1	STATE OF TENNESSEE
2	DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT BOARD OF BOILER RULES
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8	QUARTERLY MEETING OF THE
9	STATE OF TENNESSEE BOARD OF BOILER RULES
10	December 11, 2019
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22	CASSANDRA M. BEILING, LCR# 371
23	STONE & GEORGE COURT REPORTING 2020 Fieldstone Parkway
24	Suite 900 - PMB 234 Franklin, Tennessee 37069
25	615.221.1089

Page 2 Page 3 INDEX PAGE 1 19-08 Parkwest Medical Center 28 2 19-17 Nokian Tyres, U.S. Operations LLC 56 3 19-21 Proposed changes to Rule 0800-03-03-.14 78 Fees 4 5 19-22 Valero Memphis Refinery 92 NA 6 19-23 Hearthside Food Solutions, LLC 7 19-24 Steris Instrument Management Services 99 117 8 19-25 Clover Bottom Developmental Center 9 19-26 Develey Mustard & Condiments Corporation 124 10 19-27 Tennova Healthcare Harton NA 11 19-28 TAMKO Building Flowers 12 BI 19-01 Inquiry 5 - ECS Consulting, LLC 146 14 146 192 CO detector installation requirements Mechanical Engineer Representative 14 BI 19-03 Interpretation request for submission NA 15 of requests to appear on a meeting agenda 16 AGENDA 17 I. Call Meeting to Order II. Introductions and Announcements

Goodlettsville, Tennessee Jeffery Henry (not present) Boiler Manufacturer 17 Sam Chapman, Chief Boiler Inspector Chris O'Guin, Boiler Inspector 20 III. Adoption of the Agenda 20 Thomas Herrod 21 IV. Approval of the September 18, 2019 Meeting Assistant Commissioner, State of Tennessee Minutes 22 22 Daniel Bailey, Esq. V. Chief Boiler Inspector's Report Legal Counsel, State of Tennessee 23 VI. Variance Report 24 Carlene Bennett 24 Board Secretary, State of Tennessee 25 Daga 4 Daga 5

APPEARANCES:

4 David W. Baughman

4006 River Lane

Harold F. Bowers

6 Milton, Tennessee 37118

Insurance Representative

Boilermaker Representative 11 Chattanooga, Tennessee

Centerville, Tennessee

Dr. S. Keith Hargrove

Brian Morelock, Chairman

Owner-User Representative

Owner-User Representative

Allied Boiler & Supply, Inc.

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10 Terry Fox

		Page	4	Page 5
1	VII.	Old Business		1 * * * * * * *
2		19-08 Parkwest Medical Center 19-17 Nokian Tyres U.S. Operations LLC		2 CHAIRMAN MORELOCK: Good morning,
1		19-21 Proposed changes to Rule		5,
3		0800-03-0314 Fees		3 everybody. I want to welcome everyone to the
4	VIII.	New Business		4 December meeting of the Tennessee Board of Boiler
5		19-22 Valero Memphis Refinery 19-23 Hearthside Food Solutions LLC		5 Rules. I have 9:00 a.m. and so we'll go ahead and
		19-24 Steris Instrument Management Services		5
6		19-25 Clover Bottom Developmental Center		6 bring this meeting to order.
		19-26 Develey Mustard & Condiments Corp.		7 I want to welcome everyone here on
7		19-27 Tennova Healthcare Harton 19-28 TAMKO Building Products, LLC		8 this cold December morning. There's refreshments
8		19 10 IIIIo Sallaling Hoadoos, Lie		5
	IX.	Rule Case & Interpretations		
9		BI 19-01 Inquiry 5 BI 19-02 Installation requirements for	1	0 anything you would like back there. There's
10		CO detectors	1	1 agendas on the table where you came in, as well as
1.1		BI 19-03 Submission of requests to appear	1	2 a sign-in sheet. And there will also be one
11 12	x.	on meeting agenda Open Discussion Items	1	5
		*Update on the Boiler Computer System and JO	1	
13		*Tentative Meeting Dates for 2020	1	4 So we have an agenda before us. And
14		Wednesday, March 18th Wednesday, June 10th	1	5 what I want to do first is I would like to have a
		Wednesday, September 16th	1	6 round of introductions and any announcements. And
15 16	XI.	Wednesday, December 9th The next Board of Boiler Rules Meeting is	1	7 so, Cassandra, I'll start with you.
1	<i>n</i> ₁ .	scheduled for 9:00 a.m. (CDT), Wednesday,	1	
17		March 18, 2019, at the Department of	1	8 THE REPORTER: Cassandra Beiling,
18		Labor & Workforce Development office building located at 220 French Landing	1	9 Stone & George Court Reporting.
10		Drive, Nashville, Tennessee.	2	0 MS. BENNETT: Carlene Bennett,
19			2	· · · · · · · · · · · · · · · · · · ·
20	XII.	Adjournment.	1	-
20			2	2 MR. O'GUIN: Chris O'Guin,
22			2	3 assistant chief.
23 24	** ₽~	porter's Note: All names are spelled	2	4 MR. CHAPMAN: Sam Chapman, chief
1 ²⁴		tically unless otherwise provided to the	1	
25	-	ter by the parties.	2	5 inspector.

Stone & George Court Reporting 615.221.1089

Page 7 Page 6 DR. HARGROVE: Keith Hargrove, 1 MS. RHONE: Deborah Rhone, boiler 2 office supervisor. 2 board member. CHAIRMAN MORELOCK: Brian Morelock, 3 MS. BELL: Deonne Bell, boiler 4 board member. staff. 4 MR. BAUGHMAN: Dave Baughman, board 5 MS. COLLINS: Kyra Collins, boiler member. 6 staff. MR. BOWERS: Harold Bowers, board 7 MS. BAKER: Tiffany Baker, boiler 8 member. staff. MR. FOX: Terry Fox, board member. 9 MS. PRESSON: Jamie Presson, MR. HERROD: Tom Herrod, assistant 10 executive admin assistant for WRC. 11 MR. PARHAM: Dave Parham, 11 commissioner, WRC. MR. BAILEY: Dan Bailey, legal 12 Travelers. 13 counsel. 13 MR. JONES: Kevin Jones, TAMKO MR. BOWEN: Bruce Bowen, 14 Building Products. 15 Steris IMS. 15 MR. HUDGINS: Ernie Hudgins, MR. TOTH: Marty Toth, ECS Engineering Services Group. 16 17 17 Consulting and the Boisco Training Group. MR. KELLEY: Greg Kelley, Boiler MR. NEVILLE: James Neville, 18 Supply Company. President of Neville Engineering. 19 MR. LARGEN: John Largen, Boiler 20 MR. COTTRELL: Phillip Cottrell, Supply Company. 21 Develey Mustard and Condiments. 21 MR. VANSTONE: Blair Vanstone, MR. GROSS: Jeremy Gross, Valero 22 Middle Tennessee Regional Office, Department of 23 Memphis Refinery. 23 Intellectual Developmental Disabilities, boiler MR. TRAUNERO: Matt Traunero, 24 operator/supervisor. 25 utilities engineer, Nokian Tyres. 25 MR. ROBINSON: Eugene Robinson, Page 8 Page 9 1 Cincinnati Insurance. 1 MR. HERROD: Thank you. MR. DUNLAP: Derrick Dunlap, Jewell 2 (Applause.) CHAIRMAN MORELOCK: I hope you have 3 Mechanical. 3 CHAIRMAN MORELOCK: All right. 4 a great birthday. 5 Again, thank you all for introducing yourselves. 5 MR. HERROD: Thank you. 6 I do have a quick safety item. In the event of an CHAIRMAN MORELOCK: All right. Our б 7 emergency in the building, security personnel 7 next item on the agenda is adoption of the agenda. 8 would attend to helping us get to a safe place 8 And, like I said, they are up on the back table. 9 within the building. And if we were to evacuate, 9 There are a couple of things that we need to 10 we would evacuate on the Rosa Parks side of the 10 address before we vote on the agenda. 11 building. 11 So if you will look on page 2, I would also ask, now that we are in 12 Item 19-23, Hearthside Foods, we will move their 13 item to the March 2020 meeting. They just didn't 13 session, if you have a cell phone, please turn 14 that to silent. And if you need to step out and 14 have everything quite ready for the December 15 take a phone call, that's perfectly fine, but we 15 meeting, so we will move that to March. 16 want to make sure our presenters and people asking 16 Item 19-27 Tennova Healthcare will 17 questions are heard clearly. 17 also be moved to the March 2020 meeting. And so when you do come up to make a 18 And if you look, you will see that

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18 19 presentation, introduce yourselves and present 19 Item 19-26, we have that same item number for 20 Clover Bottom Development as well as Develey 20 your item. 21 Are there any other announcements? 21 Mustard & Condiments. So we are going to renumber 22 (No verbal response.) 22 Develey to 19-29. We won't bump you in the 23 CHAIRMAN MORELOCK: It's come to my 23 agenda. We'll keep you in the same spot, but --24 attention that somebody is having a birthday 24 MS. BENNETT: Mr. Morelock? 25 25 today, Mr. Herrod, so happy birthday. CHAIRMAN MORELOCK: Yes?

Page 11 Page 10 MS. BENNETT: Would it be possible CHAIRMAN MORELOCK: Yes? 1 1 2 to make one 25 and one 26? 2 MR. TOTH: I was just curious if CHAIRMAN MORELOCK: Sure. We can 3 3 the board was going to discuss the interpretation 4 do that. 4 on e-stops for low-pressure boilers at this 5 MS. BENNETT: We can make the first 5 meeting. 6 one 25, and then --6 CHAIRMAN MORELOCK: Is that not 7 CHAIRMAN MORELOCK: So make Clover 7 19-01? 8 8 Bottom 25? MR. TOTH: That's set for high-9 MS. BENNETT: Yes. 9 pressure. And I do not see it on the agenda. CHAIRMAN MORELOCK: Is that 19-01? 10 CHAIRMAN MORELOCK: Okay. All 10 11 MR. BAILEY: Yes, 19-01. 11 right. 12 MS. BENNETT: Yes. I think that 12 MR. TOTH: 19-01 is for -- I'm just 13 that's where the error is. 13 seeing for high pressure. They're actually two 14 CHAIRMAN MORELOCK: Is that --14 separate agenda discussions. If I'm not mistaken, 15 okay. 15 19-01 was a conclusion discussion that was tabled 16 MS. BENNETT: Yes. 16 from the September meeting. CHAIRMAN MORELOCK: All right. So 17 17 CHAIRMAN MORELOCK: Yes. 18 we'll make Clover Bottom 19-25, leave Develey at 18 MR. TOTH: And so there was also a 19 19-26 and we're good, right? 19 submittal to discuss low-pressure boilers. That MS. BENNETT: Yes, sir. 20 was brought up at the September meeting. 20 21 CHAIRMAN MORELOCK: Okay. Thank 21 MR. BAUGHMAN: And it was actually 22 you for that. 22 deleted from that meeting, was it not? 23 Are there any other changes, 23 MR. TOTH: It was. It was deleted 24 additions, deletions to the agenda? 24 from 19-01 and, subsequently, was resubmitted as a 25 MR. TOTH: (Indicating.) 25 separate interpretation. Page 12 Page 13 CHAIRMAN MORELOCK: Okay. So do 1 1 the -- well, 19-03? 2 the board members have a copy of the high-pressure CHAIRMAN MORELOCK: That's for 2 3 submitting items to the board. 3 item? MR. TOTH: You do have a -- you MR. TOTH: Variance items? 4 4 5 have a copy of all -- you have a copy of the high 5 CHAIRMAN MORELOCK: I don't know 6 pressure. 6 that we have a hard copy. 7 7 CHAIRMAN MORELOCK: Right. MR. BAUGHMAN: Here is an email 8 MR. TOTH: Are you referring to the 8 where we request the low-pressure, November 21st, 9 low-pressure? If you do not, then it will 9 to be added --10 definitely have to be tabled. 10 CHAIRMAN MORELOCK: Okay. So CHAIRMAN MORELOCK: Hang on. Let 11 11 that's low-pressure. 12 me dig down here. So I have a 19-01 Inquiry 5, 12 MR. BAUGHMAN: -- to be added to 13 with Inquiry 5 and a Reply 5. Is that --13 the discussion of high-pressure. 14 MR. TOTH: That would be -- that 14 CHAIRMAN MORELOCK: Mr. Toth, I 15 would be for 19-01. 15 don't know that I have --16 16 MR. TOTH: Okay. CHAIRMAN MORELOCK: Okay. 17 MR. BAUGHMAN: And low-pressure is 17 CHAIRMAN MORELOCK: Does the board 18 not on it. 18 have a handout for... 19 CHAIRMAN MORELOCK: Okay. And then MR. TOTH: If not, Mr. Chairman, I 19 20 we have 19-02, which is CO. 20 recommend that you probably table it until the 21 MR. TOTH: Which is CO, yes. 21 March meeting, only because -- to give the board CHAIRMAN MORELOCK: And that's all 22 22 members an opportunity to research it. 23 the items that I have. Do the other board members 23 CHAIRMAN MORELOCK: Okay. Because 24 have any other items? 24 I don't know that we have a handout for everybody 25 25 to review. Is that okay with you? No hardships? MR. TOTH: Do we have anything on

	Page 14		Page 15
1	MR. TOTH: No. That's absolutely	1	
2	fine. We do show 1903 on the agenda, but it	2	different than the variance interpretations, then.
3	appears that that was not that was not	3	That's my fault.
4	submitted to the board members either.	4	MS. BENNETT: The one about the
5	CHAIRMAN MORELOCK: I think the	5	variance manuals, I think it's under Discussion
6	current let's see.	6	Items.
7	MR. BAUGHMAN: What is 19-03?	7	CHAIRMAN MORELOCK: It's under
8	CHAIRMAN MORELOCK: 19-03 doesn't	8	what?
9	show on the agenda that's on the back table.	9	MS. BENNETT: Discussion Items.
10	MR. TOTH: On the last page?	10	CHAIRMAN MORELOCK: Oh, okay. So
11	CHAIRMAN MORELOCK: Is it on that	11	we didn't have an official
12	one?	12	DR. HARGROVE: Not submission but a
13	MR. BAUGHMAN: The one that was	13	discussion.
14	emailed to us did not have it.	14	CHAIRMAN MORELOCK: Yes. So,
15	CHAIRMAN MORELOCK: Yeah. We don't	15	Mr. Toth, it is shown as a discussion item. My
	have it on our agenda.	16	apologies. But it doesn't have an item number
17	MR. TOTH: Okay. We'll just have	17	tied to it.
18	to table that. I'll make sure that those are	18	MR. TOTH: Okay. But it is the
19	CHAIRMAN MORELOCK: Okay. I'll	19	you do have the documentation for the
20	make a note of that.	20	interpretation request?
20	MR. TOTH: Great. Thank you.	20	CHAIRMAN MORELOCK: I do not.
22	MR. BAUGHMAN: What is 19-03?	21	MR. TOTH: Okay.
22	CHAIRMAN MORELOCK: 19-03 is an	23	CHAIRMAN MORELOCK: I do not. We
23	interpretation on submitting items to the board,	23	can talk about it, but we'll just need to resubmit
24		24	
25	like board cases, board interpretations.	25	your item for March to vote on it.
1	Page 16	1	Page 17 to the September minutes? I hope you had a chance
1	MR. TOTH: Okay.		to the September minutes? I hope you had a chance
2	MR. TOTH: Okay. CHAIRMAN MORELOCK: All right. Any	2	to the September minutes? I hope you had a chance to read them.
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Page 19 Page 18 1 are active; 15 require reinspection; and 40 no 1 1,205 -- that's on the delinquent -- insurance 2 inspectors is 367, giving us a total of 1,572 2 longer require it. They are dormant. 3 vessels. 3 This quarter, we have completed Number of code violations, violations 4 14 variance audit with 9 approved, and 5 failed. 4 5 found was 51; uncorrected violations is a total of 5 Do you want me to name the ones that 6 23. 6 failed the inspection? 7 The report data period is July to 7 CHAIRMAN MORELOCK: Yes. 8 September of 2019. Variance inspections will be 8 MR. O'GUIN: Starting off, West 9 performed by Chris O'Guin, Assistant Chief 9 Tennessee Healthcare in Dyersburg failed due to 10 Inspector. We have a new inspector named Gregory 10 lack of training; West Tennessee Healthcare in 11 Strickland, which is going to be in the Nashville 11 Jackson failed, lack of training; and Royal Canine 12 area. And we have a new inspector that took the 12 in Lebanon failed, lack of training and the e-stop 13 exam December the 4th. He passed the exam, so we 13 at the remote station did not work; and Centennial 14 in Nashville failed due to lack of training; and 14 do now have a new inspector for the Memphis area. 15 That is the chief's report. 15 St. Thomas West in Nashville failed due to lack of 16 CHAIRMAN MORELOCK: Very good. training. 16 17 That's good news. Any questions, comments? 17 CHAIRMAN MORELOCK: Any questions? 18 (No verbal response.) 18 (No verbal response.) 19 CHAIRMAN MORELOCK: Okay. That 19 CHAIRMAN MORELOCK: The e-stop, 20 will take us to Item 6, which is the variance 20 have they corrected that? 21 report. And I'll hand that over to Assistant 21 MR. O'GUIN: The one at the boiler 22 Chief Inspector Chris O'Guin. 22 room worked properly. 23 MR. O'GUIN: Thank you, Chairman. 23 CHAIRMAN MORELOCK: Okay. As of today, we've got 132 known MR. O'GUIN: But the one at the 24 24 25 variances; 8 requiring a follow-up inspection; 69 25 remote station did not. Page 20 Page 21 CHAIRMAN MORELOCK: Okay. 1 there's lack of training, we tell them that they 1 MR. O'GUIN: So they're still on a 2 need to get trained on it. You know, if the 2 3 20-minute rule, and they're supposed to be getting 3 manual says -- do as the manual says and go from 4 it correct. And then once their training is up to 4 there. So they're not even following the manual 5 date and they're good, they'll call for 5 on it, you know. 6 reinspection. 6 Some of them are just, okay, Jim 7 CHAIRMAN MORELOCK: Okay. 7 always goes to the boiler. You cannot assume 8 MR. BAUGHMAN: I would be 8 that. So that's the lack of training that most of 9 interested to know, just as a follow-up at some 9 them do. It's follow your manual. If your manual 10 point in time -- I don't know how we'd do it 10 says step 1, 2, 3, go right down the manual. DR. HARGROVE: Yes, sir. 11 either, through yourself or input from them --11 12 what, on that panel with the e-stop was actually 12 MR. CHAPMAN: And they're not doing 13 the issue, if it's the e-stop itself, mechanical 13 that. They might go 1 and skip down to 5. 14 wise, I'm just interested in what the failure mode 14 MR. O'GUIN: All of these -- just 15 was. 15 for a better understanding for you-all -- all the 16 16 five that failed were due to remote station MR. CHAPMAN: Good question. 17 MR. O'GUIN: Because they had the 17 training. All the boiler operators are on the 18 switch off, reenergized the boiler, and the boiler 18 same page with the manual. But the remote 19 came up, and the switch in the remote station was 19 station, they will either be too busy with other 20 still in the off position. 20 work or they won't follow their procedure in the 21 DR. HARGROVE: Question: Is it 21 manual and they'll call a boiler alarm over a 22 your responsibility or the board or the assistant 22 two-way radio and that's it. And there's no 23 chief to make recommendations regarding the lack 23 follow-up, et cetera. So you've got a boiler down 24 of training for the observations that were made? 24 there in alarm, so... 25 MR. CHAPMAN: What we do is when 25 MR. CHAPMAN: And there's no

Page 221documentation of that either, right?1failed, they're on the 20-minute rule2CHAIRMAN MORELOCK: Well, the2further inspection.3documentation is the implementation of their3CHAIRMAN MORELOCK: Ye4manual.4MR. BAUGHMAN: The one5MR. CHAPMAN: Yes.5comes to mind with that e-stop that for6MR. O'GUIN: Yes.6remote panel, that then goes to let for7CHAIRMAN MORELOCK: And it's a good7the procedure in the manual is not be8finding, from the standpoint of this is the two8also. Because if it was, that failure	Page 23 e until
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	-
8 finding from the standpoint of this is the two 8 also Decause if it was that failing	9
o ansurg, from the standpoint of this is the two o also. Decause if it was, that falled	re of the
9 pieces of a boiler attendant variance. It comes 9 e-stop unless it just failed at th	nat particular
10 to the board to look at all the aspects of the 10 point in time, coincidentally, it would be a spectral to be a spectral t	
11 manual and make sure all the components are in 11 picked up during their normal variant	ce procedure.
12 place. And then the field visit by the State of 12 MR. CHAPMAN: Yes.	
13Tennessee, are you doing what's written in your13MR. BAUGHMAN: Okay.	Interesting.
14 manual. And that is so critical. 14 CHAIRMAN MORELOCK: Ve	ery good.
15 MR. O'GUIN: Yes, sir. 15 MR. BOWERS: You know	, personally,
16 CHAIRMAN MORELOCK: And when you 16 I think it's very good that you found	d that. I
17 reported that, I was thinking of Dr. Canonico. 17 mean, it proves that the system is we	orking. You
18 That was always his big concern, was, well, what 18 know, we're very leery about these	- a lot of us
19 if the security guard is busy, what if he's in a 19 are about these variances anyhow.	So this is
20 fight somewhere, you know. And so this is proof 20 proof the system is working. So what	t you'll do,
21 that the system is working. So that's actually a 21 you'll do a follow-up inspection. Ye	ou'll go
22 very good report. 22 through the whole system again, corre	ect?
23 And so it's back on the owner now, 23 MR. CHAPMAN: That's of	correct.
24 the operators, to do what their manual says. 24 MR. BOWERS: And see :	if they pass.
25 MR. O'GUIN: And those five that 25 Then three years from now, you'll go	back to do it
Page 24	Page 25
1 again. They have to when they renew, do they 1 now, and all of a sudden, three years	
2 have to go through a test, when they review? 2 they fail the test again. And I was	-
3 MR. O'GUIN: Yes, sir. 3 haven't retrained your new people to	-
4 MR. BOWERS: So they'll do a 4 three years ago. So we're constantly	
5 follow-up visit three years after they pass it 5 they they're compliant to the rules.	
6 three years from now when they renew it, they 6 MR. O'GUIN: Yes, sir	•
	· · · · · · · · · · · · · · · · · · ·
7 still have to go through a physical test. 7 MR. BAUGHMAN: My cond	
8 MR. CHAPMAN: Yes. 8 three years gets back to the hardware	e issue. If
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Page 261MR. BAUGHMAN: So there's variables1MR. BOWERS: Of2 in that.2inspectors are checking this.3MR. CHAPMAN: Yes, it is.3into the variances near as mutering the variance, but we do do an4MR. BOWERS: But actually, as an4the variance, but we do do an5inspector as a matter of fact, I was at that5inspection on a high-pressure6location, one of them that failed, and they did6MR. TOTH: (Inc.)7the test that day. They thought I was the state7CHAIRMAN MORELA8inspector inspecting it.8MR. TOTH: Marri9I said, "Well, I'm going to do an9Question: When they do fail,10operational inspection."10responsibility to contact you11They said, "Well, do it." And they11for a reinspection, correct?	ch as they get into operational boiler.
1MR. BAUGHMAN: So there's variables1MR. BOWERS: OI2in that.2inspectors are checking this.3MR. CHAPMAN: Yes, it is.3into the variances near as muted4MR. BOWERS: But actually, as an4the variance, but we do do an5inspector as a matter of fact, I was at that5inspection on a high-pressure6location, one of them that failed, and they did6MR. TOTH: (Inc7the test that day. They thought I was the state7CHAIRMAN MORELA8inspector inspecting it.8MR. TOTH: Mar9I said, "Well, I'm going to do an9Question: When they do fail,10operational inspection."10responsibility to contact you	kay. So the regular No, we don't get ch as they get into operational boiler.
3MR. CHAPMAN: Yes, it is.3into the variances near as muther4MR. BOWERS: But actually, as an3into the variance, but we do do an5inspector as a matter of fact, I was at that4the variance, but we do do an6location, one of them that failed, and they did6MR. TOTH: (Inc.)7the test that day. They thought I was the state7CHAIRMAN MORELA8inspector inspecting it.8MR. TOTH: Marri9I said, "Well, I'm going to do an9Question: When they do fail,10operational inspection."10responsibility to contact you	ch as they get into operational boiler.
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8 inspector inspecting it.8MR. TOTH: Mar9I said, "Well, I'm going to do an9Question: When they do fail,10 operational inspection."10responsibility to contact you	licating.)
9I said, "Well, I'm going to do an9Question: When they do fail,10operational inspection."10responsibility to contact you	OCK: Yes?
10 operational inspection." 10 responsibility to contact you	ty Toth, ECS.
	it's the user's
	when they're ready
	That's correct.
13 And I said, "No. So you have to go 13 MR. TOTH: Oka:	
	CK: Any other
15 inspector comes out, to get it approved." 15 questions or comments?	
16Apparently, they this was three16(No verbal response)	nge)
	DCK: All right.
18 years? Did they reinspect in the last three 18 Good conversation.	JON ATT TIGHT.
19 weeks? 19 MR. ROBINSON:	(hairman)
20 MR. O'GUIN: I'm not sure who 20 CHAIRMAN MORELA	
	tate your name,
	Dunne Debiner
	Eugene Robinson,
24 MR. O'GUIN: We have not 24 Cincinnati Insurance.	
25 reinspected that location. 25 From a quality s	tandpoint, at some
Page 28 1 point, if you can continue to see a trend of the 1 manual, initially, on the four	Page 29 r existing boilers
2 training issues reoccurring, you may want to put a 2 that are located at Parkwest	with the
3 corrective action in place where you demand the 3 understanding that we were go.	ing through the
4 user to submit to you in writing their corrective 4 process of adding a fifth boi.	ler and, also, just
5 action and what they intend to do. And then you 5 for the board's understanding	-
6 have the right to deny or accept that corrective 6 that was much needed. Even the	
I / action to eliminate the proplem.	
7 action to eliminate the problem. 8 CHAIRMAN MORELOCK: Okay, Any 8 listed.	
8 CHAIRMAN MORELOCK: Okay. Any 8 listed.	
8 CHAIRMAN MORELOCK: Okay. Any 8 listed. 9 other questions or comments? 9 So as you mention	ned, this is, I would
8CHAIRMAN MORELOCK: Okay. Any8listed.9other questions or comments?9So as you mention10(No verbal response.)10say, simply, a revision to the	ned, this is, I would e existing manual.
8 CHAIRMAN MORELOCK: Okay. Any 8 listed. 9 other questions or comments? 9 So as you mention 10 (No verbal response.) 10 say, simply, a revision to the 11 CHAIRMAN MORELOCK: Okay. Moving 11 There are no process changes	ned, this is, I would e existing manual. to the manual, same
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Page 30 Page 31 1 was not available at time of printing. I do have 1 suggestions that I gave them in regards to adding 2 that information now if you would like to make 2 additional local e-stops to their boiler room. As 3 note. 3 you can see from the site plan itself, if you'll 4 CHAIRMAN MORELOCK: Please. take a look, initially, the only local e-stops --4 5 MR. TOTH: Tennessee Number T125793 5 I'm sorry, that's on page 13, if you would like to 6 was issued to Boiler Number 5. 6 look. Initially, the only local e-stops that they 7 MR. BAUGHMAN: What was that number 7 had were located exiting the boiler room to the 8 outside, near Boiler Number 5. Upon my request, 8 again? I'm sorry. 9 MR. TOTH: I'm sorry. T125793. 9 they also included e-stops above Boiler Number 1 10 MR. BAUGHMAN: Thank you. 10 and Number 2, an e-stop panel there. And, also, 11 MR. TOTH: The boiler also has a 11 an e-stop panel at the exit going downstairs, that 12 maximum fuel input of 12,247,00 BTUs with an 12 would also exit at a lower level of the building 13 output of 10,350, which equates to that 13 itself. 14 300 horsepower. You'll also notice that there is 14 I would be welcome to any questions 15 a photograph that illustrates Boiler Number 5, a 15 you might have concerning this addition to Boiler 16 nice-looking boiler there. 16 Number 5, and any other questions. 17 The DA information on the next page, 17 CHAIRMAN MORELOCK: Okay. Do I 18 I will give you that information as well. So that 18 have a motion to discuss? 19 National Board number is 18326, with a Tennessee 19 MR. BAUGHMAN: So moved. 20 number of T125794. Cleaver-Brooks boiler is the 20 CHAIRMAN MORELOCK: Second? 21 manufacturer with a model number of 21 MR. BOWERS: Second. 22 SD-70-1400/1800, and the serial number of 22 CHAIRMAN MORELOCK: Any questions 23 015296-1-1. And it was built in 2019. 23 or comments? Again, this is just in addition to 24 24 DR. HARGROVE: Quick question. 25 it. I was very happy to see the client take the 25 What's the total distance -- I'm trying to look Page 32 Page 33 1 and a remote panel at the bottom of the steps, 1 for some dimensions on the site plan. MR. TOTH: Okay. Approximately 2 going down to the lower level. 2 3 200 feet. If you'll see from the remote 3 Just so you can get a visual, the 4 back road behind the hospital is actually is at a 4 station... 5 DR. HARGROVE: Boiler 2 in front 5 grade, going down, so they both exit out to that 6 of --6 same road but just on different levels. And so 7 7 those stairs, at the bottom of those stairs, is MR. TOTH: Are you talking from the 8 remote station to the boiler room or between the 8 another e-stop panel with all five boilers. 9 boilers? 9 So if you were to want to know the 10 DR. HARGROVE: First floor. 10 distance between that e-stop and that rear wall, I 11 MR. TOTH: Okay. First floor. 11 would say that is approximately 50 to 60 feet. 12 DR. HARGROVE: What are the 12 DR. HARGROVE: Okay. 13 13 dimensions, let's just say, from the e-stop for MR. TOTH: It's all located in the 14 Boiler 1 and 2 to the e-stop of Boiler 3, 4, and 14 same room. The illustration may appear that there 15 5. 15 is a wall there, but it's actually an opening. 16 16 That's just an overhead arched opening. MR. TOTH: Okay. Just to be very 17 clear, Dr. Hargrove, the e-stop that's above 17 DR. HARGROVE: All right. Thank 18 Boiler Number 1 and Number 2 also includes e-stops 18 you, sir. 19 for 3, 4, and 5 as well. 19 MR. TOTH: You're welcome. 20 DR. HARGROVE: Okay. 20 MR. BAUGHMAN: Mr. Toth? 21 MR. TOTH: So what we did was we 21 MR. TOTH: Yes? 22 included a fifth e-stop over by the exiting behind 22 MR. BAUGHMAN: So e-stops are 23 Boiler Number 5 to include Boiler Number 5 in that 23 required at each point of pedestrian egress. And 24 bundle. Then we also added a whole new panel for 24 being that Boiler Number 1 and Number 2 would 25 above Boiler Number 1 and 2, for all five boilers, 25 require two means of exit out the boiler room for

	Page 34		Page 35
1	the size of the boilers, I see the e-stop at one	1	
2	of those locations, but being that it's a	2	MR. BAUGHMAN: So being a
3	requirement to have two means of exit out the	3	pass-through, what does that exactly mean, just
4	boiler room, the only other means of exit out of	4	to
5	boiler room that houses Number 1 and 2 looks to be	5	MR. TOTH: It's just open.
6	over in the mechanical room at that exit; is that	6	MR. BAUGHMAN: Just open?
7	correct?	7	MR. TOTH: It's open. In the
8	MR. TOTH: No, it's not.	8	middle, if you look to the left of where it reads
9	MR. BAUGHMAN: Okay.	9	boiler room, that's a column. And it's just a
10	MR. TOTH: As I mentioned to	10	simple pass-through step-up that goes into that
11	Dr. Hargrove, it appears in the illustration that	11	space.
12	that is a wall. But if you'll notice, that is a	12	MR. BAUGHMAN: So actually, where
13	one-line versus a two-line illustration. For a	13	Boiler Number 1 and Number 2 is, there's a
14	solid wall, you would see a double line. That is	14	pass-through there with a column and a door there
15	a pass-through.	15	also?
16	MR. BAUGHMAN: Okay. Yeah, just	16	MR. TOTH: No.
17	hard to tell. But thank you for that explanation.	17	MR. BAUGHMAN: Okay. So there is
18	MR. BOWERS: I was wondering the	18	no
19	same thing.	19	MR. TOTH: No. Just a
20	MR. TOTH: Yes. I would say to	20	pass-through.
20	take that illustration from their drawings and	20	MR. BAUGHMAN: Just a pass-through.
22	remove that line probably would be a good idea.	22	Okay.
23	Just for architectural sake, the double line	23	MR. TOTH: If there were a door,
23	represents a wall, be it a load-bearing or	23	there would be a door illustration, as you see, a
	pedestrian. A single line represents a	25	swing-in or a swing-out, and there's not.
23	pedestrian. A single time represents a	23	swing-in or a swing-out, and there's not.
	Page 36		
1		1	Page 37
1	MR. BAUGHMAN: Very good. And that		boilers, correct?
2	MR. BAUGHMAN: Very good. And that pass-through opens up into the and I'm sorry.	2	boilers, correct? MR. TOTH: No. You have individual
2	MR. BAUGHMAN: Very good. And that pass-through opens up into the and I'm sorry. I just don't have my stronger glasses on.	2 3	boilers, correct? MR. TOTH: No. You have individual e-stops for each boiler. There's no requirement
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	Page 38		Page 39
1	at this time for the NBIC in the state of	1	
2	Tennessee.	2	So when we say if we want to say
3	CHAIRMAN MORELOCK: Other	3	are we testing the boiler water column, is that a
4	questions? Comments?	4	part or requirement to spell that out in the code
5	MR. BAUGHMAN: Yes.	5	book or in the manual? I don't see where
6	CHAIRMAN MORELOCK: Okay.	6	that's necessarily a requirement to actually spell
7	MR. BAUGHMAN: Under Appendix J,	7	out what we are going to test. We're saying we
8	page 41, Item 36 (b), "Does the Manual include a	8	are going to test the limits.
9	test of: (a), (b), (c), (d), but in particular,	9	The operations of that boiler on a
10	(b), water column, and it identifies for that	10	daily basis, per their operation logs, calls for
11	is that Section 4, Part 3, page 10?	11	them to do a low-water test of each boiler and
12	MR. TOTH: That's what it reads.	12	operation.
13	MR. BAUGHMAN: Okay. Could you	13	To spell that out in our code, we are
14	identify where in Section 4, Part 3, page 10	14	spelling it out by saying we are testing those
15	that's addressed?	15	limits.
16	MR. TOTH: What we are referring	16	MR. BAUGHMAN: Okay. Well, I'll
17	to, when we talk do we include all of the	17	come back to that. In our manual, in specific,
18	system requirements? That is in normal	18	does the manual include a test of (a), (b), (c),
19	operations. Now, if you are when you talk	19	and (d), and (b) being the water column
20	about normal duties, normal operations, we're also	20	MR. TOTH: I would be more than
21	referring to how we're going to test the system	21	happy to change that to "N/A" if you would like.
22	when we test the communications. How we do that	22	MR. BAUGHMAN: Sure. Because you
23	is by performing either a test of the boiler	23	do put a reference to it in the manual, going back
24	limits or by manual means at the control. So that	24	to that Section 4, page 10, Part 3 but
25	is where we are actually testing those limits or	25	there's nothing that's there. So we're saying
			Dage 41
1	Page 40 it's not so what I'm saying is it's part of the	1	Page 41 necessarily tell them how to do it. Because then
2	manual and you're saying		we shift liability to ourselves if we tell them
3	MR. TOTH: I'm saying it is because		how to do it. We just tell them they need to test
4	I'm using the terminology "testing limits."		5
		4	their boilers. Just like the ASME code will tell
5	MR. BAUGHMAN: Okay.	4	their boilers. Just like the ASME code will tell you what you need to do, but it's not going to
5 6		5	you what you need to do, but it's not going to
6	MR. BAUGHMAN: Okay. MR. TOTH: Which includes above and		you what you need to do, but it's not going to tell you how to do that.
6	MR. BAUGHMAN: Okay. MR. TOTH: Which includes above and beyond testing the water column.	5 6	you what you need to do, but it's not going to tell you how to do that. MR. TOTH: Mr. Chairman, if I may
6 7	MR. BAUGHMAN: Okay. MR. TOTH: Which includes above and	5 6 7	you what you need to do, but it's not going to tell you how to do that. MR. TOTH: Mr. Chairman, if I may interject. I agree with what Mr. Baughman is
6 7 8	MR. BAUGHMAN: Okay. MR. TOTH: Which includes above and beyond testing the water column. MR. BAUGHMAN: Okay. Right. But	5 6 7 8	you what you need to do, but it's not going to tell you how to do that. MR. TOTH: Mr. Chairman, if I may
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	Page 42		Page 43
1	CHAIRMAN MORELOCK: Exactly.	1	I can assure you my clients are not only
2	MR. TOTH: I'm sorry, 36(d)?	2	documentation of those particular tasks; they're
3	CHAIRMAN MORELOCK: And you're	3	also trained, specifically, on those tests and
4	going to I mean, our previous manuals have not	4	those requirements.
5	required that level of detail.	5	But, again, I go back to whatever
6	MR. TOTH: All right. But again	6	this board would like to see in this manual, I'll
7	CHAIRMAN MORELOCK: So it'll be a	7	be more than happy to spell it out. That does not
8	retroactive change for everybody.	8	necessarily mean that every one of those checks
9	MR. TOTH: Right. The one thing	9	are going to be made at every opportunity at the
10	that I would like for us all to recognize is just	10	beginning of every shift.
11	as you had mentioned, Mr. Chairman, is that the	11	CHAIRMAN MORELOCK: So in the
12	testing is the responsibility of the owner-user	12	future manuals, as we get to looking at some
13	and how they test.	13	others, you do specifically address water column.
14	NFPA 85 CSD-1 are going to require	14	MR. TOTH: Oh, I do.
15	tests. They're going to require that the	15	MR. BAUGHMAN: Yeah. And so
16	owner-user provide a checklist of those tests that	16	it's but if we're going to change
17	are being performed. What this manual and what	17	MR. TOTH: Well, I
18	these manuals are going to look for is the	18	MR. BAILEY: One at a time.
19	communication. What is that communication? That	19	MR. BAUGHMAN: So
20	hardwired communication that's going from that	20	MR. TOTH: If I may interject.
21	particular boiler to the remote station and how	21	MR. BAUGHMAN: Interject.
22	that's performed. It does not stipulate nor does	22	MR. TOTH: I specifically addressed
23	it read anywhere that you have to do a limit check	23	low-water cutoff checks. I do not specifically
24	to test that communication. Is it best practice?	24	address water columns.
	Absolutely. Absolutely, to perform those tests.	25	Sorry about that.
	Page 44		Page 45
1	Page 44 MR. BAILEY: No problem.	1	Page 45 MR. TOTH: Can I respond to that?
1 2	MR. BAILEY: No problem.	1 2	MR. TOTH: Can I respond to that?
2	MR. BAILEY: No problem. MR. BAUGHMAN: And so to further that, we go through tests of the limits, but in	2	MR. TOTH: Can I respond to that? MR. BOWERS: Well, the problem I have, we don't want to as a board, we don't
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2 3 4	MR. BAILEY: No problem. MR. BAUGHMAN: And so to further that, we go through tests of the limits, but in Section 4, page 10, Item (b), let's see. Section 4, page 10, Item (b), the question I had	2 3 4	MR. TOTH: Can I respond to that? MR. BOWERS: Well, the problem I have, we don't want to as a board, we don't want to overreach, and we don't want to tell people how to do their jobs. We have the NBIC.
2 3 4 5 6	MR. BAILEY: No problem. MR. BAUGHMAN: And so to further that, we go through tests of the limits, but in Section 4, page 10, Item (b), let's see. Section 4, page 10, Item (b), the question I had was there's an alarm test feature in other	2 3 4 5 6	MR. TOTH: Can I respond to that? MR. BOWERS: Well, the problem I have, we don't want to as a board, we don't want to overreach, and we don't want to tell people how to do their jobs. We have the NBIC. We have the ASME. We've got all these codes to
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	Page 46		Page 47
1	of that flame failure or anything of that	1	the shift, the personnel should meet to discuss
2	that's going to signal an alarm to the remote	2	"At the end of their shift, the boiler attendant
3	station, or they can do a communication check, as	3	should meet at the boiler to discuss the boiler's
4	I spell out here.	4	status, any operational information or alarms,
5	As to your suggestion, absolutely,	5	previous and it gets down to the changing of
6	boiler training, we agree with that. As a matter	6	the word "should" to "shall." I don't know if
7	of fact, this particular location, I went by I	7	what your thoughts are, but it leaves and I
8	was there yesterday and preparing to create their	8	agree, they should meet. And I don't know, we
9	boiler training program, taking video of the	9	really don't have a requirement that says "shall."
10	individual training, them going through the	10	And that can be for a future discussion, but it
11	processes, taking photographs. We went through	11	leaves to where nobody is being required to
12	the gamut of every one of those tests, including	12	communicate.
13	flame failure, gas pressure, combustion air	13	It's kind of almost like the old Bugs
14	pressure, low water, so on and so forth. So that	14	Bunny cartoon where the guy that's overlooking the
15	is something that, as you know very well, is	15	sheep and they're swapping and going by and saying
16	required in a boiler operator. But we're talking	16	how is your day and what have you. But there's no
17	about the communications here, and that's what	17	need for communication or no mandate for
18	we're doing.	18	communication. And I just think that what we're
19	MR. BAUGHMAN: Thank you very much	19	dealing with, potential catastrophic-event
20	for going through and answering these questions,	20	equipment, that communication is paramount.
21	Mr. Toth.	21	But I want to get your thoughts on
22	MR. TOTH: No problem.	22	the "should" and "shall."
23	MR. BAUGHMAN: So in Section 4,	23	MR. TOTH: Absolutely. Well, I can
24	page 8, Item (a), I believe I hope that's	24	give them to you in two different ways.
25	right there's a statement that at the end of	25	Number one, let's get an understanding of code
			D 40
1	Page 48 terminology. We'll call it code lingo, where when	1	Page 49 going to be easily regulated or required.
1 2	Page 48 terminology. We'll call it code lingo, where when you look in the code book and see the word	1 2	
	terminology. We'll call it code lingo, where when		going to be easily regulated or required. So our personal beliefs are one
2	terminology. We'll call it code lingo, where when you look in the code book and see the word	2	going to be easily regulated or required. So our personal beliefs are one thing, but, again, you're starting to get into how
2 3	terminology. We'll call it code lingo, where when you look in the code book and see the word "shall," it's a requirement. "Should" is only a	2 3	going to be easily regulated or required. So our personal beliefs are one thing, but, again, you're starting to get into how they should be operating. The way that we tie
2 3 4	terminology. We'll call it code lingo, where when you look in the code book and see the word "shall," it's a requirement. "Should" is only a recommendation unless the jurisdictional authority	2 3 4	going to be easily regulated or required. So our personal beliefs are one thing, but, again, you're starting to get into how
2 3 4 5	terminology. We'll call it code lingo, where when you look in the code book and see the word "shall," it's a requirement. "Should" is only a recommendation unless the jurisdictional authority or whoever is over that makes it a shall. And the	2 3 4 5	going to be easily regulated or required. So our personal beliefs are one thing, but, again, you're starting to get into how they should be operating. The way that we tie those two together is by a boiler log. That
2 3 4 5 6	terminology. We'll call it code lingo, where when you look in the code book and see the word "shall," it's a requirement. "Should" is only a recommendation unless the jurisdictional authority or whoever is over that makes it a shall. And the "may" is just purely recommendation.	2 3 4 5 6	going to be easily regulated or required. So our personal beliefs are one thing, but, again, you're starting to get into how they should be operating. The way that we tie those two together is by a boiler log. That boiler log is the communication piece. When
2 3 4 5 6 7	terminology. We'll call it code lingo, where when you look in the code book and see the word "shall," it's a requirement. "Should" is only a recommendation unless the jurisdictional authority or whoever is over that makes it a shall. And the "may" is just purely recommendation. And you'll see that in forwards of	2 3 4 5 6	<pre>going to be easily regulated or required. So our personal beliefs are one thing, but, again, you're starting to get into how they should be operating. The way that we tie those two together is by a boiler log. That boiler log is the communication piece. When somebody takes on a shift when we're talking</pre>
2 3 4 5 6 7 8	<pre>terminology. We'll call it code lingo, where when you look in the code book and see the word "shall," it's a requirement. "Should" is only a recommendation unless the jurisdictional authority or whoever is over that makes it a shall. And the "may" is just purely recommendation. And you'll see that in forwards of code books all around the world. My personal</pre>	2 3 4 5 6 7 8	<pre>going to be easily regulated or required.</pre>
2 3 4 5 6 7 8 9	<pre>terminology. We'll call it code lingo, where when you look in the code book and see the word "shall," it's a requirement. "Should" is only a recommendation unless the jurisdictional authority or whoever is over that makes it a shall. And the "may" is just purely recommendation.</pre>	2 3 4 5 6 7 8 9	<pre>going to be easily regulated or required.</pre>
2 3 4 5 6 7 8 9 10	terminology. We'll call it code lingo, where when you look in the code book and see the word "shall," it's a requirement. "Should" is only a recommendation unless the jurisdictional authority or whoever is over that makes it a shall. And the "may" is just purely recommendation. And you'll see that in forwards of code books all around the world. My personal belief in how I advise my clients and train my clients is, absolutely, we do a swap over. I'm an	2 3 4 5 6 7 8 9 10	<pre>going to be easily regulated or required. So our personal beliefs are one thing, but, again, you're starting to get into how they should be operating. The way that we tie those two together is by a boiler log. That boiler log is the communication piece. When somebody takes on a shift when we're talking about a boiler attendant/boiler operator takes on a shift, their responsibility is to report to boiler room and take readings. Those readings are</pre>
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	Page 50		Page 51
1	scrutiny. Nothing has changed in this manual that	1	no specific identification. I've got, under the
2	was not spoke upon in March, including the	2	emergency call list, an engineering department
3	questions that are being asked now. I'll be more	3	boiler attendant. But then I've also got team
4	than happy to reiterate what I did back in March,	4	leader, facility service manager; and I don't know
5	which is there are three individuals in that room;	5	what's actually classified under engineering
6	it is manned 24/7.	6	department or non-engineering department.
7	MR. BAUGHMAN: And I appreciate	7	MR. TOTH: Well, if you would,
8	that, Mr. Toth. And yes, there's questions that	8	Mr. Baughman, if you'll take a look on page 21,
9	do come up over reevaluation and going in. I know	9	you'll see an organizational chart. The
10	we did pass it, but upon reading in more detail,	10	organizational chart shows the corporate director
11	questions do come up, whether myself or others.	11	of engineering and the hierarchy of the
12	The other question I have is there's	12	individuals that fall under engineering. And then
13	a description that describes non-engineering	13	there's a communication line that goes over to the
14	department personnel of the engineering	14	safety director and the safety dispatchers that
15	department. And I don't this is, I believe	15	are located in the PBX. Those would be classified
16	it's under Section 5 let's see. Well, I wrote	16	as your "non."
17	down 5(a), but that, I believe, is under	17	-
	Section 4, page 11, under Restart Procedure.	18	CHAIRMAN MORELOCK: Well, and while we're looking at the organization chart, we did
18 19	There's a note that says "Non-Engineering	19	ask, in March, to delineate on your org chart
20	Department Boiler Attendants shall not attempt to	20	who's the remote attendant and who's the boiler
20	restart a boiler."	20	attendant for clarity, that we're actually
22	My only clarification was there's no	21	discussing right now. So if you'll add that, I
23			
	identification. We make an assumption of who is	23 24	think that will help your org chart.
24 25	engineering and non-engineering, senior lead tech, maintenance lead techs and so forth. But there's	24	MR. TOTH: Sorry for omitting that. MR. BAUGHMAN: One note that I made
25	Maintenance read techs and so forth. But there s	25	MR. BAUGHMAN. One note that I hade
1	Page 52	1	Page 53
1	was under the senior facility service tech job	1	panels or who built the remote panel for this
2	was under the senior facility service tech job description. It shows him interfacing with	2	panels or who built the remote panel for this project?
2	was under the senior facility service tech job description. It shows him interfacing with elevator inspectors and elevator maintenance	2 3	panels or who built the remote panel for this project? MR. TOTH: Boiler Supply Company.
2 3 4	was under the senior facility service tech job description. It shows him interfacing with elevator inspectors and elevator maintenance personnel, but it does not that will be on	2 3 4	panels or who built the remote panel for this project? MR. TOTH: Boiler Supply Company. MR. BAUCHMAN: Boiler Supply.
2 3 4 5	was under the senior facility service tech job description. It shows him interfacing with elevator inspectors and elevator maintenance personnel, but it does not that will be on page 29, Number 2 interfaces with elevator	2 3 4 5	panels or who built the remote panel for this project? MR. TOTH: Boiler Supply Company. MR. BAUCHMAN: Boiler Supply. Thank you.
2 3 4 5 6	was under the senior facility service tech job description. It shows him interfacing with elevator inspectors and elevator maintenance personnel, but it does not that will be on page 29, Number 2 interfaces with elevator maintenance contractor and elevator inspector to	2 3 4 5 6	panels or who built the remote panel for this project? MR. TOTH: Boiler Supply Company. MR. BAUGHMAN: Boiler Supply. Thank you. CHAIRMAN MORELOCK: Any other
2 3 4 5 6 7	was under the senior facility service tech job description. It shows him interfacing with elevator inspectors and elevator maintenance personnel, but it does not that will be on page 29, Number 2 interfaces with elevator maintenance contractor and elevator inspector to assure elevators operate, but it left out boilers,	2 3 4 5 6 7	panels or who built the remote panel for this project? MR. TOTH: Boiler Supply Company. MR. BAUGHMAN: Boiler Supply. Thank you. CHAIRMAN MORELOCK: Any other questions or comments?
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2 3 4 5 6 7 8 9 10 11	<pre>was under the senior facility service tech job description. It shows him interfacing with elevator inspectors and elevator maintenance personnel, but it does not that will be on page 29, Number 2 interfaces with elevator maintenance contractor and elevator inspector to assure elevators operate, but it left out boilers, so MR. TOTH: Maybe they don't. MR. BAUGHMAN: Okay. MR. TOTH: I mean, it's maybe</pre>	2 3 4 5 6 7 8 9 10 11	<pre>panels or who built the remote panel for this project?</pre>
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MR. BAUGHMAN: And that was 3 that utility building. They are -- at this 4 current time, they are operating two high-pressure 4 approval upon inspection. CHAIRMAN MORELOCK: Yes. It's 5 boilers. 6 always contingent on inspection, yes. So it's б Before we get deeper into that, we 7 always a contingent approval. 7 did have a couple editorial changes I would like Okay. Moving on to our next old 8 to bring to the board's attention, if you would. 9 business item, which is 19-17. Nokian Tyres is 9 One of which is, prior to printing, we did not 10 requesting a variance for two high-pressure 10 have the boiler Tennessee numbers. Let's go ahead 11 and, if we would, take a look at page 11. So come forward, introduce 12 MS. BENNETT: Excuse me. 13 yourselves, and present your variance request. 13 Mr. Morelock, did you ask for conflicts? Are there any conflicts on this item? 14 CHAIRMAN MORELOCK: I did. (No verbal response.) 15 MS. BENNETT: Okay. I'm sorry. I MR. TRAUNERO: For Nokian Tyres, 16 missed it. 17 Matt Traunero, utilities engineer. 17 CHAIRMAN MORELOCK: Dr. Hargrove MR. TOTH: Marty Toth with ECS 18 reminded me and I did it. MS. BENNETT: Okay. Thank you. 19 Consulting. 19 Mr. Chairman and members of the 20 I'm sorry to interrupt. 21 board, thank you again. I'm very happy to be able 21 MR. TOTH: So under page 11, Boiler 22 to present this manual for Nokian Tyres. As you 22 Number 1, the Tennessee number is, T127466. And 23 will see, Nokian Tyre has a very unique operation, 23 Boiler Number 2 is T127465, which I may add has 24 which is really exciting. 24 caused some distress to my counterpart next to me Nokian Tyres' operation has its own 25 because Boiler Number 1 ends in 6 and Number 2

Page 54

1 aye.

6 Not voting?

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Page 56

1 with the revisions, and then we'll go through the

4 they've been good running the 20-minute rule on

(No verbal response.)

12 have a motion to approve this revision to an

14 contingent on a successful site visit by the

15 Boiler Unit, and any comments made during this

MR. BOWERS: Second.

(No verbal response.)

25 I'm going to call the question. All in favor say

1 the boiler attendant variance is in place. \bar{so}

2 it's in there. All right. Thank you very much.

13 existing variance to add this fifth boiler

16 review by the Tennessee Board?

CHAIRMAN MORELOCK: Okay. And

MR. TOTH: They have, yes.

CHAIRMAN MORELOCK: Okay. All

Any other questions or comments?

CHAIRMAN MORELOCK: If not, do I

DR. HARGROVE: Motion to approve.

CHAIRMAN MORELOCK: Okay. Do I

CHAIRMAN MORELOCK: Any other

CHAIRMAN MORELOCK: Hearing none,

2 process.

5 that?

8 right. Thank you.

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11 boilers.

19 have a second?

22 questions or comments?

54..57

Page 55

Page 57

(Affirmative response.)

(No verbal response.)

(No verbal response.)

13 who is considered a boiler attendant and a remote

14 station on your org chart. Because when people go

MR. TOTH: Okay.

15 out and look at it, they're, like, you know --

20 changes that I mentioned, adding the new

23 Mr. Baughman's question, if you do look on

24 page 29, Appendix G, it tells you that that person

1 utility building. The utility building is manned

2 by two utility operators that are responsible for

25 does serve as a certified boiler attendant while

9 have five boilers in your variance now.

11 the only editorial change was...

18 you get the questions.

21 information.

CHAIRMAN MORELOCK: Opposed?

CHAIRMAN MORELOCK: Abstentions,

CHAIRMAN MORELOCK: Mr. Toth, you

MR. TOTH: Great. So if I may ask,

CHAIRMAN MORELOCK: So that's where

CHAIRMAN MORELOCK: Yes. But about

MR. TOTH: And then the editorial

CHAIRMAN MORELOCK: To delineate

1	Page 58 ends in 5. But he'll be okay.	1	Page 59 actually utility. And then that carries over to
2	And the set pressures for these		page 27 under boiler attendant, utility operator.
3	boilers are 292 psi. So as you can see, Nokian	3	And we will make sure that that is searched
4	Tyres, you can imagine what they do. They make a	4	through completely before we get a final copy for
5	very nice product. I will let Matt kind of take	5	inspection.
6	you through their operations, give you a little	6	CHAIRMAN MORELOCK: So excuse
7	bit of oversight on that, and then I'll get back	7	me, Mr. Toth. So on page 22, the title is
8	into the equipment.	8	utilities operator?
9	MR. TRAUNERO: Nokian Tyres is a	9	MR. TOTH: Utility operator.
10	Finnish-based tire manufacturer. This facility is	10	CHAIRMAN MORELOCK: Utility
11	their first U.S. factory with hopes for expansion	11	operator. And you also have a typo in operator.
12	in the future. We consider ourselves to have a	12	MR. TOTH: Thanks. I will make
13	very safe culture, a culture very focused on	13	sure and correct that as well.
14	quality and on environmental and sustainability	14	CHAIRMAN MORELOCK: Thank you.
15	concerns. We have a plant atmosphere that is very	15	MR. TOTH: So if we take a look,
			just to kind of touch on, back on page 12, looking
16 17	safety oriented, and a very close-knit group. MR. TOTH: Okay. So if we go to	16 17	at these boilers, a beautiful boiler operations
18	page 12, the deaerator, we have the Tennessee	18	setup here, we have two boilers that have an MAWP,
19	number that's placed on that is T127463.	19	maximum allowable working pressure, of 325 psi.
20	We'll look over on page 15. There	20	We also are utilizing Hawk 4000 systems on these
21	was, obviously, a printing error that came from	21	boilers with a master panel. As I mentioned in
22	the printer that way when these were sent out.	22	the letter, the request letter, the thought is to
23	That will be revised.	23	expand as we go. There's plenty of room in the
24	And then, also, if you look on	24	boiler room itself for two more boilers of this
25		25	type. I was very happy I was able to go by and
	page 11, the citie 15 activities operator. It 5		
	Page 60		Page 61
1	Page 60 meet with Matt at the plant again just to verify	1	Page 61 as well.
1 2	3	1 2	
	meet with Matt at the plant again just to verify		as well.
2	meet with Matt at the plant again just to verify that we are ready, which we are. So once we get	2	as well. As you can see, though this is a very
2 3	meet with Matt at the plant again just to verify that we are ready, which we are. So once we get through this process, we would be requesting for	2 3	as well. As you can see, though this is a very large building that houses a lot of equipment, the
2 3 4	meet with Matt at the plant again just to verify that we are ready, which we are. So once we get through this process, we would be requesting for an inspection in the very near future.	2 3 4	as well. As you can see, though this is a very large building that houses a lot of equipment, the e-stop panels, we actually have four separate
2 3 4 5	meet with Matt at the plant again just to verify that we are ready, which we are. So once we get through this process, we would be requesting for an inspection in the very near future. One of the things that you will also	2 3 4 5	as well. As you can see, though this is a very large building that houses a lot of equipment, the e-stop panels, we actually have four separate e-stop panels outside of the boiler room just in
2 3 4 5 6 7	<pre>meet with Matt at the plant again just to verify that we are ready, which we are. So once we get through this process, we would be requesting for an inspection in the very near future. One of the things that you will also see is that we do have a very large deaerator.</pre>	2 3 4 5 6 7	as well. As you can see, though this is a very large building that houses a lot of equipment, the e-stop panels, we actually have four separate e-stop panels outside of the boiler room just in case the utility operator is in any of these
2 3 4 5 6 7	<pre>meet with Matt at the plant again just to verify that we are ready, which we are. So once we get through this process, we would be requesting for an inspection in the very near future.</pre>	2 3 4 5 6 7	as well. As you can see, though this is a very large building that houses a lot of equipment, the e-stop panels, we actually have four separate e-stop panels outside of the boiler room just in case the utility operator is in any of these zones. And we're giving the distance from the
2 3 4 5 6 7 8	<pre>meet with Matt at the plant again just to verify that we are ready, which we are. So once we get through this process, we would be requesting for an inspection in the very near future.</pre>	2 3 4 5 6 7 8	as well. As you can see, though this is a very large building that houses a lot of equipment, the e-stop panels, we actually have four separate e-stop panels outside of the boiler room just in case the utility operator is in any of these zones. And we're giving the distance from the boiler room to each of these panels.
2 3 4 5 6 7 8 9	<pre>meet with Matt at the plant again just to verify that we are ready, which we are. So once we get through this process, we would be requesting for an inspection in the very near future.</pre>	2 3 4 5 6 7 8 9	as well. As you can see, though this is a very large building that houses a lot of equipment, the e-stop panels, we actually have four separate e-stop panels outside of the boiler room just in case the utility operator is in any of these zones. And we're giving the distance from the boiler room to each of these panels. And as you can see, I went through
2 3 4 5 6 7 8 9 10	<pre>meet with Matt at the plant again just to verify that we are ready, which we are. So once we get through this process, we would be requesting for an inspection in the very near future. One of the things that you will also see is that we do have a very large deaerator. Again, it's not technically part of the process, but it is it has been inspected and has been registered. If you will flip back over to</pre>	2 3 4 5 6 7 8 9 10	as well. As you can see, though this is a very large building that houses a lot of equipment, the e-stop panels, we actually have four separate e-stop panels outside of the boiler room just in case the utility operator is in any of these zones. And we're giving the distance from the boiler room to each of these panels. And as you can see, I went through and did a decibel reading throughout the entire
2 3 4 5 6 7 8 9 10 11	<pre>meet with Matt at the plant again just to verify that we are ready, which we are. So once we get through this process, we would be requesting for an inspection in the very near future.</pre>	2 3 4 5 6 7 8 9 10 11	as well. As you can see, though this is a very large building that houses a lot of equipment, the e-stop panels, we actually have four separate e-stop panels outside of the boiler room just in case the utility operator is in any of these zones. And we're giving the distance from the boiler room to each of these panels. And as you can see, I went through and did a decibel reading throughout the entire building to verify that the e-stops that we are
2 3 4 5 6 7 8 9 10 11 12	<pre>meet with Matt at the plant again just to verify that we are ready, which we are. So once we get through this process, we would be requesting for an inspection in the very near future.</pre>	2 3 4 5 6 7 8 9 10 11 12	as well. As you can see, though this is a very large building that houses a lot of equipment, the e-stop panels, we actually have four separate e-stop panels outside of the boiler room just in case the utility operator is in any of these zones. And we're giving the distance from the boiler room to each of these panels. And as you can see, I went through and did a decibel reading throughout the entire building to verify that the e-stops that we are putting in are sufficient enough to hear over any
2 3 4 5 6 7 8 9 10 11 12 13	<pre>meet with Matt at the plant again just to verify that we are ready, which we are. So once we get through this process, we would be requesting for an inspection in the very near future.</pre>	2 3 4 5 6 7 8 9 10 11 12 13	as well. As you can see, though this is a very large building that houses a lot of equipment, the e-stop panels, we actually have four separate e-stop panels outside of the boiler room just in case the utility operator is in any of these zones. And we're giving the distance from the boiler room to each of these panels. And as you can see, I went through and did a decibel reading throughout the entire building to verify that the e-stops that we are putting in are sufficient enough to hear over any equipment operations.
2 3 4 5 6 7 8 9 10 11 12 13 14	<pre>meet with Matt at the plant again just to verify that we are ready, which we are. So once we get through this process, we would be requesting for an inspection in the very near future.</pre>	2 3 4 5 6 7 8 9 10 11 12 13 14	as well. As you can see, though this is a very large building that houses a lot of equipment, the e-stop panels, we actually have four separate e-stop panels outside of the boiler room just in case the utility operator is in any of these zones. And we're giving the distance from the boiler room to each of these panels. And as you can see, I went through and did a decibel reading throughout the entire building to verify that the e-stops that we are putting in are sufficient enough to hear over any equipment operations. I would also like to add that there
2 3 4 5 6 7 8 9 10 11 12 13 14 15	<pre>meet with Matt at the plant again just to verify that we are ready, which we are. So once we get through this process, we would be requesting for an inspection in the very near future.</pre>	2 3 4 5 6 7 8 9 10 11 12 13 14 15	as well. As you can see, though this is a very large building that houses a lot of equipment, the e-stop panels, we actually have four separate e-stop panels outside of the boiler room just in case the utility operator is in any of these zones. And we're giving the distance from the boiler room to each of these panels. And as you can see, I went through and did a decibel reading throughout the entire building to verify that the e-stops that we are putting in are sufficient enough to hear over any equipment operations. I would also like to add that there is communications between these two utility
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	<pre>meet with Matt at the plant again just to verify that we are ready, which we are. So once we get through this process, we would be requesting for an inspection in the very near future.</pre>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	as well. As you can see, though this is a very large building that houses a lot of equipment, the e-stop panels, we actually have four separate e-stop panels outside of the boiler room just in case the utility operator is in any of these zones. And we're giving the distance from the boiler room to each of these panels. And as you can see, I went through and did a decibel reading throughout the entire building to verify that the e-stops that we are putting in are sufficient enough to hear over any equipment operations. I would also like to add that there is communications between these two utility operators by way of a radio system. At no time
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	<pre>meet with Matt at the plant again just to verify that we are ready, which we are. So once we get through this process, we would be requesting for an inspection in the very near future.</pre>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	as well. As you can see, though this is a very large building that houses a lot of equipment, the e-stop panels, we actually have four separate e-stop panels outside of the boiler room just in case the utility operator is in any of these zones. And we're giving the distance from the boiler room to each of these panels. And as you can see, I went through and did a decibel reading throughout the entire building to verify that the e-stops that we are putting in are sufficient enough to hear over any equipment operations. I would also like to add that there is communications between these two utility operators by way of a radio system. At no time during the shift will there not be a utility
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	<pre>meet with Matt at the plant again just to verify that we are ready, which we are. So once we get through this process, we would be requesting for an inspection in the very near future.</pre>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	as well. As you can see, though this is a very large building that houses a lot of equipment, the e-stop panels, we actually have four separate e-stop panels outside of the boiler room just in case the utility operator is in any of these zones. And we're giving the distance from the boiler room to each of these panels. And as you can see, I went through and did a decibel reading throughout the entire building to verify that the e-stops that we are putting in are sufficient enough to hear over any equipment operations. I would also like to add that there is communications between these two utility operators by way of a radio system. At no time during the shift will there not be a utility operator in the boiler room or excuse me in
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	<pre>meet with Matt at the plant again just to verify that we are ready, which we are. So once we get through this process, we would be requesting for an inspection in the very near future.</pre>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	as well. As you can see, though this is a very large building that houses a lot of equipment, the e-stop panels, we actually have four separate e-stop panels outside of the boiler room just in case the utility operator is in any of these zones. And we're giving the distance from the boiler room to each of these panels. And as you can see, I went through and did a decibel reading throughout the entire building to verify that the e-stops that we are putting in are sufficient enough to hear over any equipment operations. I would also like to add that there is communications between these two utility operators by way of a radio system. At no time during the shift will there not be a utility operator in the boiler room or excuse me in the utility building. So they will be in vicinity
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	<pre>meet with Matt at the plant again just to verify that we are ready, which we are. So once we get through this process, we would be requesting for an inspection in the very near future.</pre>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	as well. As you can see, though this is a very large building that houses a lot of equipment, the e-stop panels, we actually have four separate e-stop panels outside of the boiler room just in case the utility operator is in any of these zones. And we're giving the distance from the boiler room to each of these panels. And as you can see, I went through and did a decibel reading throughout the entire building to verify that the e-stops that we are putting in are sufficient enough to hear over any equipment operations. I would also like to add that there is communications between these two utility operators by way of a radio system. At no time during the shift will there not be a utility operator in the boiler room or excuse me in the utility building. So they will be in vicinity of all the remote panels or personally in the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	<pre>meet with Matt at the plant again just to verify that we are ready, which we are. So once we get through this process, we would be requesting for an inspection in the very near future.</pre>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	as well. As you can see, though this is a very large building that houses a lot of equipment, the e-stop panels, we actually have four separate e-stop panels outside of the boiler room just in case the utility operator is in any of these zones. And we're giving the distance from the boiler room to each of these panels. And as you can see, I went through and did a decibel reading throughout the entire building to verify that the e-stops that we are putting in are sufficient enough to hear over any equipment operations. I would also like to add that there is communications between these two utility operators by way of a radio system. At no time during the shift will there not be a utility operator in the boiler room or excuse me in the utility building. So they will be in vicinity of all the remote panels or personally in the boiler room itself. If for some reason there is a
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<pre>meet with Matt at the plant again just to verify that we are ready, which we are. So once we get through this process, we would be requesting for an inspection in the very near future.</pre>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	as well. As you can see, though this is a very large building that houses a lot of equipment, the e-stop panels, we actually have four separate e-stop panels outside of the boiler room just in case the utility operator is in any of these zones. And we're giving the distance from the boiler room to each of these panels. And as you can see, I went through and did a decibel reading throughout the entire building to verify that the e-stops that we are putting in are sufficient enough to hear over any equipment operations. I would also like to add that there is communications between these two utility operators by way of a radio system. At no time during the shift will there not be a utility operator in the boiler room or excuse me in the utility building. So they will be in vicinity of all the remote panels or personally in the boiler room itself. If for some reason there is a situation that occurs outside of the utility
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<pre>meet with Matt at the plant again just to verify that we are ready, which we are. So once we get through this process, we would be requesting for an inspection in the very near future.</pre>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	as well. As you can see, though this is a very large building that houses a lot of equipment, the e-stop panels, we actually have four separate e-stop panels outside of the boiler room just in case the utility operator is in any of these zones. And we're giving the distance from the boiler room to each of these panels. And as you can see, I went through and did a decibel reading throughout the entire building to verify that the e-stops that we are putting in are sufficient enough to hear over any equipment operations. I would also like to add that there is communications between these two utility operators by way of a radio system. At no time during the shift will there not be a utility operator in the boiler room or excuse me in the utility building. So they will be in vicinity of all the remote panels or personally in the boiler room itself. If for some reason there is a situation that occurs outside of the utility building that requires one of the utility

	Page 62		Page 63
1	second operator informing them that they will be	1	plan?
2	out of the utility building and the expected	2	MR. BOWERS: Yes, the site plan on
3	return.	3	page 10. He has to go through a locked door to
4	If at any time during that period	4	get to the boilers? Is that
5	there is an alarm on the boilers, the procedure	5	MR. TOTH: He would have to come
6	that's taught to the attendant is to activate a	6	outside. There's a pedestrian door there. That
7	remote panel on the affected boiler, communicate	7	pedestrian door then follows over to the boiler
8	to the second utility operator. At that time,	8	room. And the reason for that is because the
9	that second utility operator is to report	9	level of safety that this company has. They do
10	immediately to the utility building. The utility	10	not want individuals they do not want to
11	operators do not leave the campus of the plant at	11	utilize their electrical panel room as a
12	any time during their shifts.	12	pass-through. So in the design, it is those
13	I'm open to any questions you may	13	doors remain locked. To access the boiler room,
14	have.	14	it's simply just a walk-through from one door into
15	CHAIRMAN MORELOCK: Do I have a	15	the next.
16	motion to discuss?	16	MR. BOWERS: So if he's in that
17	MR. BOWERS: I make a motion to	17	room, he would have to go outside to come in to
18	discuss.	18	look at the boilers.
19	MR. BAUGHMAN: Second.	19	MR. TOTH: Yes. And that's their
20	CHAIRMAN MORELOCK: Okay. What	20	normal operation of going through, all the way
21	questions/comments do you have?	21	over to the pump room at the far end of building,
22	MR. BOWERS: From the diagram where	22	checking the fire pumps to checking the chillers,
23	the operator I guess it's an operator room? Is	23	and checking the compressor systems. And that's
24	that	24	what I really like about the way Nokian did this
25	MR. TOTH: Are we saying the site	25	and set this up, is they have a dedicated building
	Dago 64		Dago 65
1	Page 64 just for that so they're able to be efficient and	1	Page 65 contacted?
1 2	just for that so they're able to be efficient and	1	-
	3		contacted?
2	just for that so they're able to be efficient and to be able to cover that space very well	2	contacted? MR. TRAUNERO: They will reach out
2 3	just for that so they're able to be efficient and to be able to cover that space very well throughout the day.	2 3	contacted? MR. TRAUNERO: They will reach out to the production supervisor or lead personnel
2 3 4	just for that so they're able to be efficient and to be able to cover that space very well throughout the day. MR. BOWERS: And just for my own curiosity, since they do have full-time operators,	2 3 4	contacted? MR. TRAUNERO: They will reach out to the production supervisor or lead personnel on excuse me within the curing department to inform them that there is a steam interruption
2 3 4 5	just for that so they're able to be efficient and to be able to cover that space very well throughout the day. MR. BOWERS: And just for my own	2 3 4 5	contacted? MR. TRAUNERO: They will reach out to the production supervisor or lead personnel on excuse me within the curing department to
2 3 4 5 6	just for that so they're able to be efficient and to be able to cover that space very well throughout the day. MR. BOWERS: And just for my own curiosity, since they do have full-time operators, why are they going after a variance?	2 3 4 5 6	contacted? MR. TRAUNERO: They will reach out to the production supervisor or lead personnel on excuse me within the curing department to inform them that there is a steam interruption going on for any potential production impact. DR. HARGROVE: So the contact
2 3 4 5 6 7	just for that so they're able to be efficient and to be able to cover that space very well throughout the day. MR. BOWERS: And just for my own curiosity, since they do have full-time operators, why are they going after a variance? MR. TOTH: Well, the reason is, is	2 3 4 5 6 7	contacted? MR. TRAUNERO: They will reach out to the production supervisor or lead personnel on excuse me within the curing department to inform them that there is a steam interruption going on for any potential production impact.
2 3 4 5 6 7 8	just for that so they're able to be efficient and to be able to cover that space very well throughout the day. MR. BOWERS: And just for my own curiosity, since they do have full-time operators, why are they going after a variance? MR. TOTH: Well, the reason is, is because they do have other duties within that	2 3 4 5 6 7 8	contacted? MR. TRAUNERO: They will reach out to the production supervisor or lead personnel on excuse me within the curing department to inform them that there is a steam interruption going on for any potential production impact. DR. HARGROVE: So the contact person is the production supervisor.
2 3 4 5 6 7 8 9	just for that so they're able to be efficient and to be able to cover that space very well throughout the day. MR. BOWERS: And just for my own curiosity, since they do have full-time operators, why are they going after a variance? MR. TOTH: Well, the reason is, is because they do have other duties within that utility building. If they were on the compressor	2 3 4 5 6 7 8 9	contacted? MR. TRAUNERO: They will reach out to the production supervisor or lead personnel on excuse me within the curing department to inform them that there is a steam interruption going on for any potential production impact. DR. HARGROVE: So the contact person is the production supervisor. MR. TRAUNERO: Yes.
2 3 4 5 6 7 8 9 10	just for that so they're able to be efficient and to be able to cover that space very well throughout the day. MR. BOWERS: And just for my own curiosity, since they do have full-time operators, why are they going after a variance? MR. TOTH: Well, the reason is, is because they do have other duties within that utility building. If they were on the compressor end of that building, which is one of the furthest	2 3 4 5 6 7 8 9 10	contacted? MR. TRAUNERO: They will reach out to the production supervisor or lead personnel on excuse me within the curing department to inform them that there is a steam interruption going on for any potential production impact. DR. HARGROVE: So the contact person is the production supervisor. MR. TRAUNERO: Yes. DR. HARGROVE: Okay. Is that for
2 3 4 5 6 7 8 9 10 11	just for that so they're able to be efficient and to be able to cover that space very well throughout the day. MR. BOWERS: And just for my own curiosity, since they do have full-time operators, why are they going after a variance? MR. TOTH: Well, the reason is, is because they do have other duties within that utility building. If they were on the compressor end of that building, which is one of the furthest ends, every 20 minutes they would, in essence, be	2 3 4 5 6 7 8 9 10 11	contacted? MR. TRAUNERO: They will reach out to the production supervisor or lead personnel on excuse me within the curing department to inform them that there is a steam interruption going on for any potential production impact. DR. HARGROVE: So the contact person is the production supervisor. MR. TRAUNERO: Yes. DR. HARGROVE: Okay. Is that for that particular region or for the plant itself?
2 3 4 5 6 7 8 9 10 11 12	just for that so they're able to be efficient and to be able to cover that space very well throughout the day. MR. BOWERS: And just for my own curiosity, since they do have full-time operators, why are they going after a variance? MR. TOTH: Well, the reason is, is because they do have other duties within that utility building. If they were on the compressor end of that building, which is one of the furthest ends, every 20 minutes they would, in essence, be required to go into the boiler room, would they	2 3 4 5 6 7 8 9 10 11 12	contacted? MR. TRAUNERO: They will reach out to the production supervisor or lead personnel on excuse me within the curing department to inform them that there is a steam interruption going on for any potential production impact. DR. HARGROVE: So the contact person is the production supervisor. MR. TRAUNERO: Yes. DR. HARGROVE: Okay. Is that for that particular region or for the plant itself? MR. TRAUNERO: For that particular
2 3 4 5 6 7 8 9 10 11 12 13	just for that so they're able to be efficient and to be able to cover that space very well throughout the day. MR. BOWERS: And just for my own curiosity, since they do have full-time operators, why are they going after a variance? MR. TOTH: Well, the reason is, is because they do have other duties within that utility building. If they were on the compressor end of that building, which is one of the furthest ends, every 20 minutes they would, in essence, be required to go into the boiler room, would they not? So therefore, this allows them to be able to	2 3 4 5 6 7 8 9 10 11 12 13	contacted? MR. TRAUNERO: They will reach out to the production supervisor or lead personnel on excuse me within the curing department to inform them that there is a steam interruption going on for any potential production impact. DR. HARGROVE: So the contact person is the production supervisor. MR. TRAUNERO: Yes. DR. HARGROVE: Okay. Is that for that particular region or for the plant itself? MR. TRAUNERO: For that particular region, we only we have one department that is
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	Page 66		Page 67
1	MR. TRAUNERO: There's a supervisor	1	
2	on first shift that will have a radio, and then	2	But we'll be more than happy to specify that.
3	each shift will have a lead.	3	DR. HARGROVE: Yeah. Let's put
4	DR. HARGROVE: Okay.	4	them both in there. Thank you.
5	MR. TOTH: So would it be	5	CHAIRMAN MORELOCK: Any other
6	satisfactory to you, Dr. Hargrove, if we not just	6	questions and comments?
7	put supervisor, but supervisor, slash, lead,	7	MR. BOWERS: On steam interruption,
8	because as Mr. Traunero alluded to, the supervisor	8	how long before it would start affecting the
9	for that production is on the first shift with	9	product?
10	leads that have that responsibility for shift 2	10	MR. TRAUNERO: It's a matter of how
11	and 3.	11	many curing presses are running at a time. If
12	DR. HARGROVE: Well, I think that	12	there's not many presses running, it could take
13	the answer to that is who is notified regarding to	13	20 minutes. If we have a full line of presses
14	production?	14	going, it could be very few minutes to convert the
15	MR. TOTH: And I agree. And I	15	steam header and get that one to the point that
16	think that that's probably why we went with	16	it's affecting production.
17	"production," because the actual title of the	17	MR. TOTH: And as you will
18	individual changes from shift 1 to shift 2 and 3.	18	different than the previous variance with
19	So shift 1 is the supervisor that's over all of	19	Parkwest, Nokian Tyres has gone the route of one
20	production.	20	e-stop kills all boilers locally, which, as we
21	DR. HARGROVE: Okay.	21	would agree, is can be construed as a safer way
22	MR. TOTH: And they have almost	22	of doing it. But instead of going with separate
23	like assistant supervisors that they call leads	23	e-stops, they go with one e-stop.
24	that serve in that role during the second shift	24	So if we do have a situation that one
25	and the third shift. And that's why I think we	25	of the boilers of the two existing boilers right
-			
	Page 68		Page 69
	now goes down, they hit an e-stop, they're going	1	could be one boiler at a time or it could be both.
2	to lose production, which is fine by them,	2	
3	absolutely, because, again, their concentration is	3	boiler room.
4	heavily on safety.	4	MR. BAUGHMAN: Very good. And with
5	CHAIRMAN MORELOCK: Other	5	that, can you identify for me where the points of
6	questions?	6	egress are at within the boiler room?
7	MR. BAUGHMAN: Yes. Mr. Toth, it's	7	MR. TOTH: Sure. If you'll see,
8	just part of my age or what have you, but I have a	8	Mr. Baughman, from the legend at the bottom of the
9	hard time looking at the site plans and what's a	9	page, it indicates where the emergency stop
10	single line, double line, and so forth on it. So	10	buttons are. That is exactly where your points of
11	I would love to have bigger items to be able to	11	egress are in the boiler room, and then, also,
		12	where we included an extra e-stop that goes into
12	look at. But the question comes back down to the		
13	boiler room. And just identify for me where	13	the electrical room. But the points of egress are
13 14	boiler room. And just identify for me where Boiler 1 and 2 is, and, further, going into the	13 14	the electrical room. But the points of egress are those three existing locations.
13 14 15	boiler room. And just identify for me where Boiler 1 and 2 is, and, further, going into the future boilers, because I don't know if that's a	13 14 15	the electrical room. But the points of egress are those three existing locations. MR. BAUGHMAN: Very good. Now, the
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1	Page 70	1	Page 71
1	locked in the electrical room?	1	Fantastic. And the reason I come up with this is
2	MR. TRAUNERO: Yes.	2	the system where we had an incident back a few
3	MR. BAUGHMAN: Okay. Going to your	3	years ago within a DA, and so that's why the
4	feedwater system nice system, by the way is	4	questions I had yeah, it was using a different
5	this system all up and operational?	5	type of system. But I'm anticipating you're using
6	MR. TRAUNERO: Yes, it is.	6	modulating feedwater on these so that's where my
7	MR. BAUGHMAN: Okay. So everything	7	thought process was going on that. Very good.
8	is installed, ready to go.	8	Thank you, Mr. T Matthew.
9	MR. TRAUNERO: Yes, it is.	9	MR. TRAUNERO: That's fine.
10	MR. BAUGHMAN: What a blessing. On	10	CHAIRMAN MORELOCK: Any other
11	your feedwater system in this large DA, as steam	11	questions?
12	goes out through the system and is going through	12	(No verbal response.)
13	your equipment, how is it returning back as	13	CHAIRMAN MORELOCK: I just have a
14	condensate to the DA?	14	couple. Because of the way the building is
15	MR. TRAUNERO: The condensate being	15	designed, it's pretty unique. And so with a
16	returned to the DA is we actually have a	16	utility operator serving as a boiler attendant,
17	three-bar flash steam system to generate three-bar	17	they technically also serve as a remote monitor,
18	steam, and then we're using Sarco pressure-powered	18	correct?
19	pumps to pump back to the generator.	19	MR. TOTH: Yes, they do.
20	MR. BAUGHMAN: Got you. So the	20	CHAIRMAN MORELOCK: And so my only
21	condensate is actually going back to the	21	recommendation is, on your organizational chart,
21	condensate receiver being pumped over to the	21	clarify that. And I mean, I figured it out by
22	feedwater	22	
			reading it, but, also, on page 3, Item E, you say
24	MR. TRAUNERO: Yes.	24	an instruction placard instructs remote station
25	MR. BAUGHMAN: or to the DA.	25	personnel, and so we need to make sure that people
-	Page 72	4	Page 73
1	understand that those guys have two badges. They		for me, where you read that?
2	understand that those guys have two badges. They can flip it over to be a remote monitor or they	2	for me, where you read that? CHAIRMAN MORELOCK: On page 3,
2 3	understand that those guys have two badges. They can flip it over to be a remote monitor or they can flip it over and be a boiler attendant.	2 3	for me, where you read that? CHAIRMAN MORELOCK: On page 3, Item E. It just says "remote station personnel."
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	Page 74		Page 75
1	audible alarm.	1	MR. TOTH: So I'm very aware. And
2	MR. TRAUNERO: Uh-huh.	2	that's why I said this is a unique situation.
3	MR. BAUGHMAN: My question is, in a	3	CHAIRMAN MORELOCK: It is.
4	production area, do you know what the noise level	4	MR. TOTH: Because we've had others
5	is?	5	that we've brought before Sofix out of
6	MR. TOTH: Again, this is separate	6	Chattanooga is a great example where the boiler
7	than the production area.	7	guard serves both roles, depends upon when they
8	MR. BAUGHMAN: Got you.	8	walk through the door. This one, they're a remote
9	MR. TOTH: This is a separate	9	attendant; that one, they're a boiler attendant.
10	building. The production area is a complete	10	And what we did here, because there's not a manned
11	there's actually a pass-through, if you will, an	11	station that they are at, the boiler attendant
12	outdoor pass-through that goes from utility	12	assumes the responsibility of both. So instead of
13	building to the second location.	13	being confusing and having a section talk about a
14	MR. BAUGHMAN: Very good.	14	remote attendant and then a section talk about
15	MR. TOTH: Yeah.	15	boiler attendant they being the same people, it
16	CHAIRMAN MORELOCK: Indulge me one	16	was let's grab that term. And if that term is
17	more, too, Mr. Toth. On page 23 of Appendix G,	17	better suited for this board and for the State of
18	you do state that the utility operator is a boiler	18	understanding that that title is, you know, boiler
19	attendant, but there's no verbiage in there that	19	remote attendant, I would be more than happy to
20	they serve as a remote monitor.	20	revise the manual to stipulate that as a title.
21	MR. TOTH: And with that, the	21	That's absolutely fine.
22	reason is, is a definition that we've put in the	22	CHAIRMAN MORELOCK: Well, I don't
23	manual as what a boiler attendant is and what	23	want you to have to generate more terminology, but
24	their responsibility is.	24	just, you know, clarify, based on comments
25	CHAIRMAN MORELOCK: Okay.	25	MR. TOTH: It's clarified.
1	Page 76 Clarification Absolutely I do not have a	1	Page 77
1	Clarification. Absolutely. I do not have a	1	them a remote boiler attendant throughout the
2	Clarification. Absolutely. I do not have a problem doing that.	2	them a remote boiler attendant throughout the manual will probably suffice for any type of
2 3	Clarification. Absolutely. I do not have a problem doing that. CHAIRMAN MORELOCK: Okay. That's	2 3	them a remote boiler attendant throughout the manual will probably suffice for any type of because we are used to seeing, especially in my
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			5
1	Page 78 CHAIRMAN MORELOCK: Abstentions,	1	Page 79 combat that and how do we attack it.
2	not voting?	2	So what we have decided to do is to,
3	(No verbal response.)	3	with the Governor's approval, ask for fee
4	CHAIRMAN MORELOCK: You have a	4	increases that will provide salary increases that
5	contingently approved variance.	5	will attract new inspectors and to we're doing
6	MR. TOTH: Thank you.	6	this, both, for elevators and boilers.
7	MR. TRAUNERO: Thank you.	7	CHAIRMAN MORELOCK: Okay.
8	CHAIRMAN MORELOCK: It is 10:30, so	8	MR. HERROD: So the rule changes
9	let's take a ten-minute break, and we'll reconvene	9	have to do with, obviously, the boilers at this
10	at 10:40.	10	time. And what you have before you are the fee
11	(Recess observed.)	11	increases that we have proposed to the Governor,
12	CHAIRMAN MORELOCK: Thank you-all.	12	the Governor's office, and which we've gotten that
13	Moving on to our next item of old business, the	13	approval. And the next step is to bring it before
14	next item is 19-21. And that is proposed changes	14	the board and to let you know that what we would
15	to Rule 0800-03-03.14, fees.	15	like to do is, at the next board meeting, is to
16	MR. HERROD: Mr. Chairman?	16	have an open hearing with these changes, open to
17	CHAIRMAN MORELOCK: Yes?	17	the public so they can be in attendance.
18	MR. HERROD: I'll bring you up to	18	So these fee increases, if you look
19	speed on this.	19	right past that, you'll see a spreadsheet that has
20	CHAIRMAN MORELOCK: All right.	20	revenue.
21	Thank you very much.	21	MS. BENNETT: It's in your
22	MR. HERROD: One of the things that	22	notebook, gentlemen.
23	became evident as I became assistant commissioner	23	MR. HERROD: Yes, sorry. Just past
24	was the fact of some of the delinquency rates that	24	
25	we had of both boilers and elevators and how do we	25	MR. BOWERS: It's right after the
	Page 80		Page 81
1	Page 80	1	
1 2	•	1 2	meeting. And Mr. Bailey can tell you a little bit
	minutes.		meeting. And Mr. Bailey can tell you a little bit
2	minutes. MR. HERROD: So on the rules as	2	meeting. And Mr. Bailey can tell you a little bit more about that, what the process is.
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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	<pre>minutes.</pre>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	meeting. And Mr. Bailey can tell you a little bit more about that, what the process is. MR. BAILEY: Well, because it involves a fee increase, you almost have to go through the rulemaking hearing process instead of the proposed rule process. And either tomorrow or the next day, I'll be filing what's called a notice of rulemaking hearing. It's a form that I have to fill out and file with the Secretary of State's office. And then within seven days, they have to post that on the state register as a public notice. But, now, we also have an obligation to try to notify people that we know that might be impacted by it so that they know. It's going to be on the March agenda. And we'll be doing that through our website and whatever the unit does. But instead of having a separate meeting just for the rulemaking hearing, we can add it as an agenda item to your next board meeting. And there's enough time for me to file that notice with the Secretary of State's office, because it has to be posted for at least 45 days. We've got plenty of

	Page 82		Page 83
1	basically open it up for public comments on the	1	you've got any questions, I'll be glad to answer
2	proposed fee increases. And then whatever	2	them.
3	comments we get and, also, even before the	3	MR. BOWERS: So if it's approved,
4	meeting, members of the public can submit written	4	it might go into effect for 2020, where if it
5	comments to us even prior to that.	5	doesn't, it will have to go in 2021.
6	Once all that is done, I would	6	MR. BAILEY: Correct. It would
7	suggest, at that time, the board vote on whether	7	depend when the final submission to the Secretary
8	to approve the fee increases. We're required to	8	of State's office gets done. Because it will be
9	respond in writing to any of the comments, and we	9	90 days after that. If we can get it submitted
10	can group them. If there's, like, several similar	10	if we can go through the whole process and get it
11	comments, we can group them and then respond to	11	submitted where there's still more than 90 days,
12	that.	12	then it'll go in effect this July 1. But that's
13	But anyway, if it gets through that	13	going to be close. That's going to be a close
14	part of the hearing once we get through that	14	call. So we may have to wait another year.
15	hearing, then I would submit it to the Attorney	15	MR. BOWERS: This March meeting
16	General's office. Once they approve it, I would	16	coming up, a lot of people might attend. So is
			this room going to be big enough to accommodate
17 18	submit it to the Secretary of State's office. And	17	5 5 5 5
	because it's a fee increase, depending on when		since it's going to be a different type of
19	the there's a possibility that it could go into	19	CHAIRMAN MORELOCK: Well, I mean,
20	effect this July 1, depending on how things fall	20	that's an excellent question. I guess it really
21	out. If it isn't approved by this July 1 say	21	depends on the State letting us know how much
22	it's approved July 15th, then we have to wait	22	response they get from the notice.
23	until the following July 1 before those fee	23	And just for information, we had this
24	increases would go into effect. That's the way	24	fee increase included in our revision to 800-03-03
25	the law is. So anyway, that's the process. If	25	in 2016, and we pulled the fee portion out to get
	Page 84	1	Page 85
1	the rules updated. So this is really finishing	1	which is a much larger room.
2	the rules updated. So this is really finishing something we started several years ago. So it's	2	which is a much larger room. CHAIRMAN MORELOCK: Yes. That's a
2 3	the rules updated. So this is really finishing something we started several years ago. So it's good for the I don't know if we can put it in	2 3	which is a much larger room. CHAIRMAN MORELOCK: Yes. That's a good idea.
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2 3 4 5	the rules updated. So this is really finishing something we started several years ago. So it's good for the I don't know if we can put it in the public notice, but it would be good to let the public know that fees have not increased for	2 3 4 5	which is a much larger room. CHAIRMAN MORELOCK: Yes. That's a good idea. MS. BENNETT: So if it's available, then we could reserve that for the March meeting
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2 3 4 5 6 7 8 9 10 11 12 13	the rules updated. So this is really finishing something we started several years ago. So it's good for the I don't know if we can put it in the public notice, but it would be good to let the public know that fees have not increased for several years. MR. HERROD: 2010. Ten years. CHAIRMAN MORELOCK: So it would be good, as a public notice, to let people realize that the fee increases has fallen far behind even just the annual rate of inflation. MR. BAILEY: Right. And statute caps what some of those fees can be. And we were	2 3 4 5 6 7 8 9 10 11 12 13	<pre>which is a much larger room.</pre>
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	Page 86		Page 87
1	MR. CHAPMAN: The examine fee is	1	if the fees are increased, that additional revenue
2	for when somebody, like, takes the exam. We	2	goes into the general fund. It's not necessarily
3	proctor the exam, and the only thing is just	3	appropriated to the boiler unit. However, if you
4	proctoring it.	4	are able to request a higher appropriation from
5	MR. HERROD: How many do we	5	the legislature for the boiler unit and you are
6	typically have?	6	able to show them that we're bringing in more
7	MR. CHAPMAN: Well, we haven't had	7	revenue because we just raised our fees, you've
8	any in a while now, because we have AMP stations	8	got a better chance of getting that higher
9	that most people are going to now.	9	appropriation approved for additional salaries and
10	MR. HERROD: Really, it wouldn't	10	inspectors. So that's the thing.
11	add to our revenue substantially.	11	CHAIRMAN MORELOCK: So basically,
12	CHAIRMAN MORELOCK: It used to be	12	our support of that would lead to what you're
13	mandatory for the boiler unit and someone from the	13	reporting, correct?
14	board to proctor those exams. But now with all of	14	MR. BAILEY: Right.
15	that being automated through the National Board,	15	MR. O'GUIN: Mr. Hargrove, I
16	now, it's a lot more of a streamlined process.	16	believe the examination fee is already at its max,
17	You can go to an AMP exam, which is typically tied	17	is the reason it was not increased.
18	to an H & R Block office. You can go in there and	18	DR. HARGROVE: And they probably
19	they've got a camera on you, and you take the	19	don't want to discourage anyone from taking the
20	exam.	20	exam.
21	MR. TOTH: Just to answer, that fee	21	CHAIRMAN MORELOCK: No, that's
22	is an antiquated fee because of just what was	22	true.
23	explained, that it's not really you would have	23	MR. CHAPMAN: It's hard to get
24	to pay at the testing location now.	24	somebody in the first place.
25	MR. BAILEY: And just to be clear,	25	MR. GROSS: Mr. Chairman, Jeremy
	Page 88		Page 89
1	Page 88 Gross from Valero. Question, Mr. Bailey and	1	Page 89 have signed up for email communication.
1 2	Gross from Valero. Question, Mr. Bailey and Mr. Herrod, on fee increases: How will those be	1 2	
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2	Gross from Valero. Question, Mr. Bailey and Mr. Herrod, on fee increases: How will those be	2	have signed up for email communication. MR. BAILEY: Okay.
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2 3 4	Gross from Valero. Question, Mr. Bailey and Mr. Herrod, on fee increases: How will those be communicated to the owner-users as far as when they do increase? Will they send out communication out via email or how do we understand that so that we can budget	2 3 4	have signed up for email communication. MR. BAILEY: Okay. MS. BENNETT: And I think there's roughly, I think, 300 boiler people right now that
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	Page 90		Page 91
1	MR. BAUGHMAN: Chief, or assistant,		amount of charges that are in this fee. So
2	this may be for you, but just from an	2	anything that's reinspected adds to that. In
3	informational standpoint on how fees are charged.	3	other words
4	Let's say in a variance, particularly, that the	4	MR. CHAPMAN: It adds to it, but I
5	variance may fail and there's a reinspection that	5	don't think it's the highest or the most under
6	would come up. How does that actually get billed	6	that.
7	out? Is there two separate trips charged for?	7	MR. BAUGHMAN: I got you. I was
8	MR. CHAPMAN: Yes. Yes, it is. We	8	just looking at fees for variances. On here it
9	still have to charge for going there to do the	9	says proposed fees, \$700. I don't see any other
10	inspection whether they pass or fail.	10	fees that have that maximum amount. So that's why
11	MR. BAUGHMAN: Right.	11	I was bringing that up.
12	MR. CHAPMAN: And then when we go	12	MR. CHAPMAN: It falls under
13	back again, it's the same thing again, pass or	13	special inspection.
14	fail.	14	MR. BAUGHMAN: Yes. Yes.
15	MR. BAUGHMAN: Okay. Sure. So	15	MR. CHAPMAN: Okay.
16	that could actually reflect, you know, the	16	MR. BAUGHMAN: All right. Thank
17	revenues at some point. And it's an intangible,	17	you.
18	knowing which ones are going to have to be	18	MR. CHAPMAN: Uh-huh.
19	reinspected.	19	CHAIRMAN MORELOCK: Any other
20	MR. CHAPMAN: Yes.	20	questions or comments?
21	MR. BAUGHMAN: But this is kind of	21	(No verbal response.)
22	a very good guideline and bottom-line figure,	22	CHAIRMAN MORELOCK: Okay.
23	whereas we could actually have some slight more	23	Mr. Herrod, thank you for that report. We will
24	additional revenues. But that variance is	24	certainly prepare to cover that item in March, and
25	probably the highest cost of that or the highest	25	we just need to get the word out.
	Page 92		Page 93
1	I think when you do get the word out,	1	specific inspection activities, capital
2	I think it would be really good to let people know	2	reliability upgrades, and preventive maintenance
4			
3	how long it's been since the fees have been	3	work scopes conducted in five process units. A
	now long it's been since the tees have been increased. It's been a long time.	3 4	work scopes conducted in five process units. A catalyst change outage was also completed on one
3	-		
3 4	increased. It's been a long time.	4	catalyst change outage was also completed on one
3 4 5	increased. It's been a long time. That concludes our old business.	4 5	catalyst change outage was also completed on one of our Diesel Hydrotreater units. All work scope
3 4 5 6	increased. It's been a long time. That concludes our old business. Moving on to Agenda Item 8, which is new business.	4 5 6	catalyst change outage was also completed on one of our Diesel Hydrotreater units. All work scope was assessed using a Risk Based Work Selection
3 4 5 6 7	increased. It's been a long time. That concludes our old business. Moving on to Agenda Item 8, which is new business. Our first item is 19-22. Valero Memphis Refinery	4 5 6 7	catalyst change outage was also completed on one of our Diesel Hydrotreater units. All work scope was assessed using a Risk Based Work Selection process, also known an RBWS. Maintenance and
3 4 5 6 7 8	increased. It's been a long time. That concludes our old business. Moving on to Agenda Item 8, which is new business. Our first item is 19-22. Valero Memphis Refinery is going to give us an update on their risk-based	4 5 6 7 8	catalyst change outage was also completed on one of our Diesel Hydrotreater units. All work scope was assessed using a Risk Based Work Selection process, also known an RBWS. Maintenance and inspection activities executed during that outage
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	Page 94		Page 95
1	Program re-validation for 2020. That is currently	1	inspection recommendations.
2	scheduled for July. We have a May assessment	2	What questions do you have for me?
3	schedule from our own internal VPP team from San	3	CHAIRMAN MORELOCK: Do I have a
4	Antonio corporate office. And then we will have a	4	motion to discuss?
5	TOSHA team come in in July.	5	MR. BAUGHMAN: So moved.
6	As you can see in Table A, inspection	6	MR. BOWERS: Second.
7	types, from our internal, external, CUI,	7	CHAIRMAN MORELOCK: Okay.
8	jurisdictional, to non-intrusive inspections that	8	MR. BAUGHMAN: First, Jeremy, you
9	were performed in 2019. And then we also have our	9	guys had a busy year.
10	planned inspections for 2020.	10	MR. GROSS: Oh, yeah. Absolutely.
11	As you can see, our jurisdictional	11	MR. BAUGHMAN: I was looking over
12	numbers are quite large for 2020, so we will be	12	the report from last year in comparison, and the
13	quite busy with our insurance inspectors as well.	13	plan for this year on internal inspections was
14	Our risk data distribution is down	14	205, and you performed 235, so 30 more internals.
15	below. As you can see, our circuit counts from	15	The same thing with externals. You planned 302
16	our 2018 report, and you can see that data change	16	and performed 324.
17	out to the right.	17	MR. GROSS: Yes, sir.
18	Overall, in 2019, we did complete	18	MR. BAUGHMAN: So and actually
19	235 internals, 324 externals, and 13 Corrosion	19	had more than what was planned out. But that was
20	Under Insulation inspections. They were all in	20	a busy year for you quys.
21	accordance with our RBI program. Our	21	MR. GROSS: Absolutely.
22	jurisdictional inspections are current and up to	22	MR. BAILEY: Mr. Chairman, did you
23	date with no delinquents. And we also continue to	23	ask about conflicts?
24	execute insulation and fireproofing repairs based	24	CHAIRMAN MORELOCK: I did not.
25	on our CUI programs and our external visual	25	MR. BAILEY: Okay.
1	Page 96 CHAIRMAN MORELOCK: But yes, I	1	Page 97 really found what we call going from the second
2	will.		half of the football game, we really, you know,
3	MR. BAILEY: Okay.	3	tightened up there and did an excellent job of
4	CHAIRMAN MORELOCK: Any conflicts	4	finishing strong.
5	with this?	5	The only area that we had an issue
6	(No verbal response.)	6	with this year was one of our boilers actually had
	CHAIRMAN MORELOCK: With it being a	7	
8	report, I didn't	's	and overheat. That was fixed and put back online.
9	MR. BAILEY: Right. I didn't know	9	So from a fixed equipment standpoint, everything
10	for sure.	10	is really as you say, we're very predictable,
11	CHAIRMAN MORELOCK: Any comments or	11	which is really good. So those are the good times
12	questions?	12	you want to have whenever you're looking at
13	MR. BAUGHMAN: Any issues that came	13	forecasting repairs and hitting your marks without
14	up that would be worthy of note for us from an	14	having any unplanned loss of containment.
15	equipment standpoint?	15	MR. BAUGHMAN: You're definitely
16	MR. GROSS: You know, David, we've	16	ahead of the curve, and a million man-hour outages
17	actually had a pretty good year as far as being	17	is big.
18	predictable with our program by executing a lot of	18	MR. GROSS: That is a big one.
19	on-stream non-intrusive inspections. We're	19	_
	-		CHAIRMAN MORELOCK: Any other
20	actually very successful with our major outage	20	questions or comments?
21	with not many at all major significant discovery	21	(No verbal response.)
22	items. We were on budget, on time. And we did		CHAIRMAN MORELOCK: Hearing none,
23	have a few reportable injuries. They were hand	23	I'm going to call the question to approve Valero's
24	injuries, line-of-fire activities early on in the	24	RBI report and approve them to continue this
25	outage. But we had a pretty good stand-down and	25	program they have and bring us a report in a year.
L			

Page 98 Page 99 CHAIRMAN MORELOCK: Next item is 1 MR. FOX: I make that motion to 1 2 approve. 2 19-24, Steris Instrument Management Services is CHAIRMAN MORELOCK: Second? 3 3 requesting a new variance for two high-pressure 4 MR. BAUGHMAN: Second. 4 boilers. 5 CHAIRMAN MORELOCK: Any other 5 So if you'll come forward, introduce 6 questions or comments? yourselves, and present your item. 6 7 (No verbal response.) 7 MR. BOWEN: Bruce Bowen with Steris 8 CHAIRMAN MORELOCK: We could talk a 8 TMS 9 lot about RBI. It's just an excellent program 9 MR. TOTH: And Marty Toth, ECS 10 with aging plants and all and to make the most of 10 Consulting. 11 our manpower, to keep rotating equipment, pressure 11 Hello again. So we have a nice 12 equipment, all sorts of infrastructure viable into 12 little operation here at Steris in Chattanooga. 13 the future. We just -- we have to have it. So 13 I'll let Mr. Bowen go into more detail about the 14 it's a really -- it's an excellent program. 14 processes of it. Sterilization is pretty much in So hearing nothing else, I'm going to 15 their name. But what we have is we have two 15 16 call the question. All in favor say aye. 16 high-pressure steam generators, Steris steam 17 (Affirmative response.) 17 generators that operate. They have a feedwater 18 CHAIRMAN MORELOCK: Opposed? tank, vented feedwater tank to their system. 18 19 (No verbal response.) 19 The process, I'll let -- as I said, 20 CHAIRMAN MORELOCK: Abstentions, 20 I'll let Mr. Bowen kind of tell you about the 21 not voting? 21 process of Steris. 22 (No verbal response.) 22 MR. BOWEN: Steris IMS is a 23 CHAIRMAN MORELOCK: Jeremy, thank 23 sterilization company. We've been in business for 24 many years. They build the equipment for 24 you for the report. 25 MR. GROSS: Thank you. 25 sterilizing medical instruments and repairing Page 100 Page 101 1 medical instruments. This is a new breed for 1 a dressing out, so on and so forth. And so the 2 Steris as they are doing outsourcing from the 2 thought was instead of having the boiler 3 hospitals. Generally, they do all their 3 attendants actually have to go through the 4 process, just simply go reset with the key. We're 4 sterilization in the hospitals. 5 MR. TOTH: And so what we have is a 5 having -- a non-key e-stop, is, in essence, what 6 we're doing there. So you'll see that change on 6 process plant --7 MR. BOWEN: It's just a process of 7 page 3, 4, and 7. And that's just a simple 8 bringing medical instruments in, sterilizing them 8 editorial. 9 and sending them back to the hospital. 9 Also, on page 5, there was -- the MR. TOTH: Okay. As I mentioned, 10 systems that we actually use is not radio 10 11 we do have the two boilers. I do want to make 11 communication. It's actually telephone 12 note of some slight editorial changes to the 12 communication. So we have a dedicated phone 13 manual that were found during review this past 13 system that has that communication from the 14 week. process room, which is their remote station, over 14 15 If you will look on page 3, you will 15 to the boiler attendant itself. They do not use a 16 notice that we are mentioning the e-stop and the 16 radio system. So it's a phone system. 17 panel. I'm very familiar with what you see. 17 If we will take a quick look over at 18 We have decided to go with just a 18 the site plan -- I do apologize. I kind of don't 19 standard reset button or a standard e-stop button 19 know what happened with the blurriness there, but 20 without the key. So that is changed out so we 20 it's nice and big, Mr. Baughman. 21 will not have the key to reset it. And one of the 21 What we have -- as you can see, we 22 main reasons for that is the production area that 22 have the sterile processing room. That is a clean 23 is going to be manned 24/7 as these boilers are 23 room that I had mentioned. That is where your 24 being operated under the variance is a clean room. 24 remote panel is located. We have the two steam 25 And so going in and out of the clean room requires 25 generators and the feed tank in the boiler room

	Page 102		Page 103
1	itself with e-stops at both pedestrian exits, as	1	importance of these units in their operation.
2	you can see, local e-stops.	2	They're sterilizing. Okay? If they don't keep
3	CHAIRMAN MORELOCK: Mr. Toth,	3	their boilers up, don't keep them operating
4	what's the distance between the boiler and the	4	properly, they're not running.
5	MR. TOTH: It's 115 feet.	5	One of the things that we've decided
6	CHAIRMAN MORELOCK: Thank you, sir.	6	to do is actually do a shift over from Boiler 1 to
7	MR. TOTH: We can't read that very	7	Boiler 2, and vice versa, every eight hours. So
8	well, can we? It's actually on there, but it's	8	every eight hours those boilers are shifted
9	just yeah, it's a little blurred. I do	9	between each other. And during that process is a
10	apologize for that. That will be corrected.	10	complete safety check that goes on. So the
11	And if we go to the equipment	11	operator would actually take it through its
12	information, you do see that all of the boilers	12	process of bringing it down, running through his
13	have received their registration numbers. These	13	safety checks and ensuring that all the safety
14	are 150 psi steam generators, meaning they do not	14	checks are operational. And then the other boiler
15	have a fixed water level. So not having a fixed	15	is brought up.
16	water level, they do not have your standard	16	They also, because the steam
17	low-water cutoffs as you would see on your typical	17	generators, they don't have very big tubes, if you
18	fire-tube boiler or water-tube boiler. They are	18	would, very small. They actually have a very
19	completely full, and then the generation occurs	19	robust water softening system. To combat any
20	later on in the header or the steam release in the	20	hardness in their water, they actually go through
21	header. They do have all the required controls.	21	twice. It goes through the initial softening
22	They utilize the Siemens LME73 controller.	22	system and then carries over to another softening
23	One of the unique things, just as our	23	system before it is entered into the deaerator.
24	last client, Steris is very big on their safety	24	The deaerator does have a sparse tube system where
25	and their operation. They also understand the	25	they do send some steam through there. The steam
	and there operation. They also understand the		chey do bend bond becam enfough enere. The becam
	Page 104	1	Page 105 and I have had training from MRG, the commany that
1	is just used to help heat the water up. It helps	1	and I have had training from MRG, the company that
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	Page 106		Page 107
1	of the boiler. And they already know the	1	custom built for Steris IMS, and it will be very
2	importance of the boiler because we have to go	2	thorough.
3	through a stringent training process for them to	3	MR. BAUGHMAN: Good. And you've
4	become sterilizing technicians. So they know the	4	had some training already through Maintenance
5	importance of the steam quality and steam level	5	Resource Group.
6	already.	6	MR. BOWEN: Yes.
7	MR. BAUGHMAN: Sure.	7	MR. BAUGHMAN: Are these units
8	MR. BOWEN: So for me to just go	8	presently in operation?
9	and describe to them our process for making the	9	MR. BOWEN: Yes. They are under
	steam and then what their process is for shutting	10	the 20-minute rule.
10			
11	the boiler down if there is a problem.	11	MR. BAUGHMAN: Very good. They're
12	MR. BAUGHMAN: Very good. I	12	classified as steam generators. So we hear a
13	appreciate that.	13	term, "steam generator," and we hear a term,
14	MR. TOTH: If I may interject on	14	"boiler," but they're two different things. And
15	that. Steris is contracting with BTG to create a	15	so as we get to looking at this and the boiler
16	program for them. It will be a train-the-trainer	16	itself has the header, the steam portion, external
17	type of a system. Again, we're referring to	17	of the boiler itself, correct?
18	remote attendants when we talk about it, as we do	18	MR. TOTH: (Nods head.)
19	with other clients that we have. It's an	19	MR. BAUGHMAN: Okay. So being by
20	understanding of what they're looking at. It's	20	that definition
21	not an in-depth, because they are remote	21	MR. BAILEY: I need a verbal
22	attendants. But instead of just teaching them	22	answer.
23	here is a panel, push a button, if you could push	23	MR. TOTH: Yes, it is.
24	this button, what does it affect.	24	MR. BAUGHMAN: So by definition,
25	So there will be a program that is	25	does this fall under our requirements
	Page 108		Dage 109
1	Page 108 MR. TOTH: Yes, it does.	1	Page 109 identification that one is the same as the
1	-	1	
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12 a list of faults that enunciated and relayed 12 then we go into this to see what our problem was.	10		10	these fault lists right here. So this is only for
	11		11	whenever the display unit we want to investigate,
12 between the beiler human controllars and the 12 MD DATATIONANT. T and the	12	_	12	then we go into this to see what our problem was.
	13	between the boiler burner controllers and the	13	MR. BAUGHMAN: I got you. So they
14 remote alarm panel. How is the low water or 14 both enunciate back to the remote panel.		-		-
15 low-water condition faulted? 15 MR. BOWEN: Yes.				
				MR. BAUGHMAN: Very good. Well, I
17 is we've got a temperature limiter and a pressure 17 guess my confusion was it didn't that other				
18 limiter. So we monitor the temperature and the 18 controller is not identified		-		
19 pressure of the steam generator to determine our 19 MR. BOWEN: Yes. The other				
				controller is not identified in this book, but it
21 MR. BAUGHMAN: Got you. So this is 21 is in the training program.				
	22	a coil type of unit?		MR. BAUGHMAN: Very good.
				MR. TOTH: And, Mr. Baughman, if I
23MR. BOWEN: Yes, it is.23MR. TOTH: And, Mr. Baughman, if I				
23MR. BOWEN: Yes, it is.23MR. TOTH: And, Mr. Baughman, if I24MR. BAUGHMAN: Okay. And so that24 can allude to that. Because, as we know, a fault		monitoring, then, my question is, on the fault	25	list such as this is not a requirement of the

Page 115 Page 114 1 variance manual. It's just an additional add-in, 1 or brand. 2 and it's also to assist for purposes of personnel, 2 MR. TOTH: I mean, I could probably 3 so they have the manual there, they have a better 3 look up a photograph. 4 opportunity to pull up the fault list that comes 4 MR. ROBINSON: Are they steam or 5 from the Siemens controller. So as Mr. Bowen had 5 water? 6 mentioned, there is an additional HMI that the б MR. TOTH: Oh, no, they're steam. 7 Siemens controller is connected to that has those 7 MR. ROBINSON: Okay. 8 MR. TOTH: They're steam valves. 8 same communications. 9 MR. BAUGHMAN: Very good. 9 But I do have photographs of that if you --MR. ROBINSON: No. I've seen water 10 CHAIRMAN MORELOCK: Any other 10 11 valves, because, again, this is water --11 questions or comments? 12 (No verbal response.) 12 MR. TOTH: Not when it meets that 13 MR. ROBINSON: (Indicating.) 13 point. When it meets that point, it's not. 14 CHAIRMAN MORELOCK: Yes, 14 MR. ROBINSON: I have seen hot-15 Mr. Robinson? 15 water-heating-boiler-type relief valve installed 16 MR. ROBINSON: Eugene with 16 on a hot water heating boiler. 17 Cincinnati. What kind of valves are on this 17 MR. TOTH: Got you. 18 boiler? Are they water valves or steam valves? 18 MR. ROBINSON: This is designated MR. TOTH: I'm sorry. What are you 19 19 as a steam generator. 20 20 referring to? Are you talking about safety MR. TOTH: Steam generator, yes. 21 valves? 21 CHAIRMAN MORELOCK: And it's 22 MR. ROBINSON: Yes, sir. 22 S-stamped, not a Section 4-stamped. 23 MR. TOTH: They're a -- I don't 23 MR. ROBINSON: Right. Exactly. 24 know which manufacturer it is. 24 Right. But still, I didn't know. 25 MR. BOWEN: I don't know the name 25 CHAIRMAN MORELOCK: Good question. Page 116 Page 117 1 Any other questions or comments? 1 have a contingently approved variance. (No verbal response.) MR. TOTH: Thank you. 2 2 CHAIRMAN MORELOCK: Hearing none, MR. BAUGHMAN: Mr. Robinson, thank 3 3 4 I'm going to call the question to contingently 4 you again for bringing that information. That was 5 approve this variance based upon revisions to the 5 very helpful. 6 manual based on comments at the Tennessee Board CHAIRMAN MORELOCK: Okay. Our next б 7 Meeting and a successful site visit from the 7 item is 19-25, Clover Bottom Development Center. 8 And they're requesting a new variance for two 8 Boiler Unit. 9 high-pressure boilers. Oh, I'm sorry. Correct 9 MR. BOWERS: I make that motion. 10 CHAIRMAN MORELOCK: I have a 10 that. It is a modification of a variance for two 11 motion. Do I have a second? 11 high-pressure boilers. 12 MR. FOX: Second. 12 So introduce yourselves and present CHAIRMAN MORELOCK: I have a 13 13 your item. 14 second. Any other discussion? 14 MR. NEVILLE: James Neville with 15 (No verbal response.) 15 Neville Engineering. CHAIRMAN MORELOCK: Hearing none, 16 MR. VANSTONE: Blair Vanstone with 16 17 I'm going to call the question. All in favor say 17 the State of Tennessee at Clover Bottom. 18 aye. 18 MR. NEVILLE: We're here to request 19 (Affirmative response.) 19 a modification to an existing variance. These 20 CHAIRMAN MORELOCK: Opposed? 20 boilers previously had the Hawk ICS control 21 (No verbal response.) 21 system. They have upgraded the controls on both CHAIRMAN MORELOCK: Abstentions, 22 22 of these boilers to the Hawk 5000. We have stated 23 not voting? 23 that in our Appendix A, as far as the remarks on 24 (No verbal response.) 24 that. And in Appendix B, we've listed those new 25 CHAIRMAN MORELOCK: Gentlemen, you 25 controls with Hawk 5000 there.

1			
	Page 118 As a part of this review, we've also	1	Page 119 CHAIRMAN MORELOCK: So do I have a
2	updated our job descriptions for those that will	2	conflict for this variance? Any conflicts?
3	be monitoring the boilers both remotely and in the	3	MR. FOX: I may have a conflict.
4	boiler room, boiler attendants.	4	CHAIRMAN MORELOCK: Okay.
5	On page 5, we list the remote station	5	MR. FOX: I've done some work at
6	still as Security Guard 1 and Security Guard 2.	6	Clover Bottom in the past year.
7	They are monitoring those boilers at the Harold	7	MR. BAILEY: What kind, just repair
8	Jordan Center. This campus has multiple	8	work?
9	buildings. I believe it's 23 buildings total.	9	MR. FOX: Yes, repair work.
10	And they are monitoring those boilers from the	10	MR. BAILEY: I don't know that that
11	Harold Jordan Center. And that's approximately	11	is much of a conflict there.
12	3,000 feet from this boiler room.	12	MR. FOX: I didn't do anything
13	As far as the ones that we're listing as	13	control-wise.
14	boiler attendants, we list those on page 7. And	14	MR. BAILEY: And you weren't part
15	there's a number there, and I'll read off those:	15	of setting it up or anything like that?
16	Boiler Operator Supervisor, Building Maintenance	16	MR. FOX: No, sir.
17	Worker 2, Building Maintenance Worker 3,	17	MR. BAILEY: I don't think that's a
18	Maintenance Carpenter 2, Facilities Manager 3,	18	conflict to be concerned about.
19	Facilities Supervisor, and Security Guard 1 and	19	CHAIRMAN MORELOCK: Okay. Thank
20	Security Guard 2.	20	you for noting that.
21	Now, Security Guard 1 and 2 would be	21	Do I have a motion to discuss?
22	under monitoring duties only. They do not operate	22	MR. BAUGHMAN: So moved.
23	the boiler.	23	CHAIRMAN MORELOCK: Second?
24	If there's any questions regarding this	24	MR. BOWERS: Second.
25	variance	25	CHAIRMAN MORELOCK: Okay. What
	Page 120		Page 121
1	questions/comments do you have? I will say this,	1	the procedures, but they're not listed as
2	before we get into this, if you look on page I-5,	2	attendants.
3	you will see a revisions page. And the first	3	CHAIRMAN MORELOCK: Okay. Very
4	block, those first six items are comments that	4	good.
5	were made during the December 16, 2015 meeting.	5	MR. BAUGHMAN: And just to clarify,
6	And this is just showing how those items have been	6	that's been a number of years ago that they came
7	added to the manual. Then where it says	7	through.
8	"Revisions," those are the revisions that they're	8	CHAIRMAN MORELOCK: Okay.
9	presenting here today. That may help you a little	9	MR. VANSTONE: As they get new
110	·	10	hires, we're submitting them to go through the
10	MR. BAUGHMAN: Where is that	11	training.
11	logated?	1 1 1	
11 12	located?	12	CHAIRMAN MORELOCK: Okay. Very
11 12 13	CHAIRMAN MORELOCK: It's in the	13	good.
11 12 13 14	CHAIRMAN MORELOCK: It's in the appendices, I-5, after the checklist.	13 14	good. I have an editorial correction, if
11 12 13 14 15	CHAIRMAN MORELOCK: It's in the appendices, I-5, after the checklist. So what questions/comments do you	13 14 15	good. I have an editorial correction, if you look on page G-35. If you look at the bottom
11 12 13 14 15 16	CHAIRMAN MORELOCK: It's in the appendices, I-5, after the checklist. So what questions/comments do you have?	13 14 15 16	good. I have an editorial correction, if you look on page G-35. If you look at the bottom under "Controlling Machines and Processes," Item 2
11 12 13 14 15 16 17	CHAIRMAN MORELOCK: It's in the appendices, I-5, after the checklist. So what questions/comments do you have? So I guess I have a question. As far	13 14 15 16 17	good. I have an editorial correction, if you look on page G-35. If you look at the bottom under "Controlling Machines and Processes," Item 2 says, "Operate remote kill switch for boilers."
11 12 13 14 15 16 17 18	CHAIRMAN MORELOCK: It's in the appendices, I-5, after the checklist. So what questions/comments do you have? So I guess I have a question. As far as training, who does your boiler training?	13 14 15 16 17 18	good. I have an editorial correction, if you look on page G-35. If you look at the bottom under "Controlling Machines and Processes," Item 2 says, "Operate remote kill switch for boilers." That's exactly what it is, but we typically call
11 12 13 14 15 16 17 18 19	CHAIRMAN MORELOCK: It's in the appendices, I-5, after the checklist. So what questions/comments do you have? So I guess I have a question. As far as training, who does your boiler training? MR. VANSTONE: I do.	13 14 15 16 17 18 19	good. I have an editorial correction, if you look on page G-35. If you look at the bottom under "Controlling Machines and Processes," Item 2 says, "Operate remote kill switch for boilers." That's exactly what it is, but we typically call that emergency shut down, an ESD.
11 12 13 14 15 16 17 18 19 20	CHAIRMAN MORELOCK: It's in the appendices, I-5, after the checklist. So what questions/comments do you have? So I guess I have a question. As far as training, who does your boiler training? MR. VANSTONE: I do. CHAIRMAN MORELOCK: Okay. All	13 14 15 16 17 18 19 20	good. I have an editorial correction, if you look on page G-35. If you look at the bottom under "Controlling Machines and Processes," Item 2 says, "Operate remote kill switch for boilers." That's exactly what it is, but we typically call that emergency shut down, an ESD. MR. NEVILLE: We can change that.
11 12 13 14 15 16 17 18 19 20 21	CHAIRMAN MORELOCK: It's in the appendices, I-5, after the checklist. So what questions/comments do you have? So I guess I have a question. As far as training, who does your boiler training? MR. VANSTONE: I do. CHAIRMAN MORELOCK: Okay. All right. Because I had read that Allied provided	13 14 15 16 17 18 19 20 21	good. I have an editorial correction, if you look on page G-35. If you look at the bottom under "Controlling Machines and Processes," Item 2 says, "Operate remote kill switch for boilers." That's exactly what it is, but we typically call that emergency shut down, an ESD. MR. NEVILLE: We can change that. CHAIRMAN MORELOCK: All right.
11 12 13 14 15 16 17 18 19 20	CHAIRMAN MORELOCK: It's in the appendices, I-5, after the checklist. So what questions/comments do you have? So I guess I have a question. As far as training, who does your boiler training? MR. VANSTONE: I do. CHAIRMAN MORELOCK: Okay. All right. Because I had read that Allied provided boiler training. I wanted to make sure we didn't	13 14 15 16 17 18 19 20 21 22	good. I have an editorial correction, if you look on page G-35. If you look at the bottom under "Controlling Machines and Processes," Item 2 says, "Operate remote kill switch for boilers." That's exactly what it is, but we typically call that emergency shut down, an ESD. MR. NEVILLE: We can change that. CHAIRMAN MORELOCK: All right. Thank you.
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11 12 13 14 15 16 17 18 19 20 21 22 23	CHAIRMAN MORELOCK: It's in the appendices, I-5, after the checklist. So what questions/comments do you have? So I guess I have a question. As far as training, who does your boiler training? MR. VANSTONE: I do. CHAIRMAN MORELOCK: Okay. All right. Because I had read that Allied provided boiler training. I wanted to make sure we didn't have another conflict. MR. VANSTONE: Allied Boiler trains	13 14 15 16 17 18 19 20 21 22 23	good. I have an editorial correction, if you look on page G-35. If you look at the bottom under "Controlling Machines and Processes," Item 2 says, "Operate remote kill switch for boilers." That's exactly what it is, but we typically call that emergency shut down, an ESD. MR. NEVILLE: We can change that. CHAIRMAN MORELOCK: All right. Thank you.

	Page 122		Page 123
1	Middle Tennessee Regional. I guess that's	1	the this will be on it's identified as B-3.
2	MR. VANSTONE: That's its official	2	For the Boiler 1 and Boiler 2 Hawk systems, is
3	name now. It's Middle Tennessee Regional Office	3	there a reset available on the computer itself?
4	of the Department of Intellectual and	4	In other words, do we have a reset available on
5	Developmental Disabilities.	5	the computer?
6	CHAIRMAN MORELOCK: Okay.	6	MR. VANSTONE: The reset is on the
7	MR. VANSTONE: Most people know it	7	control panel. We have a computer that just
8	as Clover Bottom, and when I use the NTRO or DIDD,	8	monitors it. That's going to be in the office.
9	they don't know what I'm talking about. I say	9	But the resets are on the boiler themselves
10	Clover Bottom, they know what I'm talking about.	10	MR. BAUGHMAN: Very good.
11	CHAIRMAN MORELOCK: Okay. All	11	MR. VANSTONE: on the control
12	right. Thank you. That's all the questions I	12	panel.
13	have. What questions does the board have?	13	MR. BAUGHMAN: Excellent.
14	MR. BAUGHMAN: Where is the this	14	CHAIRMAN MORELOCK: Any other
15	question is directed to either one of you. But	15	questions or comments?
16	where are the e-stops located in the boiler room?	16	I guess it's just a recommendation
17	MR. VANSTONE: Outside the main	17	it doesn't have to be done but on your
18	door and the side door.	18	organization chart in Appendix D, it would be
19	MR. BAUGHMAN: Very good.	19	helpful just to identify these personnel as either
20	MR. VANSTONE: There's one for each	20	remote monitoring for boiler attendants or even
21	boiler.	21	like for the security guards, they're going to be
22	MR. BAUGHMAN: Both of those being	22	boiler monitors as well.
23	outside?	23	MR. NEVILLE: Right. Okay. We can
24	MR. VANSTONE: Yes.	24	add that.
25	MR. BAUGHMAN: With the diagram of	25	CHAIRMAN MORELOCK: Okay.
	Page 124		Page 125
1	Page 124 All right. Hearing none, I am going	1	-
1 2		1 2	-
	All right. Hearing none, I am going		correct?
2	All right. Hearing none, I am going to seek a motion to approve this modification,	2	correct? MR. COTTRELL: Develey.
2 3	All right. Hearing none, I am going to seek a motion to approve this modification, based on the comments from the board to make	2 3	correct? MR. COTTRELL: Develey. CHAIRMAN MORELOCK: Develey. Okay. So Develey Mustard and Condiments Corporation is requesting a variance for two high-pressure
2 3 4	All right. Hearing none, I am going to seek a motion to approve this modification, based on the comments from the board to make revisions to the manual and a successful site	2 3 4	correct? MR. COTTRELL: Develey. CHAIRMAN MORELOCK: Develey. Okay. So Develey Mustard and Condiments Corporation is
2 3 4 5	All right. Hearing none, I am going to seek a motion to approve this modification, based on the comments from the board to make revisions to the manual and a successful site visit from the boiler unit. MR. BOWERS: I make that motion. MR. BAUGHMAN: Second.	2 3 4 5	correct? MR. COTTRELL: Develey. CHAIRMAN MORELOCK: Develey. Okay. So Develey Mustard and Condiments Corporation is requesting a variance for two high-pressure
2 3 4 5 6	All right. Hearing none, I am going to seek a motion to approve this modification, based on the comments from the board to make revisions to the manual and a successful site visit from the boiler unit. MR. BOWERS: I make that motion.	2 3 4 5 6	correct? MR. COTTRELL: Develey. CHAIRMAN MORELOCK: Develey. Okay. So Develey Mustard and Condiments Corporation is requesting a variance for two high-pressure boilers. So introduce yourself and present your
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2 3 4 5 6 7 8 9	All right. Hearing none, I am going to seek a motion to approve this modification, based on the comments from the board to make revisions to the manual and a successful site visit from the boiler unit. MR. BOWERS: I make that motion. MR. BAUGHMAN: Second. CHAIRMAN MORELOCK: Any other discussion?	2 3 4 5 6 7 8 9	correct? MR. COTTRELL: Develey. CHAIRMAN MORELOCK: Develey. Okay. So Develey Mustard and Condiments Corporation is requesting a variance for two high-pressure boilers. So introduce yourself and present your item. Are there any conflicts on this item? (No verbal response.)
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Page 126 Page 127 1 Sellers boilers. Those are fire tube and they 1 larger retailers. So that's basically it in a nutshell. 2 have the Hawk 4000 control system. In Appendix B 2 3 We produce lots and lots of ketchup. 3 we list the Hawk 4000 equipment that will be CHAIRMAN MORELOCK: Well, and just 4 monitoring that boiler. And also, in Appendix B, 4 5 so you all know, the most important line in his 5 we show the emergency stops, and there's also an 6 introduction in the book is the fact that now we 6 access control for the boiler room that you have 7 know where Big Macs get their special sauce. 7 to have a card key to access that boiler room. MR. COTTRELL: That's right. 8 8 Appendix C we list the fault codes. 9 MR. NEVILLE: That's right. 9 And if there's any questions we can CHAIRMAN MORELOCK: Okay. So 10 10 answer... 11 11 continue. CHAIRMAN MORELOCK: Do I have a 12 MR. NEVILLE: Well, if I can direct 12 motion to discuss? 13 your attention to page 2, we show the site plan 13 MR. FOX: So moved. CHAIRMAN MORELOCK: Do I have a 14 and we show the location of the boiler room and 14 15 the location of the remote station. It's 15 second? 16 approximately 285 feet from the boiler room. 16 MR. BOWERS: Second. 17 The remote station will be 17 CHAIRMAN MORELOCK: What questions 18 continuously staffed by machine operators. They 18 do you have? 19 are operating the line there that we show on 19 MR. BAUGHMAN: Mr. Neville, on the 20 Site 1. 20 DA sheet, this is a pressurized DA? 21 As far as the boiler attendants, the 21 MR. NEVILLE: Low pressure, yes. 22 boiler attendants is -- a multi-craft maintenance 22 MR. BAUGHMAN: Low pressure. The 23 technician is the title for the trained boiler 23 design pressure is 50. 24 attendant. 24 MR. NEVILLE: Yes. 25 The two boilers that we show are 25 CHAIRMAN MORELOCK: Yeah, but it's Page 128 Page 129 1 operated at what, 5 to 7 or something? 1 Tennessee number, so... MR. BAUGHMAN: Right. CHAIRMAN MORELOCK: Yeah. Whoever 2 2 MR. NEVILLE: Right. Operating at 3 stamped it, yes, you're correct. 3 4 7. We can list the safety valve, would be the MR. BAUGHMAN: So I would like to 4 5 next thing, under 15 psi. 5 just have that for the record. And it does still MR. BAUGHMAN: That was my б 6 need to have a Tennessee number assigned to it, 7 question. 7 even if it's low pressure; is that correct? 8 MR. NEVILLE: So we can list that 8 MR. TOTH: Marty Toth, ECS. It 9 as well. 9 actually does, because if not, no deaerator 10 MR. BAUGHMAN: Yes. We have no 10 operated in the state of Tennessee would have a 11 Tennessee number and no NB number, which would be 11 registration, because no deaerator operates above 12 a requirement, if I'm not mistaken, being the 12 15 psi. So it does require it to be registered 13 and inspected. 13 design pressure is 50 even though it's operating 14 below 15 psi. The build itself is above 15 psi. 14 MR. BAUGHMAN: Yeah. No different 15 Am I correct? 15 than if a high-pressure boiler was operating down 16 CHAIRMAN MORELOCK: Yes. But if 16 in a low-pressure range. We still have to -- so 17 you operate it and relieve it at less than 15, it 17 we need both a Tennessee number and an NB number 18 does not have to be -- you're operating it below 18 for the manual. 19 the requirements of the State of Tennessee. 19 MR. TOTH: Mr. Chairman, may I 20 MR. BAUGHMAN: Yes. But it's still 20 interject? 21 through the build, is what I'm saying, as we have 21 CHAIRMAN MORELOCK: Yes. 22 no NP number. 22 MR. TOTH: Just to be perfectly 23 CHAIRMAN MORELOCK: Oh, yes, yes, 23 clear, I know it's a request, but is deaerator 24 yes. As far as --24 information actually a requirement within the 25 25 variance? MR. BAUGHMAN: And we have no

Page 131 Page 130 CHAIRMAN MORELOCK: It is not. 1 1 McDonnell & Miller? 2 MR. TOTH: Okay. I just wanted to 2 MR. COTTRELL: Yes. 3 make sure. Thank you. 3 MR. BAUGHMAN: Well, I knew it had CHAIRMAN MORELOCK: Any questions 4 been -- the controls have been upgraded --4 5 MR. COTTRELL: The controls were 5 or comments? MR. FOX: Yeah, I've got one. upgraded to the Hawk. All the safeties were left 6 6 7 CHAIRMAN MORELOCK: Okay. 7 the same and integrated into the Hawk system with 8 8 the exception of the fire. And they had to add a MR. FOX: Mr. Neville, in your 9 manual, I'm not seeing a written description nor a 9 new sensor to it because the Hawk wouldn't 10 recognize those Sellers. So we had to go through 10 picture of the remote shut-off panel or how it 11 actually operates. I mean, is it... 11 Sellers. That was one of the reasons it took us 12 MR. NEVILLE: We can take a picture 12 so long to get it incorporated in, is we had to 13 of it and add that to the manual. 13 get approval from Sellers to do that. MR. BAUGHMAN: Sure. Because their 14 MR. FOX: Okay. I was just curious 14 15 if the stop button was a mushroom-type switch or 15 UL listing --16 what. 16 MR. COTTRELL: So we got all that 17 MR. NEVILLE: It is. We list -- on 17 done. 18 B-2 we talk about the hardwired circuit for each 18 MR. BAUGHMAN: Correct. There's 19 boiler, but we don't give any details on that. 19 actually an issue with the Sellers. And the Hawk 20 But we can add a picture of the e-stop button. 20 probably took care of this, but one of the things 21 MR. BAUGHMAN: What type of 21 they do -- and we've worked on quite a few of 22 water-level controls do you have on the boiler? 22 these interesting single-pass boilers -- it's got 23 MR. COTTRELL: It's got a float 23 that big explosion relief door on the back of it, 24 water level --24 which is kind of an interesting nomenclature. 25 MR. BAUGHMAN: The standard 25 It's an explosion relief door that's rather large. Page 132 Page 133 But Sellers has the ability to leave 1 Engineering for sharing one of the very few photos 1 2 the pilot on during the off cycle. And by CSD-1 2 in the report that shows there actually is an 3 ASME, that's not allowed on a forced draft boiler. 3 e-stop button there. 4 Within an atmospheric, you can have a standing 4 The photo on the left, is that a card 5 pilot, but a forced draft you can't. And we've 5 reader to the left? 6 discussed that before, but I thought that was an MR. NEVILLE: It is. It's an б 7 interesting thing within Sellers' firing mechanism 7 access control, so they have to have a card to 8 itself. 8 gain access into the boiler room. That's outside 9 The change to the Hawk, I don't 9 the boiler room. 10 believe they can do that. I don't believe they 10 If you look on E-2, it may show you 11 can --11 where that switch is, that emergency boiler stop 12 MR. COTTRELL: No, they can't do 12 switch. At the top of the sheet is where the --13 the door is. That's the first picture. And the 13 that. That was one of the issues that we ran 14 into, is that they wanted to keep the Flame, and 14 second picture is down at the bottom. 15 the Hawk didn't want to see -- it was -- it took 15 MR. COTTRELL: Being a foods fit 16 us about the month, month and a half, to get it 16 facility, just about all our doors in the plant 17 approved through Sellers to make all those changes 17 are key access. And your key only gets you into 18 and put the new sensors in. So yeah, it took a 18 certain parts of the plant, according to what 19 little convincing to get it all done. 19 you're about to get into. And so food safety 20 MR. BAUGHMAN: Absolutely. 20 aspect and safety overall aspect. 21 That's all the questions I've got. 21 DR. HARGROVE: That's a good safety 22 Everything else is just operational, but it 22 factor. Thank you. 23 doesn't apply to the variance. 23 MR. BAUGHMAN: Well, and that 24 DR. HARGROVE: Question on B-3, 24 brings up, though, that should there be a failure 25 just for clarification. And I commend Neville 25 of the hardware of the key reader, the one e-stop

Page 134 Page 135 1 is outside of the door, and the other one is on 1 to this variance based on the revisions from this 2 the inside on the opposite side of the room 2 board as well as a successful site visit from the 3 itself. And if there should be a failure, there's 3 boiler unit. 4 no way to get into that door to activate the 4 MR. FOX: I'll make that motion. 5 e-stop from that side. And not that that's part 5 MR. BAUGHMAN: Second. 6 of our variance by any stretch. I'm just --CHAIRMAN MORELOCK: Okay. Any 6 7 MR. COTTRELL: The door is also 7 other questions or comments? 8 8 keyed with a master key. Management can get into (No verbal response.) 9 them. So myself and all the other managers and 9 CHAIRMAN MORELOCK: Okay. Hearing 10 plant manager can get into those doors, along with 10 none, all in favor say aye. 11 my planner. And all the doors are keyed 11 (Affirmative response.) 12 individually so that you can only get into certain 12 CHAIRMAN MORELOCK: Opposed? 13 doors of the plant, like myself and my maintenance 13 (No verbal response.) 14 planner can get into the maintenance side of CHAIRMAN MORELOCK: Abstentions, 14 15 everything, the electrical room, in case of power 15 not voting? 16 failure or any kind of a glitch. But anybody else 16 (No verbal response.) 17 wouldn't have access to it. My rounds men and my 17 MR. BOWERS: Gentlemen, you have a 18 technicians will have access to the boiler room. 18 contingently approved variance. MR. BAUGHMAN: Very good. Thank 19 19 MR. NEVILLE: Thank you. 20 20 you. MR. COTTRELL: Thank you. 21 CHAIRMAN MORELOCK: Any other 21 CHAIRMAN MORELOCK: That takes up 22 questions or commitments? 22 us to Item 19-28, TAMKO Building Products. 23 (No verbal response.) 23 MR. HUDGINS: I'm Ernie Hudgins CHAIRMAN MORELOCK: Do I have a 24 with Engineering Services Group. Beside me is 24 25 motion to contingently approve this modification 25 Kevin Jones. Page 136 Page 137 1 Tennessee Boiler and the air pollution. 1 MR. JONES: Kevin Jones, TAMKO The original boiler still has its 2 Building Products. 2 3 Honeywell 7800. The new boiler that was recently CHAIRMAN MORELOCK: Are there any 3 4 conflicts on this item? 4 installed is a Honeywell slate system. 5 (No verbal response.) 5 If you look on SK-1, that's the site CHAIRMAN MORELOCK: All right. б 6 plan. That distance from the boiler plant to the 7 Hearing none, you can proceed. 7 remote station is about 500 feet. If you would MR. HUDGINS: TAMKO Building 8 8 like, I can put a scale or write on that. 9 Products is located in Knoxville. They're been in 9 CHAIRMAN MORELOCK: If you could 10 business since about 1944 making building/roofing 10 just note that's 500 feet, that would be very 11 products. 11 good. 12 Currently, the plant is operating two 12 MR. HUDGINS: SK-2 shows just a 13 high-pressure boilers. Their boilers operate 13 schematic of the boiler plant itself. The old 14 24/7. Typically, the plant only operates one 14 original TAMKO plant was a coal-fired plant. All 15 boiler at a time, but they can operate two of 15 of that equipment has been decommissioned. The 16 them 16 boilers are still in place. 17 Boiler 1 was their original, primary 17 Originally, when -- Boiler 1 is on 18 boiler. It was installed -- well, upgraded in 18 the left -- I'll add that to it, Boiler 1 and 19 2002. In, I think, 2012, 2013, we applied for a 19 Boiler 2 -- the controls and burner were interior 20 variance for Boiler 1 and it was granted. It's 20 to the building. The back of the boiler was 21 gone through one renewal process. 21 exposed to the elements. 22 Recently, the plant installed a 22 As part of the addition to the 23 second high-pressure boiler. The addition started 23 boiler, installation of Boiler 2, the -- both 24 in about 2018, and it is has recently been online. 24 boilers were enclosed by -- according to the City 25 It's been approved by the City of Knoxville, the 25 of Knoxville, the shed is what they gave them a

	Page 138		Page 139
1	permit to build there.	1	included, Appendix A. Boiler 1 is a Murray.
2	SK-2 shows the emergency shutdown	2	Boiler 2 is a Cleaver-Brooks. 1969 and 1976
3	stations that are existing. When Boiler 2 was	3	vintages.
4	added, the shutdown buttons were added to the	4	As mentioned earlier, Boiler 1 is
5	existing shutdown stations. The one on the	5	natural duel fuel; Boiler Number 2 is natural gas
6	emergency shutdown station in front of the boiler	6	only.
7	addition is shown there by the door. Kevin	7	As part of the addition of Boiler 2, the
8	brought it to my attention, it's actually on the	8	relief valves on Boiler 1 will change to 300 psi
9	corner of the building.	9	so both boilers, the relief valves are the same
10	MR. JONES: Actually, the door has	10	settings.
11	moved and the station moved with it.	11	As far as plant personnel, nothing has
12	MR. HUDGINS: So we'll fix that on	12	changed since the request of the variance in 2012.
13	there.	13	All the boiler attendants are maintenance
14	SK-3 is a schematic panel layout for	14	personnel. There's no janitorial staff nor
15	the remote panel that's in the control room. And	15	security guards being used to monitor the boiler.
16	then the SK-4, just a schematic of the steam and	16	The plant runs a 12-hour shift and logs
17	deaerator system. I had intended to get a data	17	are to be taken at four-hour intervals on our
18	sheet for the deaerator in the variance along with	18	boiler log. We have an individual log for each
19	the boilers, but it fell through the cracks.	19	boiler since it's possible that Boiler 1 would be
20	A. I had tried to get it a photograph of	20	off and Boiler 2 would be running and vice versa.
21	the name plate to present to you today, but the	21	On there, there is a column to indicate that the
22	photograph did not come out. It was not readable,	22	water column has been checked.
23	so we'll have to do a little more additional work	23	Employee descriptions are included in
24	on getting that.	24	the back. They're basically the shift supervisor,
25	The data sheets for the boiler are	25	who is the remote station monitor, and a mechanic,
	5 144		5 141
	Page 140 who is the boiler attendant.	1	Page 141 me with these boilers and a variance of boilers
1	who is the boiler attendant.		me with these boilers and a variance of boilers
2	who is the boiler attendant. Kevin is the plant engineer. He's	1 2 3	me with these boilers and a variance of boilers this old, there's so much that can go wrong with
	who is the boiler attendant.	2	me with these boilers and a variance of boilers this old, there's so much that can go wrong with these things. You know, it's like you've got a
2 3 4	who is the boiler attendant. Kevin is the plant engineer. He's responsible for the training as stated in the	2	me with these boilers and a variance of boilers this old, there's so much that can go wrong with these things. You know, it's like you've got a lot of thinning shell and things like that, over
2 3 4 5	who is the boiler attendant. Kevin is the plant engineer. He's responsible for the training as stated in the manual. CHAIRMAN MORELOCK: Do I have a	2 3 4	me with these boilers and a variance of boilers this old, there's so much that can go wrong with these things. You know, it's like you've got a lot of thinning shell and things like that, over the years, and you're only looking at them every
2 3 4 5 6	who is the boiler attendant. Kevin is the plant engineer. He's responsible for the training as stated in the manual. CHAIRMAN MORELOCK: Do I have a motion to discuss?	2 3 4 5	me with these boilers and a variance of boilers this old, there's so much that can go wrong with these things. You know, it's like you've got a lot of thinning shell and things like that, over the years, and you're only looking at them every four hours.
2 3 4 5	who is the boiler attendant. Kevin is the plant engineer. He's responsible for the training as stated in the manual. CHAIRMAN MORELOCK: Do I have a	2 3 4 5 6 7	me with these boilers and a variance of boilers this old, there's so much that can go wrong with these things. You know, it's like you've got a lot of thinning shell and things like that, over the years, and you're only looking at them every four hours. But you said on Boiler Number 1, that
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Page 142 Page 142 1 not seeing a lot of delimation on the cortol 1 take it there's got to be another regulator up 2 system itself. 60, there again, I take it tris 1 take it there's got to be another regulator up 3 the Goen burner, a greet human and the disting an ittle bit of 1 take it there's got to be another regulator. With means when the 4 programmer, but just lacking in a little bit of 5 information on that end of it. 5 around the regulator. With means when the 6 W. HDDDENS: To Boilar 2. 9 WR. BAXEMON: 'I'm sourry? 1 also it there's got to he another through the roof 1 Now, there's real issues within itsopped in the 1 also it the another regulator with the rough the roof 1 Row, there's real issues within itsopped in the 1 also another regulator. With means when the 1 Row, there's real issues within itsopped in the 1 also and the going to a different rout. 1 Row, there, but there may be an equipret to the 1 supervisor. 2 GENEMMENT know, what i's rated for, And it. 1 supervisor. 3 wariance, but the dwerth of the fourt hange a list was been away the i's an equipret. 1 supervisor. 2 GENEMMENT know, there a tradificer any the supervisor? 1 supervisor. 3 wariance, and the dwerth all show is a supervisor? 1 supervisor. 1 revison				
2 system itself. So, there again, I take it it's 2 abead of that because we're going 15 psi through 3 the Com hurmer, a great hurmer and the 3 another regulator. I'm anticipating dropping down 6 The Honeywell Slate has been added, 7 another regulator, which means when the 6 The Honeywell Slate has been added, 6 regulator file, you can rull pressure to it. 7 but 9 MR. HUDGINS: To Boiler 2. 9 The Honeywell Site has been added, 10 MR. HUDGINS: To Boiler 2. 9 The Honeywell Site has been added to Boiler 2. 9 The Honeywell Site has been added to Boiler 2. 9 The Honeywell Site has been added to Boiler 2. 9 The Honeywell Site has been added to Boiler 2. 9 The Honeywell Site has been added to Boiler 2. 9 The Honeywell Site has been added to Boiler 2. 9 The Honeywell Site has been added to Boiler 2. 9 The Honeywell Site has been added to Boiler 2. 10 <td< td=""><td></td><td>Page 142</td><td></td><td>Page 143</td></td<>		Page 142		Page 143
3 the Coen hurner, a great burner and the 4 programmer, hut just lacking in a little bit of 5 information on that end of it. 3 another regulator. I'm anticipating dropping dow 4 to a lower pressure. But it's got a full bypass a round her regulator. What means when the 6 regulator faile, you can run full pressure to it. 7 Ad T'm interrested to knew where that 15 pai steam 8 cores from. 9 NR. HUBGINS: To Boiler 2. 9 NR. HUBGINS: Was to Boiler 2. 10 NR. HUBGINS: Was to Boiler 2. 11 NR. HUBGINS: Was to Boiler 2. 11 NR. HUBGINS: Was to Boiler 2. 12 MR. HUBGINS: Was to Boiler 2. 13 NR. HUBGINS: Was to Boiler 2. 14 NR. HUBGINS: Was to Boiler 2. 14 NR. HUBGINS: Was to Boiler 2. 15 NR. HUBGINS: Was to Boiler 2. 14 NR. HUBGINS: Was to Boiler 2. 15 NR. HUBGINS: Was to Boiler 2. 14 NR. HUBGINS: Was to Boiler 2. 15 NR. HUBGINS: Was to Boiler 2. 14 NR. HUBGINS: Was to Boiler 2. 13 NR. HUBGINS: Was to Boiler 2. 14 NR. HUBGINS: Was to Boiler 2. 15 NR. HUBGINS: Was to Boiler 2. 14 NR. HUBGINS: Was to Boiler 2. 15 NR. HUBGINS: Was to Boiler 2. 15 NR. HUBGINS: Was to Boiler 2. 15 NR. HUBGINS: Was to Boiler 2. 16 </td <td>1</td> <td>not seeing a lot of delineation on the control</td> <td>1</td> <td>take it there's got to be another regulator up</td>	1	not seeing a lot of delineation on the control	1	take it there's got to be another regulator up
4 to a lower pressure. But it's get a full bypass 5 information on that end of it. 6 The Honeywell Slate has been added. 7 but 8 M. HENGINS: To Boiler 2. 9 MR. BAUGRESS: I'm sorry? 10 MR. BENGRESS: I'm sorry? 11 MR. BENGRESS: To boiler 2. 12 State has been added to Boiler 2. 13 MR. BENGRESS: To boiler 2. 14 industry right mow that we're all encountering. 15 Bromeywell is kind of in a precarious position 18 right now as far as their control division is 19 containg up if they go a different route. 20 reviance, but the drawing of th feedwater system. 21 uses that, we'we got 15 psi coming into it. I 11 MR. JONES: Yes, they are. 6 CHAIMON MORELOCK: Okay. And the 9 SWR 1.2, and 37 Because they're all shown at the 14 trade the wais the asketh a life hole. 15 reviance. 16 meduing that Mr. Budgins already alluded to to 17 NR. JONES: That's o correct. 1 MR. CONES: Tha	2	system itself. So, there again, I take it it's	2	ahead of that because we're going 15 psi through
 5 information on that end of it. 6 The Honeywell Sinte has been added to the frequency. 9 ME, HUDGINS: To Boiler 2. 9 ME, BUDERNN: Two Boiler 2. 10 MR. HUDGINS: Just to Boiler 2. 11 MR. BUDERNN: Two Boiler 2. 12 Slate has been added to Boiler 2. Bur 1 just so you 13 know, there's real issues within Honeywell in the industry right now that we're all encountering. 14 industry right now that we're all encountering. 15 Honeywell outrol links has been taken off the in aprecarious position 18 right now as far as their controls division is in a precarious position 19 concerned. It is what you've got, and you've put to be yariance. It is using you've got, and you've put to be yariance, but the drawing of the feedheter system. 14 WR. JONES: Yes, they are. 15 arows that we've got IS pai coming into it. I 16 Sury and the supervisor? 17 NR. JONES: Yes, they are. 18 Labeling that Kr. HUGHING LICK: (Kay. And the 4 same number. 19 WR. JONES: Yes, they are. 10 I've got a basic one. As far as the it requestings? 11 rule that is referemend = -it's just a typo - bot in yariance they read libe of -04(11). And you've got got a basic one. As far as the it reated for 40(11). And you've got a basic one. As far as the it reates the the the it is negations? 11 rule that is referemend = -it's just a typo - bot in you was that the basic maint and the order there were that the basic maint and a successful alter within the iter is an it pop - ite is the basic one in Aggendix (A, I') and the basic market and a successful alter within the order withy dot chard papertion; a generics. 12 in match to it that on the cover reater, it was a south on that is reating none, it was a south on the order is not have in the papertion; a market and is from plant discover. 14 overflow conses from the analy fand the paperime or the is and paperime. <	3	the Coen burner, a great burner and the	3	another regulator. I'm anticipating dropping down
6 The Honeyvell Slate has been added, 6 regulator fails, you can run full pressure to it. 7 but 8 ME, HUDGINS: To Boiler 2. 9 ME, BUDEMEN: Yma corry? 9 The Hous-Inch went through the roof 10 ME, HUDGINS: Just to Boiler 2. 9 The Hous-Inch went through the roof 11 State has been added to Boiler 2. 10 show, three has to be, by code, and 12 State has been added to Boiler 2. 10 show of the top of the Do with a 13 Induction onling up if the seast ber in contorsing. 11 shit-of Valve, and there has to be, by code, and 14 industry right now that we're all encountering. 12 overflow coming off the top of that 15 comsermed. It is what you've got, and you've put 13 shut-off valve, and then cicker. And 16 revision coming up if the go a different rote. 14 overflow coming of the top of that 10 16 answer. So I'm just again, it doesn't apply to the 23 and the drawing of the feedwater graphent, it doesn't apply to the 16 way in ant Mer. JONES: That's correct. 14 14 Mer. JONES: That's correct. 1	4	programmer, but just lacking in a little bit of	4	to a lower pressure. But it's got a full bypass
7 but 7 And I'm interested to know where that 15 psi steam 8 MR. HUDCINS: To Boller 2. 7 9 MR. HUDCINS: To Boller 2. 7 10 MR. HUDCINS: Just to Boller 2. 10 11 MR. HUDCINS: Just to Boller 2. 10 12 State has been added to Boller 2. 10 13 know, there's real issues within Roneywell in the industry right now that we're all encountering. 11 14 industry right now that we're all encountering. 11 15 Boneywell control links has been taknodycid. But 11 20 verflow coming off the top of the DA with a 16 market and Slate has been introduced. But 10 10 satu-off valve, and there has to be, by code, an 11 revision coming we if they got, ad you've put 10 10 10 satu-off valve, and there has to be, by code, an 12 revision coming we if they got, ad you've put 11 11 12 12 12 13 wariance, but there may be an equipment 12 revision coming we if they got adifferent route. 13 30 11 12 14 the DA, I don't know what it's rated for. Andit <td>5</td> <td>information on that end of it.</td> <td>5</td> <td>around the regulator, which means when the</td>	5	information on that end of it.	5	around the regulator, which means when the
8 MR. HEIGHNS: To Boiler 2. 8 comes from. 9 MR. BAUGHON: Just to Boiler 2. 9 The four-inch vant through the roof 10 MR. BAUGHON: Just to Boiler 2. 9 The four-inch vant through the roof 11 MR. BAUGHON: Just to Boiler 2. 9 The four-inch vant through the roof 11 MR. BAUGHON: Just to Boiler 2. 9 The four-inch vant through the roof 12 State has been added to Boiler 2. 10 orificed valve, a shut-off valve. But it shows and 13 honcyclip a charp valve, but there's not 11 oureflow coming our fit he top of that 16 market and Slate has been introduced. But 15 top/solar added to Boiler 2. 16 market and Slate has been introduced. But 15 top/solar added to Boiler 2. 17 monsyneli is kind of in a precorious position 18 So I'm just again, it doeen't 18 roision coming up if they go a different route. 19 pertain to the variance. I'm just interested from 19 variance, but there may be an equipment standpoint, making aure that 11 12 ewerything is proper. And that goes back to the	6	The Honeywell Slate has been added,	6	regulator fails, you can run full pressure to it.
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10 MR. HUDGINS: Just to Boiler 2. 11 MR. AUGRAWAN: Yes. Honeywell 12 Slate has been added to Boiler 2. But just soy out 13 know, there's real issues within Honeywell in the 14 industry right now that we're all encountering. 15 thoneywell control links has been taken off the 16 market and Slate has been introduced. But 17 market and Slate has been introduced. But 18 right now was far as their controls division is 18 spain, it doesn't apply to the 20 Again, it doesn't apply to the 21 angaingent standpoint, making sure that 21 newshat it's raft's corrrect. 22 CHAIRWAN MORELOCK: Okay, And the 23 sake and sheed a little bit. 29 FWP 1, 2, and 3? Because they're all shown at the 4 same number. 5 MR. JOKES: Yes, they are. 6 CHAIRWAN MORELOCK: Okay, And the 11 nuch as beed alonge 0.0 to get your correct. 2 MR. JOKES: Yes, they are. 6 CHAIRWAN MORELOCK: Okay, And the 11 NR. JOKES: Yes, they are.	8	MR. HUDGINS: To Boiler 2.	8	comes from.
11 NR. BAUGHEAN: Yes. Honeywell 11 orificed valve, a shut-off valve. But it shows an 12 Site has been added to Boiler 2. But juts so you 13 shuce, there's real issues within knenywell in the 14 industry right now that we're all encountering. 15 Boneywell control links has been taken off the 16 market ad Slate has been introduced. But 16 a. The . The overflow comes off the top of that 17 industry right now as far as their controls division is 16 on the . The overflow comes off the top of that 18 regist now as far as their controls division is 19 pertain to the variance. I'm just interested from 10 in ont't know what it's tated for. And it 20 an equipment stanApoint, marking sure that 21 revision coming into it. I 1 Page 144 1 MR. JONES: Yes, they are. 23 CHAIMAN MORELOX: So just to add 24 the tak skich a little bit. 9 NR. JONES: Yes, they are. 2 1 upervisor: 25 MR. JONES: Yes, they are. 6 CHAIMAN MORELOX: So are they 1 1 and the pervisor? 6 CHAIMAN MORELOX: So Care. Are 1 MR. JONES:	9	MR. BAUGHMAN: I'm sorry?	9	The four-inch vent through the roof
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Page 146 Page 147 1 going to call the question. All in favor say aye. MR. TOTH: Thank you, Mr. Chairman 1 2 (Affirmative response.) 2 and members of the board. Again, this is just a CHAIRMAN MORELOCK: Opposed? 3 3 follow-up to what was discussed or started at the 4 (No verbal response.) 4 September meeting. As you may recall, there was CHAIRMAN MORELOCK: Abstentions, 5 5 one inquiry that was tabled and one inquiry that 6 not voting? 6 was removed. All the board members should have a 7 (No verbal response.) 7 revised copy with the changes to the other CHAIRMAN MORELOCK: Gentlemen, you 8 8 inquiries, the other seven inquiries. And I would 9 have a contingently approved variance. 9 ask if the board has any questions for inquiries MR. HUDGINS: And thank you for 10 10 and replies 1, 2, 3, 4, 6, and 7 before we move 11 adding us to the agenda this month. Even though 11 forward. CHAIRMAN MORELOCK: Mr. Toth, all I 12 we were last, it sounds like it's going to be 12 13 better being here in December than in March when 13 have is 19-01, Inquiry 5. 14 everybody is here mad about fee increases. MS. BENNETT: It's in your book. 14 15 15 MR. BOWERS: Is that the one dated (Laughter.) 16 CHAIRMAN MORELOCK: You may be 16 November 18? 17 17 right about that. MR. TOTH: No. I've got revised 18 Okay. That completes new business. 18 November 20, 2019. 19 Let's take a five-minute break and come back and 19 MR. BAUGHMAN: That November 20, 20 we'll work on Section 9. 20 2019, it says Subject: Low Pressure. Is that 21 (Recess observed.) 21 correct? MR. TOTH: No. There was a number 22 CHAIRMAN MORELOCK: We're at Item 22 23 Number 9, Rule Case and Interpretations. Our 23 of them. This one, you should have received the 24 first one is BI 19-01, Inquiry 5. And Mr. Toth is 24 letter --25 going to present that. 25 CHAIRMAN MORELOCK: Okay. I've got Page 148 Page 149 1 I've got the computer. If you'll notice, you'll 1 it. Yeah, I've got it. MR. TOTH: -- the letter that was 2 see it has the revision. It's the August 2nd with 2 3 originally dated for August 2nd. And then it has 3 the revision date. Does everybody see that? MR. BOWERS: You said August 2nd 4 a revised date next to it. 4 5 CHAIRMAN MORELOCK: Yes. All 5 date got revised? 6 right. I do have it. б MR. TOTH: Uh-huh. Does everyone MR. TOTH: On those inquiries and 7 have it? 7 8 replies that I mentioned in that letter, I did not CHAIRMAN MORELOCK: Yes. 8 9 indicate the changes. I went by the changes that MR. TOTH: So I'll reiterate. The 9 10 were highlighted in the minutes and revised 10 replies for 1, 2, 3, 4, 6, 7, and 8 have all been 11 accordingly. Those, I may add, were voted on and 11 revised per the request of the board and voted and 12 approved by this body at the September meeting. 12 passed on at the last meeting. There was also 13 But complete approval of the interpretation was to 13 discussion that removed Inquiry Number 9. That 14 wait until after additional discussions. 14 was added into interpretation requests for 15 MR. BOWERS: Let's go back through 15 low-pressure boilers. That apparently will be 16 those again, which ones we're talking about now. 16 brought up at the March meeting, since it was not 17 We have one that's a letter dated November 15. I 17 put on this agenda. And so the discussion we have 18 have an old one that I had the last time dated 18 today to finalize this is Inquiry Number 5 and its 19 November 19. And this is -- and the first 19 reply. And when the board is ready, I'll be happy 20 question was -- okay. So that's on the CO2 20 to read that with the suggested reply, and we can 21 monitors there. That's another question. 21 go from there. 22 MS. BENNETT: It should be in your 22 MR. BOWERS: Number 5. I'm waiting 23 book, Mr. Bowers. 23 on the direction of the Chair. What would you 24 MR. TOTH: If I may, I can just 24 like me to do, sir? 25 come up and show you. I don't have a hard copy. 25 CHAIRMAN MORELOCK: Proceed.

1	Page 150	1	Page 151
	MR. TOTH: Thank you. So as we		say yes a way to say, well, we're going to do
2	look at Inquiry Number 5, as read, it is required	2	this, and 95 percent but if you want to go beyond that for a special plant, that we need to
4	for all high-pressure boilers installed in a location example, boiler room, mechanical room,		
5	facility location, et cetera to be electrically	4	have a way that we can to address that. MR. FOX: Since this is open for
6	connected to a single manually operated remote	6	discussion, one thing I would point out, we
7		7	approved a variance for a customer here just a few
8	shut-down switch, that is an e-stop, installed at the point/points of eqress where the activation of	8	moments ago that's got five boilers. He's got
9	the switch shall actuate the master fuel trip	9	five e-stops. All right? If you're running out
10	relays on all boilers within the location.	10	of that boiler room or you're coming into that
11	The suggested reply is no. However,	11	boiler room to hit an e-stop, how do you know
12	this does not restrict the owner-user from doing	12	which boiler is in alarm just by a mushroom
13		13	switch? You don't. You don't know which button
	so if they choose. And I will add, this follows		to hit.
14	the requirements within CSD-1, NFP85, and also	14	
15	NBIC.		So I'm looking at it if you have one
16	MR. BOWERS: The discussion was one	16	e-stop that controlled all five of the units, you
17	e-stop were all the boilers, which is going beyond what the NBIC required. And I can say and I	17	shut all five of them down at the same time, then you could investigate. It wouldn't be that hard
18 19		18	
20	think in probably 95 percent in talking to the	19 20	to bring that boiler whichever boiler is in failure or has a problem, it wouldn't take that
20	chief and assistant chief, 95 percent of the times, that would be adequate. But there's		-
21	certain manufacturing plants that, probably, that	21	long, should not take that long to bring that boiler back and put it right back online, or put
22	would not be work very well to do that.		
23		23	the other boilers online, I should say. MR. BOWERS: And I would say
24	So I guess that's the thing we have to decide, if one fits all, or if there's a way to	24	95 percent of the time, it would probably be like
23	to decide, if one fits all, of if there's a way to	20	35 percent of the time, it would probably be like
	Page 152		Page 153
1	Page 152 that. There's probably certain situations,	1	Page 153 running less wire, less e-stops, less
1 2		1 2	
	that. There's probably certain situations,		running less wire, less e-stops, less
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2 3 4 5	that. There's probably certain situations, certain plants that are a lot more sophisticated that would need to, like Eastman, have to be separated, where you don't have to go to that degree. You need to have it where you can	2 3 4 5	running less wire, less e-stops, less opportunities. Absolutely. The issue that I run into, as being somebody that's served on codes for years, is that concern of setting the requirements, such as the
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1	Page 154		Page 155
	an avenue for a variance, if you say you have to have one that controls all boilers but the		I'm trying to figure this out if you had an alarm-type system with that boiler that would
3	individual location, if they choose to have	2	indicate five light, or whatever, at the e-stop
4	multiple e-stops, that's their purview, because	4	itself, we might do you see what I'm saying?
5	they are following the nationally recognized codes	5	MR. BOWERS: Which boiler?
6	when it comes to e-stop requirements.	6	MR. FOX: It would indicate which
7	But I do agree with Mr. Fox and	7	e-stop you would want to hit.
8	Mr. Baughman and everyone else, that one e-stop is	8	CHAIRMAN MORELOCK: Right.
9	the best way to go, but that's not the only way to	9	MR. FOX: You know, because I know
10	qo.	10	myself, if I've got something that's blowing up
11	CHAIRMAN MORELOCK: Well, and this	11	inside a plant or, you know, an explosion or
12	inquiry, the way it's written, would allow you to	12	something like that, if I open the door, if
13	have that one e-stop. I mean it's not prohibiting	13	there's five estops, I'm hitting all five of them.
14	you from doing it, because, like you said, there	14	MR. TOTH: And that's good.
15	is a cost savings from installation, maintenance,	15	MR. FOX: You know, that's what I'm
16	use, and all that. But then for folks like	16	going to do.
17	Eastman, it doesn't tie our hands to have to	17	MR. TOTH: Sure.
18	there's no way we could put a you know, it	18	MR. BAUGHMAN: Well, again, we've
19	would cripple us if we had to do that.	19	had e-stops fail. Eugene, you're on that project
20	MR. FOX: Oh, yeah.	20	itself where the e-stop was wired in and did not
21	MR. BAUGHMAN: Well, the other side	21	shut the boiler off. But I'm thinking about it
22	of the coin I'm sorry. Go ahead, Terry.	22	just the opposite way, is that we make it a
23	MR. FOX: I mean, there could be	23	jurisdictional requirement that one e-stop kills
24	some stuff done with the e-stop itself, the	24	everything, and it's a variance to come back and
25	push-button-type switch. Simply, if you had	25	get that approved. Instead of having it at the
	Page 156		Page 157
1	customer's discretion, we make it part of our	1	campus at one time. You can say you can do it a
2			
4	jurisdictional requirement, and then put it in as	2	different way, but if you do it a different way,
3	jurisdictional requirement, and then put it in as a variance that you're able to come before or	2 3	different way, but if you do it a different way, you've got to have training; you've got to have it
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3 4	a variance that you're able to come before or submit it to whoever the body would be that needs	3 4	you've got to have training; you've got to have it a certain way. It may be the same way with
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	Page 158	1	Page 159
1 2	determination and somebody else over here making a different one along the game lines	1	about this. But I do not want somebody to tell me
3	different one along the same lines. I agree with if this body chooses to	3	that people aren't going to be trained to do that. I've been there. I've been in the situation under
4	go the route of saying, okay, when we go to do a	4	emergency environments. When you're trained
5	permit, what does that entail? What are the	5	properly, can you do it all. It's a problem when
6	guidelines that says Company A can have five	6	you're not trained properly. And what Mr. Bowers
7	e-stops and Company B cannot? Because I'm going	7	alluded to is come before the board or whoever and
8	to tell you, I know where the enforcement is going	8	prove that you've been trained. Well, I challenge
9	to go. The enforcement is going to tell that	9	back and say prove to that inspector that an
10	person they have to have one e-stop. Ain't that	10	operator has been trained, period. It doesn't
11	right, Chris?	11	matter how many e-stops they have.
12	MR. O'GUIN: You are correct.	12	MR. BOWERS: But it's same as the
13	MR. TOTH: See? So what you're	13	20-minute rule and having a variance.
14	doing is, is you're taking it and you're saying we	14	MR. TOTH: Absolutely. And so when
15	can say all the words we want right here, but the	15	we look at that, we say how many we have and how
16	enforcement is going to tell other inspectors	16	we handle it. I agree 100 percent. If you want
17	you've got to have one e-stop. And so that goes	17	to go through the issue of saying you want to have
18	for Eastman; that goes for Parkwest. They have	18	individual e-stops that you have to come back and
19	five e-stops. And you're talking about leaving	19	request that to the board, I think that's a little
20	the room Mr. Fox, what did you say you're going	20	overkill. But if you say inside of the permit
21	to do if you have a situation?	21	that you request it to the State, if the response
22	MR. FOX: I'm going to hit all five	22	from the State is I'm going to deny them all just
23	of them.	23	because that's the way I want to enforce it,
24	MR. TOTH: You're going to hit all	24	that's not kosher. There needs to be a system in
25	five. And I don't want to get into a disagreement	25	place that says why do you need to have an
	Page 160		Page 161
1	Page 160 individual e-stop for each boiler.	1	Page 161 it to do such. That's it.
1 2		1 2	-
	individual e-stop for each boiler.		it to do such. That's it.
2	individual e-stop for each boiler. MR. ROBINSON: Eugene Robinson,	2	it to do such. That's it. MR. TOTH: I'm sorry. That's
2	individual e-stop for each boiler. MR. ROBINSON: Eugene Robinson, Cincinnati Insurance. And that's the whole	2	it to do such. That's it. MR. TOTH: I'm sorry. That's great, but all that, I didn't really I'm sorry,
2 3 4	individual e-stop for each boiler. MR. ROBINSON: Eugene Robinson, Cincinnati Insurance. And that's the whole purpose of the variance. In other words, if you	2 3 4	it to do such. That's it. MR. TOTH: I'm sorry. That's great, but all that, I didn't really I'm sorry, Eugene, I didn't get much out of that. And the
2 3 4 5	<pre>individual e-stop for each boiler.</pre>	2 3 4 5	it to do such. That's it. MR. TOTH: I'm sorry. That's great, but all that, I didn't really I'm sorry, Eugene, I didn't get much out of that. And the reason why I didn't, with all due respect, is that
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2 3 4 5 6 7	<pre>individual e-stop for each boiler.</pre>	2 3 4 5 6 7	it to do such. That's it. MR. TOTH: I'm sorry. That's great, but all that, I didn't really I'm sorry, Eugene, I didn't get much out of that. And the reason why I didn't, with all due respect, is that when you're stipulating the installer can install as many e-stops as they want, if the owner wants to have one e-stop, he has one e-stop. So it's not the installer saying you have to have
2 3 4 5 6 7 8 9 10	<pre>individual e-stop for each boiler.</pre>	2 3 4 5 6 7 8 9 10	it to do such. That's it. MR. TOTH: I'm sorry. That's great, but all that, I didn't really I'm sorry, Eugene, I didn't get much out of that. And the reason why I didn't, with all due respect, is that when you're stipulating the installer can install as many e-stops as they want, if the owner wants to have one e-stop, he has one e-stop. So it's not the installer saying you have to have additional with this again, I'm speaking to you
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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	<pre>individual e-stop for each boiler.</pre>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	it to do such. That's it. MR. TOTH: I'm sorry. That's great, but all that, I didn't really I'm sorry, Eugene, I didn't get much out of that. And the reason why I didn't, with all due respect, is that when you're stipulating the installer can install as many e-stops as they want, if the owner wants to have one e-stop, he has one e-stop. So it's not the installer saying you have to have additional with this again, I'm speaking to you as somebody with code experience here. Do I think one e-stop is the best way to go? You're absolutely right. But here is the thing, Chris. This is what you've got to understand. And you can look and you can get upset, but the thing you've got to understand is this is code. It's not just about the safety, more safety; it's about the restrictions that you're putting on yourself right now and putting onto the end users. Those end users are going to have an avenue to take this up through the legislation. That's going to come raining down on your head.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<pre>individual e-stop for each boiler.</pre>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	it to do such. That's it. MR. TOTH: I'm sorry. That's great, but all that, I didn't really I'm sorry, Eugene, I didn't get much out of that. And the reason why I didn't, with all due respect, is that when you're stipulating the installer can install as many e-stops as they want, if the owner wants to have one e-stop, he has one e-stop. So it's not the installer saying you have to have additional with this again, I'm speaking to you as somebody with code experience here. Do I think one e-stop is the best way to go? You're absolutely right. But here is the thing, Chris. This is what you've got to understand. And you can look and you can get upset, but the thing you've got to understand is this is code. It's not just about the safety, more safety; it's about the restrictions that you're putting on yourself right now and putting onto the end users. Those end users are going to have an avenue to take this up through the legislation. That's going to come raining down on your head. That's where my passion is. But just
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<pre>individual e-stop for each boiler.</pre>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	it to do such. That's it. MR. TOTH: I'm sorry. That's great, but all that, I didn't really I'm sorry, Eugene, I didn't get much out of that. And the reason why I didn't, with all due respect, is that when you're stipulating the installer can install as many e-stops as they want, if the owner wants to have one e-stop, he has one e-stop. So it's not the installer saying you have to have additional with this again, I'm speaking to you as somebody with code experience here. Do I think one e-stop is the best way to go? You're absolutely right. But here is the thing, Chris. This is what you've got to understand. And you can look and you can get upset, but the thing you've got to understand is this is code. It's not just about the safety, more safety; it's about the restrictions that you're putting on yourself right now and putting onto the end users. Those end users are going to have an avenue to take this up through the legislation. That's going to come raining down on your head.

1	Page 161		Page 163
1 I	Page 162 thought that too, and they probably do, they would	1	
2	put it in the code.	2	what the IBC requires. There's a lot of different
3	CHAIRMAN MORELOCK: I would agree	3	variables within that. So that variance goes back
4	with that. And if I take my engineer hat off and	4	to the powers that be that are in the boiler unit.
5	I put a business hat on representing Eastman,	5	And I feel that this is the same way.
6	Eastman is going to say we need to make a	6	I don't think that each one of these has to come
7	data-driven decision on why we need to do this.	7	before the board. I think that being that we've
8	Show me the case studies where multiple e-stops	8	got competent individuals in the chief and
9	has created personal injury, property damage,	9	assistant, that they look at these installations
10	boiler failure. And I just don't know that you're	10	and give a thumbs up or thumbs down. And if
11	going to see a lot of that data. There might be	11	there's additional consultation they need to have,
12	some isolated cases.	12	they go to those in the industry, bounce those
13	MR. BOWERS: And I agree with	13	ideas off of you, Brian, us, and so forth. So
14	Marty. When you go beyond the code, more	14	that's the way I view this, is making it to where
15	restrictive than what the code is, you're kind of	15	we've got it as a jurisdictional requirement for
16	sticking your neck out.	16	the one e-stop. And then, as there's variables to
17	MR. BAUGHMAN: So I'll put my two	17	that, then they're presented back to them to be
18	cents' worth in. We have variances already in	18	able to analyze and get the approval out.
19	place, not just for the operator, but we've got	19	MR. BOWERS: Well
20	code clearance requirements. Those are set in	20	MR. TOTH: And if I can interject
21	writing. But who do those approvals go back to to	21	onto that. I agree with you. There are certain
22	get that done? It doesn't go before the board.	22	rules and regulations that we do have board cases,
23	MR. TOTH: No, it doesn't.	23	board interpretations such as clearance. The
24	MR. BAUGHMAN: So you've got those	24	reason why those were brought forward was because
25	clearance requirements, and there's differences	25	of technology changes, was because of things of
	Page 164		Page 165
1	modular boilers that were brought together. We	1	
2	had a catch-all that said that you had to have	2	can come up. Well, why do you want to have why
3	three foot of clearance between all boilers. We	3	do you need to have multiple e-stops? Do you need
4	had a catch-all that said you had to have five	4	to have it because of a process issue? Yes or no.
5	foot of clearance above.	5	Again, taking ourselves out of the
6			Again, taking ourserves out of the
1	The issue the hardship that	6	what's my personal belief in this. What does the
7	The issue the hardship that happened out in the public was constructions of	6 7	
			what's my personal belief in this. What does the
7	happened out in the public was constructions of certain types of units such as instantaneous water heaters that are hung on the wall, modular units	7	what's my personal belief in this. What does the code tell you? It's like if I have a situation at
7 8 9 10	happened out in the public was constructions of certain types of units such as instantaneous water heaters that are hung on the wall, modular units that are slid together, that's the issues.	7 8 9 10	what's my personal belief in this. What does the code tell you? It's like if I have a situation at Eastman Chemical Company, that by having one e-stop could compromise the operations; if I have a hospital environment that doesn't feel
7 8 9 10 11	happened out in the public was constructions of certain types of units such as instantaneous water heaters that are hung on the wall, modular units that are slid together, that's the issues. When we talk about e-stops, e-stops	7 8 9 10 11	what's my personal belief in this. What does the code tell you? It's like if I have a situation at Eastman Chemical Company, that by having one e-stop could compromise the operations; if I have a hospital environment that doesn't feel comfortable with all their boilers going down at
7 8 9 10 11 12	happened out in the public was constructions of certain types of units such as instantaneous water heaters that are hung on the wall, modular units that are slid together, that's the issues. When we talk about e-stops, e-stops is a one size fits all, is it not?	7 8 9 10 11 12	what's my personal belief in this. What does the code tell you? It's like if I have a situation at Eastman Chemical Company, that by having one e-stop could compromise the operations; if I have a hospital environment that doesn't feel comfortable with all their boilers going down at one particular time. If the question that goes
7 8 9 10 11 12 13	happened out in the public was constructions of certain types of units such as instantaneous water heaters that are hung on the wall, modular units that are slid together, that's the issues. When we talk about e-stops, e-stops is a one size fits all, is it not? CHAIRMAN MORELOCK: Well	7 8 9 10 11 12 13	what's my personal belief in this. What does the code tell you? It's like if I have a situation at Eastman Chemical Company, that by having one e-stop could compromise the operations; if I have a hospital environment that doesn't feel comfortable with all their boilers going down at one particular time. If the question that goes back is yes, how you're trained, how do we
7 8 9 10 11 12 13 14	<pre>happened out in the public was constructions of certain types of units such as instantaneous water heaters that are hung on the wall, modular units that are slid together, that's the issues.</pre>	7 8 9 10 11 12 13 14	what's my personal belief in this. What does the code tell you? It's like if I have a situation at Eastman Chemical Company, that by having one e-stop could compromise the operations; if I have a hospital environment that doesn't feel comfortable with all their boilers going down at one particular time. If the question that goes back is yes, how you're trained, how do we understand that I kind of like the idea that
7 8 9 10 11 12 13 14 15	happened out in the public was constructions of certain types of units such as instantaneous water heaters that are hung on the wall, modular units that are slid together, that's the issues. When we talk about e-stops, e-stops is a one size fits all, is it not? CHAIRMAN MORELOCK: Well MR. TOTH: No. When we're talking about high-pressure boilers, it really is.	7 8 9 10 11 12 13 14 15	what's my personal belief in this. What does the code tell you? It's like if I have a situation at Eastman Chemical Company, that by having one e-stop could compromise the operations; if I have a hospital environment that doesn't feel comfortable with all their boilers going down at one particular time. If the question that goes back is yes, how you're trained, how do we understand that I kind of like the idea that Mr. Fox alluded to with the e-stops, that there is
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7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<pre>happened out in the public was constructions of certain types of units such as instantaneous water heaters that are hung on the wall, modular units that are slid together, that's the issues.</pre>	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<pre>what's my personal belief in this. What does the code tell you? It's like if I have a situation at Eastman Chemical Company, that by having one e-stop could compromise the operations; if I have a hospital environment that doesn't feel comfortable with all their boilers going down at one particular time. If the question that goes back is yes, how you're trained, how do we understand that I kind of like the idea that Mr. Fox alluded to with the e-stops, that there is an indicator, that we not only run a line that a circuit that disconnects, but we could also you, as a board, could also mandate that those e-stops are lit to show indication. That's a possibility. But again, this opens up the dialogue. When you hammer it down and you say no,</pre>

	Dage 166		Dago 167
1	Page 166 question?	1	Page 167 approved on a permit, right?
2	MR. DUNLAP: Derrick Dunlap, with	2	MR. TOTH: I would say that that
3	Jewell Mechanical. What about they have to have	3	would be a way to resolve that issue. Again, it
4	one e-stop that will shut them all down. But you	4	goes back to an understanding of we're not just
5	could also, like, if they had five boilers, you'd	5	going to turn it down because that's a personal
6	have Boiler 1, 2, 3, 4, 5, and then a universal on	6	preference. It's not my personal preference to
7	top that would kill them all. You just open a	7	have four e-stops at Nokian Tyre.
8	contact, right? So, I mean, you run it through	8	MR. BOWERS: So what would keep
9	the first switch, it would kill the individual	9	is there a fallback? You talk about Eastman.
10	boiler, come out of it, run up the second switch	10	Eastman goes there and they said we're putting in
11	where they all run through, and you kill them all	11	this new boiler room and we want we've got a
12	right there. So no matter what, they have to have	12	new boiler room and we want multiple e-stops. If
13	one switch, but then if they wanted the option,	13	they go to their inspectors, Jesse Smith, or
14	then they have the option underneath.	14	whoever it is out in that area, and says, I want
15	MR. TOTH: I mean, those are all	15	this, and he says, no, Sam says only one, well,
16	you know, those are options there, too. Again, it	16	we'd agree with that. Is there a forum that they
17	allows for us to say one e-stop and be as safe as	17	could bring it to the board
18	possible, and then say, however, if you want	18	MR. TOTH: Well, yeah. They can
19	this when you apply, you have to indicate that.	19	always bring anything they want to the board.
20	And then we can go from there.	20	MR. BAILEY: Yeah. I was going to
21	CHAIRMAN MORELOCK: So part of the	21	mention that, that in the statute and in the
22	permitting process, if it's one e-stop, it's	22	rules, any action taken by the boiler unit, they
23	pretty straightforward, but if somebody has a	23	can appeal that within 15 days and come before the
24	complex system, as long as they present a plan to	24	board to state their case and to either see if the
25	the State that's acceptable, then that will be	25	board will reverse it or whatever. So there is an
	Page 168		Page 169
1	avenue to protest something that the boiler unit	1	request is just consider that in your
2	does, or if they don't permit them or say, hey,	2	decision-making.
3	you have to have one e-stop and they are real	3	MR. BAUGHMAN: But I feel that
4	adamant that they need multiple ones, but Sam and	4	you're in the minority in operations.
5	Chris won't approve it, they can appeal it and	5	CHAIRMAN MORELOCK: Oh, I agree.
6	come here.	6	MR. BAUGHMAN: And so what we're
7	CHAIRMAN MORELOCK: And what are	7	looking at is and we don't know the percentage,
8	other jurisdictions doing about this? Do they	8	but we're talking about high 90s. So we're trying
9	have the same problem?	9	to mold this to carry the majority and then attend
10	MR. CHAPMAN: They haven't said	10	to the minority. And I think that by what we're
11	anything at the moment.	11	discussing here, which is great discussion, that
12	CHAIRMAN MORELOCK: I mean, I agree	12	we'll be able to look at that and then be able to
13	with Mr. Toth in the fact that we've got national	13	come up with a conscientious decision based on
14	and international standards that say you can, and	14	safety. Because that's what this whole board is
15	they've vetted it probably a lot longer than we've	15	about, is safety.
16	vetted it.	16	CHAIRMAN MORELOCK: I agree.
17	Yes, the jurisdiction can make	17	MR. BAUGHMAN: And so one of my
18	requirements more restrictive if they choose. And	18	questions that comes up in this is that we're
19	that's fine. But it's I don't want anybody to	19	talking about the permitting and what have you,
20	feel like we're compromising safety, because we	20	what do we do retroactively, which is also part of
21	don't. But our boilers, you know, we've got DCS	21	a discussion. So we're looking at moving it here
22	control rooms with people sitting in the	22	forward, but then what do we look at for those
23	powerhouse watching those things 24/7. So it's	23	that are behind, retroactive, that don't have
24	not like a boiler sitting out there that's only	24	e-stops presently or do have e-stops. But either
25	seen, at best, every four hours. And so my	25	way, that's part of the further discussion that I

	Page 170		Page 171
1	wanted to put out there.	1	This body sets the rule, tells that body how to
2	MR. TOTH: If I can interject, you	2	enforce it. And so whichever way, I'm fine with.
3	guys, this board has already addressed that and	3	I'm just playing almost devil's advocate here and
4	you've done a great job with that. And that's on	4	saying, you know, let's be careful about it.
5	the later inquiry that says preexisting locations	5	But, again, if you go with one
6	are required to have e-stops. So when you do go	6	e-stop, I'm walking out of here happy as a lark
7	in, based on the requirements leaving today, be it	7	saying this is easy now. Any client I have,
8	one, be it one for each boiler, whatever it is,	8	you've got one e-stop.
9	the understanding is you don't have an e-stop. No	9	MR. NEVILLE: (Indicating.)
10	different than what I did with Parkwest Medical	10	CHAIRMAN MORELOCK: Mr. Neville, do
11	when they became my client, and I said, "Look,	11	you have a comment?
12	guys, you don't have e-stops at every point of	12	MR. NEVILLE: Is it possible for
13	egress. Let's get them there."	13	the board to have a preference for the 95 percent?
14	Now, at that particular time, their	14	So the preference may be to have one e-stop which
15	choice was to piggyback on what they already had,	15	allows the 5 percent that have a valid cases to,
16	which was four e-stops, one for each boiler, and	16	you know, not have just one e-stop that would kill
17	then they added the fifth. And then they had	17	the process. And maybe that could take care of
18	panels at the other two points of egress. But I	18	the 95 percent of the ones that I mean, one
19	think it's done a great job in handling that.	19	e-stop is convenient for a designer to say, "Hey,
20	Moving forward, now, what my concern	20	we're going to have one e-stop for that boiler
21	would be is for an inspector to go in and see five	21	room. But there's other places where they're not
22	e-stops or four e-stops and start requiring, no,	22	in a boiler room. They're, you know, in a on a
23	you've got to put these all on one circuit. See,	23	campus, you know, multiple places.
24	that would be a concern that I would have. But,	24	So I was just curious if
25	again, that's the responsibility of this body.	25	preference you know, if we could state in the
	Page 172		Page 173
1	Page 172 checklist that, hey, the preference is to have one	1	Page 173 MR. BAUGHMAN: if I'm not
1 2		1 2	•
	checklist that, hey, the preference is to have one		MR. BAUGHMAN: if I'm not
2	checklist that, hey, the preference is to have one e-stop per egress in the boiler room. And to do	2	MR. BAUGHMAN: if I'm not mistaken.
2 3	checklist that, hey, the preference is to have one e-stop per egress in the boiler room. And to do it that way, to get most of them to comply with	2	MR. BAUGHMAN: if I'm not mistaken. MR. TOTH: I'm sorry I'm talking
2 3 4	checklist that, hey, the preference is to have one e-stop per egress in the boiler room. And to do it that way, to get most of them to comply with that.	2 3 4	MR. BAUGHMAN: if I'm not mistaken. MR. TOTH: I'm sorry I'm talking over you. Go ahead.
2 3 4 5	checklist that, hey, the preference is to have one e-stop per egress in the boiler room. And to do it that way, to get most of them to comply with that. MR. BAUGHMAN: Instead of a	2 3 4 5	MR. BAUGHMAN: if I'm not mistaken. MR. TOTH: I'm sorry I'm talking over you. Go ahead. MR. BAUGHMAN: No. Just my
2 3 4 5 6	checklist that, hey, the preference is to have one e-stop per egress in the boiler room. And to do it that way, to get most of them to comply with that. MR. BAUGHMAN: Instead of a jurisdictional rule?	2 3 4 5 6	MR. BAUGHMAN: if I'm not mistaken. MR. TOTH: I'm sorry I'm talking over you. Go ahead. MR. BAUGHMAN: No. Just my thoughts with that and it's good thought and I
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Page 174 Page 175 1 handles the problem. It kills the boiler. 1 I started the permit process. It doesn't matter But 2 then if you have somebody that says, oh, well, 2 if I checked off or stamped it or I had a designee 3 this tells me I have to have one, but I can also 3 do it, that wasn't approved until that inspector 4 apply with the permit, in writing, an explanation 4 went out there and verified everything here 5 of why I choose to have individual e-stops. And 5 matched what they had out there. 6 so then you do have an Eastman Chemical Company or MR. BOWERS: That would do two --6 7 one of the hospital groups. And then in that, you 7 that's a good point. It would give the state 8 can give -- because do you still have the 8 inspector a discretion. He says this is the 9 guidelines of how to fill out the permit? Is that 9 reason we do it. If for some reason the state 10 still with it? 10 inspector don't agree with it, then they can 11 appeal it to the board. MR. CHAPMAN: Yes. 11 12 MR. O'GUIN: Yes. 12 MR. TOTH: Sure. Absolutely. 13 MR. TOTH: So under that bubble, 13 MR. BOWERS: So they can go -- but 14 that number bubble, you put in there what's 14 the state inspector would also have that 15 expected in that letter of your intent, how you 15 discretion that he can approve it if he wants to. 16 recommend, you know, the training of the Say the guy comes to Sam or Chris and says this is 16 17 individuals, and then the boiler unit can look at the reason we need to put multiple switches in, 17 18 that and say, you know, "Yes. Okay. We agree to 18 because we've got this process, we're going to --19 that." 19 the product will clog up or it's going to be more 20 And, again, just like this board, 20 dangerous to do, shut everything down. If they 21 this board goes and makes a ruling on a variance. explain it to Chris and Sam, Chris and Sam have 21 22 That ruling does not get checked off until when? 22 the authority to say, okay, I approve that. 23 Until the boiler unit does an inspection. 23 MR. TOTH: Sure. MR. BOWERS: As long as you do 24 MR. CHAPMAN: That's right. 24 25 MR. TOTH: Same thing happened when 25 this, this, this, I'll let you do that. That way Page 176 Page 177 1 it gives them an avenue out. Because 99 percent 1 with the exception, which, however, you may apply 2 of the time, it's going to be one. But at least 2 for multiple e-stops through, you know, the boiler 3 they have that leeway to change it, then, for some 3 inspection unit, through the permitting. And 4 we'll work together and verbalize that. 4 reason. The owner also has an avenue and says 5 maybe they don't understand. I want to appeal it 5 MR. BAILEY: Mr. Chairman, 6 to the board. 6 piggybacking off of that gentleman's suggestion 7 7 over there -- and maybe I'm missing something MR. TOTH: And I agree with that. 8 Because you're -- again, I started this with 8 here -- if we have a requirement that says you 9 talking about the exception and the rule. The 9 have to have one e-stop to shut all the boilers 10 rule in this case is 90-something plus are going 10 down at this location, there's nothing that 11 to go with one e-stop. The exception is that few 11 prohibits that company from adding separate 12 percentile that will want multiple. And I think 12 e-stops, just so long as they have one major 13 that to turn it around, the answer to the question 13 e-stop. I mean, is there anything that now would 14 or the answer to the inquiry is yes, it's 14 prohibit that? 15 required. Yes, required. However, a variance may 15 CHAIRMAN MORELOCK: Well, I mean, 16 for us, if you want one e-stop to shut the whole 16 be issued upon permitting, or a variance request. 17 And we can wordsmith that to where it comes out 17 thing down, you would program the DCS to shut the 18 right. But in essence, what we're trying to 18 whole thing down. 19 achieve is yes, you're required to have one e-stop 19 MR. BAILEY: Right. 20 to kill all the boilers in the boiler room in that 20 CHAIRMAN MORELOCK: And that's 21 single space, not the -- if they have multiple 21 not --22 boiler rooms all over, just in that space, right? 22 MR. BAILEY: But, I mean, can you 23 MR. CHAPMAN: That individual 23 not then have separate --24 space. 24 CHAIRMAN MORELOCK: Oh, yeah. 25 25 MR. TOTH: And then follow that up MR. BAILEY: Yeah. But, I mean,

 1 right now there's that would prohibit it. If 2 you-all took the position that you have to have 3 one that shuts them all down, there's nothing 4 right now that would prohibit them from adding 5 separate ones for each boiler if that's what they 6 wanted to do. 7 MR. TOTH: Absolutely. 8 CHAIRMAN MORELOCK: Yes. 9 MR. TOTH: I would say, if I may 10 answer for you, absolutely. The only prohibitive 11 factor that you're going to have on that, 12 Mr. Bailey, is where it comes you know, it's a 13 customer's choice. It's cost prohibitive. I 14 mean, it going to you're running conduit or 15 conductors and wires and everything else. That's 16 why when somebody wants to put in multiple 17 e-stops, they consciously know we're going to quadruple our 18 They consciously know we're going to quadruple our 19 ocst in doing this. 20 So I propose to you, Mr. Chairman, 21 and the board, that we revise reply, after this 22 discussion for Number 5, to yes, and then put the 23 waiver, because a variance comes here; a waiver 		Page 178		Page 179
3 one that shuts them all down, there's nothing 4 Page Note 4 right not that would prohibit than from adding 5 separate companies, like Walero, hospitals, 5 separate comes for each boller if that's what they 6 Satura, all these - you know, ETSU, I don't 8 CHATEWN MREDOX: Yes. 9 Satura, all these - you know, I don't how if they've 9 MR. TOTH: Absolutely. 8 9 Satura, all these - you know, I don't how if they've 10 answer for you, absoluthely. The one - you know, I and they re boll sature one of the absolute of	1		1	goes there. Page 179
4 right now that would prohibit them from adding 5 5 separate ones for each bolker if that's what they 5 6 wanted to do. FR. TUTH: Absolutely. 7 MR. TUTH: Absolutely. 5 9 NR. TUTH: I would any, if I may 9 opt one e-stop for all their bollers or not. Bu 9 NR. TUTH: I would any, if I may 9 opt one e-stop for all their bollers or not. Bu 11 mean, ig oing to -wy on that, 11 12 MR. TUTH: I would any, if I may 9 opt one e-stop for all their bollers or not. Bu 13 customer's choice. Tt's cost prohibitive 11 14 mean, ig oing toy ou're running conduit or 12 CUALENAN MCEELOCK: They've got a 15 conductors and wirce and everything else. That's 13 track history of boing aafc. MW are we going to advey may be propeote to you, Mr. Chairman, 16 meth board, that we revise reply, after this 16 probles. That's monit the whote thing down so 21 you don't hurt anybody. I agree with yon. But if 1 admit the shore of these folks are 22 you don't hurt anybody. I agree with yon. But if 1 admit the whote thing down so 22 would het pressume	2	you-all took the position that you have to have	2	CHAIRMAN MORELOCK: Well, I mean,
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10 answer for you, absolutely. The only prohibitive. 10 system. 11 factor that you're going to have on that, 11 MR. TOTH: Exactly. 11 MR. Belly, is where it comes - you know, it's a 11 MR. TOTH: Exactly. 12 CHAINWAN MORELOCK: They've got a 13 track history of being safe. Why are we going to being wat they're doing and it's not been a 15 contors and wires and everything else. That's 14 force them to actually gend more money to keep 16 why when somebody wants to put in multiple 17 I'm not against i. I understand 16 why when somebody wards to put in multiple 17 I'm not against i. I understand 17 So I propose to you, Mr. chairman, 10 wholeheartedly, because they don't have we've 20 So I propose to you, Mr. chairman, 10 whole heart coll, we're we're agoing to dualy all that. 21 attrach instance I. would call it a 12 ind these ong conversations, yoa, you 23 ward or thart anybody. I agree with you. But if 14 assistant chief. That's where this waiver comes 23 wouldn't hurt anybody. I agree with you. But if 1 assistant chief. That's where this waiver comes	8	CHAIRMAN MORELOCK: Yes.	8	you don't want people to feel like you're
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125 It b communication many to the inspectors. It b [25 inspection. And really, it goes back to				
24 not an inspector's decision, a field inspector, a 24 inspections, too.		_		
24 not an inspector's decision, a field inspector, a 24 inspections, too. 25 deputy inspector. It's between the chief and the 25 MR. BAUGHMAN: So my next the				_
		acpacy inspector. It is between the third and the	2.5	The brooment of my next the

	Page 182		Page 183
	next follow-up to that is you've got a preexisting	1	
2	boiler that's then getting and it's already got	2	-
3	e-stops, and it's being removed. And a new boiler	3	what's a repair. We just say at the time of
4	is going in, new permit, then do you and I'm	4	repairs to the boiler, the boiler has to be
5	taking that I kind of know the answer, but I'm	5	upgraded to the new code of the day. Well, that's
6	saying you've got to go back to them and say codes	6	subjective. And it also says, well, the old
7	have updated. We now have to go in and change our	7	boilers, even though they've got old, outdated
8	estop requirement or go for a waiver.	8	single-gas valves and what have you, those are the
9	MR. TOTH: And I think that's where	9	ones that really should be updated because the new
10	the boiler unit would need to look at that. I	10	boilers have all the newest and safer controls.
11	know if I were still sitting in that seat, I would	11	But we grandfather in the older stuff. And I've
12	look at it and say, okay, it's a preexisting. Are	12	never quite understood that thinking except from
13	they showing an aptitude for safety? Are they	13	an economic standpoint, not from a safety
14	looking you know, are they handling what's	14	standpoint.
15	the reason? Why do you want to have that?	15	And so, you know, you get to weighing
16	I think it is a retroactive thing.	16	out both these things. We're here because of
17	And if you enforce it, it's going to be kind of a	17	safety, but we're also considering the economic
18	little bit hard on the end user. I would say as	18	impacts of what it is to the customers. And you
19	long as they can show a sense of safety, that	19	almost have to put that aside, because safety
20	replacement boiler gets to be put into the same	20	trumps everything. So not to get on a bandwagon
21	circuit as the one that they're taking out.	21	about some of that, but at any rate, it's still
22	MR. BAUGHMAN: Well, and I go back	22	thought for discussion on grandfathering and so
23	to thinking about some of our codes. We've got	23	forth. And that may be something we take up as we
24	codes that are grandfathered in. We've adopted	24	go through this process.
25	CSD-1, but we said, well, the old boilers, we	25	MR. TOTH: Well, if I may and I
	Page 184		Page 185
1	was paying close attention, but I was multitasking	1	Mr. Bailey alluded to, then if the Boiler Unit
2	was paying close attention, but I was multitasking a little bit and I was doing a little wordsmithing	1 2	Mr. Bailey alluded to, then if the Boiler Unit decides no, well, that gives grounds for the
	was paying close attention, but I was multitasking a little bit and I was doing a little wordsmithing here the response would be changed from current		Mr. Bailey alluded to, then if the Boiler Unit decides no, well, that gives grounds for the submitter to then come back and say, well, I would
2	was paying close attention, but I was multitasking a little bit and I was doing a little wordsmithing here the response would be changed from current to yes, however, the owner-user or their designee,	2	Mr. Bailey alluded to, then if the Boiler Unit decides no, well, that gives grounds for the submitter to then come back and say, well, I would like to appear on the boiler board of rules to
2 3	was paying close attention, but I was multitasking a little bit and I was doing a little wordsmithing here the response would be changed from current to yes, however, the owner-user or their designee, installer, may apply for a waiver from the chief	2 3	Mr. Bailey alluded to, then if the Boiler Unit decides no, well, that gives grounds for the submitter to then come back and say, well, I would like to appear on the boiler board of rules to yeah, absolutely. It absolutely gives
2 3 4	was paying close attention, but I was multitasking a little bit and I was doing a little wordsmithing here the response would be changed from current to yes, however, the owner-user or their designee,	2 3 4	Mr. Bailey alluded to, then if the Boiler Unit decides no, well, that gives grounds for the submitter to then come back and say, well, I would like to appear on the boiler board of rules to
2 3 4 5 6 7	was paying close attention, but I was multitasking a little bit and I was doing a little wordsmithing here the response would be changed from current to yes, however, the owner-user or their designee, installer, may apply for a waiver from the chief boiler inspector during the installation permitting.	2 3 4 5 6 7	Mr. Bailey alluded to, then if the Boiler Unit decides no, well, that gives grounds for the submitter to then come back and say, well, I would like to appear on the boiler board of rules to yeah, absolutely. It absolutely gives opportunity. Obviously, the Boiler Unit is not
2 3 4 5 6 7 8	was paying close attention, but I was multitasking a little bit and I was doing a little wordsmithing here the response would be changed from current to yes, however, the owner-user or their designee, installer, may apply for a waiver from the chief boiler inspector during the installation	2 3 4 5 6	Mr. Bailey alluded to, then if the Boiler Unit decides no, well, that gives grounds for the submitter to then come back and say, well, I would like to appear on the boiler board of rules to yeah, absolutely. It absolutely gives opportunity. Obviously, the Boiler Unit is not just going to say no. They're going to have a
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Page 186 Page 187 1 installations. How do we address e-stops with 1 an e-stop. They've just got an on/off switch. 2 rental boilers, temporary boilers. 2 And so as they're going in and they're tying in to 3 MR. TOTH: On top of the 3 an existing boiler room that may have multiple 4 installation -- or on top of the ones that are 4 boilers that are still online. It's there to 5 already there? So let me get this straight. So 5 augment or what have you. I was just kind of 6 you bring in a boiler -- again, it goes really 6 wondering how that goes through on our permitting 7 down to an individual case-by-case basis. Because process. And there again, I've looked at rental 7 8 I have a boiler room that has five boilers. Am I 8 boilers that don't have an e-stop on their 9 bringing that boiler into my boiler room? Or is 9 trailer. The enclosed ones typically do. They're 10 it on a trailer outside of my boiler room? 10 box-enclosed and what have you. But there's 11 Because as we've discussed before, each boiler 11 companies that bring boilers in that are on these 12 room is it's own entity. 12 open trailers, and I was just wondering how that 13 So if I have three boilers in this gets addressed. At any rate, that kind of goes 13 14 boiler room, I have one e-stop. That one e-stop 14 back to their permitting and what have you, but I 15 kills all three boilers. If in a situation that was just kind of thinking about, as we're going 15 16 third boiler has to be repaired but I need to through this, when they make a permit application 16 17 bring in a rental unit, that rental unit is for installation, how we address the e-stop on 17 18 sitting outside in its own trailer. It, yes, 18 that. 19 should have its own e-stop. 19 MR. TOTH: And I think you hit the 20 MR. BAUGHMAN: Well, and that 20 nail on the head when you talk about that that's 21 was -- and so just as I'm going through thinking 21 the exceptions. And that's where the Boiler Unit 22 about these variables in the industry, they pull 22 is able to come in and put a case-by-case eye on 23 up a rental boiler, some of these rentals aren't 23 the situation. Because those boilers that are out 24 even in an enclosed trailer. Some of them are 24 on the trailer, yes, they have to have either an 25 just weather-proofed boilers that don't even have 25 e-stop plunger or an emergency disconnect. Page 188 Page 189 MR. BAUGHMAN: Yeah. They're a 1 and it goes back to the boiler unit itself. But 1 2 it's interesting what we work with in the 2 separate room in itself, just as if you had a 3 industry, isn't it? 3 separate --MR. O'GUIN: And, Dave, there 4 MR. TOTH: As long as -- yeah, 4 5 right. As long as they have their own -- I'm 5 shouldn't be many multiple e-stops out there. I 6 sorry. 6 mean, this has been in force for many past chiefs, 7 MR. BAUGHMAN: Sure. Well, and 7 one e-stop in a boiler room, except for, like, 8 we've got -- well, outside of kind of over in your 8 Eastman and a couple of others. But all the 9 neck of the woods, the ammunition place that's got 9 hospitals that are the majority of these variances 10 boilers spread out all over the place, and they've 10 are one e-stop, with apparently Parkwest is going 11 to be the first one that I've done a variance on 11 had issues in the past. But there again, when one 12 of those -- what I would like to do is also look 12 that has multiple e-stops in a boiler room. 13 at it -- and the customer may want this, too, but 13 MR. BAUGHMAN: I agree. I've seen 14 when they have an explosion in one of those TNT 14 many that have one of for all of them. 15 buildings, the buildings are supposed to be spread 15 MR. O'GUIN: So we're not talking, 16 out enough that they -- but when you walk up to a 16 as far as retroactive. I mean, there shouldn't be 17 building and it shows -- they show the amount of 17 that many out there. 18 TNT that's in the building, and those things are 18 MR. BAUGHMAN: But there again, the 19 in the five and six figures, you're going, holy 19 decision needs to be made, do we make it 20 moley. 20 retroactive or not. And, you know, I've got my 21 And there again, it's an individual own view on that from a safety standpoint. But 21 22 building which would require an individual e-stop 22 there again, I've got views on a lot of stuff. 23 for one boiler, but it makes me wonder about the 23 MR. TOTH: That's all I've got. 24 existing buildings that are in close proximity. 24 MR. BAUGHMAN: So we're changing it 25 But, there again, it's not a one-size-fits-all, 25 to yes with these changes for now, and then does

Page 190 Page 191 1 it get brought back before the board for the final 1 approved the other ones except for Number 5. 2 review, or --2 MR. FOX: Number 5. CHAIRMAN MORELOCK: Well, no. 3 3 MR. BOWERS: And we've deleted one 4 Everything else has been voted. 4 of them off of there. 5 MR. BAUGHMAN: Okay. 5 MR. FOX: We deleted 9. 6 CHAIRMAN MORELOCK: So if you-all MR. BAUGHMAN: That was 9. Which 6 7 move to vote, we're going to vote on Item 5 right 7 this decision may carry over into our March --8 MR. TOTH: It definitely will. It 8 now. 9 MR. BAUGHMAN: And I didn't know 9 definitely will, into March, and the low-pressure 10 about any tweaking or whatever that needed to be 10 boilers. I think that's going to be a very good 11 done back through the process. Does that go 11 discussion based on much conversation in the 12 before us, or does that carry back on through 12 industry concerning low-pressure boilers and 13 them? 13 potable water heaters and things of that nature. 14 MR. TOTH: That's going -- I would 14 So what would happen, Mr. Bowers, is 15 say, not to speak for the Boiler Unit, it's the 15 that once the board agrees on this, we agree on 16 Boiler Unit's responsibility to update their 16 the verbiage of the response, if the board agrees 17 permits to address the requirements. with that, I'll go back in and clean this up as 17 18 MR. BAUGHMAN: Sure. Good. I 18 per the requirements and send it in to Carlene. 19 don't have to think about anything further, then, 19 And then it would be -- you would publish it with 20 other than saying yes or no. 20 the other board interpretations that are out on 21 MR. BOWERS: So if we approve 5, 21 the Web. 22 that should cover the whole --22 CHAIRMAN MORELOCK: Okay. Any 23 CHAIRMAN MORELOCK: That whole 23 other questions or comments? 24 item. 24 (No verbal response.) 25 MR. BOWERS: Because we've already 25 CHAIRMAN MORELOCK: All right. Page 192 Page 193 1 We've got a motion on the floor. I'm going to 1 Mr. Chairman and members of the board. The 2 call the question. All in favor say aye. 2 interpretation, as before you, came from 3 discussions here at previous meetings. And I 3 (Affirmative response.) CHAIRMAN MORELOCK: Opposed? 4 4 volunteered to actually put together an 5 (No verbal response.) 5 interpretation request, because I'm pretty sure CHAIRMAN MORELOCK: Abstentions, б 6 there's going to be a lot of questions out there 7 in the industry. 7 not voting? 8 (No verbal response.) 8 I based the interpretation inquiries, 9 CHAIRMAN MORELOCK: Motion carries. 9 and more specifically, the replies on --MR. BOWERS: So the motion there 10 primarily, the replies that come from National 10 11 was for Number 5, or was that for all of them? 11 Board Inspection Code, the ASME. I think that 12 MR. BAUGHMAN: Number 5. 12 we're all in agreement that carbon monoxide 13 CHAIRMAN MORELOCK: We voted the 13 detection is critically important, not only in 14 other ones. Remember, we took them one at a time. 14 boiler operations but anywhere you have fuel 15 MR. BOWERS: So we don't have to 15 that's combusted. 16 We've all heard the horror stories 16 add any more to that. 17 CHAIRMAN MORELOCK: No. We're 17 around carbon monoxide even to the point where not 18 done. We are done. 18 only people, children, have died but become 19 19 gravely ill and really didn't understand why they All right. Let's look at our agenda 20 and see where we're at. That takes us to 20 were ill for some time. We've run into that in 21 BI 19-02. 21 the industry where you do have boiler operators, 22 Mr. Toth, do you want to present the 22 people that are working in and around the boiler 23 interpretation concerning carbon monoxide 23 rooms becoming ill without an understanding. It 24 detectors? 24 didn't go to the point where it was fatal, but to 25 25 the point where they didn't understand why they MR. TOTH: Thank you again,

	Page 194		Page 195
1	were feeling so bad. And it all came back to	1	So the reply comes back as yes.
2	carbon monoxide.	2	Number 2, if Inquiry 1 is yes, does this
3	So I really applaud the State for	3	requirement include both high- and low-pressure
4	taking the approach of enforcement, and, also, the	4	boilers?
5	NBIC. Now, with that said, it may get a little	5	Reply, yes.
6	concerning where this body enforces carbon	6	Inquiry 3, if Inquiry 1 is yes, is
7	monoxide detection. And so that's where we've	7	unfired steam, slash, water boilers utilizing the
8	brought that to the attention of the board.	8	fired fuel waste heat combustion gases; example,
9	So if you would, I would like to read	9	heat recovery steam generator as its energy source
10	down through the inquiries as I've done before,	10	required so?
11	the replies, and then open it up for any	11	Answer is yes.
12	discussion that the board may have. And I'll try	12	Number 4, is it required to have a CO
13	to answer from my end, but I think everybody here	13	detector where the boiler room or space where a
14	has their own opinion on it as well.	14	boiler is installed possesses a higher-space
15	Inquiry 1, is it required to have a CO	15	mechanical ventilation system that either
16	detector/alarm in the boiler room or space	16	continuously operates or electrically tied to
17	containing a boiler that has a fuel firing energy	17	operate whenever the boiler is on in the space or
18	input of greater than or equal to 100,000 BTUs per	18	fired?
19	hour?	19	The response is no.
20	Just for knowledge's sake, the	20	Again, these are not my personal
21	100,000 BTUs per hour is based off of the	21	opinions.
22	inspection requirements set for low-pressure units	22	(Mr. Baughman exits the room.)
23	here within the state of Tennessee. Anything	23	MR. FOX: Can I interject something
24	equal to that or greater than is required to be	24	there?
25	inspected and registered by the State.	25	MR. TOTH: No.
	D		D 100
1	Page 196 MR. FOX: Not. vet?	1	Page 197 Reply, yes, One of which may be a
1	MR. FOX: Not yet?	1	Reply, yes. One of which may be a
2	MR. FOX: Not yet? MR. TOTH: Not yet. Again,	2	Reply, yes. One of which may be a battery-powered source.
2 3	MR. FOX: Not yet? MR. TOTH: Not yet. Again, Mr. Fox, this is not a personal opinion. This is	2	Reply, yes. One of which may be a battery-powered source. Number 8, is it required for a
2 3 4	MR. FOX: Not yet? MR. TOTH: Not yet. Again, Mr. Fox, this is not a personal opinion. This is just an opinion for editorial.	2 3 4	Reply, yes. One of which may be a battery-powered source. Number 8, is it required for a detector to be dedicated for CO detection only, or
2 3 4 5	MR. FOX: Not yet? MR. TOTH: Not yet. Again, Mr. Fox, this is not a personal opinion. This is just an opinion for editorial. Mr. Chairman, would you like me to	2 3 4 5	Reply, yes. One of which may be a battery-powered source. Number 8, is it required for a detector to be dedicated for CO detection only, or may the detector be a multipurpose detector/alarm?
2 3 4 5 6	MR. FOX: Not yet? MR. TOTH: Not yet. Again, Mr. Fox, this is not a personal opinion. This is just an opinion for editorial. Mr. Chairman, would you like me to pause until Mr. Baughman	2 3 4 5 6	Reply, yes. One of which may be a battery-powered source. Number 8, is it required for a detector to be dedicated for CO detection only, or may the detector be a multipurpose detector/alarm? I put No. But we need to I need
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1	Page 198 installed?	1	Page 199 something that's beyond their expertise.
2	Reply is no.	2	MR. TOTH: I can see where you're
3	Number 10, is there a requirement for	3	coming from on that, Mr. Bowers; however, on the
4	the decibel level, the audible alarm must emit?	4	other side of that, it's about safety.
5	Is there a requirement for the decibel level the	5	MR. BOWERS: How about sprinkler
6	alarm must admit?	6	systems? How about fireproofing? How about
7	The response is yes. The decibel	7	there's a lot of things we could put in the boiler
8	level must exceed to the normal operation decibel	8	room that shouldn't fall back on the boiler
9	level of the boiler room or space where the boiler	9	people.
10	is installed or located.	10	MR. FOX: But a sprinkler system or
11	And that's it. And I will be I	11	something like that does not have the capability
12	would recommend that we do as we've done in other	12	of emitting CO as a boiler does.
13	interpretations, and just go down through and open	13	MR. BOWERS: I know, it doesn't.
14	those that have discussion to discuss.	14	MR. TOTH: And if I may.
15	MR. BOWERS: Well, one thing I'll	15	MR. BOWERS: And I recommend to all
16	mention, it's kind of you know, I think, to the	16	my clients, anyhow, that they put a CO2 tester.
17	National Board, by coming out with this is	17	In fact, it should be regulated by the NBIC, which
18	overreaching. That's my personal opinion.	18	it has. Now it's fallen back to the State.
19	You know, this is something that's	19	MR. TOTH: And I definitely see
20	required by a lot of fire codes anyhow, and just	20	where you're coming from, Mr. Bowers, on that.
21	because they don't enforce it like maybe they	21	The only thing that I would the caveat I would
22	should, now it's fallen back on the boiler people	22	add onto that is what is causing that CO2
23	to enforce something that doesn't really have to	23	emission.
24	do with a boiler. It's just a safety issue. So	24 25	MR. BOWERS: Oh, yeah. MR. TOTH: CO2 emission is coming
25	now it's fallen back on the boiler people to do	25	MR. 101H. COZ EMILSSION IS COMING
	Page 200		Page 201
1	from that boiler in more cases than not.	1	MR. BOWERS: Which is very vague.
2	MR. BOWERS: Well, I agree it's	2	All it says is put in a CO2 monitor. That's all
3	needed.	3	they say. I mean, it's very vague in what they
4	MR. BAUGHMAN: And so	4	put out there.
5	jurisdictional-wise in the state of Tennessee, am	5	MR. TOTH: And that's why I felt
6	I correct that it falls under the fire	6	the need and, I think, the board members here felt
7	marshal's	7	the feed that it addresses and gets more specific
8	MR. O'GUIN: Fire marshal has got	8	as to what are those requirements.
9	some. They've got a few counties that are exempt	9	MR. O'GUIN: Chairman?
10	from it. The rest of them are enforced by the	10	CHAIRMAN MORELOCK: Yes.
11	state fire marshal's office. Any fired vessel	11	MR. O'GUIN: Those counties there,
	Jable was what it waves measure a list of	12	they said, had local codes they'll enforce, and so
12	let's see what it says. There's a list of		
13	state	13	the state fire marshal's office don't enforce in
13 14	state MR. CHAPMAN: There's, like, nine	14	those counties.
13 14 15	state MR. CHAPMAN: There's, like, nine or ten of them.	14 15	those counties. CHAIRMAN MORELOCK: Yeah. And, I
13 14 15 16	state MR. CHAPMAN: There's, like, nine or ten of them. MR. O'GUIN: Counties exempt.	14 15 16	those counties. CHAIRMAN MORELOCK: Yeah. And, I mean, that's part of our process safety when we
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Ι.	Page 202		Page 203
1	MR. BAUGHMAN: It's interesting.	1	part of this inquiry. But when the air intake
2	MR. TOTH: Well, a lot of these	2	itself fails and there's no interlocks between the
3	requirements that you're seeing from this	3	air intake and the boiler itself, it can produce
4	interpretation came specifically out of the NFPA	4	CO. But we'll discuss that as it gets down to it.
5	code book on CO monitoring. And a very nice,	5	But yeah, more deaths and injuries each year
6	white page that was written by a member of the	6	attributed to CO poisoning than there are boiler
7	NFPA talking about CO monitoring, something that	7	pressure vessel accidents.
8	really has hit the industry obviously been	8	MR. TOTH: And one of the things
9	there forever but has really hit the industry	9	that I found during my research on this is that
10	in the past decade of the monitoring and the	10	one would think that a number that has
11	requirements.	11	increased over the past ten years, has doubled,
12	And I could take it from both sides,	12	nearly tripled, over the past ten years in
13	as to the responsibility, because as \ensuremath{Chris} and \ensuremath{Sam}	13	reported CO2 incidents, would think, oh, my
14	have looked at, I mean, they've went to the fire	14	goodness, we've got units out there that's
15	marshal, and it's the same thing we did back in	15	spitting out I keep saying CO2 keeps
16	the day, went to the fire marshal if it was CO or	16	spitting out CO, and that's not the case. They've
17	if it was gas requirements. They just don't have	17	always been doing it. It's just now we have
18	the enforcement. And so when we look at it,	18	better monitoring systems in place.
19	what's our responsibility, that's where the NBIC	19	So now they're able to attribute it.
20	came from came up with it.	20	So the fire departments that are getting called
21	MR. BAUGHMAN: We just had one	21	out because of these alarms, we didn't have that
22	within the last two-to-three months that put the	22	monitoring, you know, a decade ago or nobody
23	CO monitor not only in the boiler room but out in	23	really paid it as much attention, and now the fire
24	the facility itself, and both alarmed. And there	24	department is getting called out. And so that's
25	again, it went back to air intake, which is in	25	where those numbers have increased. And you talk
	Dogo 204		
			Page 205
1	Page 204 to the fire experts, that's what they're saying,	1	Page 205 take one step at a time, but at least we're
1 2	3	1 2	_
	to the fire experts, that's what they're saying,		take one step at a time, but at least we're
2	to the fire experts, that's what they're saying, is that it's not an increase in the amount of	2	take one step at a time, but at least we're looking at the CO monitoring. But at some point
2 3	to the fire experts, that's what they're saying, is that it's not an increase in the amount of units that are releasing more CO to the	2 3	take one step at a time, but at least we're looking at the CO monitoring. But at some point in time, I'd love to be an advocate in some other
2 3 4	to the fire experts, that's what they're saying, is that it's not an increase in the amount of units that are releasing more CO to the environment. Because we all know in this	2 3 4	take one step at a time, but at least we're looking at the CO monitoring. But at some point in time, I'd love to be an advocate in some other respects.
2 3 4 5	to the fire experts, that's what they're saying, is that it's not an increase in the amount of units that are releasing more CO to the environment. Because we all know in this industry, the actual technology has helped to	2 3 4 5	take one step at a time, but at least we're looking at the CO monitoring. But at some point in time, I'd love to be an advocate in some other respects. MR. TOTH: And to piggyback on
2 3 4 5 6	to the fire experts, that's what they're saying, is that it's not an increase in the amount of units that are releasing more CO to the environment. Because we all know in this industry, the actual technology has helped to limit those, but they're still there.	2 3 4 5 6	take one step at a time, but at least we're looking at the CO monitoring. But at some point in time, I'd love to be an advocate in some other respects. MR. TOTH: And to piggyback on that, and then we can move forward, is that I
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1	Page 206	1	Page 207
1	draft but on atmospherics where you have a	1	
2	negative air pressure and they're not pulling all	2	MR. TOTH: And that's a good point.
3	their combustion air in from outside. And then,	3	Because the exposure rates of CO, it's going to
4	of course, you're taking anything that's being	4	vary as to what conditions. As I mentioned to in
5	expelled right into the room itself. And those	5	my lead-in, that we have a lot of situations where
6	are just operational issues that we work with in	6	people are exposed to CO long periods of time,
7	the industry. But some of those some of these	7	having illness, not understanding what those
8	alarms are going to be going off, which is great,	8	illnesses were. And when you start looking at
9	they need to attend to them, but I know of quite a	9	those levels, you're looking at 50 ppm of
10	few boiler rooms that they're going to be going	10	exposure.
11	off quite a bit.	11	Now, when you start getting in the
12	MR. TOTH: That's good. That's a	12	higher levels, it's almost as yeah, absolutely.
13	good thing.	13	And, you know, no pun intended. That's exactly
14	MR. BAUGHMAN: So in this, nowhere	14	what's going to happen, is that you're going to
15	does it designate and it's by EPA requirements	15	walk in there and it's going to overcome you.
16	and AGA requirements on what the CO monitor	16	Because, contrary to popular belief, there's a
17	level needs to be at. We're talking about	17	couple of things that I'd like to mention. Number
18	installation and BTUs and what have you, but we've	18	one is that CO is colorless and odorless. Okay?
19	not identified within that alarm also. And	19	We always associated with the smell of combustion
20	there's variances between what Home Depot	20	gases. Why? Because it's usually mixing
21	supplies, Lowe's supplies, others in the industry	21	together. But it's not. It's colorless and
22	that have higher ends. But there's variances in	22	odorless. So if you go into a situation and there
23	that CO monitor itself or the CO alarm, and I'd	23	are high enough levels, you can be exposed to it
24	like to be able to have that information available	24	for a matter of seconds and be unconscious.
25	as we move forward, if we move forward, to be able	25	The other thing is understanding that
	Dage 208		Dage 209
1	Page 208 we see it when we look at where they're going to	1	Page 209 contemplate. But it needs to be identified so
1		1	
	we see it when we look at where they're going to		contemplate. But it needs to be identified so
2	we see it when we look at where they're going to be placed within the boiler room. There's a	2	contemplate. But it needs to be identified so that as we're giving these recommendations out, if
2 3	we see it when we look at where they're going to be placed within the boiler room. There's a misconception that CO gases is heavier than air, that it's going to sink, but it's not. So let's	2	contemplate. But it needs to be identified so that as we're giving these recommendations out, if we decide to, that we need to know what numbers the customer is going to ask, well, is there a
2 3 4	we see it when we look at where they're going to be placed within the boiler room. There's a misconception that CO gases is heavier than air, that it's going to sink, but it's not. So let's think about the concept of that, too, is that if	2 3 4	contemplate. But it needs to be identified so that as we're giving these recommendations out, if we decide to, that we need to know what numbers the customer is going to ask, well, is there a specific? Well, we don't want to tell them yeah,
2 3 4 5 6	we see it when we look at where they're going to be placed within the boiler room. There's a misconception that CO gases is heavier than air, that it's going to sink, but it's not. So let's think about the concept of that, too, is that if we take natural gas, natural gas is lighter than	2 3 4 5	contemplate. But it needs to be identified so that as we're giving these recommendations out, if we decide to, that we need to know what numbers the customer is going to ask, well, is there a specific? Well, we don't want to tell them yeah, go out and get one that's set at a hundred or what
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	Page 210		Page 211
1	on the label.	1	
2	MR. BOWERS: But I'm sure if they	2	necessarily up to our inspectors to look at that
3	sell it at the store, it's going to be all right.	3	ppm.
4	Are we going to monitor?	4	MR. BOWERS: Once the State sticks
5	MR. BAUGHMAN: Well	5	their thing into it and says, well, we want 3500
6	MR. BOWERS: Are we going to	6	and above; someone dies at 2500 and says state guy
7	monitor the CO monitors to make sure they're	7	said it was all right at 3500. You don't want to
8	adequate enough?	8	get overcomplicated into us deciding which CO
9	MR. BAUGHMAN: I couldn't tell you.	9	monitor that the owner can use or not use.
10	MR. BOWERS: I mean, it's getting	10	MR. TOTH: Again, if I may, it goes
11	overcomplicated. I mean, half the homes in the	11	back to what the acceptable amounts are. I think
12	state don't have monitors. So we could go on and	12	Mr. Baughman made a really good point. Normal
13	say, well, require it in homes.	13	levels that are not going to cause an alarm are
14	MR. BAUGHMAN: Well, here is the	14	going to be in that 30 to 35 ppm range.
15	other end of that, Harold, too, is that we make	15	NFPA looks at it National Fire
16	requirements, and we list that information out.	16	Protection Association looks at it, at anything
17	What they decide to put on, we don't necessarily	17	over 50 ppm and above can cause illness. Okay?
18	know until there's an accident and the	18	So what I think Mr. Baughman and I don't mean
19	finger-pointing starts happening. But it's like	19	to speak for him this is very easily
20	we mandate you can't use rebuilt controls in our	20	controlled, no different than what in our last
21	industry. Well, nobody knows if you've got a	21	discussion about the e-stops, is that there is a
22	rebuilt controller or not until there's an	22	revision to the permit manual that stipulates at
23	accident and they pull it off and they look at it	23	what level we need to have an alarm. And if that
24	and go, "It's a rebuilt control."	24	level is that the max level is 35 ppm, then that
25	So we have requirements, and all we	25	detector has to be able to register an alarm if
1	Page 212	1	Page 213
1	35 ppm is exceeded. It doesn't mean that they get	1	life, and we used to sit around the table and
2	35 ppm is exceeded. It doesn't mean that they get the one from Lowe's or they get Johnson Control	2	life, and we used to sit around the table and discuss issues like this. And for this to be a
2	35 ppm is exceeded. It doesn't mean that they get the one from Lowe's or they get Johnson Control out here to run them. It doesn't matter. It just	2	life, and we used to sit around the table and discuss issues like this. And for this to be a one-liner is very ambiguous. I think that they
2 3 4	35 ppm is exceeded. It doesn't mean that they get the one from Lowe's or they get Johnson Control out here to run them. It doesn't matter. It just really matters where it is located in the boiler	2 3 4	life, and we used to sit around the table and discuss issues like this. And for this to be a one-liner is very ambiguous. I think that they may want to come back and, at least, clean it up a
2 3 4 5	35 ppm is exceeded. It doesn't mean that they get the one from Lowe's or they get Johnson Control out here to run them. It doesn't matter. It just really matters where it is located in the boiler room, because where are most plugs going to be	2 3 4 5	life, and we used to sit around the table and discuss issues like this. And for this to be a one-liner is very ambiguous. I think that they may want to come back and, at least, clean it up a bit, because this is so broad.
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	Page 214		Page 215
1	you have a baseline. Just my recommendation.		that it has to have I've actually mentioned it
2	I really think we could probably move		here.
3	forward or we could table this until March to give	3	CHAIRMAN MORELOCK: Well, I mean,
4	you more opportunity. It's completely up to you.	4	like on installation. What's installation
5	MR. ROBINSON: One comment. Would	5	requirements for that?
6	it be prudent to submit a code question to the	6	MR. BOWERS: It's very vague, isn't
7	National Board and ask them for more	7	it?
8	clarification?	8	MR. TOTH: It is very vague. And
9	MR. TOTH: It could. The problem	9	again, the verbiage reads the owner-user shall
10	is, is that when you the process of submitting	10	install a carbon monoxide detector/alarm in
11	that comes in as an interpretation; that	11	equipment rooms where fuel-fired boilers now,
12	interpretation has to be put forth before the	12	remember, we're talking about fuel-fired boilers.
13	subcommittee; the subcommittee has it goes into	13	Let's not go and put them in electric boilers
14	the subgroup; the subgroup looks at it and then	14	fuel-fired boilers and/or fuel-fired pressure
15	sends it on to the subcommittee; the subcommittee	15	vessels, such as heat-recovery steam generators,
16	looks at it and sends it on to the main committee;	16	are located in accordance with the authority
17	the main committee may or may not vote on it. It	17	having jurisdiction.
18	may get kicked back. The next thing you know	18	MR. BAUGHMAN: Well, and then that
19	you're two years down the road trying to figure	19	gets over into, again, authorities having
20	out, when you can handle the situation now and	20	jurisdiction on we've got fire marshals. It
21	then adjust as needed. But again, that's	21	falls within the fire marshals' jurisdiction also.
22	CHAIRMAN MORELOCK: Well, I'm a	22	So we've got this overlap that we're discussing on
23	part 3 person on NBIC. So what does part 1 say?	23	whether we're stepping to the plate and taking
24	MR. TOTH: That's what part 3 says.	24	charge of this. And that's something that we need
25	Part 3 is very specific. It reads	25	to think about, too, is do we take this on just
	Page 216		Page 217
	because it's in NBIC, or do we shirk that and put		occurred because of it, and so then they started
2	that to the jurisdiction that it already has in	2	putting that in the NBIC.
3	place, the responsibility, expect that where	3	MR. ROBINSON: They came back with
4	there's exemptions of installing this stuff, so	4	greater detail.
5	MR. BOWERS: Well, I think we have	L _	
6		5	MR. BAUGHMAN: Well, and I guess my
	taken it on with the NBIC. It's now how far do we	6	question is going to be is that there's counties
7	taken it on with the NBIC. It's now how far do we want to go with it. And I think we have different	6 7	question is going to be is that there's counties and cities that are exempt, but there again, we're
7 8	taken it on with the NBIC. It's now how far do we want to go with it. And I think we have different levels here. We could go through these individual	6 7 8	question is going to be is that there's counties and cities that are exempt, but there again, we're going to go back in, if we adopt this, and say no,
7 8 9	taken it on with the NBIC. It's now how far do we want to go with it. And I think we have different levels here. We could go through these individual ones. I think most of us are in agreement	6 7 8 9	question is going to be is that there's counties and cities that are exempt, but there again, we're going to go back in, if we adopt this, and say no, you're not exempt. We've got to put them in
7 8 9 10	taken it on with the NBIC. It's now how far do we want to go with it. And I think we have different levels here. We could go through these individual ones. I think most of us are in agreement something needs to be done. Now it's a question	6 7 8 9 10	question is going to be is that there's counties and cities that are exempt, but there again, we're going to go back in, if we adopt this, and say no, you're not exempt. We've got to put them in across the board within the boiler end of things.
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	Page 218		Page 219
1	put this aside and you guys really digest it and	1	seeing, you know, what was their mindset, where
2	look into it, give the Boiler Unit an opportunity	2	did this come from, and then be able to come back
3	to get some of those numbers.	3	in March and really answer this.
4	And I imagine, you know, Mr. O'Guin	4	CHAIRMAN MORELOCK: Well, in
5	and Mr. Chapman over there, I imagine they've	5	industry, you know, you've got process safety
6	already received a lot of information that came	6	management, which is mandated by OSHA 19-10. And
7	through.	7	outside of all this, which is excellent
8	Fire marshal's a lot more	8	information, if you sit down and do a hazardous
9	residential. Residential has been there a long	9	process hazards analysis and all that, that
10	time when it came to CO monitoring. Those local	10	process is going to accomplish this and maybe even
11	industries, not so much. And so now they're	11	more stringently. So again, you've got your
12	starting to enforce it. I bet they can come up	12	laundries that need it, you've got chemical
13	with those figures of what that threshold is, and	13	companies and tire manufacturers, and they may
14	then you go back and you look at it, and in the	14	already have it just through their normal process
15	meantime, you know, we'll be out there in January.	15	safety management process.
16	Maybe we'll have a little discussion. Mr. Morelock	16	So I think it's good. I agree with
17	and I both sit on the main committee.	17	you. My question to the board is do you want to
18	This is why a lot of this stuff we	18	vote these individually now, or what's your
19	-	19	pleasure?
20	don't see, because he and I are sitting in on repairs and alterations while they're over here		-
20		20	MR. BOWERS: I think we should go through them, you know. If we have any concerns,
	talking about installations.		5 / 1
22	CHAIRMAN MORELOCK: Right.	22	that way we can work on the concerns. At least we
23	MR. TOTH: And so we'll have an	23	go through them, and there's some of them I think
24	opportunity in January to maybe have some	24	it's probably just easy to go through and we'll
25	discussion with those installation guys and	25	have a lot in agreement, and there's probably a
1	Page 220 few things in there we don't have agreement on.	1	Page 221 MR. BAUCHMAN: Okay.
1	few things in there we don't have agreement on.	1	MR. BAUGHMAN: Okay.
2	few things in there we don't have agreement on. CHAIRMAN MORELOCK: Because, I	2	MR. BAUGHMAN: Okay. MR. TOTH: Yeah, because that is
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Page 222 Page 223 1 you could have a fireplace and put 30- to 1 accurately monitoring? At what point do I become 2 50,000 --2 the inspector of the CO2 monitor? 3 MR. TOTH: They're looking at 3 MR. BOWERS: Well, I agree with 4 potable water heaters, et cetera. you, we need to make it simple. If they have it, 4 5 MR. PARHAM: Dave Parham with 5 they have it. We don't need to come in there and 6 Travelers. Are we talking about new 6 be testing CO monitors to make sure they're --MR. PARHAM: It's like a fire 7 installations, or already installed items, you 7 8 know, from 20 years ago? 8 extinguisher. Right now I look and say, "Okay. 9 MR. TOTH: Those are definitely the 9 They've got a fire extinguisher." But I do not go 10 ones we want to look at. 10 over there and make sure it's the A, B, C, D -- I 11 MR. PARHAM: Are those going to be 11 don't know what the difference is on them. 12 grandfathered in or... 12 MR. TOTH: You're right. 13 MR. BAUGHMAN: I would say not. 13 MR. BAUGHMAN: Well, and these 14 CHAIRMAN MORELOCK: No. 14 inspectors are pressure vessel inspectors. And 15 MR. PARHAM: And if I may ask 15 that's where we get into issues of the chimney. 16 another question, at what point do I become the 16 The chimney is external of the pressure vessel. 17 inspector? I'm looking at it from the inspector 17 It's integral to it, but we get into those 18 profile. At what point do I become an inspector 18 discussions. And I had some interesting 19 of CO monitors? I mean, I ask them, "Okay. Do 19 discussions with Brother Tanner years ago on that 20 you have a CO monitor here?" 20 particular issue, and it was a fairly one-sided 21 And he says, "Why, yeah. It's right 21 discussion, but it was a discussion all the same. 22 over there." I look over there and there's a 1975 22 But that's a great point that you 23 Kmart blue-light special hanging on the wall. 23 make, is all you can do is look and say, "Do you 24 It's plugged in or it's hardwired in, but do I go 24 have this item?" Yes. No. Boom. 25 over there and check and make sure that thing is 25 MR. TOTH: And that's why I can Page 225 Page 224 1 see -- and that's a very good point, Dave -- is 1 is yes, does this requirement include both high-2 that nothing in this interpretation talks about 2 and low-pressure boilers? 3 inspections of the CO monitor; it's verification 3 The proposed reply is yes. 4 that they actually have one. To test to see if it 4 Any discussion on that? 5 operates, pushing a button to see if it blows a 5 (No verbal response.) 6 horn doesn't necessarily mean -- but all you're CHAIRMAN MORELOCK: All in favor б 7 say aye. 7 doing is verifying that it is audible. 8 Again, this is not intended for 8 (Affirmative response.) CHAIRMAN MORELOCK: Opposed? 9 inspection and service. Don't get me started on 9 10 pressure vessel inspectors. 10 (No verbal response.) MR. BAUGHMAN: So the question CHAIRMAN MORELOCK: Abstentions, 11 11 12 being 100,000 BTUs, above 100,000 BTUs is what 12 not voting? 13 13 we're voting on. (No verbal response.). 14 MR. TOTH: Yes. 14 CHAIRMAN MORELOCK: That one 15 CHAIRMAN MORELOCK: Okay. Any more 15 passed. 16 discussion? All in favor say aye. 16 Inquiry 3, if Inquiry 1 is yes, are 17 (Affirmative response.) 17 unfired steam/water boilers utilizing the fired 18 CHAIRMAN MORELOCK: Opposed? 18 fuel waste heat combustion gases, for example, 19 (No verbal response.) 19 heat recovery steam generator as an energy source, 20 CHAIRMAN MORELOCK: Abstentions, 20 as its energy source required so? 21 not voting? 21 The reply is yes. 22 (No verbal response.) 22 MR. TOTH: I probably can wordsmith 23 CHAIRMAN MORELOCK: That one 23 that a little bit better. 24 passed. 24 MR. BAUGHMAN: Well, one -- so 25 Inquiry Number 2, if Inquiry Number 1 25 we've got -- I've known some installations over

	Page 226		Page 227
1	the years that the waste heat stream diverted out	1	MR. BAUGHMAN: That makes sense.
2	of the boiler room itself into a separate room	2	MR. TOTH: You may have it fine
3	where the steam or hot water was generated out	3	coming out of the boiler, but then when it's
4	through the unfired heater. So that being the	4	routed into another space that has that is where
5	case, the boiler room itself will have one, but	5	you could possibly get escape of the CO.
6	being that it's in a separate room, would we	6	MR. BAUGHMAN: I agree. I see
7	mandate that separate room that has no fuel source	7	that.
8	with that? And that could be a waiver again, that	8	MR. BOWERS: But at that location,
9	you could be able to go back and apply for. But	9	they're not producing any CO, at that location.
10	there again, we could arbitrarily say yeah,	10	MR. TOTH: Okay. But we have to
11	regardless of where it's at, you've got to do it,	11	understand, where is the CO? The CO is actually
12	but yet if there's no combustion gases in that	12 in the combustion stream. And so that combusti	
13	room, it doesn't make sense to apply the CO	13	stream okay. Let's take a car in the garage
14	monitor. That is a very minute number of	14	and you take a hose pipe and you put it into the
15	installations out in the field, but I wanted to	15	tailpipe of the car and then you run it into the
16	make sure that I brought it up because it can and	16	car, well, the inside of the car is not producing
17	has been encountered before. And if it does, how	17	it, but the gases are coming in, right? So that's
18	do we address that back through our enforcement?	18	the concept, is that if it runs into the other
19	MR. TOTH: Well, the concern that	19	space, so, too, does any possible CO that's in
20	you're going to see that was addressed in the NBIC	20	that boiler stack so, too, is going to run into
21	and also in the NFPA is the concern of the	21	that ductwork.
22	ductwork that takes those combustion gases to the	22	MR. BOWERS: But if that stack is
23	heat exchanger. And if there's a possible leak	23	in good shape, it shouldn't be a problem. The
24	within that ductwork, taking it to the exchange	24	stack is supposed to be in good shape. I mean,
	room.	25	I'm saying if you have a stack that's going
1	Page 228 through multiple roofs, are you going to put a CO	1	Page 229 waiver to be addressed and applied for. I don't
1	through multiple roofs, are you going to put a CO	1	waiver to be addressed and applied for, I don't
2	through multiple roofs, are you going to put a CO on every level? Because you've got the stack	2	waiver to be addressed and applied for, I don't see that there's any problem with that.
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2 3 4 5 6	through multiple roofs, are you going to put a CO on every level? Because you've got the stack going through there. Or are you going to follow a combustion line through several rooms that every room that stack every room that line goes through has to have a monitor? I mean, you could	2 3 4 5 6	<pre>waiver to be addressed and applied for, I don't see that there's any problem with that.</pre>
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Page 230 Page 231 1 buildings, that's a process safety issue right 1 it through that heat exchanger and up the stack, 2 there. Do you agree? 2 that should be part of the boiler. But anything 3 MR. TOTH: Oh, yeah. I mean, I 3 after that should be a process safety issue. 4 agree. You know, talking about going through 4 MR. BOWERS: So I would say my 5 communication chambers and stuff like that, yeah, 5 opinion would be no on that one. 6 that's a little much. Again, as I reference, a CHAIRMAN MORELOCK: On 3? 6 7 heat recovery steam generator only because it's 7 MR. BOWERS: My opinion. 8 spelled out in the NBIC. 8 MR. TOTH: And that's great, if you 9 CHAIRMAN MORELOCK: Yes. Okay. 9 choose to do that, if I may add. But, Mr. Bowers, 10 Any more discussion on 3? 10 let's talk about where you and I first met eons 11 MR. BAUGHMAN: So is the thought to 11 ago. We won't talk about how many years it's 12 that -- were you saying to change that, in your 12 been. But you actually had a heat recovery steam 13 mind, to no, or what's our recommendation or 13 generator. 14 thought process to that? Are we leaving it to the 14 MR. BOWERS: Yes. 15 boiler room, or what are we -- I was following 15 MR. TOTH: Yes. And so what 16 your conversation, but --16 happened was it was a roaster process to extract 17 CHAIRMAN MORELOCK: Well, I mean, 17 minerals. And then the exhaust came off of that. 18 if you've got a heat recovery steam generator, 18 The exhaust, instead of expelling it into the 19 you've got to monitor it. 19 atmosphere, actually traced back to a heat 20 MR. BAUGHMAN: If it's in a 20 recovery steam generator which you used to create 21 different room? 21 steam. So that duct work, if that was -- which 22 CHAIRMAN MORELOCK: And if there's 22 yours wasn't -- but if you had a situation where 23 a stack associated with the boiler, I mean, you've 23 you did have that heat recovery steam generator 24 got to consider that. But theoretically, if 24 inside, was there still as much of a potential, if 25 that -- like, with the heat recovery, once you run 25 the roaster was outside and the duct work was Page 232 Page 233 1 inside, was there a potential for carbon monoxide 1 thoughts, Terry? 2 infiltrating that space? MR. FOX: I agree with what Marty 2 MR. BOWERS: Yeah. Probably if the 3 is saying right there. But if one is located 3 4 other gases didn't get in, but yeah. 4 inside a building, yes, it needs a CO monitor. 5 MR. TOTH: Right. So that's where, 5 CHAIRMAN MORELOCK: I agree. MR. O'GUIN: Well, the NBIC code 6 I guess, the situation comes in as to, okay, if we б 7 have it outside, do we need CO monitors? No. It's 7 states equipment room, so, I mean, that's telling 8 inside. 8 you inside --MR. FOX: Inside, it needs a 9 So if we have a boiler that's 9 10 monitor. That's my opinion. 10 outside, even a boiler sitting on a trailer 11 outside, does it require CO monitoring? No. MR. TOTH: I just wanted to make 11 12 So it goes back to what you said, and 12 sure, Mr. Chairman, that the recorder actually got 13 that's why I don't want you to give up too quick 13 Mr. Fox saying that I was correct. 14 on it. It still gives an opportunity for the 14 MR. BAUGHMAN: I didn't hear that. MR. FOX: No. I said I agreed. 15 Boiler Unit to give a waiver in that. You see? 15 16 MR. BAUGHMAN: (Nods head.) MR. TOTH: Oh, agreed, not correct. 16 17 MR. TOTH: Or to word these 17 Got you. All right. Thank you. 18 inquiries just to highlight boilers that are 18 CHAIRMAN MORELOCK: Okay. So are 19 internal, I wouldn't do that. I would do it the 19 we at yes or no on Number 3? 20 way that you suggested, which is 99.9 percent are 20 (Affirmative response.) 21 going to be inside, and then you have a few 21 CHAIRMAN MORELOCK: We're staying 22 percent that apply and say, "I'm outside. Do I 22 yes. All right. I'm going to call the question. 23 really need a CO monitor?" 23 All in favor say aye. 24 Does that make sense? 24 (Affirmative response.) 25 25 CHAIRMAN MORELOCK: Have you got CHAIRMAN MORELOCK: Opposed?

	Page 234		Page 235
1	(No verbal response.)	1	then you're going down the you're actually
2	CHAIRMAN MORELOCK: Abstentions,	2	going down the road that NFPA allows.
3	not voting?	3	And I guess I misspoke, because I
4	(No verbal response.)	4	said I'm putting down the answers as to what NFPA
5	CHAIRMAN MORELOCK: Number 3 is	5	reads. And I do apologize, so I will correct
6	passed.	6	myself and say that there are certain requirements
7	Inquiry 4, is it required to have a	7	that do allow for this to exempt spaces from CO
8	CO detector where the boiler room or space where a	8	monitoring.
9	boiler is installed possess an upper-space	9	MR. BOWERS: I have a question on
10	mechanical ventilation system that either	10	that. Okay. You're saying that if a boiler room
11	continuously operates or electrically tied to	11	has an exhaust fan that exhausts that room, that
12	operate whenever the boiler or boilers in the	12	the CO monitor should be exempt? Because I
13	space are firing?	13	remember a situation where we had a fatality in
14	And the reply is no	14	the state of Tennessee 12, 13 years ago, Radisson
15			
	MR. TOTH: Now, I will say my piece	15	Hotel, which they had an equipment room there that
16	on this and then turn it over to Mr. Fox, because	16	had a ventilation fan that vented the room. The
17	I think he has some opinion on this.	17	fan failed. The CO built up in the room and
18	The reason I put no in here is	18	killed a couple people next to it.
19 20	because there are allowances within NFPA that do allow for spaces that have a draw off of the	19	So I'm not sure if a CO monitor would have helped in that situation or not. But is that
	-	20	-
21	boiler room to be exempt from certain CO	21	what we're talking about, a ventilated system
22	monitoring based on when the pieces of equipment	22	MR. FOX: I'm sorry.
23	are when they are firing, when the possible	23	MR. BOWERS: Go ahead. Is that
24	there's possibility of CO gases being produced.	24	what we're talking about? If it has a ventilated
25	If the Boiler wants to go that route,	25	system, but the system can fail?
	Page 236		Page 237
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2	MR. TOTH: I am going to let go ahead and let Mr. Fox because I know that	2	air make up for the whole hotel was on the roof. That CO got sucked back into the fresh air make
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	Page 238		Page 239
	mechanical louvered system. So let's not confuse		
2	ourselves on combustion air versus room	2	for that.
3	ventilation.	3	What I personally believe is that
4	So combustion air, if you have a	4	I personally believe that you should have a carbon
5	louvered system, that louvered system has to be	5	monoxide detector, that we should not follow suit
6	connected with that boiler. When that boiler	6	with the NFPA on this, an additional line of
7	starts, that louvered system or that mechanical	7	safety.
8	combustion air system has to allow for combustion	8	I hope everybody got all that, because
9	air to come in.	9	there's a lot of this. There's a lot of this.
10	What we're referring to is the	10	MR. BOWERS: So basically, yes.
11	ventilation of the space. And the ventilation of	11	CHAIRMAN MORELOCK: All right. Any
12	the space, as Mr. Fox alluded to when he's talking	12	more questions or comments?
13	about boiler rooms that are having a negative air,	13	MR. BOWERS: Change that to yes.
14	we could go way deep into the weeds talking about	14	CHAIRMAN MORELOCK: So we've
15	that today.	15	changed Reply 4 to yes?
16	But when we're talking about negative	16	MR. TOTH: Yes.
17	air, having negative combustion air in the room	17	CHAIRMAN MORELOCK: I'm going to
18	can attribute to incomplete combustion which, in	18	call the question. All in favor say aye.
19	turn, creates carbon monoxide.	19	(Affirmative response.)
20	What we're talking about is a	20	CHAIRMAN MORELOCK: Opposed?
21	ventilation system in the room. Because as I	21	(No verbal response.)
22	mentioned earlier, carbon monoxide gas is slightly	22	CHAIRMAN MORELOCK: Abstentions,
23	lighter than air, so it is going to work its way	23	not voting?
24	to the top of the space. Once it works its way to	24	(No verbal response.)
25		25	CHAIRMAN MORELOCK: Number 4 is
	Dago 240		Dago 241
1	Page 240	1	Page 241 CHAIRMAN MORELOCK: Any more
1 2		1	•
	passed. Moving on to 5. Is it allowable to		CHAIRMAN MORELOCK: Any more questions/comments?
2	passed.	2	CHAIRMAN MORELOCK: Any more
2 3	passed. Moving on to 5. Is it allowable to install a CO detector anywhere within a boiler	2 3	CHAIRMAN MORELOCK: Any more questions/comments? (No verbal response.) CHAIRMAN MORELOCK: I'm going to
2 3 4	passed. Moving on to 5. Is it allowable to install a CO detector anywhere within a boiler room or space where a boiler is installed?	2 3 4	CHAIRMAN MORELOCK: Any more questions/comments? (No verbal response.) CHAIRMAN MORELOCK: I'm going to call the question.
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1	Page 242 CHAIRMAN MORELOCK: Opposed?	1	Page 243 you.	
	(No verbal response.)		YOU. MR. TOTH: So one would be the	
3	CHAIRMAN MORELOCK: Abstentions,	3		
4	not voting?	4		
5	(No verbal response.)	5	less than five feet from the lowest space, or they	
6	CHAIRMAN MORELOCK: All right.	6	can mount it up and do a hardwire, but it has to	
7	That one passes.	7		
8	Moving on to 6, is it required for	8	MR. BAUGHMAN: So if they don't	
9	the CO detector to be hardwired electrically?	9	have any electricity in close proximity and	
10	The reply is no.	10	this will go to the next one well, maybe we'll	
11	MR. TOTH: Simply enough, it can go	11	just address it in the next one. I'll address it	
12	into an outlet plug as long as that outlet plug is	12	in the next one.	
13	five feet from the lowest level. It could be a	13	CHAIRMAN MORELOCK: Okay. Any	
14	plug-in type or	14		
15	CHAIRMAN MORELOCK: Battery	15	(No verbal response.)	
16	powered?	16	CHAIRMAN MORELOCK: All right. All	
17	MR. TOTH: Battery powered is a	17		
18	second line. Yes, it has to have it has to	18	(Affirmative response.)	
19	have and you'll see that next.	19	CHAIRMAN MORELOCK: Opposed?	
20	CHAIRMAN MORELOCK: You're right.	20	(No verbal response.)	
21	MR. TOTH: It has to have two means	21	CHAIRMAN MORELOCK: Abstentions,	
22	of power, one of which can be a battery power	22		
23	source.	23	(No verbal response.)	
24	CHAIRMAN MORELOCK: Oh, yeah, since	24	CHAIRMAN MORELOCK: Number 6	
	you have to have two means of okay. I'm with		passed.	
			pablea.	
	Page 244		Daga 245	
			Page 245	
1	Moving on to Number 7, is it required	1	Page 245 detector/CO monitor, battery powered, guaranteed	
1 2	Moving on to Number 7, is it required for the CO detector to have two means of power	1 2	-	
			detector/CO monitor, battery powered, guaranteed	
2	for the CO detector to have two means of power	2	detector/CO monitor, battery powered, guaranteed for ten years.	
2 3	for the CO detector to have two means of power source, or power.	2 3	detector/CO monitor, battery powered, guaranteed for ten years. MR. BOWERS: Yes. I have them.	
2 3 4	for the CO detector to have two means of power source, or power. Reply is yes. One of which may be by	2 3 4	detector/CO monitor, battery powered, guaranteed for ten years. MR. BOWERS: Yes. I have them. MR. TOTH: That do not have an	
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	Page 246		Page 247
1	having the two sources, that could be two battery	1	doesn't say that it can be powered by a battery.
2	sources. It just says one of those may be a	2	It says one may be a battery source.
3	battery source. And if you add a battery back-up	3	Now, does that mean we have two
4	to your battery, you know, it's all we're	4	separate lines, one hooked up to a generator, the
5	saying and that gets to my above, was that we	5	other you get where I'm going, down the road of
6	said does it have to be hardwired electrically.	6	that. I'm comfortable with whatever, as long as
7	So in one we're saying we said no, it does not	7	the board is comfortable recognizing when somebody
8	have to be hardwired electrically. Hardwired, you	8	puts a CO monitor in their boiler room that is
9	know, even though plugging it into a receptacle is	9	specifically DC-powered battery source, that DC
10	electronic, this kind of alludes to that of	10	power I don't care what Home Depot says,
11	saying, well, one needs to be electrical and	11	they're going to take it back when it doesn't
12	battery.	12	work that DC power source is going to diminish.
13	MR. TOTH: Well, and if I may add,	13	CHAIRMAN MORELOCK: Oh, yeah. I
14	I'm giving you my expert testimony here of the	14	agree.
15		15	Agree. MR. TOTH: And I can bring you
	research. When you talk about one of them may be,		
16	I can go back and show you numerous cases where	16	return slips from many times when these light
17	code is going to say we're going to require this,	17	fixtures at home, they said these are going to
18	but one of them, such as feed water on a	18	last for ten years or whatever, and you took them
19	solid-fired boiler, it uses one of them may be a	19	back to Home Depot and said this blew out in
20	separate pump source. Well, that's the case,	20	six months. I'm fine with whatever way the board
21	because it says you'll have two sources. One of	21	wants to go with that.
22	them may be a pump yeah. So it's the same kind	22	MR. BAUGHMAN: I would be
23	of concept, is to say that you'll have two	23	interested in, since you've got the both you
24	sources. One of them may be a power source. It	24	and Terry have fire backgrounds and alarms what
25	doesn't say it can be or a battery source. It	25	your thoughts are on the issue.
	Page 248		Page 249
1	MR. O'GUIN: Me, personally, I'm	1	MR. TOTH: All right.
2	MR. O'GUIN: Me, personally, I'm fine with a battery back-up, because, I mean, it	2	MR. TOTH: All right. MR. BAUGHMAN: Do the alarms and
2 3	MR. O'GUIN: Me, personally, I'm fine with a battery back-up, because, I mean, it falls on the owner-user. If they're going to do	2 3	MR. TOTH: All right. MR. BAUGHMAN: Do the alarms and I guess I'm kind of
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1	Page 250 is agreeing with the way it reads. Yes, one which	1	Page 251 you've got to have two means.
2	may be a better power source, so	2	CHAIRMAN MORELOCK: But you've got
3	MR. TOTH: Okay.	3	to have two means.
4	MR. BAUGHMAN: But what's the	4	MR. BOWERS: I would say you've
5	second source?	5	only got one mean, the battery.
6	MR. BOWERS: No, he's talking about	6	CHAIRMAN MORELOCK: Oh, yeah, I
7	7 second source.		agree with that.
8	MR. BAUGHMAN: So it says is it	8	MR. BOWERS: Okay.
9	required for the detector to have two means of	9	MR. BAUGHMAN: And that would be
10			changing the answer to no, is that no means one
11	agreement of is that one	11	power source is acceptable.
12	CHAIRMAN MORELOCK: Well, yeah.	12	MR. TOTH: Or just no.
13	Six says you have to well, six doesn't say you	13	CHAIRMAN MORELOCK: Okay. Yeah.
14	have to hardwire it.	14	MR. TOTH: Just no. And we can
15	MR. BAUGHMAN: That's right.	15	definitely make that change. No big deal.
16	CHAIRMAN MORELOCK: Seven doesn't	16	CHAIRMAN MORELOCK: So you're going
17	say that you can't use a battery power source.	17	to change 7 to just have one power source?
18	DR. HARGROVE: Well, it's saying	18	MR. BOWERS: Just battery.
19	you've got to have two means.	19	MR. FOX: If you
20	MR. BAUGHMAN: You've got to have	20	MR. TOTH: Or just say no.
21	two means of power. So what we're saying is	21	MR. FOX: Or you can take Question
22	CHAIRMAN MORELOCK: So we're not	22	7 out completely.
23	telling them what to do. I mean, it's up to them	23	MR. BAUGHMAN: Yeah, because
24	to figure it out.	24	MR. TOTH: No, let's not do that.
25	MR. BOWERS: But they're saying	25	Because when you do that, it's no different than a
1	Page 252	1	Page 253
	box that's left unchecked.		on to 8. Is it required for the detector to be
2	box that's left unchecked. MR. FOX: I mean, you can take it	2	on to 8. Is it required for the detector to be dedicated for CO detection only, or may the
2 3	box that's left unchecked. MR. FOX: I mean, you can take it out completely.	2 3	on to 8. Is it required for the detector to be dedicated for CO detection only, or may the detector be a multiple purpose detector/alarm?
2 3 4	box that's left unchecked. MR. FOX: I mean, you can take it out completely. MR. TOTH: Did that box mean to be	2 3 4	on to 8. Is it required for the detector to be dedicated for CO detection only, or may the detector be a multiple purpose detector/alarm? MR. TOTH: Commissioner Chairman,
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Page 255 Page 254 1 required for the detector to be dedicated for CO 1 worded is kind of like --2 detection only, question mark. 2 MR. TOTH: Well, that's why after I 3 The reply to Number 8 is no. A 3 read it out loud to you, I realized I was asking 4 multipurpose detector/alarm may be used, period. 4 two separate questions, and I should know better. 5 Is that correct? 5 Right, Brian? MR. TOTH: And if I could add a б CHAIRMAN MORELOCK: That's all 6 7 little bit to that. A multipurpose CO 7 right. 8 8 detector/alarm. MR. TOTH: No, but you can't ask 9 CHAIRMAN MORELOCK: Okay. So just 9 two questions in an interpretation. You've got to 10 add CO --10 ask one, then give a response. MR. BOWERS: So people can use a 11 11 MR. CHAPMAN: Slash alarm. 12 CHAIRMAN MORELOCK: I'll put CO in 12 combination detector. 13 from of detector/alarm. 13 MR. TOTH: Yes. 14 MR. TOTH: Yes. And mainly to CHAIRMAN MORELOCK: Yes. 14 15 ensure that that multipurpose unit does have the 15 Okay. Any more questions, comments? 16 CO monitoring in it. 16 (No verbal response.) 17 MR. BOWERS: So are you saying on 17 CHAIRMAN MORELOCK: I'm going to 18 this one here -- and I'm confused between a yes 18 call the question on Number 8. All in favor say 19 and a no -- that a multiple unit is allowed or not 19 aye. 20 20 allowed. (Affirmative response.) 21 MR. FOX: It is allowed. 21 CHAIRMAN MORELOCK: Opposed? 22 CHAIRMAN MORELOCK: It is allowed. 22 (No verbal response.) 23 MR. CHAPMAN: It is allowed. 23 CHAIRMAN MORELOCK: Abstentions, 24 MR. TOTH: Uh-huh, is allowed. 24 not voting? 25 MR. BOWERS: Okay. The way it's 25 (No verbal response.) Page 256 Page 257 1 we're down to 100,000 BTU input? 1 CHAIRMAN MORELOCK: All right. So MR. TOTH: You could, if you wanted 2 8 is passed. 2 Number 9, is it allowed for 3 3 to. Again --4 MR. FOX: I mean, that would --4 additional control and safety devices on the 5 boiler that monitor combustion gas oxygen levels 5 MR. TOTH: If we look back at the 6 to ensure complete combustion; for example, oxygen 6 definition in the state of Tennessee of what is a 7 trim, et cetera, be accepted as the CO detector 7 boiler, it encompasses high pressure, low 8 for the boiler room or space where the boiler is 8 pressure, water heater -- it encompasses 9 installed? 9 everything. But again, it's really what the board 10 10 feels. And the reply is no. MR. BAUGHMAN: Well, and it could 11 MR. BAUGHMAN: I say we go with 11 12 that. 12 be fuel-fired equipment or -- I don't know -- or 13 CHAIRMAN MORELOCK: You're just 13 we just leave it as it is and go back through. 14 making it clear that you can't --14 MR. FOX: Just leave it as it is. 15 MR. TOTH: Making it clear that you 15 MR. CHAPMAN: Leave it as it is. 16 can't turn around and say, hey, I've got 02 trim 16 MR. BAUGHMAN: Sounds good. 17 to verify that I'm burning completely. Because 17 CHAIRMAN MORELOCK: Everybody good 18 you can have leaks elsewhere in the boiler --18 with it the way it's written? 19 CHAIRMAN MORELOCK: Well, but 19 (Affirmative response.) 20 there's no perfect combustion. 20 CHAIRMAN MORELOCK: Okay. I'm 21 MR. TOTH: Well, there is, just not 21 going to call the question on Number 9. All in 22 in the boiler. 22 favor say aye. 23 MR. FOX: I've got a question on 23 (Affirmative response.) 24 the wording, Marty. On the second question, 24 CHAIRMAN MORELOCK: Opposed? 25 should it say boiler, slash, water heater, since 25 (No verbal response.)

Page 258 Page 259 1 sure that the decibel level of the alarm that I 1 CHAIRMAN MORELOCK: Abstentions, 2 designed in all their panels would be over the 2 not voting? 3 (No verbal response.). 3 decibel level of all the equipment. Now, the 4 CHAIRMAN MORELOCK: Number 9 is 4 boiler room is the loudest of them all. But 5 passed. 5 again, that's a different -- pump room, yes. 6 Inquiry 10, is there a requirement CHAIRMAN MORELOCK: So --6 7 for the decibel level the audible alarm must emit? 7 MR. TOTH: So you just -- you put Reply, yes. The decibel level must 8 8 it out there and say yes, it must be. And, I 9 exceed the normal operation decibel level of the 9 mean, that's really the basis. CHAIRMAN MORELOCK: So what is the 10 boiler room or space where the boiler is located. 10 11 MR. BOWERS: That's kind of vague. 11 typical decibel level in a boiler room? 12 I mean, it's hard to --12 MR. TOTH: Typical, again, you're 13 CHAIRMAN MORELOCK: It is. 13 ranging between -- I would say between 82 to 95. CHAIRMAN MORELOCK: Okay. 14 Because, I mean --14 15 MR. TOTH: It's going to have to 15 MR. ROBINSON: And what's the 16 be. 16 typical range of a CO monitor? 17 17 CHAIRMAN MORELOCK: I mean, you MR. TOTH: It all depends on what 18 you buy, if it's 80 decibel or 85 or --18 know --19 MR. BAUGHMAN: It's -- yeah. I 19 CHAIRMAN MORELOCK: It's going to 20 exceed that. 20 mean, we ask this within the variance, what's your 21 decibel in the --21 MR. TOTH: But again --22 MR. TOTH: And the reason why it's 22 CHAIRMAN MORELOCK: It's going to 23 vague, it's got to be. Because an example of me 23 exceed that. 24 walking through Nokian Tyre and making sure, 24 MR. TOTH: Yeah, it's going to 25 because they have multiple panels, I want to make 25 exceed that. Page 260 Page 261 MR. BOWERS: They're probably up to 1 really goes back to if you want to put a minimum 1 2 a hundred, aren't they, probably? 2 in there, you could, but you're -- yeah. You're MR. ROBINSON: Average? 3 putting yourself in a position where -- you know, 3 4 MR. TOTH: I don't know. 4 one that is 84 decibel or 80 decibel, like what we 5 CHAIRMAN MORELOCK: Yeah. Because 5 usually see in panels for remote monitoring, is 6 you can -- you start having hearing loss above 140 6 satisfactory. 7 7 decibels. CHAIRMAN MORELOCK: No. I'm fine 8 MR. TOTH: Well, yeah. And even 8 with the way it's worded. I just wanted to make 9 more specific, 80 is your threshold. 9 sure --CHAIRMAN MORELOCK: Yes. 10 10 MR. TOTH: 100 decibel, man, you'd 11 have people coming out of their skin. 11 MR. TOTH: Okay? Anything over 80, 12 you're working into the point where you can start 12 CHAIRMAN MORELOCK: Yeah. MR. BOWERS: It just makes it hard 13 developing, over the course of time, kind of like 13 14 CO -- yeah, it's going to, over the course of 14 for the inspector to go in there and say --15 time... 15 because he don't have a reader. If you put it out 16 CHAIRMAN MORELOCK: I mean, it's a 16 there and it's real loud and you say okay, this is 17 good question, because if somebody is wearing 17 loud enough -- he's got to know if it's going to 18 hearing protection to go in and check the 18 be loud enough. 19 boiler --19 CHAIRMAN MORELOCK: Well, so if you 20 MR. BAUGHMAN: Yes, exactly. 20 walk in there and say, "I need you to actuate that 21 CHAIRMAN MORELOCK: -- you know, I 21 CO monitor/alarm," if you can hear it, then it's 22 mean, that's why I was asking what -- I don't want 22 loud enough, right? 23 you to nail it down, but it's a very interesting 23 MR. TOTH: Yes. 24 question. 24 MR. BOWERS: Right. 25 25 MR. TOTH: And, you know, again, it CHAIRMAN MORELOCK: Okay. Any

	Page 262		Dago 262
1	Page 262 other questions or comments?	1	Page 263 to you once it's cleaned up.
2	- MR. BOWERS: No.	2	MS. BENNETT: Mark is going to redo
3	CHAIRMAN MORELOCK: All right. I'm	3	
4	going to call the question. All in favor say aye.	4	CHAIRMAN MORELOCK: Okay.
5	(Affirmative response.)	5	MR. BAUGHMAN: Okay.
6	CHAIRMAN MORELOCK: Opposed?	6	MR. O'GUIN: Chairman, on these, on
7	(No verbal response.)	7	the CO detectors
8	CHAIRMAN MORELOCK: Abstentions,	8	CHAIRMAN MORELOCK: Yes?
9	not voting?	9	MR. O'GUIN: Sam and I, when
10	(No verbal response.)	10	that rule came out, let all the inspectors know
11	CHAIRMAN MORELOCK: All right.	11	that anything prior to July 2019 had until
12	MR. BOWERS: We got through them.	12	July 2020 to
13	CHAIRMAN MORELOCK: Got through it.	13	CHAIRMAN MORELOCK: Are you going
14	MR. BAUGHMAN: So will the results	14	to give them a year?
15	from this be in our next booklet, as far as what	15	MR. O'GUIN: Just
16	we voted on? Because I made notes all over what	16	MR. BAUGHMAN: What was that again,
17	was in my	17	Chris? What was the time that
18	CHAIRMAN MORELOCK: I'm taking mine	18	MR. O'GUIN: July 2020. Now, the
19	with me.	19	ones anything that's installed after July 2019,
20	MR. BAUGHMAN: Okay.	20	of course, you know, do an install and get a
21	CHAIRMAN MORELOCK: I'll take mine out of the book.	21	permit. They have to have it up front.
22		22	MR. BAUGHMAN: Okay. But they've
23	MR. BAUGHMAN: I'll take mine with me.	23	got up to July '20. Okay. I'll start passing that along.
24	MR. TOTH: Yeah. I'll send it over	24	MR. TOTH: Is your plan to go
	Page 264		Page 265
1	through and update the permit, as well, to signify	1	CHAIRMAN MORELOCK: Okay. So the
2	CO monitor?	2	next item is discussion regarding variance manual
3	MR. CHAPMAN: Yes. We've got to	3	submission and dates and procedures. And, of
4	sit down and work on that.	4	course, Marty said he's done, but he does have an
5	MR. TOTH: Let me know where I can	5	interp that should we just, maybe, review it
6	assist you on that.	6	and go over it in March?
7	CHAIRMAN MORELOCK: Okay.	7	MR. CHAPMAN: Yes.
8	MR. TOTH: I'm done.	8	CHAIRMAN MORELOCK: Are you okay
9	CHAIRMAN MORELOCK: Are you done?	9	with that?
10 11	All right. MR. BAUGHMAN: There's still a	10	(Affirmative response.) CHAIRMAN MORELOCK: We'll just have
11	MR. BAOGHMAN. IMPre's Still a discussion item.	12	him submit his item for March.
13	CHAIRMAN MORELOCK: If you're	13	MR. BAUGHMAN: Sounds like a plan.
14	done okay. Moving on. That will take us to	14	CHAIRMAN MORELOCK: Tentative
15	Item 10, Open Discussion Items. So thank you-all	15	meeting dates for 2020 is March the 18th, June the
16	for do we have somebody to even report on JO?	16	10th, September the 16th and December the 9th. So
17	MR. HERROD: We're no closer than	17	does anybody have a conflict for March the 18th?
18	we were, to be honest with you, a few months ago,	18	MS. BENNETT: The March 18th
19	three months ago.	19	meeting, it's actually a week later than what we
20	CHAIRMAN MORELOCK: Okay. I'll	20	normally meet.
21	just say progress report on that.	21	CHAIRMAN MORELOCK: Okay.
22	MR. HERROD: We may be closer now	22	MS. BENNETT: But there was not a
23	than we were earlier today.	23	conference room in the entire building, so
24	CHAIRMAN MORELOCK: Okay.	24	CHAIRMAN MORELOCK: Even the Pearl
1		1	
25	MR. BAUGHMAN: That's progress.	25	Room?

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Page 266 Page 267 CHAIRMAN MORELOCK: So no conflicts 1 MS. BENNETT: None of the rooms. 1 2 So that's why --2 for March 18th? We can have a quorum? 3 CHAIRMAN MORELOCK: If we're going 3 MR. BAILEY: With Tom's clout --4 to have this big meeting in March, we may need 4 CHAIRMAN MORELOCK: What? 5 to --5 MR. BAILEY: With Tom's clout, б 6 MS. BENNETT: No, no, no. The we'll be able to get that Pearl Room. 7 18th --7 CHAIRMAN MORELOCK: All right. 8 8 CHAIRMAN MORELOCK: Oh, you're I've got faith in him. 9 good. 9 Okay. So here is what I want to do. 10 MS. BENNETT: -- there were rooms 10 We know we're good for the 18th of March to have a 11 quorum, and we've got a full agenda. Look at your 11 available. But the week prior, there was nothing 12 available. 12 calendars for the 19th of June, the 16th of 13 CHAIRMAN MORELOCK: I got you. I 13 September, and December the 9th. MR. BAUGHMAN: The 19th of June or 14 got you. 14 15 MS. BENNETT: Yeah. 15 June 10th? 16 CHAIRMAN MORELOCK: So we can get 16 CHAIRMAN MORELOCK: Yes, June 10th, 17 September 16th, December the 9th. And if we need 17 the Pearl Room on the 18th? 18 MS. BENNETT: I can check. 18 to adjust, we'll adjust them. You can send me an 19 MR. BAILEY: We're hoping. 19 email if we need to adjust the June, September, 20 MS. BENNETT: Yeah. I'll have to 20 and December, and we'll work with Carlene to get 21 check afterwards. 21 that straightened out. 22 CHAIRMAN MORELOCK: Okay. But we 22 MS. BENNETT: Well, just so you 23 definitely have this room available, right, for 23 know, I have to coordinate with the Elevator & 24 March 18th? 24 Amusement Device Safety Board, because, of course, 25 MS. BENNETT: Yes. 25 Tom -- we can't have them back to back. Page 269 Page 268 CERTIFICATE CHAIRMAN MORELOCK: Right. 1 1 2 STATE OF TENNESSEE) MS. BENNETT: And he's got to be at 2 3 COUNTY OF WILLIAMSON) 3 both, so I'll work with you guys. 4 I, Cassandra M. Beiling, a Notary Public CHAIRMAN MORELOCK: We should be 4 5 in the State of Tennessee, do hereby certify: 5 okay. 6 б MS. BENNETT: Okay. 7 That the within is a true and accurate CHAIRMAN MORELOCK: Okay. That 7 8 transcript of the proceedings taken before the 8 takes us to Item 11. And so our next meeting will 9 Board and the Chief Inspector or the Chief 9 be March 18th here in Nashville. We'll determine 10 Inspector's Designee, Tennessee Department of 10 if it's going to be in the Pearl Room. But that's 11 Labor & Workforce Development, Division of 11 it. 12 Workplace Regulations and Compliance, Boiler Unit, 12 Before I adjourn, I want to thank 13 on the 11th day of December, 2019. 14 13 you-all for hanging in. It's been a long day. We 15 I further certify that I am not related to 14 got a lot done. And that's what we've been asked 16 any of the parties to this action, by blood or 15 to do, so we wanted to make sure we gave you your 17 marriage, and that I am in no way interested in 16 money's worth today, so... 18 the outcome of this matter. 17 Thank you-all very much. Merry 19 18 Christmas. Happy New Year. We'll see you in IN WITNESS WHEREOF, I have hereunto set my 20 19 March. 21 hand this 24th day of January, 2020. 20 We're adjourned. 22 DRA M 21 23 STATE 22 END OF THE PROCEEDINGS. asande ESSEE TEN 23 NOTARY 24 Cassandra M. Beiling, LCR#371 PURI IC 24 Notary Public State at Large 25 25 My commission expires: 3/15/2020

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