FOR THE CASE OF Dol Board of Boilers Quarterly Meeting

TRANSCRIPT OF

1st Quarter Meeting

March 15, 2017

Stone & George COURT REPORTING

2020 Fieldstone Pkwy

Suite 900 - PMB 234

Franklin, TN 37069

(615) 268-1244

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

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1.	STATE OF TENNESSEE DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT	PAGE	
2.	BOARD OF BOILER RULES	 17-01: Valero Refining Company-Tennessee, LLC 	
3.		17-02: Wacker Polysilicon, North America LLC	
4.		4.	
5.		17-03: MC Ionic Solutions US, Inc. 5.	
6.		17-04: Milan General Hospital 6.	
7.		17-05: Domtar Paper Company, LLC 7.	
8.	QUARTERLY MEETING OF THE	8.	
	STATE OF TENNESSEE	A G E N D A 9.	
9.	BOARD OF BOILER RULES	I. Call Meeting to Order	
0.	March 15, 2017	II. Introductions and Announcements	
1.		 III. Adoption of the Agenda 	
12.		12.	
3.		 Approval of the December 14, 2016 Minutes 13. 	
4.		V. Chief Boiler Inspector's Report 14.	
5.		VI. Old Business 15. None	
16.		16. VII. New Business	
17.		17-01, 17-02, 17-03, 17-04, 17-05 17.	
18.		VIII. Open Discussion Items	
19.		 * Job description for Boiler Inspector 4 (Chief) position. 	
20. 21.		* Recommendations for two Board of Boiler	
21. 22		20. Rules vacant positions: International	
	CASSANDRA M. BEILING, CCR, LCR# 371	Boilermaker Representative and the 1. Insurance Representative. The Department	
23.	STONE & GEORGE COURT REPORTING	and the Governor's Office requests that 22. the board provide at least three	
	2020 Fieldstone Parkway	candidates to fill vacant board positions. 23.	
24.	Suite 900 - PMB 234	* Rennai - 3 foot clearance and the BC107	
	Franklin, Tennessee 37069	 existing Board interpretation (1-1/2 foot for devices with 400,000 BTUs or less) 	
25.	615.221.1089	25.	
	Page 2		Page 4
	APPEARANCES:	Open Discussion Items continued: * Update on editorial revision to the	
	Brian R. Morelock, Chairman Owner-User Representative	 recently revised TN Rule 0800-03-03. 0800-03-030.12 Existing Pressure Vessels 	
3.	Swher-Osci Representative	 (2) The maximum allowable working pressure 	
4. I	David W. Baughman, Board Member	of a nonstandard pressure vessel shall be 4. determined in accordance with ASME Code,	
(Owner/User Representative	Section VIII, Division 1, UG-27 5.	
5.		* Chairman Morelock to provide update on 6. Revision to TCA 68-122-109(a) due to	
	Michael Jay Pischke, Board Member Boiler Manufacturer	changes in how the National Board	
7.	Soliei Maliulactulei	 Commissioning Exam is given. This exam is no longer only provided by the 	
	Dr. S. Keith Hargrove, Board Member	jurisdiction, but is also provided on-demand at AMP locations and also	
	Mechanical Engineer Representative	 administered by the National Board on the last day of the National Board 	
9.		 Inservice Commission (IS) two-week 	
	Sam Chapman, Chief Boiler Inspector	course. 11. 68-122-109. Examinations for chief, deputy	
l1.	Zin V Infference Eng	and special inspectors Suspension or 12. revocation of commission Replacement when	
	Kim Y. Jefferson, Esq. Administrator, State of Tennessee	lost. (a) Examinations for chief, deputy or	
13.	Zaminotator, State of Tellinostee	 special inspectors shall be administered by the National Board member jurisdiction, or 	
	Dan Bailey, Esq.	 provided at any On-Demand provider locations, or administered by the National 	
4. I	Legal Counsel, State of Tennessee	 Board on the last day of the National Board Inservice Commission (IS) two-week course. 	
15.		Such examinations shall meet the	
	Carlene Bennett	requirements of the latest edition of 17. NB-263, RCI-1 Rules for Commissioned	
.6. I .7.	Board Secretary, State of Tennessee	Inspectors, PART 2 COMMISSION AND 18. ENDORSEMENT EXAMINATIONS. In case an	
8.		applicant for an inspector's appointment or 19. commission fails to pass the examination,	
9.		the applicant shall follow the	
20.		 re-examination requirements in 2-5 RE-EXAMINATION in NB-263, RCI-1 Rules for 	
21.		 Commissioned Inspectors, PART 2 COMMISSION AND ENDORSEMENT EXAMINATIONS. The record of 	
22.		 an applicant's examination shall be 	
23.		accessible to the applicant and the applicant's employer.	
24.		24. * Dave Baughman, Board Member, will give status regarding formation of committee	
25.		to make recommendation on boiler training.	

	Page 5		Page
1.	IX. RULE CASES & INTERPRETATIONS	1.	and the motorcade begins, it's going to be a lot
2	Update on formatting and posting past rule	2.	different with traffic, so just giving you fair
2.	cases and interpretations for inclusion on the State Boiler Unit website	3.	warning of that.
3.	the state Bollet Clift website	4.	I would also ask if you have cell
	X. The next Board of Boiler Rules Meeting is	5.	phones, would you please silence them out of
4.	scheduled for 9:00 a.m. (CT), Wednesday, June 14, 2017, at the Department of Labor	6.	respect for the presenters and for the discussion
5.	& Workforce Development office building	7.	so that we can respect that time of presentation
	located at 220 French Landing Drive,	8.	and discussion.
6.	Nashville, TN.	9.	And the person who typically does the
7. 8.	XI. Adjournment	10.	audio portion of our meeting with the microphones,
o. 9.		11.	they are not here today, so we do not have
0.		12.	microphones. So Cassandra has asked me that when
1.		13.	
2.		1	you present an item or you have something you want
3.		14.	to discuss, would you please come forward to the
4.		15.	table and speak so that we can hear you. And then
5.		16.	any comments from our visitors, you're free to
6. 7.		17.	make comments, but please make them so that we can
8.		18.	hear you. So that's that.
9.		19.	And then the last announcement that I
0.		20.	have is Eugene Robinson, our insurance
1.		21.	representative on the Tennessee Board, has
2.		22.	resigned, and so there's some good news coming
3. 4.	** Reporter's Note: All names are spelled	23.	about that but I'm not going to give that away.
4.	phonetically unless otherwise provided to the	24.	I'll let others who've helped make that happen
25.	Reporter by the parties.	25.	share that with you at a later time. But we are
	Page 6		Page
1.	******	1.	going to miss having Eugene on the board. We're
2.	CHAIRMAN MORELOCK: Good morning,	2.	going to do something for him in upcoming
2. 3.	everybody. I have 9:02, so I would like to call	3.	meetings. But he's got some good things coming
۶. 4.	this March meeting of the Tennessee Board of	4.	his way, too, so we're very thankful of that.
1 . 5.	Boiler Rules to order. And just some	5.	Are there any other announcements
	ý .	1	•
5.	announcements, first being a safety item, if	6.	before we move on down our agenda?
7.	there's an event where we had an emergency or a	7.	(No verbal response.)
3.	natural disaster, we do have security personnel in	8.	CHAIRMAN MORELOCK: Okay. Hearing
9.	the building that would escort us either to a safe	9.	none, let's begin with introductions. And just so
).	place within the building or they would take us to	10.	you know, when we get to the visitors, Cassandra
1.	the Rosa Parks side of the building, to a meeting	11.	is going to hand you her microphone. You will
2.	point there. So just keep that in mind.	12.	pass that as you introduce yourself so that she'll
3.	Another item that I want to present	13.	have a good, clear record of who you are, and she
4.	is, in case you do not know, our President Trump	14.	can put that into the minutes.
5.	is visiting Nashville today, and so all the	15.	So, Carlene, we'll start with you.
6.	downtown government buildings will be closed at	16.	MS. BENNETT: Carlene Bennett,
7.	noon. So we need to be very expedient in our	17.	board secretary.
8.	actions today so we can get everybody's item	18.	MR. CHAPMAN: Sam Chapman, Chief
9.	discussed and voted, our discussion items, at	19.	Inspector.
0.	least, on the table. So we will be watching our	20.	MR. PISCHKE: Michael Pischke,
1.	time on that. And so if you're not from the	21.	board member.
2.	Nashville area, as I am, you will also want to be	22.	CHAIRMAN MORELOCK: Brian Morelock,
3.	careful on your exit route out because there will	23.	board member.
4.	be rolling roadblocks today, there will be streets	24.	MR. HARGROVE: Keith Hargrove,
	blocked off. Certainly, when Air Force One lands	25.	board member.
5.	blocked off. Certainty, when All Force one lands		

		Page 9		Page 11
1.	MR. BAUGHMAN: I'm Dave Baughman.	Tage 7	1.	MR. BAUGHMAN: Motion to accept the
2.	Board member.		2.	agenda.
3.	MS. RHONE: Deborah Rhone, Boiler		3.	CHAIRMAN MORELOCK: Okay. I've got
4.	Office Supervisor.		4.	a motion.
5.	MS. JEFFERSON: Kim Jefferson,		5.	MR. HARGROVE: Second.
6.	Administrator.		6.	CHAIRMAN MORELOCK: I've got a
7.	MR. BAILEY: Dan Bailey, legal		7.	second. Are there any additions, corrections to
8.	counsel.		8.	the agenda?
9.	MR. ENG: Richard Eng, Wacker		9.	(No verbal response.)
10.	Chemical.		10.	(170 verous response.)
11.	MR. JOSHI: Prasao Joshi, Wacker		11.	CHAIRMAN MORELOCK: All right.
12.	Chemical.		12.	Hearing none, all in favor say "aye."
13.	MR. GROSS: Jeremy Gross, Valero		13.	(Affirmative response.)
14.	Memphis Refinery.		14.	CHAIRMAN MORELOCK: Opposed?
15.	MR. TOTH: Marty Toth, Boiler		15.	(No verbal response.)
16.	Supply of the Boisco Training Group.		16.	CHAIRMAN MORELOCK: Abstentions?
17.	MR. NEVILLE: James Neville,		17.	(No verbal response.)
18.	Neville Engineering.		18.	CHAIRMAN MORELOCK: Not voting?
19.	MR. BENNETT: Dave Bennett, Dave		19.	(No verbal response.)
20.	Bennett Consultant.		20.	CHAIRMAN MORELOCK: Okay. We have
21.	MR. SNEED: Brandon Sneed, Domtar		21.	an agenda.
22.	Paper.		22.	Moving on to Item 4 is approval of
23.	MR. SANDERS: John Sanders, Domtar		23.	the December 14, 2016 meeting minutes. Those are
24.	Paper.		24.	electronically on the Tennessee website under
25.	MR. WHITE: Marshall White, Domtar		25.	Boiler Unit, and Tennessee Board, so you can
-0.				25.161 6.111, 4.16 16.1116.5500 254.161, 50 904 64.11
		Page 10		Page 12
	Paner	Page 10	1	Page 12
1.	Paper. MR ALTEPETER: John Alteneter	Page 10	1.	certainly go out and look at those. And so do I
2.	MR. ALTEPETER: John Altepeter,	Page 10	2.	certainly go out and look at those. And so do I have a motion to accept these minutes?
2. 3.	MR. ALTEPETER: John Altepeter, A6 Sales.	Page 10	2. 3.	certainly go out and look at those. And so do I have a motion to accept these minutes? MR. BAUGHMAN: Motion to accept the
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	Page 13	1	Page 15
1.	and he is correct. That was Item 16-14, and we	1.	conflict, just state they have a conflict, what
2.	did vote that in September 2016.	2.	the conflict is, and then they can discuss the
3.	Anything else?	3.	item, as long as their discussion questions don't
4.	(No verbal response.)	4.	relate to the conflict.
5.	CHAIRMAN MORELOCK: Okay. All in	5.	CHAIRMAN MORELOCK: Okay. That's
6.	favor?	6.	very good.
7.	(Affirmative response.)	7.	MR. BAILEY: And, of course, they
8.	CHAIRMAN MORELOCK: Opposed?	8.	can't vote.
9.	(No verbal response.)	9.	CHAIRMAN MORELOCK: Absolutely.
10.	CHAIRMAN MORELOCK: Abstentions?	10.	Right. And it's a nonvote; it's not an
11.	(No verbal response.)	11.	abstention. You're not voting?
12.	CHAIRMAN MORELOCK: Not voting?	12.	MR. BAILEY: Not voting.
13.	(No verbal response.)	13.	CHAIRMAN MORELOCK: Okay. All
14.	CHAIRMAN MORELOCK: Okay. We have	14.	right. Any comments about that?
15.	the minutes approved.	15.	(No verbal response.)
16.	That will take us to Item 5, the	16.	CHAIRMAN MORELOCK: I think that's
17.	Chief Boiler Inspector's report. So Mr. Chapman,	17.	really important, so thank you for that
18.	I'll let you present that.	18.	clarification, Mr. Bailey.
19.	MR. CHAPMAN: Thank you. Number of	19.	MR. BAILEY: Sure.
20.	inspections performed was 1,904 from the state	20.	CHAIRMAN MORELOCK: Okay. Moving
21.	inspector; 4,876 from the insurance inspector;	21.	on to Item 7, which is New Business. Our first
22.	giving us a total of 6,780 inspections. Out of	22.	item is 17-01, Valero Refining Company-Tennessee,
23.	that, total delinquent inspections, 758 from the	23.	LLC. They'll present their Risk Based Inspection
24.	State and 316 from the insurance company, giving	24.	Program.
25.	us a total of 1,074.	25.	So come up, introduce yourself, and
	Page 14		Page 16
1.	Page 14 Violations found was 23, and we have	1.	Page 16 you can present your item.
1. 2.	-	1. 2.	- 1
1	Violations found was 23, and we have	1	you can present your item.
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1. 2.	internal readiness assessment was also conducted	Page 17			
2			1.	operating conditions on a five-year interval,	Page 1
۷٠	by Corporate PSM Team for preparation for our		2.	which is part of our HAZ-op procedure at our site.	
3.	voluntary protection program application		3.	Our jurisdictional inspection	
١.	submission. Maintenance and inspection activities		4.	activities on registered equipment are maintained	
5.	executed during 2016 are listed below, in Table A.		5.	with zero delinquencies. And then our process	
ó.	We also submitted and received		6.	equipment is circuitized and risk ranked in our	
	approval for extension of our boiler internal		7.	RBI program.	
	inspection frequency in 2016. The boiler		8.	As you can see on the Risk Data and	
	operating, inspection, and maintenance program		9.	Distribution table below, based off of our risk	
١.	procedure will be put into place following our		10.	level, our circuits that were inspected in 2015	
	site visit from Mr. Chapman, which is scheduled		11.	and in our current table there for 2016. And	
2.	for March 21st, next Tuesday.		12.	there are changes out to the right-hand side.	
	The refinery also submitted an		13.	Overall we had 149 internal inspections	
	application to the Tennessee Occupational Safety		14.	completed, 277 externals, and the 14 CUI	
	and Health Administration office on January 3rd,		15.	inspections that were performed in accordance with	
	2017, for the review and approval of our VPP		16.	our RBI program. The jurisdictional inspections	
	program to be implemented, and set up a site		17.	are scheduled and current and are being handled	
	audit, that will be soon scheduled.		18.	separately, outside of our RBI program.	
	Currently, right now, our status of		19.	During our major maintenance efforts,	
	that is we are waiting for TOSHA to give us an		20.	there were no significant discovery items	
	audit date, as there are several audits going on		21.	requiring repair. We did execute some insulation	
	this year.		22.	and fireproofing and repairs based on our CUI and	
3.	In Table A you can see, established		23.	external visual inspections.	
ŀ.	from our internal inspections that were performed		24.	And then there's our table below that	
5.	in 2016, we conducted 149 in the calendar here,		25.	lists our equipment status and our circuits.	
		Page 18			Page
	and then for 2017 we have 38 scheduled. We	-	1.	CHAIRMAN MORELOCK: Do I have a	
	completed 277 external inspections in '16, and		2.	motion to accept Valero's status report for their	
3.	then we have 280 scheduled for 2017.		3.	2016 RBI program?	
l .	Our on-stream inspection efforts,		4.	MR. BAUGHMAN: Motion to accept.	
i.	we'll complete 53 inspections since 2016 and we		5.	CHAIRMAN MORELOCK: Okay. I have a	a
).	have 5 planned for 2017. I had quite a bit of		6.	motion. Do I have a second?	
' .	activity in the 2016 year of our on-stream		7.	MR. PISCHKE: Second.	
i.	corrosion mapping on the defect damage		8.	CHAIRMAN MORELOCK: I have a	
١.	mechanism for specific inspections.		9.	second.	
).	We conducted 14 CUI inspections in		10.	Any discussion or questions?	
	'16, and we have 10 scheduled for '17. And then		11.	MR. PISCHKE: I have a question on	
2.	in 2016 we completed 509 jurisdictional		12.	the methodology of the RBI	
3.	inspections. We have 189 scheduled for 2017.		13.	MR. BAILEY: Mr. Chairman, you need	
	Our Evergreen activities for the RBI		14.	to ask if there's a conflict.	
	program include reviewing the assigned damage		15.	CHAIRMAN MORELOCK: Oh, thank you.	
ó.	mechanism and executing our proper inspection		16.	Is there a conflict of interest on	
'.	techniques, recording our inspection results and		17.	this item?	
	grading them per the respective effectiveness		18.	(No verbal response.)	
· ·	tables, and then scheduling our next inspection		19.	CHAIRMAN MORELOCK: Okay. Hearing	g
	per that that RBI methodology. Nonintrusive		20.	none, proceed.	_
	inspection techniques are executed and captured		21.	MR. PISCHKE: Thank you.	
	during our external inspections. Routine		22.	The RBI program, what kind of	
	corrosion monitoring and specialty non-destructive		23.	methodology is used? Is it, like, the standard	
	testing is performed when required. And then we		24.	MR. GROSS: So we use API	
5.	also do a revalidation of our fluid properties and		25.	methodology. It's inside our data management	
•	and to a revaluation of our raid properties and		23.		

		Page 21			Page 23
1.	software calculation.	<i>6</i> :	1.	that you can track when that system exercise was	G: -0
2.	MR. HARGROVE: (Indicating.)		2.	closed out. And we call it "T-co'd" (phonetic).	
3.	CHAIRMAN MORELOCK: Yes?		3.	MR. PISCHKE: Thank you, sir.	
4.	MR. HARGROVE: Keith Hargrove. Let		4.	MR. GROSS: Yes, sir.	
5.	me ask this question.		5.	CHAIRMAN MORELOCK: Just to follow	
6.	MR. GROSS: Yes, sir.		6.	up on Mr. Pischke's question, the API-based	
7.	MR. HARGROVE: On average, what is		7.	software is based off of API risk-based inspection	
8.	the duration or average time that any one of these		8.	methodologies and API 580 and 581. And that's	
9.	inspections are done? And is there any major		9.	what is used to calculate your likelihood of	
10.	variance in the time period to conduct those		10.	failure and consequences of failure to develop	
11.	inspections, and who's involved?		11.	your risk matrix, so	
12.	MR. GROSS: So I want to ask the		12.	MR. GROSS: That's correct.	
13.	question back. So as far as timing, as far as to		13.	CHAIRMAN MORELOCK: that's what	
14.	complete the inspection and preparation?		14.	the software is doing as it does those	
15.	MR. HARGROVE: Yes, sir.		15.	calculations based on your monitoring inputs from	
16.	MR. GROSS: So from an on-stream		16.	UT thickness and on-stream, on-line monitoring.	
17.	standpoint, or are you talking about during an		10. 17.	MR. GROSS: Yes, sir.	
18.			18.		
18. 19.	outage? MR. HARGROVE: On-stream.		18. 19.	CHAIRMAN MORELOCK: Okay. Any	
20.	MR. GROSS: On-stream?		20.	other questions?	
ı			ı	(No verbal response.)	
21.	MR. HARGROVE: Yes.		21.	CHAIRMAN MORELOCK: All right.	
22.	MR. GROSS: On-stream, we utilize		22.	Hearing none, all in favor to accept and approve	
23.	SAP. We have an operational system that we		23.	this RBI report from Valero, say "aye."	
24.	utilize a schedule. So from a major inspection		24.	(Affirmative response.)	
25.	effort, it may take insulation removal, it may		25.	CHAIRMAN MORELOCK: Opposed?	
		Page 22			Page 24
1.	take surface prep via either grip blasting, maybe	1 450	١.		1 4 5 2 .
1			1.	(No verbai response.)	
2.			1. 2.	(No verbal response.) CHAIRMAN MORELOCK: Abstentions?	
2. 3.	wire wheeling to execute an angle beam inspection		l '	CHAIRMAN MORELOCK: Abstentions?	
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	-	Page 25		Page
1.	updated the board on the program status. And now	age 23	1.	have from the field. So we compare those readings
2.	this is part 2 of our current RBI program.		2.	to the minimum-thickness readings. They are to be
3.	In 2015, we registered over 350		3.	equal or higher. If they are not, we have a
4.	pressure vessels, and in 2016 we also registered		4.	problem.
5.	approximately 350 pressure vessels. And those		5.	This is what I want to update the
6.	pressure vessels, as of 2017, are up for renewal.		6.	board on, where we are today in terms of how we
7.	And that's what we're doing today.		7.	conduct our first round of readings and are
8.	On the inspection side, we, too, use		8.	ongoing for the second round. And we will provide
9.	an RBI methodology similarly to Valero. I think		9.	an update to the board, on the next December
10.	Jeremy Gross has down the heavy lifting already on		10.	meeting, with the calculations, annualized
11.	describing what it is. We use the Meridium	1	11.	corrosion rates for our process within our
12.	software, and we are also, similar to Valero,		12.	facility.
13.	linked to an SAP system.		13.	CHAIRMAN MORELOCK: Thank you,
14.	In 2017 we started our inspection		14.	Richard.
15.	program, and we have inspected 96 vessels as of	1	15.	Do I have a motion to accept Wacker's
16.	March 12th, and the program is ongoing. And this		16.	RBI report?
10. 17.	is our first year of inspection.		10. 17.	MR. BAILEY: Conflicts?
17. 18.	Also, in our earlier presentation to		17. 18.	CHAIRMAN MORELOCK: Yes, thank you.
18. 19.	the board, we were committed to take baseline		18. 19.	Is there a conflict of interest?
19. 20.	readings and select equipment so that we can	1	19. 20.	(No verbal response.)
20. 21.	demonstrate to the board that we are a facility		20. 21.	CHAIRMAN MORELOCK: Hearing none,
21. 22.	operating in a noncorrosive environment. And we		21. 22.	do I have a motion to accept Wacker's report?
22. 23.		I	22. 23.	MR. BAUGHMAN: Motion made to
	have completed round 1 as of 2016. We are about			
24. 25.	to start round 2 in 2017. It has started just last week, and we will continue into that program		24. 25.	accept the report. MR. PISCHKE: Second.
23.	last week, and we will continue into that program	ľ	23.	WR. FISCHEE. Second.
]	Page 26		Page
1.	for the duration of the year.		1.	CHAIRMAN MORELOCK: So I have a
2.	On this package that we presented, we		2.	second. Any questions or comments?
3.	provided an example of our inspection of pressure		3.	MR. PISCHKE: I have a question
4.	vessels on getting baseline readings. And if you		4.	about the failure modes that you would be looking
5.	take a few minutes, you can see a typical layout		5.	for. I assume, and maybe this is wrong, that
6.	on how we determine the vessel, the number of		6.	these vessels contain the polysilicon and some
7.	points we have taken, the way we identify all the		7.	erosion concerns.
8.	points, and the findings on the very last page.		8.	MR. ENG: That's correct. There
9.	We had approximately 20 to 25 points		9.	are many applications where we have solids of
10.	per pressure vessel, and it's based on the size of		10.	different sizes flowing at fairly high velocities.
11.	the vessel, the service, the application and API		11.	So erosion, actually, is more of an issue than
12.	510 recommendations. And that's how we make that		12.	corrosion.
13.	determination to location and the number of		13.	MR. PISCHKE: Than corrosion,
	different points.		14.	correct.
l4.	On the last page I think it's the		15.	MR. ENG: Okay. So we do monitor
			16.	thickness for many of these processes, knowing
15.	ž -			that, already from our previous operations in
15. 16.	last page on your printout you will see a		1/.	, The Francisco of States
15. 16. 17.	last page on your printout you will see a typical profile. On the third column, Minimum		17. 18.	our sister facilities, mainly in Germany with 30
15. 16. 17. 18.	last page on your printout you will see a typical profile. On the third column, Minimum Thickness, that's a calculated value for us. It		18.	our sister facilities, mainly in Germany, with 30, 40, 50 years of operating history, we know that.
15. 16. 17. 18.	last page on your printout you will see a typical profile. On the third column, Minimum Thickness, that's a calculated value for us. It is the thickness that's calculated between a		18. 19.	40, 50 years of operating history, we know that,
15. 16. 17. 18. 19.	last page on your printout you will see a typical profile. On the third column, Minimum Thickness, that's a calculated value for us. It is the thickness that's calculated between a design thickness minus the 12-1/2 percent	2	18. 19. 20.	40, 50 years of operating history, we know that, one, at a certain, specific date or so many kilos
15. 16. 17. 18. 19. 20.	last page on your printout you will see a typical profile. On the third column, Minimum Thickness, that's a calculated value for us. It is the thickness that's calculated between a design thickness minus the 12-1/2 percent manufacturer's tolerance thickness, and then minus		18. 19. 20. 21.	40, 50 years of operating history, we know that, one, at a certain, specific date or so many kilos of production we will take the vessel down,
15. 16. 17. 18. 19. 20. 21.	last page on your printout you will see a typical profile. On the third column, Minimum Thickness, that's a calculated value for us. It is the thickness that's calculated between a design thickness minus the 12-1/2 percent manufacturer's tolerance thickness, and then minus any corrosion allowance in the manufacturing of	:	18. 19. 20. 21. 22.	40, 50 years of operating history, we know that, one, at a certain, specific date or so many kilos of production we will take the vessel down, provide a visual inspection, take a measurement of
14. 15. 16. 17. 18. 19. 20. 21. 22. 23.	last page on your printout you will see a typical profile. On the third column, Minimum Thickness, that's a calculated value for us. It is the thickness that's calculated between a design thickness minus the 12-1/2 percent manufacturer's tolerance thickness, and then minus any corrosion allowance in the manufacturing of the vessel.	: :	18. 19. 20. 21. 22. 23.	40, 50 years of operating history, we know that, one, at a certain, specific date or so many kilos of production we will take the vessel down, provide a visual inspection, take a measurement of thickness, and in many times do a repair. That's
15. 16. 17. 18. 19. 20. 21.	last page on your printout you will see a typical profile. On the third column, Minimum Thickness, that's a calculated value for us. It is the thickness that's calculated between a design thickness minus the 12-1/2 percent manufacturer's tolerance thickness, and then minus any corrosion allowance in the manufacturing of		18. 19. 20. 21. 22.	40, 50 years of operating history, we know that, one, at a certain, specific date or so many kilos of production we will take the vessel down, provide a visual inspection, take a measurement of

1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	Page 29 MR. PISCHKE: Is that part of this RBI, then? MR. ENG: RBI for us is predominantly corrosion, damage-mechanism related. The erosion side, we have a separate program, though, we don't call it RBI. We have the operating in-service inspections. And it's a how should I say it's based on the number of hours of operation and the application of that	1. 2. 3. 4. 5. 6. 7.	legible; whereas, my brother's, next to me, is. So I looked over it, but just as a proofreading for in the future so that I can analyze the chart, I would ask that to be noted. MR. ENG: Maybe if I don't put	Page 31
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7. 8. 9. 10.	operating in-service inspections. And it's a how should I say it's based on the number of hours of operation and the application of that	7.		
8. 9. 10.	how should I say it's based on the number of hours of operation and the application of that		color schemes, it will be easier. My apologies.	
9. 10.	hours of operation and the application of that		CHAIRMAN MORELOCK: Okay. Any	
10.	* **	8.	other questions or comments?	
	1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9.	MR. HARGROVE: Just one quick	
11	vessel. An example I can provide is in our CS	10.	question. On your Table, you made the statement	
11.	reaction to area. Approximately every six to ten	11.	that the readings should exceed the thickness.	
12.	months a reactor comes out, because we know that	12.	MR. ENG: Yes.	
13.	it's due time for inspection and repair, possibly,	13.	MR. HARGROVE: And I would	
14.	and then put it back in service.	14.	certainly agree with that. Is there any concern	
15.	To answer Dr. Hargrove's question on	15.	for, I think, Number 17 any concern there in	
16.	who does it, when do we do it, how is it notified,	16.	particular about that reading? Or should the	
17.	if I can just say ditto Valero, it would be easy	17.	reading be done again?	
18.	for me. Okay?	18.	MR. ENG: 17, okay. Let's take a	
19.	CHAIRMAN MORELOCK: Well, and just	19.	look398, is that the one you're looking at,	
20.	for our benefit, where Wacker is right now is	20.	Dr. Hargrove?	
21.	they've got a brand new facility in the state of	21.	MR. HARGROVE: At the end, .5 and	
22.	Tennessee. They're creating a lot of jobs, by the	22.	then .496. Am I reading that correctly?	
23.	way. But what they're having to do is this	23.	CHAIRMAN MORELOCK: You are.	
24.	baseline is everything is new, so they're	24.	MR. PISCHKE: Yeah. And the	
25.	taking all these readings to see what the	25.	minimum is .398.	
	Page 30			Page 32
1.	thickness of all these components, pressure	1.	CHAIRMAN MORELOCK: Yes. So the	C
2.	components, are right now. And right now they're	2.	first column is the minimum-required thickness.	
3.	bound by the two-year internal inspection	3.	This is the minimum-required thickness. This is	
4.	requirement in the law and rule to maintain a	4.	the way it was delivered, and that's what their	
5.	certificate of inspection for their equipment.	5.	current reading is. Nominal thicknesses, what it	
6.	Once they operate this two years and then do this	6.	was the product form was purchased as.	
7.	inspection again and take these readings again,	7.	MR. ENG: Does your chart look like	
8.	then they can establish potential corrosion rates	8.	mine, Dr. Hargrove?	
9.	or erosion rates or your damage mechanisms,	9.	MR. HARGROVE: Yes. Yes.	
10.	confirm that they are actual damage mechanisms,	10.	CHAIRMAN MORELOCK: So as	
11.	and then they can come back to the board with	11.	Mr. Pischke was pointing out, the readings were	
12.	another report to see if they have cause to extend	12.	.496, but the minimum is .398, so you're above the	
13.	those internal inspection frequencies beyond two	13.	.398.	
14.	years based on their date. But they're gathering	14.	MR. ENG: Correct.	
15.	data right now. So that's where they're at. So	15.	CHAIRMAN MORELOCK: Any other	
16.	it's a good process and it's a good report.	16.	questions or comments?	
17.	MR. ENG: I think, for me, as an	17.	(No verbal response.)	
18.	engineer, typically, when you go into a facility,	18.	CHAIRMAN MORELOCK: Okay. Hearin	ıg
19.	you don't get the luxury of starting up a brand	19.	none, I'm going to call the question. All in	-
20.	new facility and being able to get baseline	20.	favor, say "aye."	
21.	readings. I think this is the first time I can do	21.	(Affirmative response.)	
22.	it.	22.	CHAIRMAN MORELOCK: Opposed?	
23.	MR. BAUGHMAN: I'd like to comment.	23.	(No verbal response.)	
24.	I just wanted to make a comment that I noticed our	24.	CHAIRMAN MORELOCK: Abstentions?	
25.	charts were a little bit off. And mine is not	25.	(No verbal response.)	
	Provided by Stone & George	Cou	rt Reporting (615) 268-1244	

	F	Page 33	Page 35
1.	CHAIRMAN MORELOCK: Not voting?	1.	MR. BAILEY: Any conflicts?
2.	(No verbal response.)	2.	CHAIRMAN MORELOCK: Thank you.
3.	CHAIRMAN MORELOCK: Thank you,	3.	Any conflicts of interest?
4.	Richard.	4.	(No verbal response.)
5.	MR. ENG: Thank you.	5.	CHAIRMAN MORELOCK: Okay.
6.	CHAIRMAN MORELOCK: Okay. That	6.	Gentlemen, just to give some
7.	takes us to Item 17-03. This is MC Ionic	7.	information, this was on our September 2016
8.	Solutions requesting to designate nine pressure	8.	agenda. And the packet that had been provided to
9.	vessels as Tennessee Specials.	9.	us, these vessels have been designed, fabricated,
10.	So, gentlemen, if you'll introduce	10.	tested, inspected, and stamped for ASME code. The
11.	yourselves.	11.	only thing that's wrong with these vessels is they
12.	MR. WOODFIN: Randall Woodfin with	12.	don't have a national board number on them.
13.	CNA Insurance.	13.	And so, used to, you were given a
14.	MR. VJIHARA: Yuki Vjihara with	14.	period of time by the national board, 30 to
15.	MC Ionic Solutions US.	15.	60 days, to get those registered and stamped;
16.	MR. YAMAHARA: My name is Katsuhito	16.	however, they have since published NB264 which
17.	Yamahara. I'm the plant manager at MC Ionic	17.	allows you to go through the process of
18.	Solutions US.	18.	registering vessels that may have already even
18. 19.	THE REPORTER: If he's going to be	18. 19.	been put into service. However, these gentlemen
l			
20.	speaking, I can't hear him.	20.	have done the due diligence. They've contacted the national board and the national board has
21.	Can you please speak up?	21.	
22.	CHAIRMAN MORELOCK: You-all may	22.	denied that option to get those numbers. So this
23.	proceed.	23.	is where we're at. And
24.	MR. WOODFIN: Thank you. These	24.	MR. PISCHKE: Do we know the reason
25.	vessels were installed without national board	25.	why the national board denied
		24	
	_	29 GE 3/1	Page 36
1		Page 34	Page 36 MR_WOODEIN: The email John Hogue
1.	numbers. They were purchased in China, and	1.	MR. WOODFIN: The email John Hogue
2.	numbers. They were purchased in China, and inadvertently, through their procurement process,	1. 2.	MR. WOODFIN: The email John Hogue sent only said that the period of time between the
2. 3.	numbers. They were purchased in China, and inadvertently, through their procurement process, national board numbers were either not requested	1. 2. 3.	MR. WOODFIN: The email John Hogue sent only said that the period of time between the construction of the vessels and the application
2. 3. 4.	numbers. They were purchased in China, and inadvertently, through their procurement process, national board numbers were either not requested or not installed by the manufacturer.	1. 2. 3. 4.	MR. WOODFIN: The email John Hogue sent only said that the period of time between the construction of the vessels and the application was too much, in his opinion.
2. 3. 4. 5.	numbers. They were purchased in China, and inadvertently, through their procurement process, national board numbers were either not requested or not installed by the manufacturer. When they were installed six years	1. 2. 3. 4. 5.	MR. WOODFIN: The email John Hogue sent only said that the period of time between the construction of the vessels and the application was too much, in his opinion. CHAIRMAN MORELOCK: Okay. And what
2. 3. 4. 5. 6.	numbers. They were purchased in China, and inadvertently, through their procurement process, national board numbers were either not requested or not installed by the manufacturer. When they were installed six years ago, the insurance inspector at the time	1. 2. 3. 4. 5.	MR. WOODFIN: The email John Hogue sent only said that the period of time between the construction of the vessels and the application was too much, in his opinion. CHAIRMAN MORELOCK: Okay. And what time frame is that, just for the record?
2. 3. 4. 5. 6. 7.	numbers. They were purchased in China, and inadvertently, through their procurement process, national board numbers were either not requested or not installed by the manufacturer. When they were installed six years ago, the insurance inspector at the time originally registered those vessels with the	1. 2. 3. 4. 5. 6. 7.	MR. WOODFIN: The email John Hogue sent only said that the period of time between the construction of the vessels and the application was too much, in his opinion. CHAIRMAN MORELOCK: Okay. And what time frame is that, just for the record? MR. WOODFIN: About six years.
2. 3. 4. 5. 6. 7. 8.	numbers. They were purchased in China, and inadvertently, through their procurement process, national board numbers were either not requested or not installed by the manufacturer. When they were installed six years ago, the insurance inspector at the time originally registered those vessels with the State, and the State issued operating certificates	1. 2. 3. 4. 5. 6. 7. 8.	MR. WOODFIN: The email John Hogue sent only said that the period of time between the construction of the vessels and the application was too much, in his opinion. CHAIRMAN MORELOCK: Okay. And what time frame is that, just for the record? MR. WOODFIN: About six years. CHAIRMAN MORELOCK: Okay. So
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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.	numbers. They were purchased in China, and inadvertently, through their procurement process, national board numbers were either not requested or not installed by the manufacturer. When they were installed six years ago, the insurance inspector at the time originally registered those vessels with the State, and the State issued operating certificates for the vessels. Subsequently, during the next inspection cycle, the lack of national board numbers was noted and flagged. Through subsequent guidance through Mr. Chapman and Ms. Rhone, they requested that we make application or requested that the manufacturer make application to the national board to apply national board numbers on those. The national board denied their request. So subsequent to that, Mr. Chapman made guidance to apply for State Specials for those vessels. CHAIRMAN MORELOCK: Do I have a motion to discuss this item? MR. PISCHKE: So moved. MR. BAUGHMAN: Second.	1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23.	MR. WOODFIN: The email John Hogue sent only said that the period of time between the construction of the vessels and the application was too much, in his opinion. CHAIRMAN MORELOCK: Okay. And what time frame is that, just for the record? MR. WOODFIN: About six years. CHAIRMAN MORELOCK: Okay. So that's a pretty long time. Are the vessels unsafe? No, they're not unsafe. I mean, they just don't have the national board number on them. And so it is an option to make State Specials out of these. That's why you have all the calculations and the documentation proving that these vessels are ASME code-stamped vessels, as long as you, being the owner/user of these vessels, accept the requirements of the State Special in that all repairs done to those vessels have to be approved by the chief inspector of the State of Tennessee, and all alterations potentially done to these vessels in the future would have to come before the Tennessee Board, and we meet quarterly. So
2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24.	numbers. They were purchased in China, and inadvertently, through their procurement process, national board numbers were either not requested or not installed by the manufacturer. When they were installed six years ago, the insurance inspector at the time originally registered those vessels with the State, and the State issued operating certificates for the vessels. Subsequently, during the next inspection cycle, the lack of national board numbers was noted and flagged. Through subsequent guidance through Mr. Chapman and Ms. Rhone, they requested that we make application or requested that the manufacturer make application to the national board to apply national board numbers on those. The national board denied their request. So subsequent to that, Mr. Chapman made guidance to apply for State Specials for those vessels. CHAIRMAN MORELOCK: Do I have a motion to discuss this item? MR. PISCHKE: So moved. MR. BAUGHMAN: Second. CHAIRMAN MORELOCK: Okay. I've got	1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24.	MR. WOODFIN: The email John Hogue sent only said that the period of time between the construction of the vessels and the application was too much, in his opinion. CHAIRMAN MORELOCK: Okay. And what time frame is that, just for the record? MR. WOODFIN: About six years. CHAIRMAN MORELOCK: Okay. So that's a pretty long time. Are the vessels unsafe? No, they're not unsafe. I mean, they just don't have the national board number on them. And so it is an option to make State Specials out of these. That's why you have all the calculations and the documentation proving that these vessels are ASME code-stamped vessels, as long as you, being the owner/user of these vessels, accept the requirements of the State Special in that all repairs done to those vessels have to be approved by the chief inspector of the State of Tennessee, and all alterations potentially done to these vessels in the future would have to come before the Tennessee Board, and we meet quarterly. So that's the ramifications with that.
2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23.	numbers. They were purchased in China, and inadvertently, through their procurement process, national board numbers were either not requested or not installed by the manufacturer. When they were installed six years ago, the insurance inspector at the time originally registered those vessels with the State, and the State issued operating certificates for the vessels. Subsequently, during the next inspection cycle, the lack of national board numbers was noted and flagged. Through subsequent guidance through Mr. Chapman and Ms. Rhone, they requested that we make application or requested that the manufacturer make application to the national board to apply national board numbers on those. The national board denied their request. So subsequent to that, Mr. Chapman made guidance to apply for State Specials for those vessels. CHAIRMAN MORELOCK: Do I have a motion to discuss this item? MR. PISCHKE: So moved. MR. BAUGHMAN: Second.	1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23.	MR. WOODFIN: The email John Hogue sent only said that the period of time between the construction of the vessels and the application was too much, in his opinion. CHAIRMAN MORELOCK: Okay. And what time frame is that, just for the record? MR. WOODFIN: About six years. CHAIRMAN MORELOCK: Okay. So that's a pretty long time. Are the vessels unsafe? No, they're not unsafe. I mean, they just don't have the national board number on them. And so it is an option to make State Specials out of these. That's why you have all the calculations and the documentation proving that these vessels are ASME code-stamped vessels, as long as you, being the owner/user of these vessels, accept the requirements of the State Special in that all repairs done to those vessels have to be approved by the chief inspector of the State of Tennessee, and all alterations potentially done to these vessels in the future would have to come before the Tennessee Board, and we meet quarterly. So

1.		Page 37		Page
	There's no board case, no board interpretation.		1.	nine ASME code pressure vessels as Tennessee
2.	There's nothing that would allow the board		2.	Specials?
3.	leniency, because they're not national board		3.	MR. BAUGHMAN: So moved, to accept.
4.	stamped. And so that's where we're at today.		4.	MR. PISCHKE: Second.
5.	MR. BAUGHMAN: I've got a question.		5.	CHAIRMAN MORELOCK: Okay. So I
6.	CHAIRMAN MORELOCK: Yes?		6.	have a motion and a second. Any further
7.	MR. BAUGHMAN: Has there been any		7.	discussion?
8.	repairs, to date, on any of the vessels?		8.	(No verbal response.)
9.	MR. WOODFIN: You haven't done any	I .	9.	CHAIRMAN MORELOCK: All right. I'm
0.	welding or repairs?		10.	going to call the question. All in favor say
1.	MR. VJIHARA: No.	I .	11.	"aye."
2.	MR. YAMAHARA: No. Nothing.		12.	(Affirmative response.)
3.	MR. BAUGHMAN: Any issues with any	I .	13.	CHAIRMAN MORELOCK: Opposed?
4.	of the vessels, operational-wise, that have had to		13. 14.	(No verbal response.)
5.	have any attention?		1 4 . 15.	CHAIRMAN MORELOCK: Abstentions?
	MR. YAMAHARA: We have never had		15. 16.	
6.				(No verbal response.)
7.	such a problem or issues. No. Not any.		17.	CHAIRMAN MORELOCK: Not voting?
8.	CHAIRMAN MORELOCK: Any other		18.	(No verbal response.)
9.	questions or comments?	I .	19.	CHAIRMAN MORELOCK: So, gentlemen,
20.	MR. BAUGHMAN: When is the last	I .	20.	you can work with the boiler unit and the chief
21.	time these have been inspected?		21.	inspector to get those Tennessee Special tags on
22.	CHAIRMAN MORELOCK: I think the		22.	those vessels, and you'll be okay to operate those
23.	inspection reports I think they're in the		23.	vessels.
24.	package.	I .	24.	MR. WOODFIN: Good. Two quick
25.	MR. VJIHARA: April 2016.	2	25.	notes, if I may. The first one is subsequently,
		Page 38		Page
1.	MR. WOODFIN: April of 2016.	1 age 30	1.	during this process we've been going through
2.	That's when the lack of national board numbers was		2.	for a year we've identified three other vessels
3.	noted on the vessels or noted not on the		3.	on site that were not previously known and have
<i>4</i> .	vessels.		4.	not been registered yet with the State. Those
- . 5.	MR. BAUGHMAN: Okay. So these were		5.	also are U-stamped but do not have national board
	•	I .	<i>5</i> .	numbers.
6.	installed six years ago, and they were noted last			
7.	year.		7.	CHAIRMAN MORELOCK: Okay.
8.	MR. WOODFIN: Yes.		8.	MR. WOODFIN: For those three, do
	MR. BAUGHMAN: Okay. Thank you.		9.	we have to come back and make a
9.				
9. 10.	CHAIRMAN MORELOCK: Any other	1	10.	CHAIRMAN MORELOCK: Yes.
9. 10. 11.	CHAIRMAN MORELOCK: Any other questions or comments?		10. 11.	MR. WOODFIN: Okay.
9. 10. 11.	•	1		
9. 10. 11.	questions or comments?	1	11.	MR. WOODFIN: Okay.
9. 10. 11. 12.	questions or comments? MR. HARGROVE: I have a question.	1 1 1	11. 12.	MR. WOODFIN: Okay. CHAIRMAN MORELOCK: Now, how old
9. 10. 11. 12. 13.	questions or comments? MR. HARGROVE: I have a question. CHAIRMAN MORELOCK: Yes?	1 1 1 1	11. 12. 13.	MR. WOODFIN: Okay. CHAIRMAN MORELOCK: Now, how old are they?
9. 10. 11. 12. 13. 14.	questions or comments? MR. HARGROVE: I have a question. CHAIRMAN MORELOCK: Yes? MR. HARGROVE: Only one request was	1 1 1 1	11. 12. 13. 14.	MR. WOODFIN: Okay. CHAIRMAN MORELOCK: Now, how old are they? MR. WOODFIN: The same. They were
9. 10. 11. 12. 13. 14. 15.	questions or comments? MR. HARGROVE: I have a question. CHAIRMAN MORELOCK: Yes? MR. HARGROVE: Only one request was made? I assume that there was only one request	1 1 1 1 1	11. 12. 13. 14.	MR. WOODFIN: Okay. CHAIRMAN MORELOCK: Now, how old are they? MR. WOODFIN: The same. They were installed exactly the same time.
9. 10. 11. 12. 13. 14. 15. 16. 17.	questions or comments? MR. HARGROVE: I have a question. CHAIRMAN MORELOCK: Yes? MR. HARGROVE: Only one request was made? I assume that there was only one request for those national stamps, correct? MR. WOODFIN: We did not push back	1 1 1 1 1 1	11. 12. 13. 14. 15.	MR. WOODFIN: Okay. CHAIRMAN MORELOCK: Now, how old are they? MR. WOODFIN: The same. They were installed exactly the same time. CHAIRMAN MORELOCK: Okay. Well,
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9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21.	questions or comments? MR. HARGROVE: I have a question. CHAIRMAN MORELOCK: Yes? MR. HARGROVE: Only one request was made? I assume that there was only one request for those national stamps, correct? MR. WOODFIN: We did not push back to Mr. Hogue. We did not respond and disagree or ask for further guidance on it. His answer was fairly emphatic. CHAIRMAN MORELOCK: Any other	1 1 1 1 1 1 1 2 2	11. 12. 13. 14. 15. 16. 17. 18. 19. 20.	MR. WOODFIN: Okay. CHAIRMAN MORELOCK: Now, how old are they? MR. WOODFIN: The same. They were installed exactly the same time. CHAIRMAN MORELOCK: Okay. Well, then, yes, you'll just have to bring those back to us. MR. BAUGHMAN: Do they have any others on order, coming in? MR. WOODFIN: I don't think there
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9. 10. 111. 122. 133. 144. 155. 116. 117. 118. 119. 220. 221. 222.	questions or comments? MR. HARGROVE: I have a question. CHAIRMAN MORELOCK: Yes? MR. HARGROVE: Only one request was made? I assume that there was only one request for those national stamps, correct? MR. WOODFIN: We did not push back to Mr. Hogue. We did not respond and disagree or ask for further guidance on it. His answer was fairly emphatic. CHAIRMAN MORELOCK: Any other questions or comments? (No verbal response.)	1 1 1 1 1 1 1 2 2 2 2	111. 112. 113. 114. 115. 116. 117. 118. 119. 220. 221. 222.	MR. WOODFIN: Okay. CHAIRMAN MORELOCK: Now, how old are they? MR. WOODFIN: The same. They were installed exactly the same time. CHAIRMAN MORELOCK: Okay. Well, then, yes, you'll just have to bring those back to us. MR. BAUGHMAN: Do they have any others on order, coming in? MR. WOODFIN: I don't think there ever will be, to be honest about it. It's been a good it's been a very good process. And my
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1. 2.	Page 4	1	Page
2	Mr. Chapman and Ms. Rhone for all the guidance	1.	operate this.
۷.	they provided during this. It was a process that	2.	One thing I did notice in this
3.	was as smooth as possible under the circumstances	3.	package I sent you, I had not put in the Tennessee
1.	and within the confines of the law and the boiler	4.	number on page A-1. That's the the reason I
5.	rules. So they would really like to appreciate	5.	did that was because I had the package in the
6.	y'all for everything that you've done to help	6.	process of being put together before we got the
7.	guide them through this process.	7.	certificate back from the State. Both of these
8.	CHAIRMAN MORELOCK: Okay. Thank	8.	boilers are inspected, and I do have that state
9.	you for the kind words.	9.	number, if you would like it. It's Tennessee
0.	MR. WOODFIN: Thank you.	10.	106752, and that's for Boiler Number 1.
1.	CHAIRMAN MORELOCK: So work with	11.	CHAIRMAN MORELOCK: Okay.
2.	Sam to get those on the next agenda.	12.	MR. MUMMERT: That was the only
3.	MR. WOODFIN: Great.	13.	information I could see that I had left out of
4.	CHAIRMAN MORELOCK: Okay. Our next	14.	this manual, and that was because I had already
5.	item is 17-04. Milan General Hospital requests a	15.	started this before I got that certificate back.
6.	new variance for two boilers located in Milan,	16.	So that's basically where I stand.
7.	Tennessee.	17.	I'm in need of a variance really bad because I
7. 8.	MR. MUMMERT: Good morning. I'm	18.	have no help.
o. 9.	Derrick Mummert. I'm the maintenance manager for	19.	CHAIRMAN MORELOCK: Okay. Do I
9. 0.	that hospital, and I appreciate your time this	20.	have a motion to approve this variance contingent
			on Tennessee Board comments and wait a minute.
1. 2.	morning.	21. 22.	Is there a conflict of interest?
	The variance we're requesting	- 1	
3.	Milan General Hospital is actually owned by West	23.	(No verbal response.)
4. -	Tennessee Healthcare out in Jackson, Tennessee.	24.	CHAIRMAN MORELOCK: All right. I'm
5.	We're an affiliate of them. They have their own	25.	hearing no conflict of interest. So do I have a
	Page 4	2	Page
1.	engineering department, so I oversee four	1.	motion to accept this variance request contingent
2.	hospitals. Milan is one of them. The big reason	2.	on Tennessee board comments given today and a site
3.	we need this, this is the four-story hospital.	3.	visit by the chief inspector?
4.	It's all for patient care, patient health. The	4.	MR. PISCHKE: So moved.
5.	boilers are used for heating the building, used	5.	MR. BAUGHMAN: Second.
6.	for sterilizing for surgery. It's used for	6.	CHAIRMAN MORELOCK: I have a motion
	helping in the kitchen for food preparation.	7.	and I have a second. Okay. Any questions?
7.			
		18	* * *
8.	These are brand new. We put them in	8.	MR. BAUGHMAN: Yes, Brian. I'll
8. 9.	These are brand new. We put them in last year to replace ones that were 52 years old.	9.	MR. BAUGHMAN: Yes, Brian. I'll start.
8. 9. 0.	These are brand new. We put them in last year to replace ones that were 52 years old. They're the same brand and everything. It worked	9. 10.	MR. BAUGHMAN: Yes, Brian. I'll start. CHAIRMAN MORELOCK: Okay.
8. 9. 0.	These are brand new. We put them in last year to replace ones that were 52 years old. They're the same brand and everything. It worked out that they're the same horsepower, same	9. 10. 11.	MR. BAUGHMAN: Yes, Brian. I'll start. CHAIRMAN MORELOCK: Okay. MR. BAUGHMAN: You noted the
8. 9. 0. 1.	These are brand new. We put them in last year to replace ones that were 52 years old. They're the same brand and everything. It worked out that they're the same horsepower, same pressures. They're 150-horsepower boilers. They	9. 10. 11. 12.	MR. BAUGHMAN: Yes, Brian. I'll start. CHAIRMAN MORELOCK: Okay. MR. BAUGHMAN: You noted the Tennessee number, but I've got to note the
8. 9. 0. 1. 2.	These are brand new. We put them in last year to replace ones that were 52 years old. They're the same brand and everything. It worked out that they're the same horsepower, same pressures. They're 150-horsepower boilers. They run 150 PSI is what they're rated at. We	9. 10. 11. 12. 13.	MR. BAUGHMAN: Yes, Brian. I'll start. CHAIRMAN MORELOCK: Okay. MR. BAUGHMAN: You noted the Tennessee number, but I've got to note the national board numbers
8. 9. 0. 1. 2. 3.	These are brand new. We put them in last year to replace ones that were 52 years old. They're the same brand and everything. It worked out that they're the same horsepower, same pressures. They're 150-horsepower boilers. They run 150 PSI is what they're rated at. We normally run them at 100 or less. Between 90 and	9. 10. 11. 12. 13. 14.	MR. BAUGHMAN: Yes, Brian. I'll start. CHAIRMAN MORELOCK: Okay. MR. BAUGHMAN: You noted the Tennessee number, but I've got to note the national board numbers MR. MUMMERT: For the boilers
8. 9. 0. 1. 2. 3. 4. 5.	These are brand new. We put them in last year to replace ones that were 52 years old. They're the same brand and everything. It worked out that they're the same horsepower, same pressures. They're 150-horsepower boilers. They run 150 PSI is what they're rated at. We normally run them at 100 or less. Between 90 and 100 is our average pressure that we run them at.	9. 10. 11. 12. 13. 14.	MR. BAUGHMAN: Yes, Brian. I'll start. CHAIRMAN MORELOCK: Okay. MR. BAUGHMAN: You noted the Tennessee number, but I've got to note the national board numbers MR. MUMMERT: For the boilers themselves?
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8. 9. 0. 1. 2. 3. 4. 5. 6. 7. 8.	These are brand new. We put them in last year to replace ones that were 52 years old. They're the same brand and everything. It worked out that they're the same horsepower, same pressures. They're 150-horsepower boilers. They run 150 PSI is what they're rated at. We normally run them at 100 or less. Between 90 and 100 is our average pressure that we run them at. These are CBEX-P200s. They're made they were installed by Morgan & Thornburg out of Memphis, and they're the ones that's doing	9. 10. 11. 12. 13. 14. 15. 16. 17.	MR. BAUGHMAN: Yes, Brian. I'll start. CHAIRMAN MORELOCK: Okay. MR. BAUGHMAN: You noted the Tennessee number, but I've got to note the national board numbers MR. MUMMERT: For the boilers themselves? MR. BAUGHMAN: Yes, sir. Boiler Number 1, 19506; Boiler Number 2, 19506. MR. MUMMERT: Oh, that's a typo on
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		Page 45			Page 47
1.	guys at the hospital	C	1.	also have that responsibility.	Č
2.	MR. MUMMERT: Correct.		2.	MR. BAUGHMAN: Okay. Scenario	
3.	MR. BAUGHMAN: who are operating		3.	being if there's a trauma incident and we've got	
4.	24/7.		4.	multiple patients coming in, is there a	
5.	MR. MUMMERT: Yes, sir.		5.	possibility that the remote alarm attendant would	
6.	MR. BAUGHMAN: So during one of the		6.	not be available?	
7.	shifts we're short a person, or if somebody is		7.	MR. MUMMERT: It's right at the	
8.	sick, holidays, what have you, we're really		8.	nurses station, so there's usually two nurses, a	
9.	MR. MUMMERT: When I said I've got		9.	respiratory therapist, and a registration person	
10.	two people there, I also have I've got three		10.	there. Even after hours, there's generally four	
11.	healthcare facilities in one county. I've got a		11.	in that general area, including a doctor roving	
12.	third maintenance guy at another facility, which		12.	around. But if there is an issue with the boiler,	
13.	is 16 miles away, that also takes calls on these		13.	it automatically shuts itself down. When that	
14.	boilers, and he's been trained. And he's		14.	alarm sounds, the boiler shuts down. So that's	
15.	documented in here. And I've got a fourth guy I		15.	more of them to see why the alarm sounded.	
16.	just hired, just this past week. So I don't have		16.	MR. BAUGHMAN: But the and I	
17.	him in here because he's not up and he gets		17.	appreciate that, but the question being, is there	
18.	lost now in the building, so I can't train him yet		18.	the possibility that this remote alarm station	
19.	until he gets comfortable.		19.	could possibly not be attended, and	
20.	In between that, I've got		20.	MR. MUMMERT: It's the alarm is	
21.	respiratory therapy is there 24/7, because of the		21.	so loud that because of the size of the ER is	
22.	nature of their job, and we have trained them to		22.	so small, that no matter where you are at in the	
23.	go down and do a physical, on-site look things		23.	ER, you can hear it.	
24.	over to make sure there's nothing squirting out		24.	MR. BAUGHMAN: Can you silence the	
25.	the side and no fires. So they're doing a visual		25.	alarm itself?	
		D 46			
		Page 46			Page 48
1.	inspection, and it's set up that they will	Page 46	1.	MR. MUMMERT: If you do, you kill	Page 48
2.	automatically contact whoever is on call, or	Page 46	2.	the boiler.	Page 48
2. 3.	automatically contact whoever is on call, or myself, if they cannot get the person on call.	Page 46	2. 3.	the boiler. MR. BAUGHMAN: Okay. So the alarm,	Page 48
2. 3. 4.	automatically contact whoever is on call, or myself, if they cannot get the person on call. And they also have the capability, remotely, in	Page 46	2. 3. 4.	the boiler. MR. BAUGHMAN: Okay. So the alarm, itself, by silencing it, also	Page 48
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		Page 49			Page 51
1.	that there's somebody not right there face-to-face	1 1180 19	1.	about the training of the remote attendants. Are	1 480 01
2.	with the alarm. But no matter like I said, no		2.	all of these people full-time employees?	
3.	matter where they are in that ER, it's such a		3.	MR. MUMMERT: Yes.	
4.	small ER, that they can hear it.		4.	MR. PISCHKE: No temps or	
5.	MR. BAUGHMAN: Okay. This alarm,		5.	MR. MUMMERT: No. They're all	
6.	it's hardwired in?		6.	full-time.	
7.	MR. MUMMERT: Yes.		7.	MR. PISCHKE: subcontracted?	
8.	MR. BAUGHMAN: I pass the questions		8.	MR. MUMMERT: Full-time.	
9.	off for now.		9.	MR. PISCHKE: Okay. And there's	
10.	MR. HARGROVE: Quite frankly, I'm a		10.	not a high turnover rate or	
11.	little concerned on the availability of personnel		11.	MR. MUMMERT: No.	
12.	for the incidents and oversight of the boilers.		12.	MR. PISCHKE: Because I notice it's	
13.	Considering your staff, it stated that the alarm		13.	only once a year that the training occurs, and	
14.	panel is tested daily.		14.	so	
15.	MR. MUMMERT: That's correct.		15.	MR. MUMMERT: Yeah. That's just	
16.	MR. HARGROVE: Okay. So walk me		16.	because I started this in October. I mean,	
17.	through who's doing that.		17.	that's but, I mean, I can do it earlier or	
18.	MR. MUMMERT: Every day it's done		18.	sooner. When I get new people, of course we do it	
19.	by maintenance.		19.	as part of the initial orientation. Once we get	
20.	MR. HARGROVE: And what time? Is		20.	them trained, you know and I'll update this and	
21.	this the beginning of		21.	send it in to let the boiler board know that if	
22.	MR. MUMMERT: We usually do it		22.	there's any new personnel, we would train them	
23.	about when they first come in, it's usually		23.	once they got their normal job done, too, before	
24.	around 6:00 in the morning. We go through the		24.	we put them on that. Just like my new guy. I'm	
25.	we've got a daily check-off sheet that we use. We		25.	not going to train him until he's comfortable with	
	8			88	
1					
		Page 50			Page 52
1.	inspect everything.	Page 50	1.	his functioning. And then once we start letting	Page 52
1. 2.	inspect everything. MR. HARGROVE: Describe the "we."	Page 50	1. 2.	his functioning. And then once we start letting him go through hands-on, by himself with the	Page 52
I		Page 50	l	him go through hands-on, by himself with the	Page 52
2.	MR. HARGROVE: Describe the "we." MR. MUMMERT: "We" as in the	Page 50	2.		Page 52
2. 3.	MR. HARGROVE: Describe the "we."	Page 50	2. 3.	him go through hands-on, by himself with the boilers with the testing and inspections, then	Page 52
2. 3. 4.	MR. HARGROVE: Describe the "we." MR. MUMMERT: "We" as in the maintenance people. I've got a senior maintenance technician two senior maintenance technicians	Page 50	2. 3. 4.	him go through hands-on, by himself with the boilers with the testing and inspections, then we'll do the training. CHAIRMAN MORELOCK: I've got	Page 52
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	Page 53	1	Page 55
1.	your facility, and so when we look at your	1.	put back into operation. And the old rule was
2.	organizational chart in Appendix D, you know, we	2.	800-3-3.422, but with our 2016 revision of the
3.	need to see we need to make sure what we see in	3.	manual, the 20-minute rule now falls under
4.	the organizational chart and the verbiage in the	4.	0800-03-0308(11). So that's the new 20-minute
5.	manual, it all connects the dots. Because I was	5.	rule. It's the same verbiage. It just was
6.	kind of getting lost, because I didn't know. So	6.	reorganized.
7.	if you're the maintenance manager/engineering	7.	MR. MUMMERT: Okay.
8.	department/Justice of the Peace and all of that,	8.	CHAIRMAN MORELOCK: And, again, if
9.	we just need to show that so that the board	9.	there's any issue with the boiler that you can't
10.	members know what your responsibilities are and we	10.	use the variance, you'll go back to the 20-minute
11.	don't get lost in who's maintaining the program.	11.	rule. And you may want to include that verbiage
12.	MR. MUMMERT: Okay.	12.	on page 6 and 7.
13.	CHAIRMAN MORELOCK: And then as far	13.	In Appendix F, again, Boiler Operator
14.	as a remote monitor, you know, it states that the	14.	Duties, all these duties are operating the boiler,
15.	emergency department nurses station is on page 2.	15.	but these are maintenance people. They have other
16.	Then on page 4 it doesn't list it says	16.	duties, and we need to know what those other
17.	emergency department on page 4, and then	17.	duties are, again, because we want to make sure
18.	Appendix E, which we just looked at, it doesn't	18.	that just their day-in/day-out work life isn't
19.	list who the remote monitors are. So if it's the	19.	going to take them away from maintaining the
20.	respiratory therapists, they need to be in there.	20.	boiler and keeping it safe.
21.	If it's the nurses, they need to be in there. If	21.	The checklist does request that you
22.	it's a doctor, it needs to be in there. And it	22.	send a cover letter to the boiler unit and the
23.	also needs to be shown on the organizational chart	23.	chief inspector for the State of Tennessee. And I
24.	so that we have a clear picture of who the remote	24.	know you allude to requesting a variance on
25.	monitors are so we can follow that. And that's	25.	page 1, but there's really not a formal request
	Page 54		Page 56
1.	going to be also important when you have a site	1.	for a variance. You're just stating the benefits
1. 2.	going to be also important when you have a site visit so that when they take this manual and say,	2.	for a variance. You're just stating the benefits of having a variance.
1	going to be also important when you have a site visit so that when they take this manual and say, "Well, where are these people and what are their	1	for a variance. You're just stating the benefits of having a variance. MR. MUMMERT: I included that when
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	Page 57			Page 5
1.	put that in your manual that it's password	1.	performed. And when they perform that test,	
2.	protected and we'll be fine. Okay?	2.	they're looking to see if a light comes on.	
3.	MR. MUMMERT: Okay.	3.	What's the test? How is that performed?	
4.	CHAIRMAN MORELOCK: Do you have a	4.	MR. MUMMERT: When we do a	
5.	log of the manual holders? I know they're in the	5.	blow-down, we can actually drop the water level	
5.	ER and the boiler room.	6.	and they'll shut it down on low water. And when	
7.	MR. MUMMERT: That's the only two	7.	it does kill the boiler, we want to verify that it	
8.	places.	8.	sounded the alarm, for one, and that the boiler is	
9.	CHAIRMAN MORELOCK: Just put you a	9.	actually dead. We cannot start flip the switch	
0.	little two-line log in there that you are tracking	10.	again. So that's what we're actually testing, to	
1.	where those manuals are, you're controlling those	11.	make sure the safeties are doing what they're	
2.	documents.	12.	supposed to.	
3.	And the boiler checks that you state	13.	MR. BAUGHMAN: So when I look at	
4.	under Boiler Operator Duties and Remote Attendant	14.	this remote boiler control station that's at the	
5.	Duties, and then the verbiage of your manual, make	15.	very end of the manual and I can see Boiler	
6.	sure that what you're checking, that's stated in	16.	number 2, on the right, fairly well, I'm seeing a	
7.	words, also appears on your boiler log as well so	17.	buzzer silencer, alarm silencer. And then I'm	
8.	that the verbiage and the boiler log correspond to	18.	seeing the switch down below on or off. And so	
9.	each other. As far as low water and all that kind	19.	MR. MUMMERT: You've got on the	
0.	of stuff, make sure you've got all that tied	20.	right-hand side is Boiler Number 2. All those are	
1.	together.	21.	for Boiler Number 2. On the left-hand side,	
2.	MR. MUMMERT: Okay.	22.	everything else is for Boiler Number 1.	
3.	CHAIRMAN MORELOCK: And lastly, you	23.	MR. BAUGHMAN: Yes, sir. My	
4.	do have the words in your emergency procedure	24.	question being, is that you made mention before	
5.	highlighted, but if this manual was laying I	25.	that when the alarm sounds, that if you hit the	
	Page 58			Page
1.	know you've got a placard on it, too. But it's	1.	silencer button, that also kills the boiler.	
2.	always good to either have a tab or a colored page	2.	MR. MUMMERT: Yes.	
3.	or something so if somebody picks this manual up,	3.	MR. BAUGHMAN: And then we've also	
4.	they can immediately know where the emergency	4.	got a switch underneath of it that's on/off.	
5.	procedures are.	5.	MR. MUMMERT: Yes. They can kill	
6.	MR. MUMMERT: I put tabs on it but	6.	that, too.	
7.	they fell off before I sent it, so I just	7.	CHAIRMAN MORELOCK: Okay. My	
8.	highlighted them.	8.	question, I guess, is getting back to, still, if	
9.	CHAIRMAN MORELOCK: Okay.	9.	that silencing button is just for the alarm buzzer	
0.	MR. MUMMERT: But the one at my	10.	itself and whether that actually kills the boiler,	
1.	office has got tabs on it.	11.	I just want to be very firm on that.	
2.	CHAIRMAN MORELOCK: If you could	12.	MR. MUMMERT: Right. I understand	
3.	print it out on a bright yellow page or something	13.	what you're saying. No. When you hit that	
4.	like that.	14.	buzzer, it will silence the alarm, but it will	
5.	MR. MUMMERT: Okay.	15.	also shut the boiler down.	
6.	CHAIRMAN MORELOCK: Okay. All	16.	MR. BAUGHMAN: Okay. And then	
7.	right. So that's the comments that I have.	17.	redundant-wise, we've got another switch that has	
,. 8.	Are there any others?	18.	to be put in the off position.	
9.	MR. BAUGHMAN: Yes, sir.	19.	MR. MUMMERT: That's just a backup	
0.	CHAIRMAN MORELOCK: Yes?	20.	to the backup.	
0. 1.	MR. BAUGHMAN: From a technical	21.	MR. BAUGHMAN: Okay. On the left	
2.	standpoint, Derrick, you had made mention that	22.	it says I can see it says "Do not turn off."	
2. 3.	during the week they go through a test where I	23.	MR. MUMMERT: Right. Because if	
3. 4.	think you mentioned that somebody would let the	24.	they kill that, it's going to shut the boiler off	
.4. .5.	remote station know that a test was being	25.	that's running.	
J.	remote station know that a test was beilig	23.	uat s tulling.	
		1		

		Page 61			Page 63
1.	MR. BAUGHMAN: Okay. But what does	ruge or	1.	MR. MUMMERT: Yes.	1 450 03
2.	it say up above that? "Silence"		2.	MR. BAUGHMAN: Okay.	
3.	MR. MUMMERT: "Buzzer silencer."		3.	MR. MUMMERT: Uh-huh. It's all	
4.	Oh, you mean on that tag?		4.	electronic in there.	
5.	MR. BAUGHMAN: Yes, sir.		5.	MR. BAUGHMAN: Okay. We had an	
6.	MR. MUMMERT: "Silence only."		6.	incident some time back, and if I'm not mistaken,	
7.	MR. BAUGHMAN: Silence only?		7.	the remote shut-down switch is to turn the gas	
8.	MR. MUMMERT: Yeah. Uh-huh.		8.	itself off. There's some questions about where	
9.	MR. BAUGHMAN: Okay. So if it's		9.	the e-stops tie into and what have you, but we had	
10.	doing silence only, I guess that's kind of where		10.	an instant where the control circuit had shorted	
11.	my question was leading.		11.	out. And because the emergency stop was tied into	
12.	MR. MUMMERT: It's confusing.		12.	the control circuit, the boiler would not shut	
13.	Yeah, I see what you're saying.		13.	off. It continued to run. So that's why I ask,	
14.	MR. BAUGHMAN: Yes, sir.	1	14.	also, where the tie-in was for this.	
15.	MR. MUMMERT: Yeah, that needs to	1	15.	MR. MUMMERT: I can double check on	
16.	come off or clarified on that.		16.	that, just to make sure.	
17.	MR. BAUGHMAN: Okay. Well, I would		17.	CHAIRMAN MORELOCK: Any other	
18.	like the inspector, at that particular time, to	1	18.	questions or comments?	
19.	make note. And I'm sure that they will as they go		19.	MR. BAUGHMAN: On the maintenance	
20.	through the functionality of that particular		20.	on-call list that you have under the four-hour	
21.	system.		21.	boiler checks	
22.	MR. MUMMERT: Right.		22.	MR. MUMMERT: Yes, sir.	
23.	MR. BAUGHMAN: Was this system		23.	MR. BAUGHMAN: the number for	
24.	built on site?		24.	Jackie Newell needs to have the area code with	
25.	MR. MUMMERT: Yes.		25.	that also.	
		Page 62			Page 64
1.	MR. BAUGHMAN: Okay. So it's not		1	MD MINMEDT OL I (1)	
			1.	MR. MUMMERT: Okay. I assume that	
2.	necessarily UL listed.		1. 2.	would be for all employees, right?	
2. 3.				•	
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3.	necessarily UL listed. MR. MUMMERT: This remote buzzer,		2. 3.	would be for all employees, right? MR. BAUGHMAN: I would, yes.)
3. 4.	necessarily UL listed. MR. MUMMERT: This remote buzzer, here, no.		2. 3. 4.	would be for all employees, right? MR. BAUGHMAN: I would, yes. CHAIRMAN MORELOCK: Anything else?	
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1. 2.	Page 6	5	Page 6
2.	honest with you, I don't. I'd never seen a boiler	1.	renewal?
	until I got that job, and the only reason I got	2.	MR. MUMMERT: I copied this book
3.	that job is because a guy quit.	3.	page for page well, not page for page, but I
4.	MR. BAUGHMAN: And I appreciate	4.	used the old one.
5.	your candid honesty with that, Derrick. And	5.	CHAIRMAN MORELOCK: Let me go back
6.	especially where you are in charge of training,	6.	and look. No. Well, I mean, the item on the
7.	also, it puts you in a very difficult position.	7.	agenda is for a new variance, and let me go back
8.	MR. MUMMERT: Right.	8.	and see in the checklist.
9.	MR. BAUGHMAN: And I appreciate	9.	MR. CHAPMAN: They had new boilers.
10.	that very much, because that's what we're here	10.	CHAIRMAN MORELOCK: The checklist
11.	for, is, ultimately, safety.	11.	is marked as a new variance.
12.	MR. MUMMERT: Right. Exactly.	12.	MR. MUMMERT: Well, that's because
13.	CHAIRMAN MORELOCK: Okay. So with	13.	I well, like I said, I'm ignorant when it comes
14.	that, your variance approval has not been passed.	14.	to this. This is all new to me. This is the
15.	You can take all the comments from the board and	15.	first time I've done this.
16.	go back and revise your manual, clarify your	16.	CHAIRMAN MORELOCK: Okay.
17.	boiler operating system, and you're welcome to	17.	MR. MUMMERT: And I put "new"
18.	come back and try again.	18.	because it's new boilers.
10. 19.	MR. MUMMERT: So what happens? I	19.	MS. BENNETT: That's right.
20.	mean	20.	CHAIRMAN MORELOCK: Okay.
21.	CHAIRMAN MORELOCK: You're still on	21.	MR. MUMMERT: Is that correct?
22.	the 20-minute rule right now.	22.	CHAIRMAN MORELOCK: Well, adding
22. 23.	MR. MUMMERT: Pardon me?	23.	that new boiler, it is a new variance, yes.
		24.	MR. MUMMERT: Okay.
24. 25.	CHAIRMAN MORELOCK: You're going to	25.	MR. TOTH: I believe that in the
23.	have to operate your boilers on the 20-minute rule	23.	WR. 10111. I believe that in the
	Page 6	6	Page (
1.	until this is approved.	1.	past it's just it's a revision to an existing
2.	MR. MUMMERT: And who is the who	2.	variance. The reason why he had to come before
∠.			
3.	can do that?	3.	· ·
3.			the board was because he had new equipment. CHAIRMAN MORELOCK: That's correct.
3. 4.	CHAIRMAN MORELOCK: You're going to	4.	the board was because he had new equipment. CHAIRMAN MORELOCK: That's correct.
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1.	Page 6	59	Page
_	from when I took this on, I found out you're	1.	CHAIRMAN MORELOCK: Yes.
2.	supposed to be doing them every three years. That	2.	MS. BENNETT: It will be a couple
3.	was way past expired.	3.	of weeks, but before the next meeting, that might
١.	CHAIRMAN MORELOCK: Okay.	4.	help you in revising your manual.
í.	MR. MUMMERT: That was another	5.	MR. MUMMERT: That will be great.
5.	reason I went with the new.	6.	I appreciate it. I appreciate all the help I can
7.	CHAIRMAN MORELOCK: Okay. And if	7.	get.
8.	your variance has been it's not updated in a	8.	CHAIRMAN MORELOCK: Okay. Thank
9.	long time, they usually come back as a new one.	9.	you.
0.	MR. MUMMERT: Okay. Well, then,	10.	Okay. I've got 10:14. Let's take
1.	that would have been correct. I just need to	11.	about ten minutes for a break. I'm sure everybody
2.	clean that up and	12.	would like to have a short break. And let's
3.	CHAIRMAN MORELOCK: Okay. So you	13.	reconvene at 10:25, and we'll go to our next item.
4.	need to work with Sam on your existing variance.	14.	(Recess observed.)
5.	As far as adding this new boiler, you've got some	15.	CHAIRMAN MORELOCK: Okay. We are
6.	work to do	16.	down to Item 17-05, Domtar Paper Company. And
7.	MR. HARGROVE: Two boilers.	17.	they're requesting a variance for extension of
8.	CHAIRMAN MORELOCK: and come	18.	boiler internal inspection to 24 months at their
o. 9.	back to the board with this proposed new variance,	19.	facility in Kingsport, Tennessee.
). 0.	or you can make it a modified, where you're going	20.	So gentlemen, introduce yourselves
1.	to modify your existing variance. But what we	21.	and present your item.
2.		22.	MR. SNEED: Brandon Sneed. So this
	looked at today, we have not passed.		
3.	MR. CHAPMAN: This variance is no	23.	request is to extend the already approved 18-month
4.	longer good because he's got new boilers	24.	extension that we came and received last year to a
5.	altogether. There's no boiler	25.	24-month extension.
	Page 7	70	Page
1.	CHAIRMAN MORELOCK: Oh, so both	1.	CHAIRMAN MORELOCK: That's correct.
2.	boilers in this manual were not part of the	2.	That's the way it's presented to us, anyway.
3.	original variance.	3.	MR. SNEED: Yes. That is a correct
4.	MR. CHAPMAN: No.	4.	understanding. Essentially, the manual that we
5.	MR. MUMMERT: That's correct.	5.	presented to you is essentially the same manual
6.	CHAIRMAN MORELOCK: Okay. So this	6.	that was given to you last year with some minor
	· · · · · · · · · · · · · · · · · · ·	7.	adjustments, as far as training, a little bit of
	would be a new variance, then. So this will be a		
7.	would be a new variance, then. So this will be a	1 8	•
7. 8.	new variance. So until you get this approved,	8.	technical data that's been changed. No physical
7. 8. 9.	new variance. So until you get this approved, you're on the 20-minute rule.	9.	technical data that's been changed. No physical changes to the unit. No difference in training
7. 8. 9.	new variance. So until you get this approved, you're on the 20-minute rule. MR. MUMMERT: Okay. I will pass it	9. 10.	technical data that's been changed. No physical changes to the unit. No difference in training with the operators. So, essentially, it is the
7. 8. 9. 0.	new variance. So until you get this approved, you're on the 20-minute rule. MR. MUMMERT: Okay. I will pass it along. That's all I can do. I appreciate	9. 10. 11.	technical data that's been changed. No physical changes to the unit. No difference in training with the operators. So, essentially, it is the same manual that we presented to you last time and
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reports. That was a before picture that was shown, and we stated that that punch list item had		Inspections. And this is 2.208, which was the
shown, and we stated that that punch list item had	10.	projected two thickness values that we projected
-	111.	out to 2018.
been completed in that work. This	12.	MR. SNEED: And that calculation
CHAIRMAN MORELOCK: Can I interrupt	13.	was made using a worse-case scenario of the lowest
you for just one second?	14.	reading that we'd actually gotten since 2002, when
MR. NEVILLE: Yes.	15.	the boiler was put into commission.
CHAIRMAN MORELOCK: Are there any	16.	CHAIRMAN MORELOCK: Okay. So for
•		the board members' benefit, the only changes to
	l	•
	1	the manual since approval in September of 2016 is
	l	what you have summarized on 10.1R, Renewal
	l	Revisions, for this meeting today, correct?
•	l	MR. NEVILLE: Yes. Probably the
•	l	most significant one was the FM Global Report,
* * * *	1	January of 2017. And that was included under
	l	Section 2.
PSA inspection was the Number 3, and that was a	25.	MR. SNEED: And one other thing,
Page 74		Page 76
letter from them. The smelt bed inspection date,	1.	Mr. Chairman, that we don't have a record of,
there was a typo on that report. It should have	2.	because there's no report that's recorded and sent
been 2019 for that updated report. And the final	3.	to the owner, is that Sam Miller, who is an
item was Number 4, which was the updated training.	4.	authorized inspector, did an external
And it was the monthly reports didn't quite	5.	jurisdictional inspection in February of this year
give the breadth of training, the program that's	6.	and provided that report to the State with no
on here.	7.	finding from that report.
	8.	CHAIRMAN MORELOCK: So if you look
	9.	on 12R, your FM global report dated February 24,
	10.	2017, they are basically agreeing that the next
	11.	proposed outage would be April 2018, for a total
	l	of up to 24 months of operation without a full
	1	maintenance outage.
	l	They go on to say that they
	l	participated in the jurisdictional inspection on
	l	March 2016 and noted no known issues at that time
	l	that would preclude FM Global from supporting the
	1	extension request.
* *	ı	And then, basically, your revisions
	l	page, I just I went through all of those and
	l	made sure I could find the revisions based on
	l	that.
	1	Okay. So do I have a motion for
· · · · · · · · · · · · · · · · · · ·	1	approval of Domtar's request for an extension to
	1	24 months without an internal inspection before
as they want to in the future. But just to be	\\ \(\(\sigma \).	24 montus without an internal inspection before
	letter from them. The smelt bed inspection date, there was a typo on that report. It should have been 2019 for that updated report. And the final item was Number 4, which was the updated training. And it was the monthly reports didn't quite give the breadth of training, the program that's on here. Now, we also so that was in this addendum, but there was some supplemental data. Everyone should have this in front of them now. And that has some information we can go into as far as the two thicknesses. But, also, there's some training information. And this is the very latest training logs, as well as the SOP training logs, which is a sample that's for all of the employees. And that's a the last two pages of this supplemental gives the training exposure on the employees for that. MR. SNEED: And just to explain, the regression charts that are in the smaller binder, those are projected five years into the future using PSA's trademark software that they have. And that can take our data that they've gathered for us since 2008 and project that as far as they want to in the future. But just to be	(No verbal response.) CHAIRMAN MORELOCK: Hearing none, proceed on. MR. NEVILLE: Thank you. And then Item 2 was a the relief valve test reports needed to be updated and properly filled out. Those were shown in Addendum 1 as well. Then the PSA inspection was the Number 3, and that was a Page 74 Ietter from them. The smelt bed inspection date, there was a typo on that report. It should have been 2019 for that updated report. And the final item was Number 4, which was the updated training. And it was the monthly reports didn't quite give the breadth of training, the program that's on here. Now, we also so that was in this addendum, but there was some supplemental data. Everyone should have this in front of them now. And that has some information we can go into as far as the two thicknesses. But, also, there's some training information. And this is the very latest training logs, as well as the SOP training logs, which is a sample that's for all of the employees. And that's a the last two pages of this supplemental gives the training exposure on the employees for that. MR. SNEED: And just to explain, the regression charts that are in the smaller binder, those are projected five years into the future using PSA's trademark software that they have. And that can take our data that they've gathered for us since 2008 and project that as far

		Page 77			Page 79
1.	the next internal inspection, contingent on	ruge //	1.	judgment criterion. More than anything, it would	I uge //
2.	Tennessee Board comments made today and a		2.	fall back to API580, 581. The risk-based	
3.	successful site visit from the Boiler Unit and the		3.	inspection would say what is the damage mechanism	
4.	chief inspector of the State of Tennessee?		4.	Maybe one or two mils per year. I've got 80 mils	
5.	MR. BAUGHMAN: Motion made.		5.	of corrosion allowance. Gee, that scheme would	
6.	MR. PISCHKE: Second.		6.	tell me I only need to do this every 20 or	
7.	CHAIRMAN MORELOCK: All right. So		7.	30 years. I'll probably do it a lot more often	
8.	what questions or comments do you have based on		8.	than that just because I can, but it's awfully	
9.	this information?		9.	painful to do it because I've got to remove this	
10.	MR. HARGROVE: I have three		10.	glassy material from the floor. So these are the	
11.	questions. On page 11.11, in the initial binder,		11.	two balancing things.	
12.	the last Number 6, the Conclusion and		12.	So every four or five years would be	
13.	Recommendation, stated that consideration should		13.	a good industry practice for boiler floor checking	
14.	be given to removing the smelt bed and the center		14.	where there are materials that take extra effort	
15.	crotch refractory by or doing inspection by the		15.	to remove, and, also, where the risk of removing	
16.	2019 outage. What criteria are you or would you		16.	brings a little bit of danger to the tubes. Some	
17.	use in making that removal before then? Or are		17.	mills use guys with pneumatic drills. Some guys	
18.	there criteria that you're using to make that		18.	try hydroblasting. It's hard to remove the stuff.	
19.	removal?		19.	And you can do harm by doing it, so you tend to	
20.	MR. BENNETT: This is a big box		20.	hold back for that reason and also not gallop into	
21.	with a floor and a slight slope. And after the		21.	it because you know the damage mechanism is	
22.	unit is taken out of service for inspection, there		22.	nonexistent. So it's really super conservative to	
23.	may be a residue of smelt, what was molten salt,		23.	even accept that recommendation.	
24.	and now it's solidified on the floor. And there's		24.	MR. HARGROVE: Just a general	
25.	a question of how many of these floor tubes, of		25.	question. Certainly there is risk factor from the	
		Page 78			Page 80
1.	which there are roughly a hundred and something,	U	1.	18 to 24 months. How would you describe the	
2.	should we inspect. And the question, something		2.	difference or the risk from going from 18 to	
3.	goes to the owner's concern about is there a		3.	24 months, and how do you justify that?	
4.	mechanism for the floor tubes to be affected in		4.	MR. SNEED: Well, first to say from	
5.	any way by operating conditions.		5.	2002 up until 2014 we did a yearly internal	
6.	This boiler has now operated for		6.	inspection before we received a variance for	
7.	16 years, and nowhere in the boiler floor or walls		7.	18 months. When we first got our first 18-month	
8.	have we seen any damage mechanism thin the tubes.		8.	extension and went in 18 months after our previous	
9.	So the need to judiciously and cautiously watch		9.	outage, the same punch list items were present as	
10.	the tubes is receding as the longer and longer		10.	were in the year's past. There was no excessive	
11.	period goes, proving that there's nothing		11.	damage, no damage that was not seen in the past,	
12.	happening to the tubes. That's unusual for this		12.	as far as air port openings, where you had to put	
13.	boiler because this boiler, not like many of the		13.	refractory back in. But nothing that would cause	
14.	boilers in other pulp and paper mills, doesn't		14.	concern to us that would prevent us from trying to	
15.	have the smelly stuff, the sulfer in the fuel;		15.	go 18 or 24 months down the road.	
16.	and, therefore, the damage mechanisms or corrosion		116	Our training that we've given our	
	and, therefore, the damage meenanisms of corrosion		16.		
17.	mechanism for the steel tubes is not really in		16. 17.	operators, in my opinion, has only improved over	
17. 18.					
1	mechanism for the steel tubes is not really in		17.	operators, in my opinion, has only improved over	
18.	mechanism for the steel tubes is not really in place. So this criterion for floor examination is		17. 18.	operators, in my opinion, has only improved over the past two years, as far as how we handle the	
18. 19.	mechanism for the steel tubes is not really in place. So this criterion for floor examination is just saying, "Oh, when I get in, I can't see all		17. 18. 19.	operators, in my opinion, has only improved over the past two years, as far as how we handle the training, how we go through the training, how we	
18. 19. 20.	mechanism for the steel tubes is not really in place. So this criterion for floor examination is just saying, "Oh, when I get in, I can't see all the tubes. I can see the wall tubes and I can		17. 18. 19. 20.	operators, in my opinion, has only improved over the past two years, as far as how we handle the training, how we go through the training, how we track the training, and how we ensure that each	
18. 19. 20. 21.	mechanism for the steel tubes is not really in place. So this criterion for floor examination is just saying, "Oh, when I get in, I can't see all the tubes. I can see the wall tubes and I can see but I can't see all the floor tubes along		17. 18. 19. 20. 21.	operators, in my opinion, has only improved over the past two years, as far as how we handle the training, how we go through the training, how we track the training, and how we ensure that each foreman is going through that training with each	
18. 19. 20. 21. 22.	mechanism for the steel tubes is not really in place. So this criterion for floor examination is just saying, "Oh, when I get in, I can't see all the tubes. I can see the wall tubes and I can see but I can't see all the floor tubes along all of their length. Should I check underneath		17. 18. 19. 20. 21. 22.	operators, in my opinion, has only improved over the past two years, as far as how we handle the training, how we go through the training, how we track the training, and how we ensure that each foreman is going through that training with each individual the same.	
18. 19. 20. 21. 22. 23.	mechanism for the steel tubes is not really in place. So this criterion for floor examination is just saying, "Oh, when I get in, I can't see all the tubes. I can see the wall tubes and I can see but I can't see all the floor tubes along all of their length. Should I check underneath that every now and then to see whether there's		17. 18. 19. 20. 21. 22. 23.	operators, in my opinion, has only improved over the past two years, as far as how we handle the training, how we go through the training, how we track the training, and how we ensure that each foreman is going through that training with each individual the same. So, as far as mitigating the risk, we	
18. 19. 20. 21. 22. 23. 24.	mechanism for the steel tubes is not really in place. So this criterion for floor examination is just saying, "Oh, when I get in, I can't see all the tubes. I can see the wall tubes and I can see but I can't see all the floor tubes along all of their length. Should I check underneath that every now and then to see whether there's some reason I should be looking?"		17. 18. 19. 20. 21. 22. 23. 24.	operators, in my opinion, has only improved over the past two years, as far as how we handle the training, how we go through the training, how we track the training, and how we ensure that each foreman is going through that training with each individual the same. So, as far as mitigating the risk, we feel very confident that the risk from going	

		Page 81			Page 83
1.	for us.	1 480 01	1.	MR. SNEED: So the only people who	1 4.50 00
2.	MR. HARGROVE: So from a		2.	can access the control scheme of the unit or of	
3.	statistical measurement, you're saying or		3.	the whole mill itself are the process control	
4.	concluding that the risk is the same.		4.	engineers that work for that specific area. It's	
5.	MR. SNEED: I agree, yes. Yes.		5.	under, essentially, a lock and key to even change	
6.	And based on two thickness projections, which is		6.	the program. And they're the only ones who have	
7.	the main thing that we look at, as far as the NDT		7.	access to those controls. And it's very firewall	
8.	that we do on the inside during an internal		8.	protected. And that's been proven in the past. I	
9.	inspection, and as you can see from the small		9.	know that for a fact.	
10.	black book, even going out five years say if we		10.	MR. HARGROVE: And just for	
11.	went five years without an internal inspection,		11.	clarity, identify the "they" again for me.	
12.	based on previous data, that we can conclude that		12.	MR. SNEED: There's a process	
13.	the tube thickness loss would be minimal and not		13.	control engineer for each area of the mill.	
14.	exceeding the corrosion rates that we've even seen		14.	There's one specifically for the utilities	
15.	that are minimum themselves.		15.	department which would be responsible for the	
16.	CHAIRMAN MORELOCK: So the PSA		16.	recovery boiler. There's one for the fiber line	
17.	report, to do that projection, how many years of		17.	and there's one for the paper machine.	
18.	actual data, thickness data, was used to develop		18.	MR. BENNETT: And they're not on	
19.	that projection? Was it since the last inspection		19.	the web. They're not web linked.	
20.	or did it go beyond that?		20.	MR. HARGROVE: All right. Thank	
21.	MR. SNEED: It went back all the		21.	you.	
22.	way to 2008.		22.	MR. BAUGHMAN: Gentlemen, the whole	2
23.	MS. BENNETT: They started doing		23.	issue here is that if we make a bad determination,	
24.	their type of inspection in '08.		24.	this boiler has got more volatility to it than	
25.	CHAIRMAN MORELOCK: Okay.		25.	your typical fire tube/water tube kind of	
		Page 82			Page 84
1.	MR. SNEED: Yes.	U	1.	installation. So if we have a failure, we're all	U
2.	MR. BENNETT: And that's the data		2.	going to be accountable in some form or fashion,	
3.	they used for that projection.		3.	not only with the variance but with the results of	
4.	MR. HARGROVE: I've looked at a		4.	what happens. And we know that we're talking	
5.	couple of research papers on predicting that		5.	about this from a maintenance longevity	
6.	thickness. It will be really interesting to see,		6.	standpoint. We're approaching that. But when it	
7.	between 2008 and, you know, over that period, how		7.	gets down to it, it's really economics, is what's	
8.	your model is accurate in terms of making that		8.	generating this forwards. And so I don't want	
9.	judgment. I still want to make sure that we're		9.	that to ever blind us to the fact of why we're	
10.	documenting your statement that the risk involved		10.	here. And that's safety.	
11.	to going 24 months is the same as it is at 18.		11.	MR. SNEED: Hundred percent.	
12.	I'm not sure I'm convinced of that. But I want to		12.	MR. BAUGHMAN: Okay. With that	
13.	make sure that that's the statement that you're		13.	said and done, during the 2014 outage on page 2.27	
14.	making.		14.	where the cracks were propagating towards the	
15.	MR. SNEED: Based on UG thickness		15.	generating tubes, those were to be drill-stopped.	
16.	readings that we have, I would say yes.		16.	We talked about that during previous but those	
17.	MR. HARGROVE: Okay. One last		17.	cracks came about during that period of	
18.	question. For the realtime on-line monitoring		18.	operational time. My concern with it is, is that	
19.	system that you have described as "Park view"		19.	if we go and extend out 24 months, that that might	
20.	is that correct?		20.	be something that gets past us. Of course it gets	
21.	MR. SNEED: That's correct, yes.		21.	into the point, then, of if you've got a leak, the	
22.	MR. HARGROVE: what		22.	variance ends at that particular point in time and	
23.	specifically any cyber security methods that		23.	you get back to a status quo.	
24.	you deploy within the control system to avoid or		24.	But my concern with it is, is that	
	minimize vulnerability?		25.	24 months is an extremely long period of time.	
25.	imminize valuerability:				

Subbe thickness is one thing. And in the report, here's been addressing of Tube Number 72 minning, gouge marks, different types of entities hat have come about, and some of that is because if the removal of the smelt bed and so forth. But my concern with it is, is that we might have an issue that's not even tube thickness related but it's crack related, i.e., on page 2.27, that could cossibly affect, go across and propagate across he weld itself, and affect the tube. What's your moughts on that? MR. BENNETT: We have consciously aften note of every possible damage mechanism, including fatigue cracks, thermal fatigue cracks is described here. And the first thing about attigue, anyway, is that it's unpredictable. We could inspect every day and give it a clean bill if health and still have a fatigue crack the next ay. So that's an important understanding. But note that it is the point of these inspections when they do	Page 85	1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15.	around. We hit a button. The boiler is turned off, drained, and emergency procedures are very well documented and trained. So there's no in my judgment, there's no possibility that something like this anywhere in the boiler, even down in the lower furnace, could produce an incident that we would care to read about any day in the news. It wouldn't be that exciting. It would just be a leak. And that's happened on many boilers. We actually maintain we tell the rule that if you're looking for cracks and it's fatigue on a tube, then grind it out and remove it. If you've got to go too thin to do that, fix the tube after	Page 87
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ould inspect every day and give it a clean bill f health and still have a fatigue crack the next ay. So that's an important understanding. But		16	you've ground it out. But we just don't accept	
f health and still have a fatigue crack the next ay. So that's an important understanding. But		ı	them and we are very conscious of that risk. And	
ay. So that's an important understanding. But		17.	there isn't any increased risk here from running	
-		18.	the boiler six more months, because it's nice and	
not's the point of these inspections when they do		19.	smooth. There's not any big cycling. The more	
		20.	times we take it down and start it up, the more	
ake place. And another six months of operation,		21.	times we increase the chances of those fatigue	
			**	
re very common and are very ordinary and almost		25.	MR. BENNETT: I don't know if these	
	Page 86			Page 88
ever I've never, in my 42 years, seen one go		1.	have.	C
cross a weld and into a tube, because the stress		2.	MR. NEVILLE: Yes, they have.	
atterns in the tube is totally different from the		3.	MR. BENNETT: That's kind of an old	
tress pattern producing the crack in the fill		4.	wives' tale. It's something we do because it	
ar, which is just a steel piece of metal welded		5.	looks like we're doing the right thing. But a lot	
n so that the air doesn't go anywhere.		6.	of times you can do drill stops and still see the	
So we're very conscious of that.		7.	crack continue because it's thermal fatique, and	
When we do go in and do inspections internally,		8.	it doesn't behave as well as you'd like it to.	
ll of the intention is visually for any crack		9.	MR. NEVILLE: In Addendum 1, that	
ndications. None of that would show up at all,		10.	was the line item 1 where we documented that that	
bviously, with thickness testing. So it's a high		11.	punch list item has been completed, and so that	
riority for the mill. If just, for example,		12.	had been corrected.	
_		13.	MR. BAUGHMAN: Martin, did you have	
ne tube, all that would have happened is there		14.	comment?	
		15.	MR. TOTH: Yeah. I was just	
		16.	curious. What's the pressure of this boiler that	
		17.	we're referring to?	
So you can't blow up a boiler from a		18.	MR. BENNETT: 1250.	
		19.	MR. TOTH: 1250PSI?	
		20.	MR. SNEED: Correct.	
		21.	MR. TOTH: If I may add, to say	
		22.	that a leaking water tube in a boiler of this	
		23.	nature would not be dangerous, I would refer you	
		24.	back to the boiler explosion of November of 2007	
ower furnace explosion means that we don't mess		25.	at the Massachusetts power plant where they had	
	When we do go in and do inspections internally, all of the intention is visually for any crack andications. None of that would show up at all, abviously, with thickness testing. So it's a high priority for the mill. If just, for example, and this particular crack had somehow made it into the tube, all that would have happened is there would have been a leak, and the leak would have been detected, and the boiler would have been bromptly shut down. That's the standard protocol. So you can't blow up a boiler from a little crack like this or a little leak like this. You have to have quite a big in-rush of water into the bottom of the furnace to produce anything exciting. Other than that, it's just like any ower boiler with a leak, and you manage it exactly like that, except for that risk on that ower furnace explosion means that we don't mess	Page 86 ever I've never, in my 42 years, seen one go cross a weld and into a tube, because the stress atterns in the tube is totally different from the tress pattern producing the crack in the fill ar, which is just a steel piece of metal welded in so that the air doesn't go anywhere. So we're very conscious of that. When we do go in and do inspections internally, ll of the intention is visually for any crack indications. None of that would show up at all, biviously, with thickness testing. So it's a high priority for the mill. If just, for example, if this particular crack had somehow made it into the tube, all that would have happened is there would have been a leak, and the leak would have been detected, and the boiler would have been a leak, and the leak would have been detected, and the boiler would have been a leak like this. Too have to have quite a big in-rush of water into the bottom of the furnace to produce anything xciting. Other than that, it's just like any ower boiler with a leak, and you manage it xactly like that, except for that risk on that	racks in fill plates and membrane bars and things re very common and are very ordinary and almost Page 86 ever I've never, in my 42 years, seen one go cross a weld and into a tube, because the stress atterns in the tube is totally different from the tress pattern producing the crack in the fill ar, which is just a steel piece of metal welded n so that the air doesn't go anywhere. So we're very conscious of that. When we do go in and do inspections internally, ll of the intention is visually for any crack ndications. None of that would show up at all, bviously, with thickness testing. So it's a high riority for the mill. If just, for example, f this particular crack had somehow made it into ne tube, all that would have happened is there vould have been a leak, and the leak would have een detected, and the boiler would have been romptly shut down. That's the standard protocol. So you can't blow up a boiler from a title crack like this or a little leak like this. fou have to have quite a big in-rush of water into ne bottom of the furnace to produce anything xciting. Other than that, it's just like any ower boiler with a leak, and you manage it xactly like that, except for that risk on that ower furnace explosion means that we don't mess	revery common and are very ordinary and almost Page 86 ever I've never, in my 42 years, seen one go cross a weld and into a tube, because the stress atterns in the tube is totally different from the tress pattern producing the crack in the fill ar, which is just a steel piece of metal welded in so that the air doesn't go anywhere. So we're very conscious of that. Yhen we do go in and do inspections internally, lll of the intention is visually for any crack adications. None of that would show up at all, biviously, with thickness testing. So it's a high riority for the mill. If just, for example, fi this particular crack had somehow made it into ne tube, all that would have been romptly shut down. That's the standard protocol. So you can't blow up a boiler from a title crack like this or a little leak like this. You have to have quite a big in-rush of water into ne bottom of the furnace to produce anything ower boiler with a leak, and you manage it xactly like that, except for that risk on that ower furnace explosion means that we don't mess Page 86 1. have. 2. MR. NEVILLE: Yes, they have. 3. MR. BENNETT: That's kind of an old wives' tale. It's something we do because it of times you can do drill stops and still see the crack continue because it's thermal fatique, and it doesn't behave as well as you'd like it to. 9. MR. NEVILLE: In Addendum I, that was the line item I where we documented that that 11. 10. MR. BAUGHMAN: Martin, did you have to mement? 11. have. 12. MR. NEVILLE: Yes, they have. 13. MR. BENNETT: 1 don't know if these

Page 89 the same type of situation occur that caused three satalities. So I would be really concerned with saying that it's not dangerous. That particular poiler was at 1600PSI, which is a little higher than 1250, but just as dangerous. MR. BENNETT: Well, we don't dispute that. Even 800 pounds is enough to cause a lot of damage MR. TOTH: Even 150 is enough. MR. BENNETT: but depending on now it's released. So that's the point. These boilers are designed with this particular emergency shut-down procedure as a ndustry-based response to this concern. I will	1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11.	trying to clarify in my own mind, Brian, is if there's a leak, not necessarily at the time of that six-month inspection, but if they've had to tend to a leak during the period of operation, does that affect the variance? CHAIRMAN MORELOCK: Well, you know, by the law, if you're going to take the law, if they have a leak in between that, then when the six-month external inspection comes up, they're going to find the leak, right, unless they've shut
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now it's released. So that's the point. These boilers are designed with this particular emergency shut-down procedure as a	1	
These boilers are designed with this particular emergency shut-down procedure as a	12.	the boiler down?
particular emergency shut-down procedure as a		MR. BAUGHMAN: Right. So if they
	13.	have to shut
	14.	CHAIRMAN MORELOCK: Now, they can
repeat. This is a solar boiler. It doesn't even	15.	shut their boiler down any time they want to.
probably have that recovery boiler explosion	16.	Just because it's a 24-month internal, they can do
·	1	an internal annually if you want to. It's just
	18.	you can't exceed 24 months. So if they find the
• •	19.	leak themselves and shut the boiler down, do an
	20.	internal, fix it, that would not damage their
	21.	variance.
	22.	MR. BAUGHMAN: Okay. And that's
	1	what I was wanting to get set in my mind.
	1	CHAIRMAN MORELOCK: Because that
lescription of all the little leaks that happened,	25.	doesn't show negligence. That shows they're doing
Page 00	_	Page 92
-	1.	their job.
	1	MR. BAUGHMAN: When was the
	1	dissolving tank incident? What year?
	1	MR. SNEED: I don't know the year
	1	right off the top of my head. I know it was
*		something we discussed the last time we were here.
•	1	Well before my time.
•	1	MR. BAUGHMAN: Well, that still
	1	kind of sticks in my mind. We asked the question
•	1	during the initial as this was coming up, we
•	1	asked if there had been any incidences, and they
· · · · · · · · · · · · · · · · · · ·		said no. And after we did some further homework,
	1	we found that there had been an incident. And
	14.	that just kind of sticks with me, as far as
	1	because there had been an incident. There's still
	1	the evidence of that particular episode that's
	1	inside the boiler, although it's not causing any
	1	operational problems of what mechanism is in place
•	19.	that could prevent that or if it could have been
	1	prevented prior, back and I know that's a
	21.	difficult question because it was prior, so
	22.	that's one of the things, though, that just still
	1	stays in my mind.
	1	MR. BENNETT: Well, when do you
MR. BAUGHMAN: I guess what I'm	25.	think that was? Was that on this new boiler even?
C	1	
	Page 90 In the sulfur, have. So you've got lower risk, inherently, and you've got the added protection of the ESP and the leak detection system. It's all there, so and these kinds of cracks, not from that exact thing that you see there but leaks in these tubes are common, and if you go to one of these conferences every six months, they have a description of all the little leaks that happened, Page 90 Ind everybody was fine. So we are very conscious of this in the industry, of maintaining very eareful control over tiny leaks. MR. BAUGHMAN: Very good. If we have a leak just so that I'm aware of this variance, if we do have a leak and the boiler has to be shut down to be repaired, how does that diffect this variance that we're talking about? CHAIRMAN MORELOCK: Well, if any of the six-month external inspections show a leak, wou shut the boiler down immediately and you lose the variance. MR. BAUGHMAN: If they have a leak before that external inspection, though, or during the period of operational time, how does that diffect it? CHAIRMAN MORELOCK: Well, whatever mechanism you do to find the leak is I mean, that's that's what's in 68-122-110(f), is that, you know, you'll have an external every six months, and if you have any leakage during those inspections, you shut the boiler down and you do a complete internal inspection and the variance is escinded and will have to be reapplied for. MR. BAUGHMAN: I guess what I'm	Page 90 Indeverybody was fine. So we are very conscious of this in the industry, of maintaining very areful control over tiny leaks. MR. BAUGHMAN: Very good. If we have a leak - just so that I'm aware of this variance, if we do have a leak and the boiler has obe shut down to be repaired, how does that offect this variance. MR. BAUGHMAN: If they have a leak obe shut ut the boiler down immediately and you lose the variance. MR. BAUGHMAN: If they have a leak offect tit? CHAIRMAN MORELOCK: Well, whatever mechanism you do to find the leak is I mean, hat's that's what's in 68-122-110(f), is that, you know, you'll have an external every six escinded and will have to be reapplied for.

		Page 93			Page 95
1.	MR. BAUGHMAN: Yes, sir.	Ü	1.	MR. BENNETT: To the spout. That's	C
2.	MR. SNEED: Yes.		2.	not the boiler either.	
3.	MR. BAUGHMAN: Yes, it was.		3.	MR. SANDERS: Well, it was attached	
4.	MR. BENNETT: So the dissolving		4.	to the when it damaged	
5.	tank is obviously just a nonpressurized tank next		5.	MR. BAUGHMAN: But obviously,	
6.	to the boiler into which the smelt comes and mixes		6.	you're not aware of the incident yourself, and it	
7.	with water. So basically the point of the		7.	happened prior to you guys being there, so it's	
8.	dissolving tank is not to dissolve the tank, but		8.	kind of a tough position to put you in to have any	
9.	to dissolve the molten smelt into the water. And		9.	discussion with it. My end of it is, is just	
10.	so when you bring this ribbon of molten think		10.	making sure that any mechanisms have been put in	
11.	of molten glass, because it's red hot salt at 1400		11.	place to try to mitigate any of this going	
12.	degrees Fahrenheit, it comes into the water and		12.	forward. And that was really my concern with it.	
13.	makes a ferocious, boiling noise (indicating), and		13.	MR. SNEED: I understand.	
14.	sometimes the flow of smelt into the tank isn't		14.	MR. PISCHKE: (Indicating.)	
15.	completely, ordinarily flowing because they have a		15.	CHAIRMAN MORELOCK: Yes?	
16.	little pluggage or something like that, and a big		16.	MR. PISCHKE: I wanted to get back	
17.	rush comes and boom, you get a big burst in the		17.	to the crack propagation. I understand that, as a	
18.	dissolving tank.		18.	rule, the cracks on a nonpressure part,	
19.	They're supposed to be constructed to		19.	attachment, would not normally propagate into the	
20.	take that internal hydraulic pulsing, but		20.	weld and into the pressure retaining part. My	
21.	sometimes it overwhelms them if it's just poorly		21.	question is more about the attachments themselves.	
22.	managed. That would not have any risk effect on		22.	And if you have an attachment that fails and the	
23.	the boiler itself. That's a separate component		23.	tubes start moving around in that boiler, would	
24.	that's separated by an air gap probably that big		24.	your system be able to detect this? Because I've	
25.	(indicating) from the boiler itself. So I'm not		25.	seen that as a form of a failure mode, where	
		Page 94			Page 96
1.	aware of cases where the dissolving tank blew up		1.	the tubes are moving and they're rubbing against	-
2.	and had consequential damage on the boiler either.		2.	each other and they can cause leakage. Would your	
3.	But maybe you have		3.	system detect in addition to leaks, would it	
4.	MR. SNEED: So there was a report		4.	detect any kind of noise and rattling in the	
5.	that had to be filed by, at that time, his name		5.	boiler like that?	
6.	was Chuck Hawkins, who has since retired. But		6.	MR. SNEED: So on a daily basis,	
7.	I've seen that report but I can't tell you word		7.	each crew leader there's three crew leaders per	
8.	for word, but there were things put in place to		8.	day they are required to do a full walk-down	
9.	mitigate those from happening in the future. We		9.	from top to bottom of the unit. And things they	
10.	had to provide that in the documentation that we		10.	look for are sounds that they didn't hear the day	
11.	sent to corporate. So that did happen, but I		11.	before. And so really the only thing I can think	
12.	can't tell you for sure what those things to		12.	of, that would be the only mechanism that we would	
13.	mitigate it was.		13.	have in place to detect something like that. And	
14.	MR. BAUGHMAN: And that just leaves		14.	they completely turn off the blower units to	
15.	a question in my mind because it did cause		15.	listen for any type of different sounds than	
16.	damage		16.	they'd heard. And, again, that's done three times	
17.	MR. SNEED: It did.		17.	a day, and that's something they're required to	
18.	MR. BAUGHMAN: and you're not		18.	do. So that could be the only mechanism that I	
19.	aware of it.		19.	can think of that would catch that.	
20.	MR. BENNETT: To the tank or to the		20.	MR. HARGROVE: Just for clarity, I	
21.	boiler?		21.	think, Mr. Chairman, you asked each individual to	
1/1	MR. BAUGHMAN: To the boiler.		22.	identify themselves and their roles, so I would	
	MR. SNEED: To the smelt spouts.		23.	like to reiterate that and ask each of you to	
23.	•		24.	identify your name and, specifically, what is your	
22.23.24.25.	MR. BAUGHMAN: To the smelt spouts, yes.		25.	role and responsibility.	

3. th 4. th 5. p 6. a 7. to 8. I 9. o 10. 11. th 12. u 13. 14. I 15. a	MR. SNEED: My name is Brandon Sneed. I am the mechanical project engineer for he entire utilities department, which includes he recovery boiler. I handle any capital upgrade projects that happen in the utilities department, as well as any code work to the boiler that needs to be handled during an annual shutdown basis. So I'm the one responsible for contracting that work put. MR. SANDERS: John Sanders. I'm the operations manager for the fiber line and attilities departments. MR. WHITE: I'm Marshall White.	1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	MR. SANDERS: Oh, the far right on the department seniority and plant seniority? MR. WHITE: No. He's in the big are you in the small binder we handed out? MR. BAUGHMAN: Yes, sir, I'm on the small binder. So let's just say where it says David Kilgore, crew leader, 11/30/2012. And then it says 1st Assistant, 5/3/99. Is that when he first	
3. th 4. th 5. p 6. a 7. to 8. I 9. o 10. 11. th 12. u 13. 14. I 15. a 16. r 10.	the entire utilities department, which includes the recovery boiler. I handle any capital upgrade projects that happen in the utilities department, as well as any code work to the boiler that needs to be handled during an annual shutdown basis. So i'm the one responsible for contracting that work but. MR. SANDERS: John Sanders. I'm the operations manager for the fiber line and utilities departments.	3. 4. 5. 6. 7. 8. 9.	MR. WHITE: No. He's in the big are you in the small binder we handed out? MR. BAUGHMAN: Yes, sir, I'm on the small binder. So let's just say where it says David Kilgore, crew leader, 11/30/2012. And then it says 1st Assistant, 5/3/99. Is that when he	
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11. th 12. u 13. 14. I 15. a 16. r	he operations manager for the fiber line and utilities departments.	1	mst	
11. tl 12. u 13. 14. I 15. a 16. re	he operations manager for the fiber line and utilities departments.	I_{11} .	MR. SNEED: That's when he	
12. u 13. 14. I 15. a 16. r	ntilities departments.		qualified for that position.	
13. 14. I 15. a 16. r	•	12.	MR. BAUGHMAN: qualified for	
14. I 15. a 16. r	with willie. The warman white.	13.	that position?	
15. a	'm the assistant superintendent in the utilities	14.	MR. SANDERS: So he qualified for	
16. r	area, mainly around this recovery boiler in the	15.	the 1st Assistant on 5/3/99, and then he qualified	
	recaust area.	16.	for crew leader on 11/30/2012.	
	MR. BENNETT: I'm David Bennett.	17.	MR. BAUGHMAN: Okay. So what I'm	
		18.	looking at is, going through there, these folks,	
	'm a metallurgy and corrosion specialist. I work as a consultant to the mill. I'm also the			
		19.	as they've come through, some of them go back	
	ndustry liaison to the API 579-1, ASME FFS-1,	20.	Gary Kinsler came on in 1999. What's the updated	
_	post construction code.	21.	training that gets to be involved in here?	
22.	CHAIRMAN MORELOCK: Any other	22.	Because I'm interested to know the further	
1	questions or comments?	23.	training that these folks are encountering.	
24.	MR. BAUGHMAN: Yes.	24.	MR. SANDERS: So every three years	
25.	CHAIRMAN MORELOCK: Go right ahead.	25.	they go back through a recertification process	
	Page 98			Page 100
1.	MR. BAUGHMAN: Under training,	1.	where they train on job-specific tasks. And then	- 1.8
2. U	Utilities Department Training Summary, 11.14	2.	every year they review the emergency SOPs and	
	and this is not on the this is not the	3.	MR. SNEED: Those are on the next	
	addendum, so this may not since you've got the	4.	page. A snapshot of that is on the next page of	
	addendum here, this may not hold forth. So the	5.	all the SOPs that they have to be trained and	
	addendum on 8.32 is the update to 11.14?	6.	qualified on.	
7.	MR. SNEED: That is correct.	7.	MR. WHITE: They have to do the	
8.	MR. NEVILLE: It is.	8.	emergency SOPs annually, and then every three	
9.	MR. BAUGHMAN: Good. Yeah, because	9.	years, they have to do the emergency SOPs, the	
		1	standard SOPs, as well as a recertification of the	
	was just going through and looking at the	10.		
	waivers or DQs and the number of waivers or DQs	11.	position. Now, that's just for the people around	
	hat were itemized previously versus what's on	12.	the recovery board. That's the crew leader, 1st	
	here presently. And so that's pretty good. What	13.	assistant, and 3rd assistant.	
	'm looking at as I'm going through this, though,	14.	MR. SNEED: And, David, you're not	
	s explain to me kind of what I'm looking at on	15.	going to see Gary's name on there, I don't think,	
	his training grid. As I look at crew leaders,	16.	only because this is just a snapshot.	
	'm looking at training. And so explain to me	17.	MR. NEVILLE: That's a snapshot of	
	what I'm looking at from A, B, C, and D,	18.	that.	
19. tl	hrough David down through Gary.	19.	MR. SNEED: I have all 56 pages in	
20.	MR. SANDERS: Yeah, the date you	20.	this that shows every single person, and they're	
21. s	see on the table is the date they were originally	21.	all complete, for this training.	
22. q	qualified for that position.	22.	MR. BAUGHMAN: Very good. Thank	
23.	MR. BAUGHMAN: The date on the	23.	you for that explanation, because that's	
	eft-hand side or the far right? I guess it would	24.	MR. SNEED: I thought that's where	
	be the far right.	25.	you were going.	

	Dage 101		Paga 102
1.	Page 101 MR. BAUGHMAN: Thank you.	1.	Page 103 CHAIRMAN MORELOCK: Okay. All
2.	MR. SNEED: Even though we believe	2.	right. Any other questions or comments?
3.	in printing a lot of paper.	3.	MR. SNEED: And, too, to say, if we
4.	CHAIRMAN MORELOCK: Okay. I've got	4.	do have to take it down cold, we would still like
5.	a quick question on page 2.89R, which is part of	5.	to have the economical impact of not having to do
6.	the FM Global Risk Report under Tab 2. It says in	6.	the internal inspection.
7.	the second paragraph that "The mill is in the	7.	CHAIRMAN MORELOCK: To open it up?
8.	midst of a recovery boiler steaming rate	8.	Okay.
9.	increase." And so you are showing in the	9.	MR. SNEED: Because if we went with
10.	addendum, going from 545 to 565, the FM Global	10.	the 18-month inspection and went down in October,
11.	Report states the steaming rate will be increased	11.	then it would still be a full-mill shutdown with
12.	from 580 to 560.	12.	being a one-line mill. And corporate has changed
13.	MR. SNEED: I can explain that.	13.	our outage to May, so we can't just go down to May
14.	CHAIRMAN MORELOCK: Okay.	14.	and October.
15.	MR. SNEED: So earlier this year,	15.	CHAIRMAN MORELOCK: Any other
16.	we had Andritz, who did our previous circulation	16.	comments?
17.	study on the boiler, continue their study. And	17.	MR. BENNETT: If I may, just a
18.	what we asked them to do was look at the boiler	18.	little context. Industry-wide, this move to go
19.	from a circulation standpoint and tell us what the	19.	from one-year to two-year outages on these units
20.	achievable steaming rate would be without any	20.	is fully under way. Many boilers in the industry
21.	capital upgrades.	21.	of the craft, the more dangerous versions are
22.	CHAIRMAN MORELOCK: Okay.	22.	already on two-year main outage cycles. This is
23.	MR. SNEED: So they came back to us	23.	really more of a bureaucratic challenge for us to
24.	and said that 600,000 pounds per hour would be our	24.	get the permits and everything properly organized.
25.	max steaming rate that the boiler would be	25.	There hasn't been any perceived risk industry-wide
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	Page 102	-	Page 104
1.	Page 102 qualified to run at. Essentially that's	1.	Page 104 of, "Oh, we shouldn't let them do that." It's
1. 2.	qualified to run at. Essentially that's	1. 2.	of, "Oh, we shouldn't let them do that." It's
2.	qualified to run at. Essentially that's circulation and steam valve relief capacity, which	2.	of, "Oh, we shouldn't let them do that." It's quite accepted in the industry to be on these
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2. 3.	qualified to run at. Essentially that's circulation and steam valve relief capacity, which we are above 600,000. The 580 that's in the FM Global	2. 3.	of, "Oh, we shouldn't let them do that." It's quite accepted in the industry to be on these two-year main outage cycles. CHAIRMAN MORELOCK: Well, and kudos
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1.	Page 105		Page 1
	But if there were no issues found, then you were	1.	different-fired unit. It's not it's a it's
2.	able to go to the two or three years.	2.	a power boiler. We burn what we call hog fuel.
3.	MR. BAUGHMAN: And what schedule	3.	It's not a recovery boiler.
4.	are we in right now with it?	4.	MR. BENNETT: Different damage
5.	MR. SNEED: Well, we inspected it	5.	mechanisms, different challenges of managing the
5.	in 2016 and had no findings. So at least two	6.	grate and all those kinds of things that don't
7.	years. But we could possibly go three.	7.	allow us to think of these extended outages.
8.	CHAIRMAN MORELOCK: But now your VA	8.	MR. SNEED: We can run without the
9.	is an unfired pressure vessel, right?	9.	hog fuel boiler in operation. We can run the rest
0.	MR. SNEED: I'm not sure what	10.	of the mill.
0. 1.	you're	111.	MR. BAUGHMAN: But when the DA goes
2.	MR. BENNETT: Yes.	12.	down, is that a single DA for both, or it's
2. 3.	MR. SNEED: It's unfired, yeah.	13.	separate DAs?
٥. 4.	It's not	14.	•
			MR. SNEED: They're not even close.
5.	CHAIRMAN MORELOCK: So, by law, it	15.	MR. BAUGHMAN: Good. Very good.
6.	would be a two-year internal, by the State of	16.	Thank you.
7.	Tennessee.	17.	MR. SNEED: You're welcome.
8.	MR. SNEED: So we've done it in the	18.	CHAIRMAN MORELOCK: Anything else?
9.	past, a once-a-year internal	19.	(No verbal response.)
0.	CHAIRMAN MORELOCK: Okay.	20.	CHAIRMAN MORELOCK: Hearing none,
1.	MR. SNEED: with UT and MT	21.	I'm going to call the question. All in favor say
2.	inside. Not as frequent, but we have done an	22.	"aye."
23.	internal, taking the heads off every year.	23.	(Affirmative response.)
4.	CHAIRMAN MORELOCK: Yeah. Okay.	24.	CHAIRMAN MORELOCK: Opposed?
5.	MR. BAUGHMAN: So we have no in	25.	(No verbal response.)
	Page 106		Page 1
1.	other words, what we've clarified there is it	1.	CHAIRMAN MORELOCK: Abstentions?
2.	can't go three years. It's got to be	2.	(No verbal response.)
3.	CHAIRMAN MORELOCK: Not without an	3.	CHAIRMAN MORELOCK: Not voting?
4.	RBI program like you've seen Valero and Wacker	4.	(No verbal response.)
5.	present.	5.	CHAIRMAN MORELOCK: You have a
6.	MR. BENNETT: And we do that on	6.	two-year extension for internal inspection based
7.	a any we are constrained by the state rule.	7.	upon addressing any comments with the board and a
8.	We would RBI would say	8.	successful site visit by the boiler unit of the
	CHAIRMAN MORELOCK: Well, and	9.	State of Tennessee.
	that's up to you. We're not going to tell you	10.	
		10.	Thank you, gentlemen.
0.		111	
0. 1.	what to do about that.	11.	MR. SNEED: Thank you. Is there
0. 1. 2.	what to do about that. MR. BENNETT: Right. We understand	12.	any follow-up comments? I know we had some last
0. 1. 2. 3.	what to do about that. MR. BENNETT: Right. We understand that.	12. 13.	any follow-up comments? I know we had some last time, but is there any one that we need to
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1.	CHAIRMAN MORELOCK: Thank you.	1.	over an 18-month period. But if they had the
2.	Okay. So that concludes our action	2.	qualifications, then they weren't satisfied with
3.	items, new business. That takes us to Item 8,	3.	the salary, because, of course, the state
4.	which is Open Discussion Items. And our first	4.	government salary is a lot more in the private
5.	item is "Job description for Boiler Inspector 4,"	5.	sector. So we ran into complications trying to
6.	which would be the chief inspector.	6.	fill the position.
7.	At the last meeting, the board was	7.	So that we wouldn't be bound by state
8.	provided a job description, and I think we made	8.	law, it was recommended that we change that and
9.	some recommendations where it said to correct the	9.	remove that from state law and handle it
0.	name of the National Board of Boiler and Pressure	10.	internally.
1.	Vessel Inspector. That's what comes to mind. And	11.	CHAIRMAN MORELOCK: Okay.
2.	I think you-all were going to make some	12.	MR. HARGROVE: Based on the
3.	corrections to that, and that's about it, right?	13.	applicants that we did have, was there a
4.	MS. JEFFERSON: Yes. Did you see a	14.	significant number that would meet this new
5.	copy of the new	15.	requirement, meaning less than five years or
6.	CHAIRMAN MORELOCK: I have not seen	16.	five years five to ten, I guess?
7.	a copy of the new ones.	17.	MS. JEFFERSON: Well, actually,
8.	MS. BENNETT: It's in your book,	18.	five years is what it requires now. That's the
19.	your notebook.	19.	minimum now. And I think we would be better off,
20.	CHAIRMAN MORELOCK: Okay.	20.	yes. I think we would be in a better position.
21.	MS. JEFFERSON: Chairman, you'll	21.	Of course Sam is our chief, and so we hope to have
22.	see at the very top unit board members, you'll	22.	him for a while and we don't have to worry about
23.	see at the very top it says Class Title Boiler	23.	that.
24.	Inspector 4, because that's the actual class	24.	MR. BAUGHMAN: I may be missing it
25.	title. Our working title is Chief Boiler	25.	in here, reviewing this, Kim, but is there a test
	Ç		
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1.	Inspector.	1.	administered, as there is with anybody
2.	CHAIRMAN MORELOCK: Okay.	2.	MS. JEFFERSON: No. If you take a
3.	MS. JEFFERSON: Under "Minimum	3.	look at others' requirements, examination methods,
4.	qualifications," you'll see where that has been	4.	examination experience are 100 percent, but
5.	revised from ten years to five years. After	5.	there's no test. We basically rely on the
6.	surveying other states and talking with other	6.	National Board of Boiler and Pressure Vessel
7.	chief boiler inspectors, we found that five years	7.	inspection just to ensure that they're
8.	was more reasonable based on all the other states'	8.	commissioned.
9.	information.	9.	CHAIRMAN MORELOCK: The commission
0.	And you'll see under "Other	10.	exam is their test.
11.	requirements" that the applicant must possess a	11.	MR. BAUGHMAN: Very good.
12.	valid commission issued by the Board of Boiler and	12.	CHAIRMAN MORELOCK: Any other
13.	Pressure Vessel Inspectors.	13.	comments or questions?
14.	CHAIRMAN MORELOCK: Are there any	14.	(No verbal response.)
15.	questions from the board? This is an internal	15.	CHAIRMAN MORELOCK: Okay. Thank
16.	policy to the Department of Labor and Workforce	16.	you for presenting that.
17.	Development, so there's no voted action for this.	17.	All right. Our next item is
18.	But we can provide comments.	18.	recommendations for we still have two vacant
19.	MS. JEFFERSON: And just to give	19.	well, with Eugene's departure from the board,
20.	you-all a little bit of just feedback, I guess, as	20.	resigning from the board, we do have vacancies.
21.	to why that was changed. I think we talked about	21.	One for the international boilermaker
22.	it before. But originally, there was a ten-year	22.	representative and the insurance representative.
23.	requirement in the law. We found it very	23.	We have received three qualified applicants for
23. 24.	difficult to find and to hire recommend someone	24.	the insurance representative, but we only have one
_	with ten years' experience. We interviewed lots	25.	for the boilermaker labor representative. So if
25.		1 4.).	tor the bolicinianci tabor representative. 50 II

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1.	you have recommendations, please let us know who	1.	MR. BAILEY: I think it is, yes.
2.	they are so we can get those to the State and get	2.	MR. PISCHKE: Do they have to be
	those to the governor. We have to have three.	3.	actively working in the industry at the time, or
	MR. PISCHKE: Is there a deadline?	4.	can it be somebody that's retired or recently
	MS. JEFFERSON: Yes. We're hoping	5.	retired, or do they have to
	to get that done by March, the end of March.	6.	MR. BAILEY: Well, the statute is
	MR. PISCHKE: Okay.	7.	kind of silent on that. It just says that one
	MS. JEFFERSON: And what we've	8.	will be a representative of the boilermakers or
	done, as far as the insurance representatives, we	9.	practical steam operating engineers. Whether
	had three and we received one additional last	10.	that's a retired representative it really
	week, so we have a total of four. Of those, only	11.	doesn't say one way or the other.
	two were Tennessee residents. So we've been asked	12.	CHAIRMAN MORELOCK: Okay.
	to actually obtain one more. I think we need one	13.	Mr. Toth?
	more so that we can submit three Tennessee	14.	MR. TOTH: I, maybe, can add a
	residents to the governor's office. That's for	15.	little bit to that. This goes in line with the
	the insurance representative's position.	16.	National Board of Boiler Pressure Vessel
	As far as the international	17.	Inspectors that pretty much has the same
	boilermaker representative, I've asked Sam to take	18.	stipulation in place. However, they extend it off
	a look at the information that we received within	19.	to a pipe fitters union, boilermakers union,
	the department that we received during the time of	20.	unions that cover boiler operators also.
	the during the interview process. We received	21.	To say that it needs to be active or
	a list of applicants, and some were a part of	22.	not, I can tell you from my experience that
	boilermaker the boilermaker industry. And so	23.	appointment comes from whatever body they belong
	he's going to take a look at that to determine if	24.	to, so, therefore, in the past, we've had the
	we can receive three applications and resumes	25.	actual boilermakers union appoint an individual
	Page 114	1	Page 1
	based on that information. But, of course, if	1.	and then they are accepted by the governor's
	you-all know someone, then we would ask you-all to	2.	office. So if that helps you in any way.
	submit that information to Carlene so it can be	3.	CHAIRMAN MORELOCK: Okay.
	submitted.	4.	MR. BAUGHMAN: But it can extend
	CHAIRMAN MORELOCK: Okay. So	5.	past the boilermakers union to the pipe fitters
	there's where we're at with that, so if you have	6.	and so forth.
	any names, let us know.	7.	MR. TOTH: Absolutely. As what was
	MR. BAUGHMAN: Let me ask you, just	8.	read from the statute. And just historically
	so I have a clarification, because I don't know.	9.	it's been boilermakers, but it didn't need to be,
	I'll ask if I don't know. What is a qualification	10.	necessarily. It just had to be within the
	of an international boilermaker representative?	11.	environment.
	That's labor union? A union just the	12.	MR. BAUGHMAN: Great. Well, that
	clarification on the definition of who it is we	13.	expands it a little bit.
	can recommend.	14.	CHAIRMAN MORELOCK: Okay. Good.
	MS. JEFFERSON: Dan's looking at	15.	MR. BAUGHMAN: Thanks, Marty.
	the law.	16.	CHAIRMAN MORELOCK: Any other
	CHAIRMAN MORELOCK: Well, I mean,	17.	questions or comments?
	historically, that's what it's been.	18.	(No verbal response.)
	MR. BAILEY: It says one shall be a	19.	CHAIRMAN MORELOCK: Okay. We need
	representative of the boilermakers or practical	20.	those by the end of March.
	steam operating engineers.	21.	Okay. Our next discussion item is
	CHAIRMAN MORELOCK: It's	22.	Rennai. And the only information I have is
	representing labor organized labor involved	23.	concerning the three-foot clearance and I don't
	with pressure equipment. Would that be a fair	24.	know if that's the board's interpretation from
	statement?	25.	2007 that discusses the one and a half foot for
		1	

	Page 11'	7		Page 1
1.	certain devices with 400,000 BTUs or less. So who	1.	due to changes in how the National Board of	
2.	is here to speak about that?	2.	Commissioning Exam is given. And we discussed	
3.	(No verbal response.).	3.	this at the last meeting, and Mr. Toth made a	
	CHAIRMAN MORELOCK: Nobody?	4.	great suggestion, that if you look in our	
	(No verbal response.)	5.	recently revised rules, this is already addressed.	
	CHAIRMAN MORELOCK: All right.	6.	And so he suggested, since the legislative process	
	We'll put it on the table and bring it back in	7.	is a little onerous to get through, the board can	
3.	June.	8.	submit an interpretation or hear an interpretation	
€.	All right. Moving along.	9.	related to Rule 800-3-3. So what I have here is	
).	MR. TOTH: Mr. Chairman?	10.	that. And so I'm going to pass this around.	
1.	CHAIRMAN MORELOCK: Yes.	11.	And we don't have to take action on	
2.	MR. TOTH: I might add, just the	12.	this today because this is a discussion item, but	
3.	discussion that we had in recess, I just wanted to	13.	I'll just briefly talk about it because our time	
1.	make sure it's noted that the past board cases and	14.	is getting short. But basically, what is in	
5.	interpretations are not currently presiding on the	15.	800-3-3.06 for inspector qualifications, and	
5.	State's website, and I think it's critical that	16.	specifically paragraph 3, the examination for	
7.	those be put back on as soon as possible.	17.	certificate of competency, it now states that	
, . 3.	CHAIRMAN MORELOCK: And just so you	18.	unless other arrangements are made, the	
9.	know, the boiler unit has done a great job of	19.	examination for inspectors certificate of	
0.	up until last week, the interpretations went up	20.	competency shall be held in conjunction with a	
0. 1.	through 2007. So we had a deficit between 2007	21.	quarterly meeting of the board at such locations	
2.	and today. And they've done a good job of	22.	as it designates it gives a reference to	
2. 3.	catching that up. But then, when it was put up,	23.	NB411 or at an Applied Measurements	
3. 4.	the old document was removed and both of them	24.	Professional, AMP, location or during the last day	
4. 5.	should have stayed so you would have the whole	25.	of the National Board In-service Commission	
٥.	should have stayed so you would have the whole	23.	of the National Board III-service Commission	
	Page 113	3		Page 1
1.	picture.	1.	two-week course. So that is what we are doing	
2.	And so they'll work to get that	2.	today.	
3.	rectified, may clean up the new ones a little bit,	3.	And so what you have before you is	
4.	because it was just a list. So that's ongoing and	4.	I will have Carlene put this on our June agenda as	
5.	we'll get that straightened out.	5.	an action item to basically request an	
6.	MR. TOTH: Thank you.	6.	interpretation to say Inquiry 1 would be, are	
7.	CHAIRMAN MORELOCK: But I do want	7.	the examination requirements for the certificate	
8.	to thank the boiler unit for getting that done.	8.	of competency in Tennessee Rule 800-03-03.06,	
9.	That was a little bit of work and we appreciate	9.	inspector qualifications, paragraph 3(a), correct	
0.	their efforts to get that done, so very good.	10.	and current with the requirements of NB263RCI-1,	
1.	I do want to thank Mr. Bailey for the	11.	rules for commission inspectors, part 2,	
2.	next item. We had a typo when we issued the	12.	commission and endorsement examinations?	
3.	revised Tennessee Rule 800-3-3. In the	13.	The reply to that would be yes.	
<i>3</i> . 4.	calculation for existing pressure vessels, it	14.	Inquiry 2 would be are the	
+. 5.	referenced PG-27, which is actually a Section 1	15.	requirements in Tennessee Code Annotated	
5. 6.	referenced PG-27, which is actually a Section 1 reference. It should have been UG-27. Mr. Bailey	15. 16.	68-122-109(a) examinations for chief deputy or	
	•			
7.	was successful in getting that typo actually	17.	special inspectors correct and current with the	
8.	corrected. So it's completed. He sent us letters	18.	requirements of NB263?	
9.	stating that that's been done, so we can take that	19.	And the reply to that would be no.	
).	off the list. So that's the good job.	20.	Tennessee Code Annotated 68-122(a),	
1.	Thank you, Mr. Bailey, for that.	21.	examinations for chief deputy and special	
2.	MR. BAILEY: Thank you.	22.	inspectors should be revised. And then we provide	
	CHAIRMAN MORELOCK: The next item	23.	background information for the reasons for that.	
	on the list is we had looked at a proposed	24.	And basically, the reason for the requested change	
	on the list is we had looked at a proposed		1.1 h - 4h h 4 - 4h - T C - d -	
3. 4. 5.	revision to Tennessee Code Annotated 68-122-109(a)	25.	would be these changes to the Tennessee Code	

	Page 121			Page 123
1.	Annotated are needed due to the changes in how the	1.	make sure that we do due diligence on this, and	1 450 123
2.	National Board Commission exam is provided. The	2.	it's certainly not going to happen in a short	
3.	exam no longer only provided by at least two	3.	period of time.	
4.	Tennessee Board of Boiler Rules members at the	4.	We're at least now getting the ball	
5.	jurisdiction, but is provided at the jurisdiction	5.	rolling to have these discussions, and one of the	
6.	by the boiler unit and also provided on demand	6.	things that's coming about is the realization that	
7.	locations; for example, Applied Measurements	7.	this can have such an impact and be one of the	
8.	Professionals, or AMP, and also administered by	8.	most important things that we do to affect public	
9.	the National Board on the last day of the National	9.	safety that the public will never know about. And	
10.	Board Commission course.	10.	that's a pretty awesome thing to be involved with.	
11.	And that's a lot of information to	11.	But to think that my wonderful	
12.	throw at you, so we'll get that out and you can	12.	89-year-old mom, who still drives, which is of a	
13.	review that. But I would like for that to be an	13.	concern, can operate a boiler if so qualified by	
14.	action item on the June agenda.	14.	the owner. And that's a scary proposition. So	
15.	Do you have any questions right off	15.	being that we're now even within the point of	
16.	the bat about that?	16.	having discussion on this is pretty exciting in my	
17.	(No verbal response.)	17.	mind.	
18.	CHAIRMAN MORELOCK: Thank you,	18.	But Jesse, for one, started off with	
19.	Martin, for the suggestion. It was a good one.	19.	an apology because of things of nature and life	
20.	Okay. Our next item is Mr. Baughman	20.	that didn't allow this to move as quickly as he	
21.	is going to give us an update regarding formation	21.	would like. And no apologies necessary, that this	
22.	of the committee to make recommendations on boiler	22.	will all come about in the time that it's supposed	
23.	training. And like I stated at the beginning,	23.	to. But know that we are investigating the other	
24.	during the approval of the minutes, the Tennessee	24.	states first so that we get a good overview of	
25.	board did vote that action in September 2016, but	25.	what else is out there in the industry. And that	
23.	board and vote that action in September 2010, but	23.	what else is out there in the industry. And that	
	Page 122	+		Page 124
1.	we still do not have a charter or a scope for this	1.	will help us formulate what we're going to present	
2.	committee.	2.	down the road.	
3.	So Mr. Baughman?	3.	CHAIRMAN MORELOCK: Okay. Any	
4.	MR. BAUGHMAN: Yeah. The update on	4.	questions or comments?	
5.	this is that it's a very slow work in progress,	5.	MR. GROSS: (Indicating.)	
6.	being that Mr. Smith, Jesse Smith, deputy boiler	6.	CHAIRMAN MORELOCK: Yes?	
7.	inspector, has been spearheading this, getting it	7.	MR. GROSS: Jeremy Gross from	
8.	together. And along with work and life, this	8.	Valero.	
9.	moves along at a slow pace. But what Jesse has	9.	Dave, have you talked to Shelby	
10.	done is he's looked into other states that have	10.	County? Their boiler operators have to have a	
11.	boiler operator requirements or training	11.	boiler's license and take an exam and go through	
12.	requirements. Not so much just, even,	12.	that process.	
13.	certification, but any state that has a	13.	MR. BAUGHMAN: We have. Shelby	
14.	requirement for training and/or certification.	14.	County, Arkansas, Minnesota, Texas, Michigan	
15.	And then he's asking for input, especially from	15.	but Shelby County has been one just for the	
16.	the boots-on-the-ground people, other inspectors	16.	purpose of conversation Shelby County was	
17.	within the state, others within the industry, and	17.	looking to rescind their requirements. And the	
18.	then expanding upon that so that we've got	18.	reason being, the rest of the state doesn't have	
19.	information to bring back and start analyzing and	19.	one. So by having some communication with them	ı ,
20.	having discussion on it. We want to have this as	20.	and that got taken off of the table.	
21.	a continuing open discussion. But it takes	21.	But I thought, "Wow, people are	
22.	multiple people to bring these ideas to the table,	22.	actually looking at how the rest of the state	
23.	to bring to be able to form this in a manner	23.	transacts its training requirements and so	
24.	that can then be brought before the State and	24.	yeah. But it's kind of a long answer to a short	
25.	proposed in whatever form or fashion. We want to	25.	question.	
	proposed in manager form of momon. We want to	123.	question	
		- 1		

MR. TOTH: Marty Toth. One of the things I think this is serful idea. This is something that we at a number of years back, as Brian alluded Deborah was there, too. The biggest in that you're going to have, and the support to come from above, is the blow-back that going to get from constituents of the ure. That was one of the reasons why I pick between two. One was an installation and the other was boiler operator. And I of fight this battle and earn the tion permits when approved. It was the of that very thing. And so getting that it is going to be critical, moving forward, something into place. MR. BAUGHMAN: And I agree the artedly, especially when you start looking arts and numbers. I mean, it makes sense, the because we're here for public safety. Our main charge. And you've got to stand the economic equations of the impacts at that how that comes into play. But if the esent this in discussion to Representative them.	Page 125	1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22.	Page 12 latest, the end of June so we can pass that on to our legislative liaison so the department can decide if that's something that they want to pursue. MR. BAUGHMAN: And just off to extend upon that, I don't believe there's going to be anything being presented this go-around. CHAIRMAN MORELOCK: So with that said, do you want me to go ahead and submit my marked-up copy of 68-122-109(a) that we're also going to chase as an interpretation as well? MS. JEFFERSON: Yes. CHAIRMAN MORELOCK: Okay. I'll make sure the board members have an opportunity to review that mark-up one more time, and we'll have that to you before June. MS. JEFFERSON: Thank you. CHAIRMAN MORELOCK: Okay. MR. TOTH: (Indicating.) CHAIRMAN MORELOCK: Yes? MR. TOTH: Is there a reason why that the boiler operator requirements couldn't go
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and the economic equations of the impacts t that how that comes into play. But if esent this in discussion to Representative			that the boiler operator requirements couldn't go
t that how that comes into play. But if esent this in discussion to Representative			that the boller operator requirements couldn't go
esent this in discussion to Representative		23.	through rules and regulations versus the statute?
		24.	MS. JEFFERSON: It depends on what
		25.	the current law says.
	Page 126		Page 12
hat with the training that they've got or		1.	MR. BAILEY: Currently it's in the
e abilities that they have, that they can		2.	statute, so
a boiler, then it starts putting things in		3.	MR. TOTH: For a boiler operator?
ctive and we can work through the money end	d	4.	It's in the statute, or is it in the rules and
gs.		5.	regulations?
And I think that with that input and		6.	MR. BAILEY: I believe it's in the
at understanding of what we're presenting,		7.	statute.
e've got to be cognizant of what we're		8.	MR. TOTH: And I'm sorry to put you
g to the table to make sure that it		9.	on the spot, but that's just one thing you may
not have all the meat and potatoes on the		10.	want to look into, is
nd, but I think that what we're doing is		11.	MS. JEFFERSON: Yes. If it's
the groundwork that we can build upon to		12.	pertaining to a current rule, then it will go
moving. But just having anything in place		13.	through the rulemaking process. But if it's
g to be a step above where we're at.		14.	pertaining to a law, then it has to go through
MS. JEFFERSON: And, Chairman, if I		15.	legislation.
at one of the other board meetings we		16.	MR. TOTH: Absolutely. And it's
ned that in order for the department to		17.	been a while since I've dove into 68-122, so that
legislative recommendations and in order		18.	may be one avenue you want to look at.
also to submit those recommendations for		19.	CHAIRMAN MORELOCK: Well, I'm
t year, we have to have that information		20.	pretty certain there's no requirements for boiler
n May and June.		21.	operators in Rule 800-3-3.
CHAIRMAN MORELOCK: Right.		22.	MR. TOTH: I am too, but, you know,
		23.	like I said, it's been a while.
MS. JEFFERSON: So I just wanted to		24.	CHAIRMAN MORELOCK: Because I just
MS. JEFFERSON: So I just wanted to you-all, because we're into March now, and		25.	spent way too much time reorganizing that, so I'm
	g to the table to make sure that it not have all the meat and potatoes on the ad, but I think that what we're doing is the groundwork that we can build upon to moving. But just having anything in place g to be a step above where we're at. MS. JEFFERSON: And, Chairman, if I at one of the other board meetings we need that in order for the department to legislative recommendations and in order also to submit those recommendations for t year, we have to have that information in May and June. CHAIRMAN MORELOCK: Right. MS. JEFFERSON: So I just wanted to you-all, because we're into March now, and	g to the table to make sure that it not have all the meat and potatoes on the ad, but I think that what we're doing is the groundwork that we can build upon to moving. But just having anything in place g to be a step above where we're at. MS. JEFFERSON: And, Chairman, if I at one of the other board meetings we need that in order for the department to legislative recommendations and in order also to submit those recommendations for t year, we have to have that information in May and June. CHAIRMAN MORELOCK: Right. MS. JEFFERSON: So I just wanted to	g to the table to make sure that it not have all the meat and potatoes on the ad, but I think that what we're doing is the groundwork that we can build upon to moving. But just having anything in place g to be a step above where we're at. MS. JEFFERSON: And, Chairman, if I at one of the other board meetings we need that in order for the department to legislative recommendations and in order also to submit those recommendations for t year, we have to have that information n May and June. CHAIRMAN MORELOCK: Right. MS. JEFFERSON: So I just wanted to you-all, because we're into March now, and

1.	Page 129	ı	Page 131
	pretty sure it's not in there.	1.	CERTIFICATE
2.	Okay. Moving on to Item 9, there are	2.	STATE OF TENNESSEE)
3.	no board cases and interpretations.	3.	COUNTY OF WILLIAMSON)
4.	And Item 10 is the next board meeting	4.	I, Cassandra M. Beiling, a Notary Public
5.	will be June 14th, 2017 right here at the	5.	in the State of Tennessee, do hereby
6.	Department of Labor and Workforce Development.	6.	certify:
7.	And our last item is Item 11. And	7.	
8.	before we adjourn, I did want to say a big thank	8.	That the within is a true and accurate
9.	you to Cassandra and all those who take our	9.	transcript of the proceedings taken before
10.	minutes. And I especially appreciate the	10.	the Board and the Chief Inspector or the
11.	condensed version that you're sending out with	11.	Chief Inspector's Designee, Tennessee
12.	basically, you have four pages on a page, so	12.	Department of Labor & Workforce Development,
13.	instead of having something that's 200 pages, this	13.	Division of Workplace Regulations and
14.	is manageable. So it's easy to read. I certainly	14.	Compliance, Boiler Unit, on the 15th day of
15.	encourage everybody to go out and look on this	15.	March, 2017.
16.	online. It captures all of my poor East Tennessee	16.	I further certify that I am not related to
17.	English and everything, so it's at least funny to	17. 18.	I further certify that I am not related to any of the parties to this action, by blood
18.	read. But it's also got a lot of good information	10. 19.	or marriage, and that I am in no way
19.	in it, so Cassandra, thank you. We really do	20.	interested in the outcome of this matter.
20.	appreciate you doing that.	21.	
21.	THE REPORTER: Thank you.	22.	IN WITNESS WHEREOF, I have hereunto set my
22.	CHAIRMAN MORELOCK: Anything else?	23.	hand this 15th day of April, 2017.
23.	(No verbal response.)	24.	•
24.	CHAIRMAN MORELOCK: Hearing none,	25.	
25.	I'm going to call this meeting adjourned.		
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1.		1.	Cassandra M. Beiling, CCR, LCR# 371
2.	END OF THE PROCEEDINGS.	2.	Notary Public State at Large My commission expires: 3/15/2020
3.		3.	wry commission expires. 3/13/2020
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