklist.		23.	for the Board to discuss whether or not should we	
24.	MR. SILER: Well, but there's so		24.	revise the rules, and if so, which rules, and if so,	
25.	there's a defined		25.	how you know, how should that be revised as to	
		Page 286		P	age 28
1.	MR. PISCHKE: Criteria.	Ü	1.	what should the language say?	Ü
2.	MR. SILER: yeah, criteria.		2.	I mean, when we just went through the	
3.	That's what I		3.	rules it, I mean, it was that was a, what, two,	
4.	MR. CHAPMAN: On the report.		4.	three-year process. Of course, we redid the whole	
5.	MR. SILER: On the report. Okay.		5.	thing.	
6.	That's what okay.		6.	MR. ROBINSON: Yes, sir.	
7.	MR. BOWERS: And on the initial		7.	MR. BAILEY: This would not take	
8.	inspection, which the State does, they have to get		8.	that. I mean, you'd have to identify what areas are	
9.	that data off that on that plate.		9.	pertinent to this type of situation, and then what	
0.	MR. SCAFE: Yeah.		10.	language would we have to have that are requirements	
1.	MR. SILER: Right.		11.	and what language could be loosened up to	
2.	MR. BOWERS: And if you've got those		12.	accommodate them? And then the Board would have to	0
3.	heaters next to each other, there's no way the State		13.	agree, this is the kind of language we want, and	
			14.	then have to we'd have to go through the	
4.	inspectors are going to be able to get that information out.		l		
5.			15.	rulemaking process.	
6	MR. SILER: Right.		16.	So it would take a while before you'd	
	MD CCAEE, A. J		17.	ever actually see a rule change. But I mean, I	
7.	MR. SCAFE: And we as a			think their request today can generate that	
7. 8.	manufacturer even as an industry. I can safely		18.	41	
7. 8. 9.	manufacturer even as an industry. I can safely speak for the industry, that we can make provisions		19.	discussion amongst the Board, if y'all want to	
7. 8. 9.	manufacturer even as an industry. I can safely speak for the industry, that we can make provisions to accommodate accessibility off that rating plate.		19. 20.	explore it.	
7. 8. 9. 20.	manufacturer even as an industry. I can safely speak for the industry, that we can make provisions to accommodate accessibility off that rating plate. We can.		19. 20. 21.	explore it. MR. PISCHKE: So should we put this	
7. 8. 9. 20. 21.	manufacturer even as an industry. I can safely speak for the industry, that we can make provisions to accommodate accessibility off that rating plate. We can. MR. BOWERS: And maybe that needs to		19. 20. 21. 22.	explore it. MR. PISCHKE: So should we put this on the December agenda?	
7. 8. 9. 0. 11. 22.	manufacturer even as an industry. I can safely speak for the industry, that we can make provisions to accommodate accessibility off that rating plate. We can. MR. BOWERS: And maybe that needs to be in the discussion there is that the on the		19. 20. 21. 22. 23.	explore it. MR. PISCHKE: So should we put this on the December agenda? MR. BAUGHMAN: Yeah. We could	
16. 17. 18. 19. 20. 21. 22. 23.	manufacturer even as an industry. I can safely speak for the industry, that we can make provisions to accommodate accessibility off that rating plate. We can. MR. BOWERS: And maybe that needs to be in the discussion there is that the on the instantaneous hot water heaters, look at the		19. 20. 21. 22. 23. 24.	explore it. MR. PISCHKE: So should we put this on the December agenda? MR. BAUGHMAN: Yeah. We could MR. BOWERS: Yeah.	
7. 8. 9. 0. 11. 22.	manufacturer even as an industry. I can safely speak for the industry, that we can make provisions to accommodate accessibility off that rating plate. We can. MR. BOWERS: And maybe that needs to be in the discussion there is that the on the		19. 20. 21. 22. 23.	explore it. MR. PISCHKE: So should we put this on the December agenda? MR. BAUGHMAN: Yeah. We could	

		Page 289			Page 291
1.	discussion. Sure. Danny.	1 age 207	1.	for non-combustibles and a half-inch excuse me.	1 age 271
2.	MR. PETERS: I have a question.		2.	A two-inch to combustibles and a half-inch to	
3.	Danny Peters. If we're the only state that's		3.	non-combustibles. And in most installations it's	
4.	inspecting instantaneous water heaters, how do the		4.	beyond that. Even with our rack system, it's beyond	
5.	other states inspect them?		5.	what those clearances are.	
6.	MR. SILER: How do they inspect		6.	MR. HOLT: May I say something. You	
7.	MR. HOLT: When they can't see the		7.	say that they the contractor collects the	
8.	information.		8.	information and sends it in on those other states?	
9.	MR. PETERS: Yeah. You made the		9.	MR. SCAFE: Yes. The contractor	
10.	question of the other this state's the only state		10.	MR. HOLT: But we need	
11.	in the union that inspects for clearance. How do		11.	MR. SCAFE: I'm sorry. Go ahead,	
12.	the other states inspect water heaters?		12.	man. Let me let you finish.	
13.	MR. SCAFE: Well, they're not to		13.	MR. HOLT: When we inspect, we are	
14.	my knowledge, when the product is installed, the		14.	the ones that have to physically look at that	
15.	contractor collects all the serial numbers for each		15.	information and put it down and sign our name to	
16.	model and that information is submitted to the code		16.	that report as being accurate and complete. We	
17.	bodies within the local jurisdiction. It's also		17.	can't rely on somebody else to do that. So it's	
18.	submitted to us, as well.		18.	that's just the way that is.	
19.	We also do rack systems. So, you		19.	And there's another thing, too. You	
20.	know, there's a dedicated skew for a rack system		20.	hang your Rinnais on a tank, also. That new	
21.	and all the associated serial numbers to that rack		21.	design. If you were to go with the spaces down to	
22.	system is also supplied with the rack for		22.	where he says there, then that means, if someone	
23.	inspection, if you will. If that's the		23.	puts four of those in to where the tankless is	
24.	information sort of information you need to		24.	hanging on a tank, that means that those tanks can	
25.	inspect the serial numbers.		25.	butt right together, then, right? That means we	
		Page 290			Page 292
1.	From a safety standpoint, they're	Page 290	1.	can't inspect the tanks, if that were true. The	Page 292
1. 2.		Page 290	1. 2.	can't inspect the tanks, if that were true. The clearances. So the tanks would be butted together	Page 292
1	From a safety standpoint, they're	Page 290		_	Page 292
2.	From a safety standpoint, they're usually doing the normal checks, if you will.	Page 290	2.	clearances. So the tanks would be butted together	Page 292
2. 3.	From a safety standpoint, they're usually doing the normal checks, if you will. Checking temperature and pressure, and in some	Page 290	2. 3.	clearances. So the tanks would be butted together or would the tanks still be 18 inches, which it's	Page 292
2. 3. 4.	From a safety standpoint, they're usually doing the normal checks, if you will. Checking temperature and pressure, and in some cases, full gas temperatures, et cetera. But	Page 290	2. 3. 4.	clearances. So the tanks would be butted together or would the tanks still be 18 inches, which it's supposed to be? See, one's hanging on the wall,	Page 292
2. 3. 4. 5.	From a safety standpoint, they're usually doing the normal checks, if you will. Checking temperature and pressure, and in some cases, full gas temperatures, et cetera. But there is no inspection between each water heater,	Page 290	2. 3. 4. 5.	clearances. So the tanks would be butted together or would the tanks still be 18 inches, which it's supposed to be? See, one's hanging on the wall, one's hanging on a tank. So therefore, if it's on	Page 292
2. 3. 4. 5. 6.	From a safety standpoint, they're usually doing the normal checks, if you will. Checking temperature and pressure, and in some cases, full gas temperatures, et cetera. But there is no inspection between each water heater, if you will. It's looked at from a system	Page 290	2. 3. 4. 5. 6.	clearances. So the tanks would be butted together or would the tanks still be 18 inches, which it's supposed to be? See, one's hanging on the wall, one's hanging on a tank. So therefore, if it's on a tank, you're saying you could just put the tanks	Page 292
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	Page 293			Page 295
1.	I do get that. If you're below 18 inches, there's a	1.	MR. PISCHKE: If there is a best	1 age 273
2.	good chance you can't get in between, right?	2.	practice out there, absolutely.	
3.	MR. HOLT: It's like, there's a	3.	MR. SILER: That was going to be	
4.	tank the heater, not the	4.	MR. BOWERS: What he was saying	
5.	MR. SCAFE: Right. What we're	5.	originally is right is there's not many states we	
6.	speaking to today is the tankless water heater.	6.	may be the only state that does under 200,000.	
7.	MR. HOLT: Yeah.	7.	MR. PISCHKE: No.	
8.	MR. SCAFE: You know. On a wall or	8.	MR. CHAPMAN: Ohio. I just got an	
9.	on a rack, free-standing.	9.	e-mail from them last week.	
10.	MR. HOLT: My point is that a	10.	MR. BOWERS: Okay.	
11.	tankless is hanging on a tank, so if you want to get	111.	MR. CHAPMAN: Their for a tankless	
12.	it changed to where the tankless clearances are	12.	water heater is three feet.	
13.	closer, then if they're on a tank and it's one unit,	13.	MR. BOWERS: But do they do under	
14.	you're saying that then someone would assume that	14.	200,000?	
15.	they could take the tanks with no clearance and put	15.	MR. CHAPMAN: Well, I can't remember	
16.	them together, because there's a tankless hanging on	16.	the guy's name now, because but	
17.	the tank.	17.	MR. BOWERS: Yeah.	
18.	MR. SCAFE: No. That's not what	18.	MR. CHAPMAN: They respecified it is	
19.	we're saying but	19.	three feet for inspecting tankless water heaters.	
20.	MR. HOLT: No. I know. But I'm	20.	MR. BOWERS: All of	
21.	saying what contractors would do	21.	MR. CHAPMAN: Tankless water he	
22.	MR. SCAFE: I understand. I	22.	didn't give me a criteria.	
23.	understand.	23.	MR. BOWERS: Okay.	
24.	MR. HOLT: And it's just confusing.	24.	MR. CHAPMAN: He just said tankless	
25.	MR. SCAFE: And we	25.	water heaters.	
	Page 294			Page 296
1.	Page 294 MR. PISCHKE: Any laws or rules	1.	MR. BOWERS: There's not many states	Page 296
1. 2.	MR. PISCHKE: Any laws or rules	1. 2.	MR. BOWERS: There's not many states that do 200. And if they don't have a National	Page 296
1. 2. 3.	MR. PISCHKE: Any laws or rules regarding that would have to be very specific.	1. 2. 3.	MR. BOWERS: There's not many states that do 200. And if they don't have a National Board Number	Page 296
2.	MR. PISCHKE: Any laws or rules	2.	that do 200. And if they don't have a National Board Number	Page 296
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2. 3. 4.	MR. PISCHKE: Any laws or rules regarding that would have to be very specific. MR. SCAFE: Yes. MR. HOLT: Yeah. MR. PISCHKE: I guess that's the	2. 3. 4.	that do 200. And if they don't have a National Board Number MR. SILER: That require inspection.	Page 296
2. 3. 4. 5.	MR. PISCHKE: Any laws or rules regarding that would have to be very specific. MR. SCAFE: Yes. MR. HOLT: Yeah.	2. 3. 4. 5.	that do 200. And if they don't have a National Board Number MR. SILER: That require inspection. MR. BOWERS: Yeah. Tennessee does 100,000 and above.	Page 296
2. 3. 4. 5. 6.	MR. PISCHKE: Any laws or rules regarding that would have to be very specific. MR. SCAFE: Yes. MR. HOLT: Yeah. MR. PISCHKE: I guess that's the point. MR. HOLT: I'm just bringing up	2. 3. 4. 5. 6.	that do 200. And if they don't have a National Board Number MR. SILER: That require inspection. MR. BOWERS: Yeah. Tennessee does	Page 296
2. 3. 4. 5. 6. 7.	MR. PISCHKE: Any laws or rules regarding that would have to be very specific. MR. SCAFE: Yes. MR. HOLT: Yeah. MR. PISCHKE: I guess that's the point.	2. 3. 4. 5. 6. 7.	that do 200. And if they don't have a National Board Number MR. SILER: That require inspection. MR. BOWERS: Yeah. Tennessee does 100,000 and above. MR. SILER: Right.	Page 296
2. 3. 4. 5. 6. 7. 8.	MR. PISCHKE: Any laws or rules regarding that would have to be very specific. MR. SCAFE: Yes. MR. HOLT: Yeah. MR. PISCHKE: I guess that's the point. MR. HOLT: I'm just bringing up MR. PISCHKE: Sure. Absolutely.	2. 3. 4. 5. 6. 7. 8.	that do 200. And if they don't have a National Board Number MR. SILER: That require inspection. MR. BOWERS: Yeah. Tennessee does 100,000 and above. MR. SILER: Right. MR. SCAFE: Correct.	Page 296
2. 3. 4. 5. 6. 7. 8. 9.	MR. PISCHKE: Any laws or rules regarding that would have to be very specific. MR. SCAFE: Yes. MR. HOLT: Yeah. MR. PISCHKE: I guess that's the point. MR. HOLT: I'm just bringing up MR. PISCHKE: Sure. Absolutely. It's	2. 3. 4. 5. 6. 7. 8. 9.	that do 200. And if they don't have a National Board Number MR. SILER: That require inspection. MR. BOWERS: Yeah. Tennessee does 100,000 and above. MR. SILER: Right. MR. SCAFE: Correct. MR. BOWERS: But there's not many	
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	Page 29	7	Page 2
1.	exact clearance on the sides?	1.	Tennessee or the 100,000 BTU as a cutoff. Then it'd
2.	MR. ROBINSON: Yeah.	2.	be simplified on the specifications.
3.	MR. SILER: I don't have it that	3.	And we have it in our rulebook, but a
4.	memorized right now. Do you recall what the	4.	lot of times, the contractors will tell you, man,
5.	MR. SCAFE: I don't. No, I don't	5.	I never heard of that before. And I think it
6.	MR. SILER: I don't I can't I'd	6.	would simplify, especially on a contractor's end.
7.	have to go back and look at what that is.	7.	They're looking at the space, yes, because of the
8.	MR. PETERS: Can we also enter into	8.	money side of the space. Every square foot is a
9.	the interim of some states have different codes,	9.	dollar, and they'll just have to look at it and
10.	just like Tennessee, and on some of the water	10.	determine how much more money it's going to cost
11.	heaters, they'll have that code for that state. For	11.	over here, but it's going to simplify the codes
12.	instance, New York, it may have a code for clearance	12.	and the requirements of the State of Tennessee.
13.	in New York. Can we try to get Rinnai, in their	13.	There is a big issue with the
14.	manual or specs, have our code in the State of	14.	confined space with water heaters. It's pretty
15.	Tennessee, that this would be the requirement in the	15.	bad across the state. Not so much that you think
16.	State of Tennessee?	16.	we try to control it, but we do the best we can.
17.	MR. SCAFE: I believe and you can	17.	MR. SCAFE: I understand.
18.	keep me honest here, Jason. I believe we can make	18.	MR. PISCHKE: At this time, due to
19.	provisions to accommodate	19.	time, I'm going to cut off the discussion, and we'll
20.	MR. SILER: Well, we	20.	pick it back up in December. We'll put it on the
21.	MR. SCAFE: that request.	21.	agenda as a discussion item. And hopefully, we'll
22.	MR. SILER: Well yeah, there is some	22.	have the full group here, as well, to discuss that.
23.	specific	23.	I thank you, gentlemen, for, you
24.	MR. SCAFE: We've done it in	24.	know, presenting this, and we'll give it a due
25.	Massachusetts.	25.	consideration for sure.
	Page 29	3	Page 3
1.	MR. SILER: Yeah. Massachusetts,	1.	MR. SILER: Yeah. We thank you for
2.	there's	2.	everybody's time and all the feedback also. We
3.	THE REPORTER: Don't speak over each	3.	appreciate it.
4.	other, please.	4.	MR. PISCHKE: Thank you.
5.	MR. SCAFE: Sorry.	5.	MR. SCAFE: Thank you.
6.	MR. SILER: Yeah. So in	6.	MR. PISCHKE: Okay. The last item on
7.	Massachusetts, there's a diagram that we're required	7.	the agenda and I have actually one more thing to
8.	to put in there for heating applications. We do	8.	do after this. But Item Number 10, Rule Cases and
9.	in combination domestic water heating, heating	9.	Interpretations. You have updates on that, Eugene?
10.	applications we're required to put that in there.	10.	MR. ROBINSON: Yes. Updating the
11.	But we do put statements in there. I	11.	rule cases and interpretations has been posted
12.	mean, that doesn't state specific, but it says,	12.	under on the Boiler Unit website, under that
13.	you must follow local and state codes. So we	13.	category. So it will be you'll have 2017, you'll
14.	you know, we because we don't know all those	14.	also have the older interpretations that you could
15.	and they can change county to county, city to	15.	check, code cases. So it's available for use.
16.	city, and state to state.	16.	That's it.
17.	MR. PETERS: But it would simplify a	17.	MR. PISCHKE: That's it? Thank you.
18.	lot of the problems that we see, especially when it	18.	Before we adjourn, I missed something in the
19.	comes off the drawing board and when it deals with	19.	introductions that I was reminded to do. We have,
20.	the contractor. Then we go out and look at it. And	20.	you know, the two new members, Terry and Harold,
21.	if it was simplified in that manual for the State of	21.	that I'd like to take just a minute and have each
22.	Tennessee requires 18 inches, then that architect's	22.	one Terry, you can go first. Just tell us a
23.	going to look at it, then that contractor's going to	23.	little bit about yourself and your background and
	look at it, and we won't have a lot of these	24.	how you ended up here.
24.	discussions about clearance issue in the State of	25.	MR. FOX: Don't know. Terry Fox.
24. 25.	discussions about clearance issue in the state of		
	discussions about creatance issue in the State of		·

Page 301			Page 303
I've been associated or have worked on boilers for	1.	MR. BAILEY: You did a good job.	1 age 303
the past 35 years, everything from doing refractory	2.	MR. ROBINSON: You did good.	
work to actual tube work to construction to welding	3.	MS. BENNETT: You did a really good	
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to kind of pay back to this industry that's been	25.		
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* **		CERTIFICATE	
**	۷.	STATE OF TENNESSEE)	
•	3.	,	
•	١.	COUNTY OF WILLIAMSON)	
· ·		I Dominique A Dubois I CD# 686 Notory	
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_	9.	by machine shorthand all the proceedings in the	
_	10.	foregoing transcript, and that said transcript is a	
MR. PISCHKE: Oh, I'm sorry. Thank	11.	true, accurate, and complete transcript to the best	
you. The next meeting will be December 13th at	12.	of my ability.	
9:00 o'clock in	13.	I further certify that I am not an attorney	
MS. BENNETT: I'm not sure what room	14.		
yet.		- · · · · · · · · · · · · · · · · · · ·	
MR. PISCHKE: I was just going to ask		-	
that. Do we know which room yet?			
MS. BENNETT: Not yet.		STOTED this our day of Movember 2017.	
MR. PISCHKE: But it's either this	20.		
room or the other room. The			
MS. BENNETT: Yeah. It'll be on the	21.	Dominique A. Dubois, LCR# 686	
MS. BENNETT. Tean. It if de on the			
next agenda.	22	Notary Public State at Large	
	22.	Notary Public State at Large My commission expires: 4/9/2018	
next agenda.	22. 23. 24.		
	repairs, R-1 repairs. In the past, I've moved on and done mainly control work. And did a lot of control work. I worked a lot with these boiler companies that introduced the Hawk-type system or the Cleaver-Brooks with the Hawk system for some of these variances that are being approved. And I just saw some things in this field that I thought needed to be addressed and changed and I was wanting to bring my expertise to the Board and try to help out. MR. PISCHKE: Thank you. MR. FOX: That's why I'm here. Thank you. MR. PISCHKE: Harold? MR. BOWERS: My name is Harold Bowers. I live in Centerville, Tennessee. I've been in this industry probably about like Terry, 35 to 40 years. I was the plant engineer at the same plant in Clarksville for 23 years. I've been with FM Global for 17 years. And this industry has been really good to me, and I just wanted to serve to kind of pay back to this industry that's been Page 302 really good for me. So and I really appreciate the appointment to the Board. MR. CHAPMAN: Thank you. (Applause.) MR. PISCHKE: With that, I will if there's no other items or issues, I will call for the adjournment. MS. BENNETT: And the next meeting. MR. PISCHKE: Oh, I'm sorry. Thank you. The next meeting will be December 13th at 9:00 o'clock in MS. BENNETT: I'm not sure what room yet. MR. PISCHKE: I was just going to ask that. Do we know which room yet? MS. BENNETT: Not yet.	repairs, R-1 repairs. In the past, I've moved on and done mainly control work. And did a lot of control work. I worked a lot with these boiler companies that introduced the Hawk-type system or the Cleaver-Brooks with the Hawk system for some of these variances that are being approved. And I just saw some things in this field that I thought needed to be addressed and changed and I was wanting to bring my expertise to the Board and try to help out. MR. PISCHKE: Thank you. MR. PISCHKE: Thank you. MR. PISCHKE: Harold? MR. BOWERS: My name is Harold Bowers. I live in Centerville, Tennessee. I've been in this industry probably about like Terry, 20. 35 to 40 years. I was the plant engineer at the same plant in Clarksville for 23 years. I've been with FM Global for 17 years. And this industry has been really good to me, and I just wanted to serve to kind of pay back to this industry that's been Page 302 really good for me. So and I really appreciate the appointment to the Board. MR. PISCHKE: Thank you. (Applause.) MR. PISCHKE: With that, I will if there's no other items or issues, I will call for the adjournment. MS. BENNETT: And the next meeting. MR. CHAPMAN: Next meeting. MR. PISCHKE: Oh, I'm sorry. Thank you. The next meeting will be December 13th at 9:00 o'clock in MS. BENNETT: I'm not sure what room yet. MS. BENNETT: I'm not sure what room yet. MS. BENNETT: Not yet. MS. BENNETT: Pot yet. MS. BENNETT: Not yet. MS. BENNETT: Not yet. MS. BENNETT: Not yet. MS. BENNETT: Not yet.	repairs, R-1 repairs. In the past, I've moved on and done mainly control work. And did a lot of control work. I worked a lot with these boiler companies that introduced the Hawk-type system or the Cleaver-Brooks with the Hawk system for some of these variances that are being approved. And I just saw some things in this field that I thought needed to be addressed and changed and I was wanting to bring my expertise to the Board and try to help out. MR. PISCHKE: Thank you. MR. POX: That's why I'm here. Thank you. MR. CHAPMAN: Thank you. MR. PISCHKE: Harold? MR. BOWERS: My name is Harold Bowers. I live in Centerville, Tennessee. I've been in this industry probably - about like Terry, 25 to 40 years. I was the plant engineer at the same plant in Clarksville for 23 years. I've been with FM Global for I7 years. And this industry has been really good to me, and I just wanted to serve to kind of pay back to this industry that's been Page 302 really good for me. So and I really appreciate the appointment to the Board. MR. PISCHKE: Thank you. (Applause.) MR. PISCHKE: Thank you. (Applause.) MR. PISCHKE: With that, I will if there's no other items or issues, I will call for the adjournment. MS. BENNETT: And the next meeting. MR. PISCHKE: I was just going to ask that. Do we know which room yet? MR. BENNETT: I'm not sure what room yet. MR. PISCHKE: I was just going to ask that. Do we know which room yet? MS. BENNETT: Not yet. MR. PISCHKE: I was just going to ask that. Do we know which room yet? MS. BENNETT: Not yet. MR. PISCHKE: I was just going to ask that. Do we know which room yet? MS. BENNETT: Not yet. MR. PISCHKE: I was just going to ask that. Do we know which room yet? MS. BENNETT: Not yet. MS.

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