1	STATE OF TENNESSEE DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
2	BOARD OF BOILER RULES
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8	QUARTERLY MEETING OF THE STATE OF TENNESSEE
9	BOARD OF BOILER RULES
10	Via Zoom Videoconference
11	December 16, 2020
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17	ORIGINAL
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21	
22	CASSANDRA M. BEILING, LCR# 371
23	STONE & GEORGE COURT REPORTING 2020 Fieldstone Parkway
24	Suite 900 - PMB 234 Franklin, Tennessee 37069
25	615.221.1089

1	Page 2		Page
1 AF	PPEARANCES:	1	Guest Appearances:
	rian Morelock, Chairman	2	ECS CONSULTING and BOISCO TRAINING GROUP
0v 3	wner-User Representative		Marty Toth
	avid W. Baughman	3	
	wner/User Representative	4	UPM PHARMACEUTICALS Chris Johnson, Associate Director of Engineering
	llied Boiler & Supply, Inc.	1	Maintenance and Facilities
	006 River Lane	5	Anthony Dean, Maintenance Technician
6	ilton, Tennessee 37118		HOLSTON VALLEY MEDICAL CENTER
	arold F. Bowers		Ben Spivey
	nsurance Representative	7	Lee Godfrey (phonetic), Facility Manager
Ce 8	enterville, Tennessee		Greg Jones, HVAC Control Group Leader
	effery Henry, Board Member	8	
	piler Manufacturer Representative		INDUSTRIAL BOILER & MECHANICAL
	IC-CES, Chattanooga, Tennessee		Keith Butler LG ELECTRONICS, USA, INC.
10 D-		1 10	Michael Hudson, EHC Manager
Dr 11	r. Keith Hargrove, Board Member (not present)	11	Lee Insick, Director of EHS
	am Chapman, Chief Boiler Inspector	12	MR. CLEANERS - KINGSPORT
12			Mark Reppart
	hris O'Guin, Assistant Chief Boiler Inspector	13	
13 тŀ	nomas Herrod		*****
	ssistant Commissioner, State of Tennessee	14	
	aniel Bailey, Esq.	1 -	Court Reporting Services and Zoom
	egal Counsel, State of Tennessee		Videoconferencing: STONE & GEORGE COURT REPORTING
16 Ca	arlane T Bennett	1	Nan George, Zoom moderator
	arlene T. Bennett pard Secretary, State of Tennessee	17	Cassandra M. Beiling, LCR
	amie Presson	18	
E>	xecutive Admin. Assistant, State of Tennessee	19	
19		20	
	ichelle Irion piler Admin. Staff Supervisor, State of Tennessee	21	
21 21	Sile mannin Starl Supervisor, State of Temessee	22	
22		23 24	** Departoria Noto: All pares are spalled
23		24	** Reporter's Note: All names are spelled phonetically unless otherwise provided to the
24 25		25	Reporter by the parties.
1 2 I.	AGENDA Page 4 . Call Meeting to Order	1	Page
3 II	-	2	MS. GEORGE: Good morning. I'm Nam
	II. Adoption of Agenda	1	
5 I\	V. Approval of the September 16, 2020	3	George with Stone and George Court Reporting. and
6	meeting minutes	3	George with Stone and George Court Reporting, and
	meeting minutes	3 4	George with Stone and George Court Reporting, and I'm the Zoom host. Cassandra Beiling is the court
v.	. Old Business	3 4 5	
v. 7	. Old Business None	3 4 5 6	I'm the Zoom host. Cassandra Beiling is the court reporter today. She's also with Stone and George
v.	. Old Business None	6	I'm the Zoom host. Cassandra Beiling is the court reporter today. She's also with Stone and George And our job is to ensure that a verbatim
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	Page 6		Page 7
1	December 16 Tennessee board meeting. I hope you	1	Carlene reaching out to Dr. Hargrove, he's had
2	have a copy of the agenda. That's what we will be	2	knee replacement surgery and he is not well enough
3	working off of in our meeting today. There was a	3	to participate today, so just remember
4	revised agenda sent out which basically just added	4	Dr. Hargrove and his healing and recovery.
5	an item for approval of the September 16 minutes,	5	And so as far as introductions, I
6	which we'll discuss here in a minute. But make	6	will go down the participant list and let
7	sure you have a copy and you can follow along with	7	everybody introduce themselves. Sometimes that
8	the meeting.	8	list starts moving around a little bit, so if I
9	We will have Nan hosting. Carlene	9	leave somebody out, it's not intentional. You can
10	Bennett will if anybody does want to raise a	10	correct me at will.
11	hand, we'll try to see that, and Carlene can keep	11	So I'm going to start with Cassandra.
12	me honest on seeing those hands raised if you have	12	You can introduce yourself.
13	a comment. And so really that's the bulk of it.	13	THE REPORTER: Cassandra Beiling
14	We will have the board members vote	14	with Stone and George Court Reporting.
15	by roll call, so I'll call each board member by	15	CHAIRMAN MORELOCK: Thank you.
16	name to approve items. And I think like Nan	16	Mr. O'Guin?
17	said, I think that covers the ground rules.	17	MR. O'GUIN: Chris O'Guin,
18	So the first item on our agenda is	18	Assistant Chief Boiler Inspector.
19	call meeting to order, so I would like to call	19	CHAIRMAN MORELOCK: Okay. Thank
20	this December 16 meeting to order of the Tennessee	20	you, sir.
21	Board of Boiler Rules.	21	C. Johnson?
22	As far as introductions and	22	MR. JOHNSON: Yes. This is Chris
23	announcements, before we do introductions, I do	23	Johnson from UPM Pharmaceuticals.
24	want people to remember Dr. Hargrove. He really	24	CHAIRMAN MORELOCK: Thank you,
25	wanted to be here today, but we found out, through	25	Chris. And if you would, just go in and change
	Page 8		Page 9
1	your name to your full name so that we will have a	1	MS. PRESSON: Jamie Presson,
2	correct record of your attendance, please.	2	Executive Admin Assistant, WRC.
3	MR. JOHNSON: Okay.	3	CHAIRMAN MORELOCK: Thank you.
4	CHAIRMAN MORELOCK: Thank you.	4	Mr. Henry?
5	Mr. Bailey?	5	MR. HENRY: Jeff Henry, board
6	MR. BAILEY: Dan Bailey, legal	6	member. ATC-CES.
7	counsel.	7	CHAIRMAN MORELOCK: Thank you, sir.
8	CHAIRMAN MORELOCK: Mr. Baughman?	8	Mark Reppart?
9	MR. BAUGHMAN: I'm Dave Baughman,	9	(No verbal response.)
10	board member. I'm with Allied Boiler & Supply,	10	CHAIRMAN MORELOCK: I don't know if
11	Incorporated.	11	you're muted yeah, you're muted.
12	- CHAIRMAN MORELOCK: Thank you, sir.	12	(No verbal response.)
13	Mr. Bowers?	13	CHAIRMAN MORELOCK: We still I

			• · ·
8	CHAIRMAN MORELOCK: Mr. Baughman?	8	Mark Reppart?
9	MR. BAUGHMAN: I'm Dave Baughman,	9	(No verbal response.)
10	board member. I'm with Allied Boiler & Supply,	10	CHAIRMAN MORELOCK: I don't know if
11	Incorporated.	11	you're muted yeah, you're muted.
12	CHAIRMAN MORELOCK: Thank you, sir.	12	(No verbal response.)
13	Mr. Bowers?	13	CHAIRMAN MORELOCK: We still I
14	MR. BOWERS: Harold Bowers, board	14	can't hear you. It doesn't show you're muted but
15	member with FM Global Insurance Company.	15	I still can't hear you.
16	CHAIRMAN MORELOCK: Thank you, sir.	16	(No verbal response.)
17	We have Industrial Boiler &	17	CHAIRMAN MORELOCK: I'll come back
18	Mechanical on the call list. If you would	18	and see if we can work that out.
19	introduce yourselves.	19	Mr. Toth?
20	MR. BUTLER: Keith Butler with	20	MR. TOTH: Marty Toth,
21	Industrial Boiler & Mechanical. I'm here to	21	ECS Consulting and the Boisco Training Group.
22	represent LG Electronics for their bid for	22	CHAIRMAN MORELOCK: Thank you, sir.
23	Tennessee Specials.	23	Michelle?
24	CHAIRMAN MORELOCK: Thank you.	24	MS. IRION: Good morning. Michelle
25	Jamie?	25	Irion. I'm the new admin supervisor here in our
1		1	

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Page 10 1 boiler division, State of Tennessee. 2 CHAIRMAN MORELOCK: Thank you, 3 Michelle. 4 Mr. HERROD: Tom Herrod, Assistant 6 Commissioner, WRC. 7 CHAIRMAN MORELOCK: Thank you, sir. 8 And we have Michael Hudson with LG. 9 (No verbal response.) 10 CHAIRMAN MORELOCK: Thank you, sir. 13 CHAIRMAN MORELOCK: I can see you 14 still have the phone number that Nam mentioned. 15 We don't have a name tied to that number, 16 1-931-503-7526. So if you can introduce yourself 17 or go in and change your name. You can 18 temporarily change that name to add a name or a 19 company name or both to that, please. 20 And I still did not Mark, did you 21 cert get your audio to work to introduce yourself 22 (No verbal response.) 23 CHAIRMAN MORELOCK: It shows you're 24 mated. Oh, there we go. Thank you for updating 25 that. 26 CHAIRMAN MORELOCK: I'm just 27 (No verbal response.) 28 CHAIRMAN MORELOCK: I shows you're 29 And I still did not Mark, did you 20 (No verbal response.) 21 CHAIRMAN MORELOCK: I shows you're 24 mated. Oh, there we go. Thank you for updating 25 that. 26 CHAIRMAN MORELOCK: I'm just 27 (No verbal response.) 28 CHAIRMAN MORELOCK: I'm just 29 (No verbal response.) 29 CHAIRMAN MORELOCK: I'm just 20 And I still did not Mark, did you 20 CHAIRMAN MORELOCK: I'm just 20 And I still did not Mark, did you 21 CHAIRMAN MORELOCK: I'm just 24 kidding. I'm just kidding. 3 MR. CHAIRMAN MORELOCK: I'm just 24 kidding. I'm just kidding. 3 MR. CHAIRMAN MORELOCK: All right. Alli 4 look at is, just depending on time, we've got a 5 pretty full agenda today, and the last thing on 5 pretty full agenda today, and the last thing on
2       CHAIRMAN MORELOCK: Thank you,         3       Michelle.         4       Mr. Herrod?         5       MR. HERROD: Tom Herrod, Assistant         6       Commissioner, WRC.         7       CHAIRMAN MORELOCK: Thank you, sir.         8       And we have Michael Hudson with LG.         9       (No verbal response.)         10       CHAIRMAN MORELOCK: I can see you         11       but I can't hear you.         12       (No verbal response.)         13       CHAIRMAN MORELOCK: And then we         14       still have the phone number that Nan mentioned.         15       We don't have a name tied to that number,         16       1-931-503-7526. So if you can introduce yourself         17       or go in and change your name. You can         18       temporarily change that name to add a name or a         19       company name or both to that, please.         20       And I still did not Mark, did you         21       ever get your audio to work to introduce yourself?         23       CHAIRMAN MORELOCK: I tshows you're         24       muted. Oh, there we go. Thank you for updating         25       MR. CHAIRMAN MORELOCK: I tshows you're         4       MR. CHAIRMAN MORELOCK: I tshow
3       Michelle.       MR. HERROL: Tom Herrod;         4       Mr. HERROL: Tom Herrod; Assistant       Genmissioner, WRC.         6       Commissioner, WRC.         7       CHAIRMAN MORELOCK: Thank you, sir.         8       And we have Michael Hudson with LG.         9       (No verbal response.)         10       CHAIRMAN MORELOCK: I can see you         11       but I can't hear you.         12       (No verbal response.)         13       CHAIRMAN MORELOCK: And then we         14       still have the phone number that Nan mentioned.         15       We don't have a name tied to that number,         16       1-931-503-7526.         10       And r still did not Mark, did you         11       and change your name. You can         12       (No verbal response.)         13       CHAIRMAN MORELOCK: And then we         14       corgo in and change your name. You can         15       with Holston Valley Medical Center.         16       MR. SPIVEY: This is Ben Spivey         17       orgo in and change your name. You can         18       temporarily change that name to add a name or a         19       corgo in and change your name. You can         14       corgo in and
4       Mr. HERRO?       Page 12         5       MR. HERROD: Tom Herrod, Assistant       4       with Holston Valley Medical Center.         5       MR. HERROD: Tom Herrod, Assistant       5       CHAIRMAN MORELCCK: Yes.         6       Commissioner, WRC.       5       MR. SPIVEY: In the room with me, room vith me room vith room vith room vith room vith room vith me room vith r
6 Commissioner, WRC.       6       MR. SPIVEY: In the room with me,         7       CHAIRMAN MORELOCK: Thank you, sir.       7       have our facility manager, Lee Godfrey(phonetic)         8       And we have Michael Hudson with LG.       9       Our HVAC control group leader, Greg Jones.         9       (No verbal response.)       9       CHAIRMAN MORELOCK: Thank you.         10       CHAIRMAN MORELOCK: I can see you       10       Mark, I still can't hear you.         11       but I can't hear you.       10       Mark, I still can't hear you.         12       (No verbal response.)       10       Mark, I still can't hear you.         13       CHAIRMAN MORELOCK: And then we       11       And who have I left out? If I've         14       still have the phone number that Nan mentioned.       14       CHAIRMAN MORELOCK: On, Carlene.         15       We don't have a name tied to that number,       14       CHAIRMAN MORELOCK: On, Carlene.         15       we don't have a name tied to that number,       15       knew I'd forget somebody.         16       rego in and change your name. You can       18       MS EENNETT: Yeah. That's fine.         17       t's Carlene Bennett. I'm Board Secretary.       18       CHAIRMAN MORELOCK: Sorry about         12       ever get your audio to work to introduce yoursel?
7       CHAIRMAN MORELOCK: Thank you, sir.       7       have our facility manager, Lee Godfrey(phonetic)         8       And we have Michael Hudson with LG.       9       (No verbal response.)         9       (No verbal response.)       9       CHAIRMAN MORELOCK: I can see you         11       but I can't hear you.       10       Mark, I still can't hear you.         12       (No verbal response.)       11       And who have I left out? If I've         13       CHAIRMAN MORELOCK: And then we       12       left you out, I apologize, but introduce yourself         14       still have the phone number that Nan mentioned.       14       CHAIRMAN MORELOCK: On, Callene.         15       We don't have a name tied to that number,       14       CHAIRMAN MORELOCK: Sory about         16       1-931-503-7526. So if you can introduce yourself       17       It's Carlene Bennett. I'm Board Secretary.         18       temporarily change that name to add a name or a       19       company name or both to that, please.       11       All right. Who else have I left out         10       And I still did not Mark, did you       21       MR. CHAIRMAN MORELOCK: It shows you're       23       CHAIRMAN MORELOCK: It shows you're         24       muted. Oh, there we go. Thank you for updating       25       MR. CHAIRMAN MORELOCK: Well, now,
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9       (No verbal response.)       9       CHAIRMAN MORELOCK: Thank you.         10       CHAIRMAN MORELOCK: I can see you       10       Mark, I still can't hear you.         11       but I can't hear you.       11       And who have I left out? If I've         12       (No verbal response.)       11       And who have I left out? If I've         13       CHAIRMAN MORELOCK: And then we       11       And who have I left out? If I've         14       still have the phone number that Nan mentioned.       14       CHAIRMAN MORELOCK: Oh, Carlene.         15       We don't have a name tied to that number,       14       CHAIRMAN MORELOCK: Oh, Carlene.         16       Page 12       Know I'd forget somebody.       16         17       orgo in and change your name. You can       18       CHAIRMAN MORELOCK: Sorry about         18       temporarily change that name to add a name or a       17       It's Carlene Bennett. I'm Board Secretary.         18       company name or both to that, please.       19       that.       20         20       And I still did not Mark, did you       21       MR. CHAPMAN: Sam Chapman,       22         21       No verbal response.)       23       CHAIRMAN MORELOCK: It shows you're       24       CHAIRMAN MORELOCK: Well, now,         24
10       CHAIRMAN MORELOCK: I can see you       10       Mark, I still can't hear you.         11       but I can't hear you.       11       And who have I left out? If I've         12       (No verbal response.)       12       left you out, I apologize, but introduce yoursels         13       CHAIRMAN MORELOCK: And then we       13       MS. BENNETT: (Indicating.)         14       still have the phone number that Nan mentioned.       14       CHAIRMAN MORELOCK: Oh, Carlene.         15       We don't have a name tied to that number,       15       knew I'd forget somebody.       16         16       1-931-503-7526. So if you can introduce yourself       16       MS. BENNETT: Yeah. That's fine.         17       or go in and change your name. You can       17       It's Carlene Bennett. I'm Board Secretary.         18       temporarily change that name to add a name or a       19       that.         20       And I still did not Mark, did you       20       All right. Who else have I left out         21       ever get your audio to work to introduce yourself?       21       MR. CHAPMAN: Sam Chapman,         22       (No verbal response.)       22       Tennessee Chief Boiler Inspector.         23       CHAIRMAN MORELOCK: It shows you're       24       Carlene paid me to do that one.         25
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13       CHAIRMAN MORELOCK: And then we       13       MS. BENNETT: (Indicating.)         14       still have the phone number that Nan mentioned.       14       CHAIRMAN MORELOCK: Oh, Carlene.         15       We don't have a name tied to that number,       15       knew I'd forget somebody.       16         16       1-931-503-7526. So if you can introduce yourself       16       MS. BENNETT: Yeah. That's fine.         17       or go in and change your name. You can       17       It's Carlene Bennett. I'm Board Secretary.         18       temporarily change that name to add a name or a       19       CHAIRMAN MORELOCK: Sorry about         19       company name or both to that, please.       19       that.         20       And I still did not Mark, did you       20       All right. Who else have I left out         21       ever get your audio to work to introduce yourself?       21       MR. CHAPMAN: Sam Chapman,         22       (No verbal response.)       23       CHAIRMAN MORELOCK: It shows you're       23       CHAIRMAN MORELOCK: Well, now,         24       muted. Oh, there we go. Thank you for updating       25       MR. CHAPMAN: Oh, she did?       26         25       that.       25       MR. CHAPMAN: Oh, she did?       27       28         24       CHAIRMAN MORELOCK: I'm just
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4 CHAIRMAN MORELOCK: All right. All 4 look at is, just depending on time, we've got a
5 right. Sam, thank you for that. 5 pretty full agenda today, and the last thing on
6 Who else have I left out? 6 the agenda is the discussion items. And so just
7 (No verbal response.) 7 seeing how that comes up, we may table that last
8 CHAIRMAN MORELOCK: All right. 8 item about the low-pressure boilers.
9 Hearing none for those that did not introduce 9 CHAIRMAN MORELOCK: Okay.
10 themselves, I hope we can get your audio and video 10 MR. BAUGHMAN: But that would just
11 working so we can talk with you. So, like I said, 11 be I was just looking at the time of what we've the there is a still a phone number that we depit have a still a state work with
12       there's still a phone number that we don't have a       12       got to work with.         13       name tied to it, and I couldn't get Mark I       13       CHAIRMAN MORELOCK: Yes, sir. Al.
14 couldn't make contact with him.14 right. We'll do the best we can. But thank you15So continue to work on that so we15 for the comment.
16     have a let's see. Let me check my chat here     16     So any other additions, deletions, of       17     right quick and see what I have. Okay. So if     17     changes to the agenda?
17       Fight dutck and see what I have. okay. So II       17       changes to the agenda?         18       you'll go into the chat and add your name and the       18       (No verbal response.)
18       you'll go into the chat and add your name and the       18       (No verbal response.)         19       company, that will help us to have a written       19       CHAIRMAN MORELOCK: All right.
20 record of who is here. Several have already done 20 Hearing none, I'm going to call for approval of
21 that. If you've not done that, please go into the 21 the December 16th agenda. And we'll do that by
22 chat box and add that. 22 role call.
23 All right. With that said, I'm going 23 So Mr. Baughman?
24     to move on to Item 3, adoption of the agenda. And     24     MR. BAUGHMAN: Aye.
The second secon
25 hopefully, you have a copy of that before you. So 25 CHAIRMAN MORELOCK: Mr. Bowers?

	Page 14		Page 15
1	MR. BOWERS: Aye.	1	approve the September 16, 2020 meeting minutes?
2	CHAIRMAN MORELOCK: Mr. Henry?	2	MR. BOWERS: I motion to approve.
3	MR. HENRY: Aye.	3	CHAIRMAN MORELOCK: Motion by
4	CHAIRMAN MORELOCK: Thank you. We	4	Mr. Bowers. Do I have a second?
5	have an agenda. That will take us to Item 4,	5	MR. HENRY: Second.
6	which is approval of the September 16th, 2020	6	CHAIRMAN MORELOCK: Second by
7	Tennessee Board meeting minutes. Those are posted	7	Mr. Jeff Henry.
8	out on the website for anyone to review. Are	8	Any other questions or comments?
9	there any changes or comments about the	9	(No verbal response.)
10	September 16 agenda and the the minutes?	10	CHAIRMAN MORELOCK: Hearing none,
11	MS. BENNETT: Brian?	11	I'm going to have a roll call for approval.
12	CHAIRMAN MORELOCK: Yes.	12	Mr. Baughman?
13	MS. BENNETT: Until they're	13	MR. BAUGHMAN: Aye.
14	approved, they're actually not put on the website.	14	CHAIRMAN MORELOCK: Mr. Bowers?
15	CHAIRMAN MORELOCK: Okay.	15	MR. BOWERS: Aye.
16	MS. BENNETT: I sent a copy to you	16	CHAIRMAN MORELOCK: Mr. Henry?
17	quys for the meeting, for you to read and approve.	17	MR. HENRY: Aye.
18	But then once it's approved, then I will put it on	18	CHAIRMAN MORELOCK: We have the
19	the website.	19	September 16th minutes approved, and then they
20	CHAIRMAN MORELOCK: Okay. Very	20	will be put on the website.
20	good.	20	So thank you, Carlene, for doing
22	MS. BENNETT: Okay.	22	that.
23	-	22	
23	CHAIRMAN MORELOCK: Very good. Thanks for that clarification.		That takes us to Item 5, which is old
24		24	business, which we have no old business, so we'll
25	Okay. So do I have a motion to	25	move on to Item 6, which is new business. And our
1	Page 16	1	Page 17
	first item is 20-15, UPM Pharmaceuticals, in	1	MR. BAUGHMAN: Thank you.
2	first item is 20-15, UPM Pharmaceuticals, in Bristol, Tennessee, is requesting a variance for	2	MR. BAUGHMAN: Thank you. CHAIRMAN MORELOCK: All right.
2 3	first item is 20-15, UPM Pharmaceuticals, in Bristol, Tennessee, is requesting a variance for two high-pressure boilers. So if you would	2	MR. BAUGHMAN: Thank you. CHAIRMAN MORELOCK: All right. Mr. Johnson, I spoke over the top of you. I
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<pre>first item is 20-15, UPM Pharmaceuticals, in Bristol, Tennessee, is requesting a variance for two high-pressure boilers. So if you would introduce yourselves and present your variance request.</pre>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MR. BAUGHMAN: Thank you. CHAIRMAN MORELOCK: All right. Mr. Johnson, I spoke over the top of you. I apologize for that. If you're ready to present your item, the floor is yours. MR. JOHNSON: I have Anthony Dean with me here, too. He's one of my main maintenance technicians, and he knows our boilers very well. But we're requesting a variance for our two gas-fired burners. We have previously had variances in the past, but since the last one, we've done several staffing changes, and we've updated the procedure and the variance. And then we've also changed one of our burners out on one of our boilers, so that was added to the new variance. But we're requesting to get our variance put back in place so that we can go to the electronic monitoring and not doing the 20-minute checks. CHAIRMAN MORELOCK: Okay. So Appendix 0 is a summary of revisions to this variance. So is there anything you want to speak
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	Page 18		Page 19
1	organizational structure changes. So we did	1	I will just say in the process of
2	update those to what we're currently doing. And	2	revising your manual it's over here well, in
3	we did change on the Appendix B-1. We went from	3	2016, we updated Rule 800-3-03, and now the
4	using radios to using cell phones for our system	4	20-minute rule is 0800-3-3.08(11), instead of
5	for contacting the boiler operators and our	5	.04(22). So you'll just need to update that on
6	security guards. So that was one change we had	6	your cover page of your manual. And there's
7	made. And then it talks about the job	7	some just do it in your manual. You'll just
8	descriptions and everybody. We updated those to	8	need to update that to the current rule, for the
9	make those current for the maintenance technicians	9	20-minute rule.
10	and the security guards as well. So a lot of it	10	MR. JOHNSON: Okay. No problem.
11	was just clerical and then we added the boiler	11	CHAIRMAN MORELOCK: Thank you for
12	burner to it as well.	12	that.
13	CHAIRMAN MORELOCK: Okay. All	13	Any other questions?
14	right. With that presentation, do ${\tt I}$ have a motion	14	(No verbal response.)
15	to discuss this variance?	15	CHAIRMAN MORELOCK: While you're
16	MR. BAUGHMAN: So moved.	16	thinking, when I look on page 3, it references the
17	CHAIRMAN MORELOCK: Thank you,	17	microprocessor-based controller, to see
18	Mr. Baughman.	18	Appendix B, and then the controller will shut down
19	Do I have a second?	19	on any condition listed in Appendix C. And I
20	MR. BOWERS: Second. Harold	20	don't see a lot of detail in those two appendices,
21	Bowers.	21	so can you speak to that?
22	CHAIRMAN MORELOCK: Thank you,	22	MR. JOHNSON: Appendix B and
23	Mr. Bowers.	23	Appendix C?
24	What questions or comments do you	24	CHAIRMAN MORELOCK: Appendix B and
25	have for UPM Pharmaceuticals?	25	Appendix C.
	Page 20		Page 21
1	MR. JOHNSON: Appendix B-1, the	1	letter, you need to correct the rule in that area,
2	MR. JOHNSON: Appendix B-1, the equipment description?	2	letter, you need to correct the rule in that area, too. When you go to page 12, which is listed as
2 3	MR. JOHNSON: Appendix B-1, the equipment description? CHAIRMAN MORELOCK: Well, you've	2 3	letter, you need to correct the rule in that area, too. When you go to page 12, which is listed as your emergency procedure
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Page 23 Page 22 1 as Mr. Morelock. On Appendix C, page C-1, it just 1 good. 2 describes the following, taken from product 2 MR. DEAN: It's the better of the 3 literature, explains the fault messages, but there 3 two. 4 was no following to that. So I kind of reiterate 4 MR. BAUGHMAN: Yeah. Well, I 5 that. 5 remember being there just over three years ago and 6 What is the -- being that the old 6 going through the old radio system, which at that 7 burner was a Gordon-Piatt, what is the new burner? 7 time was working fine. But I saw where it was MR. DEAN: This is Anthony Dean, 8 8 starting to have some issues. So I'm glad this 9 maintenance technician up here. It's a Webster. 9 all got updated and upgraded. 10 MR. BAUGHMAN: Webster. Very good. 10 MR. DEAN: It just didn't give us 11 MR. DEAN: The Gordon-Piatt, it was 11 good confidence that we could shut it off if 12 labeled as obsolete, and we updated it with a 12 something went wrong. And our new -- the HMI 13 Webster burner. It now has a Siemens controller, produces an alarm at the front office, if -- when 13 14 but it utilizes the safety header as preexisting 14 the security guards are monitoring, or the other 15 on the boiler. And the burner is only enabled designated boiler attendant. So the alarm it 15 16 through the safety on the boiler. gives is a generic one-symbol alarm. It does not 16 17 MR. BAUGHMAN: So the new burner throw a code to a security guard for him to 17 18 has got a Siemens controller on it, whereas the 18 cipher, or the other boiler attendant. It merely 19 old Gordon-Piatt is still functional and has a 19 shows a red banner and an alarm, and he's 20 FireEye; is that correct? 20 instructed to shut that boiler off. 21 MR. DEAN: It does have a FireEye. 21 So it's very simple. Our alarm codes 22 are on the front of the boilers. When it shows 22 On the original -- on the other boiler, it's still 23 functioning properly and safely and we're keeping 23 low water, misfire, or something like that, you 24 it going best we can. There's a --24 can only really get that information from the 25 MR. JOHNSON: It still runs pretty 25 boiler head, the boiler burners themselves. It Page 24 Page 25 1 does not produce a code to the boiler attendant 1 learn it ourselves. We're learning the new 2 itself, other than generic visual and audible 2 Siemens controller. And with the old FireEye, it 3 alarm. 3 was very simple. It told you what was missing, MR. BAUGHMAN: Very good. On the 4 what the fault code could be. And with the new 4 5 emergency stop there at the guard station, is that 5 Siemens controller, we're still trying to б through the computer? 6 interpret the outputs for the alarms. It doesn't MR. DEAN: It's hardwired. It's 7 7 say a lot. We have to go to the manual. We have 8 hardwired all the way back to the original 8 to physically look them up, compare them, and then 9 location, one outside the boiler house, one inside 9 figure out whether it went out on low water, 10 missed the flame, something to that effect. So 10 the compressor room. There is a conduit. It is 11 hardwired from there to there. It does not 11 it's very -- it's not as quickly repaired as, say, 12 interface with the HMI. It's a merely open-and-12 an old FireEye system. 13 13 close panic switch and gives that enable to run MR. BAUGHMAN: Yes. The old 14 and fire. 14 FireEye used to throw a code out, even over the 15 MR. BAUGHMAN: One of the 15 radio, and it would say 3-P, and that's where your 16 interesting things I was looking at and reading 16 interlock was out, whether that was the air switch 17 over the fault messages, I notice this has the 17 or the proof of closure or what have you, so --18 Siemens LMV37 along with the old E110 FireEye, but 18 but yeah. I was interested and I'll learn more 19 it notes the hold fault appears after the hold about it myself also. So thank you for that. 19 20 condition has persisted for the time period 20 The only other question I had was 21 indicated. Hold faults are self-clearing if the 21 under Appendix D, D-1, maintenance tech/boiler 22 hold condition disappears within the time 22 attendant, under Appendix G, the maintenance tech 23 allotted. Can you explain that some? Because I'm 23 duties, boiler attendant, I didn't see, was 24 not --24 listed. And is the maintenance tech actually 25 25 going to be a boiler attendant, or if that's part MR. DEAN: We're still trying to

1			
⊥	Page 26	1	Page 27
	of his duties, and if so, maybe I just missed it		that's kind of why we're charged with this.
2	in the description in Appendix G. But if he is	2	MR. DEAN: I'm glad you do.
3	going to be a boiler attendant also, I just	3	CHAIRMAN MORELOCK: What helps you
4	figured it needed to be under his duty listing.		with that is in the organizational chart under
5	MR. DEAN: It should have been	5	Appendix D, it does list the maintenance
6	Anthony Dean speaking I don't see it on here.	6	technician as a boiler attendant in Appendix D.
7	I think we could update that.	7	But reinforcing that in Appendix G would be great.
8	MR. JOHNSON: Yeah. It's well,	8	MR. JOHNSON: Okay. That's no
9	it has it's kind of listed a little vaguely	9	problem.
10	I'm sorry, this is Chris. It says under essential	10	CHAIRMAN MORELOCK: And I do have
11	duties, Number 2, maintain boiler and air	11	one more question. If you look on page 9, at the
12	compressor equipment. We may need to clarify that	12	bottom of the page, Item 7, it says the remote
13	as boiler attendant.	13	station operator shall not leave the campus. Does
14	MR. BAUGHMAN: I would, just	14	that also apply to the boiler attendant?
15	because maintaining is part of the maintenance but	15	MR. JOHNSON: Yes. We have 24-hour
16	not necessarily, specifically, identified as a	16	security guards that cannot leave the front desk
17	boiler attendant to this variance.	17	for any reason. They have to be relieved if they
18	MR. JOHNSON: Yeah. We can update	18	do. And the maintenance technician that is
19	that.	19	assigned to be the boiler attendant for each
20	MR. BAUGHMAN: Just goes to show	20	shift, he stays here all day.
21	you we read these in pretty good detail.	21	CHAIRMAN MORELOCK: Okay.
22	MR. JOHNSON: Oh, that's good.	22	MR. JOHNSON: He doesn't run to get
23	MR. BAUGHMAN: Mr. Morelock and I	23	anything at Lowe's or nothing like that.
24	have talked many times about being up until 1:00	24	CHAIRMAN MORELOCK: Okay. You may
25	or 2:00 in the morning going over these, and	25	want to strengthen your manual a little bit by
1	Page 28 just stating that they will be there, you know,	1	Page 29 through it.
-			
2	during the whole shift and not leave the campus.	2	-
2	during the whole shift and not leave the campus. MR. JOHNSON: Okav.	2	MR. HENRY: So that's a normal and
3	MR. JOHNSON: Okay.	3	MR. HENRY: So that's a normal and essential part of their training for the job.
3 4	MR. JOHNSON: Okay. CHAIRMAN MORELOCK: Any other	3 4	MR. HENRY: So that's a normal and essential part of their training for the job. MR. JOHNSON: Yes. Yes.
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3 4 5	MR. JOHNSON: Okay. CHAIRMAN MORELOCK: Any other questions or comments about this manual? MR. HENRY: This is Jeff Henry,	3 4 5	MR. HENRY: So that's a normal and essential part of their training for the job. MR. JOHNSON: Yes. Yes. MR. HENRY: Okay. Thank you. MR. BAUGHMAN: And I'll just add to
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1	Page 30	1	Page 31 MR. BAUGHMAN: Second.
$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	lot of power. I was, like, yeah.	1	MR. BAUGHMAN. Second. CHAIRMAN MORELOCK: I have a second
3	But they have kept up with the training on a good basis, at least our end of it	3	from Mr. Baughman. Any other conversations,
4	going back over the last, well, six to nine years,	4	questions, comments?
5	So	5	(No verbal response.)
6	MR. HENRY: Thank you for the	6	CHAIRMAN MORELOCK: All right.
	clarification. Wouldn't that be considered part		Hearing none, I'm going to call the question by
8	of the knowledge necessary to perform the job for	8	roll call.
9	the maintenance tech duties?	9	Mr. Baughman?
10	MR. JOHNSON: Yes. I can put more	10	MR. BAUGHMAN: Aye.
11	detail about that in the job description.	11	CHAIRMAN MORELOCK: Mr. Bowers?
12	MR. HENRY: All right. Thank you.	12	MR. BOWERS: Aye.
13	CHAIRMAN MORELOCK: Any other	13	CHAIRMAN MORELOCK: Mr. Henry?
14	questions or comments?	14	MR. HENRY: Aye.
15	(No verbal response.)	15	CHAIRMAN MORELOCK: All right.
16	CHAIRMAN MORELOCK: Hearing none,	16	Gentlemen, you have a tentatively approved boiler
17	do I have a motion for tentative approval of this	17	variance.
18	variance based upon revisions to the manual from	18	MR. JOHNSON: Thank you.
19	comments from the board meeting today and a	19	MR. DEAN: This is Anthony.
20	successful site visit by the Boiler Unit?	20	I have one final question. Do we
21	MR. BOWERS: This is Harold Bowers.	21	still stay on our 20-minute rule just like we are
22	I would make that motion.	22	now?
23	CHAIRMAN MORELOCK: All right. So	23	CHAIRMAN MORELOCK: Yes. Until you
24	I have a motion by Mr. Bowers. Do I have a	24	complete the site visit and all that, you will
25	second?	25	continue on the 20-minute rule.
	Page 32		Page 33
1	Page 32 MR. DEAN: Yes, sir. Thank you	1	Page 33 990,000-square-foot facility.
1 2		1 2	-
	MR. DEAN: Yes, sir. Thank you		990,000-square-foot facility. Our boiler room is located in the
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2 3	MR. DEAN: Yes, sir. Thank you very much. CHAIRMAN MORELOCK: All right.	2 3	990,000-square-foot facility. Our boiler room is located in the back side of our facility and it is not free
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2 3 4 5 6	MR. DEAN: Yes, sir. Thank you very much. CHAIRMAN MORELOCK: All right. That takes us to Item 20-16, Holston Valley Medical Center, requesting a new variance for three high-pressure boilers.	2 3 4 5 6	990,000-square-foot facility. Our boiler room is located in the back side of our facility and it is not free standing. It is attached to the building. We utilize two 500 horsepower, one 600 horsepower Superior air tube boilers to release our steam.
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	Page 34		Page 35
1	This station is constructed of	1	we have efficient operations, so we have adjusted
2	storefront glass. It allows the boiler room	2	our in-house staffing. Now, this is completely
3	operator to look out across the boiler room. It	3	separate from our boiler roof staffing. The
4	also contains our Metasys monitors. We use the	4	in-house staff takes care of the hospital, of
5	Johnson Control Metasys system for monitoring the	5	course, all the departments in the hospital. So
6	alarm conditions of the boiler and to alert our	6	we've adjusted our staffing to have the majority
7	boiler attendant in realtime of any alarm	7	of our staff available during peak times for
8	conditions. In addition to getting an alarm at	8	service requests, which just happens to be first
9	the monitors, it also sends an alarm out to our	9	shift. In doing so, we've had to cut back
10	tech, in case he's outside the boiler room or	10	staffing for second and third shift to one
11	inside the boiler room performing daily tasks.	11	in-house tech.
12	In addition, this station has an	12	So what we're hoping, by gaining the
13	emergency-stop push button for the boilers. And,	13	variance, is to be able to utilize the boiler room
14	again, even though this attendant station provides	14	attendant to assist our second- and third-shift
15	continuous monitoring, our tech is continuously	15	in-house techs just when they need a helping hand.
16	stationed in the boiler room and does physically	16	Like, for example, if the in-house tech needs help
17	visit the boiler on the 20 minutes and conducts	17	with a water leak, then, of course, we would want
18	rounding throughout the boiler itself just to	18	the boiler room tech to leave the boiler room and
19	verify that operations are continuing and are	19	to help him out. But, again, that time period
20	safe.	20	cannot exceed the four hours.
21	So here is the main reason for our	21	And to ensure that we continue with
22	request for the variance. I think we all know	22	monitoring the boilers continuously, we've
23	with other pressures today, there's a lot of	23	prepared, but we've not implemented yet, but we've
24	pressure for to increase or increased	24	prepared a remote monitoring station, which the
25	demands to ensure that we are cost-effective and	25	description is down on page 14 of the boiler room
	Dago 26		Page 37
1	Page 36 variance document. And this remote monitoring	1	Any questions, comments about this
2	station, basically, is located at the front of the	2	variance request?
3	hospital in the lobby/PBX area. It will be	3	- MR. BOWERS: So we've opened
4	staffed 24/7 by the PBX attendant.	4	discussion on this, right?
5	And within that station, we have a	5	CHAIRMAN MORELOCK: I think so.
6	boiler alarm panel which consists of a local alarm	6	MR. BOWERS: Okay. The only
7	indicator light and emergency-stop push button for	<u>-</u>	
	indicator right and emergency stop push button for	7	question I have, I know this is a really big
8		8	
8	each boiler. And, of course, in addition, the PBX attendants will see annual training which consists		question I have, I know this is a really big hospital, and we look at the vast you know, when the boiler operator gets away from there
	each boiler. And, of course, in addition, the PBX	8	hospital, and we look at the vast you know,
9	each boiler. And, of course, in addition, the PBX attendants will see annual training which consists of the location of the emergency boiler shut-down	8 9	hospital, and we look at the vast you know, when the boiler operator gets away from there and four hours is an awful long time to be away
9 10	each boiler. And, of course, in addition, the PBX attendants will see annual training which consists	8 9 10	hospital, and we look at the vast you know, when the boiler operator gets away from there
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1 2			
	Page 38	1	Page 39
1 2	supposed to drop everything and within five	1	MR. BOWERS: Yes, it does. I
	minutes he's going to be back in the boiler room?	2	appreciate that Harold Bowers, again I
3	MR. SPIVEY: Let me clarify what	3	appreciate that.
4	we're wanting to use the boiler room tech for.	4	MR. BAUGHMAN: This is Dave
5	The boiler room tech still will be the primary	5	Baughman, board member.
6	duties of the boiler room. He's coming he	6	Thank you for going over this with
7	would come out of the boiler room if he needed to	7	us, Mr. Spivey. So the alarms we talked about
8	assist one of our in-house techs. In other words,	8	this before and Mr. Morelock had talked about it
9	he would be holding a device or something like	9	in a previous variance today. But the list of
10	that, helping them move something. He would not	10	alarms, I'm showing the attendant station
11	be assigned solo jobs out in the facility.	11	monitoring field controller captures in realtime
12	Now, it may take a little more than	12	the following alarms on page 10. And this is
13	five minutes. You're correct. You know if he's	13	under the attendant station monitoring alarm
14	holding something, got his hand on a water leak,	14	sequence. And so I take it that this is our
15	it may take a little bit more than five minutes,	15	this is our inclusive alarm that gets alarmed out
16	but surely, I believe we could get there within	16	to the monitoring station; is that correct?
17	20 minutes to take care of that boiler. And my	17	MR. SPIVEY: Yes. These are the
18	understanding is what would happen if we had an	18	alarms that occur at the boiler attendant station,
19	alarm condition, at that point in time, our remote	19	we call it. That would be correct.
20	monitoring station would get the alarm, and they	20	MR. BAUGHMAN: And so these alarms
21	will be instructed to immediately push the	21	would then generate an alarm back to the remote
22	emergency-stop, and that boiler that's an alarm	22	station once it's implemented back to the PBX so
23	would be taken offline, and the standby boiler	23	that they could shut the boiler off; is that
24	would come up.	24	correct?
25	Does that sort of make sense?	25	MR. SPIVEY: Yes. They get the
1	Page 40 alarm simultaneously.	1	Page 41 they'll kill the switch and kill it. And it will
2	THE REPORTER: Is that Ben?	2	individually kill each boiler as the alarm comes
3	MR. SPIVEY: Yes, Ben. Yeah, I'm	3	individually kill each boller as the atalli colles
			in They're separated per boiler
4	dorry Thid id Bon	-	in. They're separated per boiler.
4	sorry. This is Ben.	4	MR. BAUGHMAN: So part of this
5	THE REPORTER: Thank you.	4 5	MR. BAUGHMAN: So part of this discussion is because it shows that it captures,
5 6	THE REPORTER: Thank you. MR. BAUCHMAN: Very good. But	4	MR. BAUGHMAN: So part of this discussion is because it shows that it captures, in real time, the following alarms. It's a very
5 6 7	THE REPORTER: Thank you. MR. BAUCHMAN: Very good. But that's the inclusive list of alarms right there,	4 5 6 7	MR. BAUGHMAN: So part of this discussion is because it shows that it captures, in real time, the following alarms. It's a very short alarm detail. And in that, of course, you
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1 \$			- 10
	Page 42 system enunciation. So do you know what	1	Page 43 boiler attendants. I know it says boiler room
	programmers are on these burners?	2	attendant job description, but I didn't see in the
3	MR. JONES: Are you talking about,	3	job description itself it identifying boiler
	like, the Honeywell burner control?	4	attendants.
5	MR. BAUGHMAN: If it's Honeywell,	5	MR. SPIVEY: This is Ben.
6 3	yes, sir.	6	Yes, sir. The job descriptions that
7	MR. JONES: If the fuel air	7	we have in place all throughout Ballad Health are
8 0	controls Honeywell, it's all Honeywell.	8	Tech 1, Tech 2, and Tech 3, and then it's a lead
9	MR. BAUGHMAN: Okay.	9	tech. And so, basically, we don't have an
10	MR. JONES: That's all factory.	10	official job description through Ballad Health for
11 A	And all we did was series in that high limit with	11	a boiler room operator.
12 t	this and brought that into a Johnson Control	12	We did list the duties of the boiler
13 s	system. All that stuff was already there and the	13	room operator, but the physical job description,
14 5	Johnson Controller came in as central alarm to the	14	we do not have one specific to a boiler room
15 3	Johnson Control system. The boiler was shut down.	15	operator within our system.
16 V	We used to get a binary input into that control	16	MR. BAUGHMAN: Okay. Well, I'll
17 v	where that told you that you had a boiler alarm.	17	leave that for further comment on how to address
18 1	Then you would have to go in there and read the	18	that under his job description. Because if that's
19 F	Honeywell controller. But that's the same thing.	19	his job description, it needs to be part of his
20 1	It'll page out to these guys. It's going to page	20	actual description, in my mind. But we'll leave
21 i	it out to them when they get it.	21	that to further discussion.
22	MR. BAUGHMAN: Going to page 36,	22	So when will this PBX remote
23 I	Appendix H, this may be a minor detail, but in the	23	monitoring system actually be implemented?
24	job description, I couldn't find anywhere in that	24	MR. SPIVEY: This is Ben.
25	job description where it specifically identified	25	It's ready to go. We have trained
1 t	Page 44 the PBX operators, but we will not implement until	1	Page 45 thank you very much.
	the board gives us approval for the variance.	2	MR. SPIVEY: Thank you, sir.
3	MR. BAUGHMAN: So without the	3	CHAIRMAN MORELOCK: Thank you,
4 a	approval for the variance, even though they've	4	Mr. Baughman. I, too, noted the lack of
5 k	been trained and it's in place, it wouldn't be	5	description for the boiler attendant requirements
6 i	implemented?	6	and the job description. On page 38, you'll also
7	MR. SPIVEY: That's correct, sir.		
1 '		7	see that there's no remote attendant duties as
	We'll keep our boiler right now we're 24/7 in	8	see that there's no remote attendant duties as well. And I understand the reply you've given
8 V	We'll keep our boiler right now we're 24/7 in the boiler room and we will be 24/7 in the boiler		
8 V 9 t		8	well. And I understand the reply you've given
8 V 9 t 10 r	the boiler room and we will be $24/7$ in the boiler	8 9	well. And I understand the reply you've given back to us concerning that, but whether it's in a
8 V 9 t 10 r 11 k	the boiler room and we will be 24/7 in the boiler room continuing. It's just that we would like to	8 9 10	well. And I understand the reply you've given back to us concerning that, but whether it's in a standardized job description, the hospital has
8 V 9 t 10 r 11 k	the boiler room and we will be 24/7 in the boiler room continuing. It's just that we would like to be able to pull that guy out to help whenever we	8 9 10 11	well. And I understand the reply you've given back to us concerning that, but whether it's in a standardized job description, the hospital has developed, you could also put that verbiage in
8 V 9 t 10 r 11 k 12 r 13	the boiler room and we will be 24/7 in the boiler room continuing. It's just that we would like to be able to pull that guy out to help whenever we needed help sometimes.	8 9 10 11 12	well. And I understand the reply you've given back to us concerning that, but whether it's in a standardized job description, the hospital has developed, you could also put that verbiage in this manual in referring to the people who will
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8 V 9 tt 10 r 11 k 12 r 13 14 a 15 x 16	the boiler room and we will be 24/7 in the boiler room continuing. It's just that we would like to be able to pull that guy out to help whenever we needed help sometimes. MR. BAUGHMAN: Very good. That's all that I've got for now. Both of you, thank you very much for your input.	8 9 10 11 12 13 14 15	well. And I understand the reply you've given back to us concerning that, but whether it's in a standardized job description, the hospital has developed, you could also put that verbiage in this manual in referring to the people who will fill the roles of the boiler attendant and a remote monitor. MR. SPIVEY: This is Ben.
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	Page 46		Page 47
1	that will add clarity to your manual would be		visit, they'll want to see those.
2	very, very helpful.	2	MR. SPIVEY: Okay.
3	MR. SPIVEY: Okay.	3	CHAIRMAN MORELOCK: I think that's
4	CHAIRMAN MORELOCK: Because you're	4	all the questions that I have. What other
5	looking at their duties as well as their training	5	questions does the board members have for this
б	and all of that. And I know you have sections for	6	variance?
7	boiler attendant and remote monitor, so just make	7	MR. BAUGHMAN: This is Dave
8	sure that those are really clear, as far as the	8	Baughman, board member. I'm back again.
9	descriptions for that.	9	But I was interested to know on the
10	MR. SPIVEY: Yes, sir.	10	alarm sequence I know we've got low-water
11	CHAIRMAN MORELOCK: Looking on	11	alarms, but I'm interested to know which one
12	page 5, I appreciate the boiler data. And I	12	the boiler is required to have two which alarm,
13	think yeah, I think that's pretty like	13	actually, will enunciate back to the station?
14	Mr. Baughman said, typically, we'll see some data	14	Will it be the primary or the secondary which is
15	on a DA as well. I think so you do have	15	the manual reset?
16	placards showing emergency procedures in the	16	MR. SPIVEY: Okay. I am going to
17	remote monitoring station?	17	let Greg answer that one for us.
18	MR. SPIVEY: This is Ben.	18	MR. JONES: Would you mind
19	Have we got those up yet, Greg?	19	repeating that please?
20	MR. JONES: No, not yet.	20	MR. BAUGHMAN: Yes, sir. Being the
21	MR. SPIVEY: No, we haven't put	21	boiler has two low-water cutoffs, a primary and a
22	those up yet, sir.	22	secondary, the secondary is a manual reset. The
23	CHAIRMAN MORELOCK: Okay. So	23	primary is not. It's an automatic reset. But
24	you'll need to get those up as part of your	24	which one of those two would enunciate back to the
25	approved variance. When they make the field	25	remote monitoring station?
	Page 48		Page 49
1	MR. JONES: Any alarm that was	1	
1 2	MR. JONES: Any alarm that was originally from the boiler that will shut it down,	1 2	description from PBX? MR. BAUGHMAN: On page 38, yes. I
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2	MR. JONES: Any alarm that was originally from the boiler that will shut it down,	2	description from PBX? MR. BAUGHMAN: On page 38, yes. I
2 3	MR. JONES: Any alarm that was originally from the boiler that will shut it down, we pick that up on their alarm Comtex. Okay? And	2 3	description from PBX? MR. BAUGHMAN: On page 38, yes. I did not know that was a generic description. I
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	Dage 50		Deres 51
1	Page 50 that more if you want to.	1	Page 51 that question from there. Thank you.
2	CHAIRMAN MORELOCK: Okay. Mr. Toth	2	CHAIRMAN MORELOCK: Thank you,
3	has raised his hand so I will give him the floor.	3	
4	MR. TOTH: Thank you, Mr. Chairman.	4	What follow-up does the board members
5	This is Marty Toth with ECS Consulting.	5	-
6		6	MR. BOWERS: This is Harold Bowers,
-	I have a question just concerning	7	
7	precedence moving forward. And I have a question		board member.
8	concerning the connection between the boiler,	8	More of a comment than a question. I
9	Johnson Control, and the remote station. And my	9	know we do a lot of these variances and we do a
10	question is are they going directly from the	10	lot of hospitals, but I wanted to stress to Ben
11	Honeywell system I assume it's maybe an R and	11	and his staff that, you know, there's a lot more
12	7800 going into the Johnson Control system?	12	that can go on in a boiler room that would not
13	And is that Johnson Control system a network	13	cause a sensor to go off and be acknowledged. And
14	connection to the remote station?	14	four hours is the maximum that we look at. Which
15	MR. JONES: Okay. This is Greg.	15	you're going from full-time operators to people
16	It's not coming directly from the	16	running around the hospital, and so much can go
17	Honeywell. The Honeywell is an alarm, and we pick	17	wrong in that boiler room. And the longer you're
18	it up off the panel. Because we're sending out	18	away, the more that can happen.
19	24 volts but we can't fix them. So what happens	19	An example, we had one hospital that
20	is it energizes a relay and brings it in to the	20	had a blow-out around the nozzle. The flame was
21	Johnson Controls alarm. And it is networked	21	coming out three foot. Well, there was no alarm
22	between the power plant and the switchboard. It's	22	that went off. There was nothing that went off.
23	on the Johnson Control network.	23	The operator happened to come by at his four-hour
24	MR. TOTH: Okay. That's what I was	24	walk-through and see it. And, of course, he was a
25	concerned with. And I'll let the board handle	25	security guard and didn't know exactly what to do.
23		20	Security guard and drain to show charter where to do.
	Dage 53		Dage 53
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	D 54		
1	Page 54 THE REPORTER: You cut out on the	1	Page 55 THE REPORTER: It's hard to hear
2	last few words, "does the Medisys then have a"	2	Mr. Jones, also.
3	MR. BAUGHMAN: Yeah. I just saw	3	MR. BAUGHMAN: Okay. Good. And
	-		just so for clarification, that e-stop is actually
4	where it popped up "internet connection unstable."	4	
5	The question being does the e-stop or	5	hardwired from the boiler room back to the PBX.
6	the alarm that's generated by the Medisys back to	6	MR. JONES: Yes. The emergency
7	the PBX remote station, is that generated back	7	stop is hardwired at the controller at the PBX.
8	through the internet or ethernet or intranet onto	8	It receives it as a binary input, and then it goes
9	the computer, or is it is that e-stop a	9	on that hardwire trunk and sends that signal to
10	different mechanism, i.e., hardwired, or what's	10	the power plant, to the boiler, and shuts it off.
11	the mechanism for it?	11	It will turn the
12	MR. JONES: Sir, it's hardwired	12	MR. BAUGHMAN: Via the
13	between the network controller, the Johnson	13	MR. JONES: It will power the
14	Control network controller and the power plant.	14	boiler down.
15	It receives the alarm and it's hardwired there on	15	MR. BAUGHMAN: Okay. But that's
16	the communication trunk over to the hospital.	16	via the relay; is that correct?
17	Okay? And it's also that controller and the	17	MR. JONES: That relay is in series
18	PBX is on the same trunk. That's where it	18	with the power to the controller room downstairs.
19	receives that alarm, that controller. Then the	19	When it energizes that relay, it shuts the boiler
20	e-stop is up at the PBX, and they'll initiate it	20	off.
21	manually. It has to be reset. Then it will send	21	MR. BAUGHMAN: Very good. So in
22	a signal right back out on the same hardwired	22	this variance, part of the procedure is going to
23	trunk.	23	be every four hours or whatever the stipulation
24	THE REPORTER: Is that Mr. Jones?	24	is, you're going to be checking to make sure that
25	CHAIRMAN MORELOCK: Yes.	25	that's all functional so that if we have a failure
			De
1	Page 56 with the relay, which man made it, and at some	1	Page 57 MR. JONES: Okay. When the Johnson
1	with the relay, which man made it, and at some	1	MR. JONES: Okay. When the Johnson
2	with the relay, which man made it, and at some point in time it's not perfect it will fail,		MR. JONES: Okay. When the Johnson controller sends that alarm, it automatically
2 3	with the relay, which man made it, and at some point in time it's not perfect it will fail, but there's a mechanism so that we're testing that	2	MR. JONES: Okay. When the Johnson controller sends that alarm, it automatically the power plant gets its own alarm
2 3 4	with the relay, which man made it, and at some point in time it's not perfect it will fail, but there's a mechanism so that we're testing that relay and total system as the manual specifies.	2 3 4	MR. JONES: Okay. When the Johnson controller sends that alarm, it automatically the power plant gets its own alarm THE REPORTER: I'm so sorry,
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	Page 58		Page 59
1	I think to add to that, what we're	1	CHAIRMAN MORELOCK: Okay. I've got
2	saying is at the PBX, they get the alarm	2	a motion from Mr. Bowers. Do I have a second?
3	simultaneously, and the PBX does their phone	3	MR. HENRY: Second.
4	calls, basically. And, also, the boiler room	4	CHAIRMAN MORELOCK: I've got a
5	attendant is getting the beep or the pager at the	5	second from Mr. Henry. Any more questions,
б	same time. That was sort of our backup or our	6	comments, or further discussion?
7	redundancy for that.	7	(No verbal response.)
8	MR. JONES: And if we switch to	8	CHAIRMAN MORELOCK: Okay. Hearing
9	cell phones in the future, we can text the cell	9	none, I am going to have a roll call vote.
10	phone, too. It has the capability of doing either	10	Mr. Baughman?
11	one of them. But right now, we're on the paging	11	MR. BAUGHMAN: Aye.
12	system with that. We have a pager.	12	CHAIRMAN MORELOCK: Mr. Bowers?
13	MR. O'GUIN: Okay. Thank you.	13	MR. BOWERS: Aye.
14	CHAIRMAN MORELOCK: Any other	14	CHAIRMAN MORELOCK: Mr. Henry?
15	questions or comments?	15	MR. HENRY: Aye.
16	(No verbal response.)	16	CHAIRMAN MORELOCK: Thank you,
17	CHAIRMAN MORELOCK: Hearing none,	17	gentlemen. You have a tentatively approved
18	do I have a motion for tentative approval of this	18	variance based upon a site visit from the Boiler
19	variance based upon revisions to the manual to	19	Unit. Make the necessary corrections to your
20	address board member comments and comments during	20	manual and get that to the Boiler Unit as well.
21	the discussion today, as well as a successful site	21	And thank you for your time and your presenting
22	visit by the Boiler Unit?	22	this item.
23	MR. BOWERS: This is Harold Bowers,	23	MR. SPIVEY: Thank you, board
24	board member.	24	members.
25	I'll go ahead and do that motion.	25	CHAIRMAN MORELOCK: I'm showing
-			
	Page 60		Page 61
1	Page 60 almost 10:15, and I would like to let everybody	1	
	5	1 2	
	almost 10:15, and I would like to let everybody		a request that 50 vessels be classified as
2	almost 10:15, and I would like to let everybody have a ten-minute break before we take our last	2	a request that 50 vessels be classified as Tennessee Specials. So before they begin this
2 3	almost 10:15, and I would like to let everybody have a ten-minute break before we take our last business item. So be back by 10:25.	2 3	a request that 50 vessels be classified as Tennessee Specials. So before they begin this presentation, does any board member have a
2 3 4	almost 10:15, and I would like to let everybody have a ten-minute break before we take our last business item. So be back by 10:25. MR. JOHNSON: This is Chris from	2 3 4	a request that 50 vessels be classified as Tennessee Specials. So before they begin this presentation, does any board member have a conflict of interest on this item?
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	Page 62		Page 63
1	vessels be given Tennessee Special recognition so	1	However, if the Board chooses to make these
2	that they can operate them on their presses. I	2	vessels Tennessee Specials, what that will mean to
3	could not find anything wrong with the	3	LG is that yes, they can operate the vessels. The
4	calculations or anything else. It seems to be	4	nameplate will be the will show a State of
5	more of a clerical error on the fabricator's part.	5	Tennessee outline with the "Special" stamped under
6	I've discussed with the plant, the plant manager	6	it to show that it is a Tennessee Special.
7	and the plant engineer, as to what a Tennessee	7	The only thing that I would clarify
8	Special means, as far as they are not allowed to	8	is that all repairs would have to be approved by
9	repair these vessels without the board's	9	the Boiler Unit itself. Only the alterations
10	permission, and that if you-all don't approve	10	would have to come to the Tennessee Board for
11	them, then these vessels would have to be	11	board approval.
12	replaced, which as you understand, would be a very	12	But still, that's a little bit more
13	expensive and costly proposal, as far as their	13	work than just your typical R-stamp repair. So
14	operations. So we're asking that you approve	14	the only thing I would since it is the
15	these vessels for Tennessee Special status.	15	Christmas season, the only thing I can share with
16	CHAIRMAN MORELOCK: Thank you,	16	you that might be helpful is and I'll let
17	Mr. Butler.	17	Mr. Bailey back me up on this but if you read
18	So to clarify what a Tennessee	18	Tennessee law 68-122, and you come to 68-122-105,
19	Special entails is it is a vessel that either	19	which is exemptions for boilers and pressure
20	doesn't have an ASME mark or and/or not	20	vessels, and you go down and read Item 5, Item 5
20	registered with the National Board. National	20	states, "Unfired pressure vessels having a volume
22	Board publication 264 clearly states that that		of five cubic feet or less are exempt.
		22	-
23	registration has to happen within 30 days of	23	So if you take those 50 vessels and
24	completing the manufacture of that vessel, which	24	you calculate the volumes of those vessels and
25	is really unfortunate that they did not do that.	25	granted, if you look through that gigantic book,
1	Page 64	1	Page 65
	most of the dimensions are metric so five cubic	1	and on these presses, the air, basically, shifts
2	most of the dimensions are metric so five cubic feet is the equivalent of 0.141584 cubic meters.	2	and on these presses, the air, basically, shifts from the top part of the press to the low part of
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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	most of the dimensions are metric so five cubic feet is the equivalent of 0.141584 cubic meters. And so the good news is I did calculate the volumes of these 50 vessels, and 23 of these vessels are exempt. So that will take your Tennessee Special list and cut it almost in half. You would end up with 27 vessels that would need to be Tennessee Specials instead of 50. So, Mr. Butler, the only thing I could not find is I could not find one of the vessels in the package. And I can show you where that is, but it's GS-1712-11, which the nameplate is A-1709. There's not a U-1 or a nameplate in the package for that particular vessel. So I don't know I don't know where that vessel is. The U-1s have multiple vessels on each U-1, so as far as being covered by the U-1, it's there, but I don't see a nameplate for one in there. So that takes you to 49 vessels. And so, you know, these I guess, just for the sake my sake and the Board's sake is what will these vessels be used for? MR. BUTLER: The use of these	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	and on these presses, the air, basically, shifts from the top part of the press to the low part of the press. CHAIRMAN MORELOCK: Okay. MR. BUTLER: They're all air vessels, as far as that goes. If you're familiar with, like, Nissan or some of those plants, they use the same type presses. So to operate the presses, it's just air tanks, air surge tanks, that shift air from the top portion to the lower portion of the press. CHAIRMAN MORELOCK: Okay. MR. BOWERS: This is Harold Bowers, board member. Is there bladders inside those tanks? MR. BUTLER: No, sir, there's not. MR. BAUGHMAN: This is Dave Baughman, board member. I noticed no relief protection information is on any of these data reports. But there is a note at the very bottom of each U-1a report that the over-pressure protection will be provided by the user. So that's something that

			0009
	Page 66		Page 67
1	it's being provided by the user, that it's and	1	· · · · · · · · · · · · · · · · · · ·
2	it's not in the data report, that it is the proper	2	the nameplate, it says hydrotest pressure at
3	over-pressure protection for these units.	3	0.891-megapascals.
4	CHAIRMAN MORELOCK: Mr. Baughman,	4	But if you look adjacent to that
5	unlike a boiler, unfired pressure vessels, you'll	5	page, all of these vessels were pneumatically
6	typically see in the remarks section on the U-1	6	tested. They were not hydrotested. And the 891
7	that it's the owner's responsibility to provide	7	is incorrect because it doesn't match the
8	over-pressure protection per UG-125 to UG-140. So	8	pneumatic pressure on the U-1. Because 891 would
9	that's not uncommon to see that.	9	be a hydro let's see. I'm sorry. They're
10	I do have I do want to show you an	10	pneumatically testing it at 892, but if you look
11	example, Mr. Butler. If you will go to Section 4	11	back on the previous pages from the nameplate and
12	of this book, and if you'll look at the nameplate	12	look at the pressure test report, it clearly says
13	for $A-17-02$ , and let me know when everybody is	13	it was pneumatically tested, not hydro'd, so that
14	there, when they've found that page.	14	nameplate is wrong. And there's several of those
15		15	nameplates that are wrong, and they need to be
16	MR. BUTLER: What was that page number again?	16	corrected. And the stamping needs to be corrected
17	CHAIRMAN MORELOCK: It's in	17	some way, somehow.
18	Section 4. And it will be the first nameplate	18	I don't know if the company can fix
	-		
19 20	that you come to, which is A-17-02.	19	their errors on the nameplates and send you new
	MR. BUTLER: All right.	20	nameplates and let them be swapped out with the
21	CHAIRMAN MORELOCK: Are you there?	21	authorized inspector or what. But there are
22	MR. BUTLER: Yes, sir.	22	several instances in this book where the U-1 and
23	CHAIRMAN MORELOCK: Okay. If	23	the nameplate does not match. So and that's a
24	you'll put your finger in that and then go back to	24	boiler unit issue more than a board, because we're
25	the associated U-1, which is the next page after	25	not asking anything to be changed. We're just
1	Page 68 they would find it, if they went and did their own	1	Page 69 Christmas and New Years, so I can actually go back
2	inspection, once they looked at the documentation	2	up there and visit those vessels and make sure
3	and the nameplate, they would see that it's not	3	everything is correct on them. And, also,
4	correct.	4	which Michael, the engineer, can hear us, so
5	MR. BUTLER: Yes, sir. I see that.	5	he just cannot respond
6	I guess I didn't compare that because that wasn't	6	CHAIRMAN MORELOCK: Okay.
7	on the official ASME nameplate. So that's kind of	7	MR. BUTLER: We will work with the
8	a the nameplate specifying the actual vessel	8	Korean company to get replacement nameplates or at
9	itself, which they should be able to provide new	9	least pull those nameplates off and restamp them
10	nameplates for that since it's not a code	10	with the proper pressure.
11	nameplate. That portion of it is not.	11	CHAIRMAN MORELOCK: Okay. That
12	CHAIRMAN MORELOCK: Yeah, that's	12	would be very helpful.
13	you're correct on that. That's correct. They	13	So I'm not going to speak for the
14	can. We just need to make sure that the data is	14	Boiler Unit, but I think once those corrections
15	correct. But you're right about that.	15	are made, and, like I said, back-check my math,
16	So I guess, Keith, since you're the	16	but it should be you should have only 27
17	engineering arm of this request, are you going to	17	vessels that would need to be 26 or 27 vessels
18	work with LG to get the nameplates corrected, and	18	that would need to be Tennessee Specials, not 50.
19	are you going to go back and verify which vessels	19	MR. BUTLER: Okay.
20		20	CHAIRMAN MORELOCK: And, like I
	are exempt and which vessels need to be Tennessee		
21	Specials?	21	said, if you go to oh, let's see. Let me see
22	MR. BUTLER: Yes, sir, I can do	22	if I can tell you what section it's in.
23	that. A lot of these vessels, like I said, are on	23	MR. BUTLER: I knew some of them
24	top of presses which were operating while I was	24	were kind of small, as far as the volume of them.
25	there. They will be shut down the week between	25	CHAIRMAN MORELOCK: Yes. I'm
20			

Page 70 1 trying to find which one has got the missing 2 nameplate in it. 3 MR. BUTLER: I think you said it 4 was Number 11. 5 CHAIRMAN MORELOCK: Well, it's 6 GS-17-12-11. I'm trying to figure out what 7 section of the book that's in. Page 70 1 I have to admit I'm kind of ignorant of all 2 rules. And I know you, Brian, at Eastman 3 probably run into situations and I know you 4 explained that on the Tennessee Specials. 5 Who would actually register these units? 6 be the state inspector? Sam would go out 7 and check the safety valves to make sure the saf	
1trying to find which one has got the missing1I have to admit I'm kind of ignorant of all2nameplate in it.2rules. And I know you, Brian, at Eastman3MR. BUTLER: I think you said it3probably run into situations and I know you4was Number 11.4explained that on the Tennessee Specials.5CHAIRMAN MORELOCK: Well, it's5who would actually register these units?6GS-17-12-11. I'm trying to figure out what6be the state inspector? Sam would go out7section of the book that's in.7and check the safety valves to make sure to	ll the
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6 GS-17-12-11. I'm trying to figure out what6 be the state inspector? Sam would go out7 section of the book that's in.7 and check the safety values to make sure	Now,
6 GS-17-12-11. I'm trying to figure out what6 be the state inspector? Sam would go out7 section of the book that's in.7 and check the safety values to make sure	Would it
7 section of the book that's in. 7 and check the safety values to make sure t	
8 MR. BUTLER: That should be in 8 the standards of the vessel? Or how does	-
9 Section 8. 9 this whole process come about? Could you	
10     CHAIRMAN MORELOCK: Maybe so.       10     CHAIRMAN MORELOCK: Maybe so.	CAPIUIII
	Sam and
12 nameplate. That's what I'm missing. I've got 7, 12 Chris would probably be better versed. Bu	
13 8, and 10. So yeah, you're right; it's in 13 either going to have to be their insurance	
14 Section 8, and it's the last two pages in the 14 inspector or a state inspector or somebody	
15 book. You see the nameplate for 7 and 8, and then 15 they've written a contract to do their ins	spection
16 the back page is 10, and there is no nameplate for 16 work for them to get that work done and the	
17   9.     17   submit it to the State for a certificate of	of
18 MR. BUTLER: Okay. 18 inspection.	
19CHAIRMAN MORELOCK: And that's all19And, Sam, correct me if I've	left
20 the questions and comments I have. 20 anything out.	
21 What questions and comments do the 21 MR. CHAPMAN: It is a state	9
22 board members, have? 22 inspector that will be doing that, perform	ning that
23 MR. BOWERS: Yeah. This is Harold 23 inspection.	
24 Bowers, board member. 24 CHAIRMAN MORELOCK: So like	e I said,
25 When it comes to Tennessee Specials, 25 the good news is, it's going to be about h	nalf of
Page 72	Page 73
1 what you thought you were going to have to 1 that vessel?	-
2 inspect, so that's good. 2 CHAIRMAN MORELOCK: Yeah.	You'll
3 MR. BOWERS: This is Harold Bowers 3 have a Tennessee Special stamp applied, and	nd then
4 again. 4 the Boiler Unit will number it. And they	'll keep
5 So you were also saying any repairs 5 a record of their they've got a list of	their
6 on these vessels, it's different than doing a just 6 Tennessee Special vessels.	
7 regular Section 8 vessel, correct? You'd have to 7 MR. BOWERS: Well, this is	
8 go back before the Board to do any repairs; is 8 definitely a learning experience for me, B	Decause
8 go back before the Board to do any repairs; is 9 that correct? 8 definitely a learning experience for me, b 9 I've never dealt with, really, any Tenness	
9 that correct? 9 I've never dealt with, really, any Tenness	
9 that correct?9 I've never dealt with, really, any Tenness10CHAIRMAN MORELOCK: That's not10 Specials.	see
9 that correct?       9 I've never dealt with, really, any Tenness         10       CHAIRMAN MORELOCK: That's not         11 correct. Any repairs, you would have to receive       11         CHAIRMAN MORELOCK: Well, ::	see it's not
9 that correct?9 I've never dealt with, really, any Tenness10CHAIRMAN MORELOCK: That's not11correct. Any repairs, you would have to receive12permission from the State of Tennessee, from the12frequent. We have instances where we've have	see it's not nad
9 that correct?9 I've never dealt with, really, any Tenness10CHAIRMAN MORELOCK: That's not11correct. Any repairs, you would have to receive12permission from the State of Tennessee, from the13Chief Inspector, for a repair. An alteration9I've never dealt with, really, any Tenness10CHAIRMAN MORELOCK: That's not11CHAIRMAN MORELOCK: Well, st12permission from the State of Tennessee, from the13Chief Inspector, for a repair. An alteration	see it's not nad cate of
9 that correct?9 I've never dealt with, really, any Tenness10CHAIRMAN MORELOCK: That's not11correct. Any repairs, you would have to receive12permission from the State of Tennessee, from the13Chief Inspector, for a repair. An alteration14would have to be brought to the Tennessee Board	see it's not nad cate of at's not
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9 that correct?9 I've never dealt with, really, any Tenness10CHAIRMAN MORELOCK: That's not11correct. Any repairs, you would have to receive12permission from the State of Tennessee, from the13Chief Inspector, for a repair. An alteration14would have to be brought to the Tennessee Board15for review and approval.16MR. BOWERS: This is Harold Bowers	t's not ad tate of at's not ad, as see
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9that correct?9I've never dealt with, really, any Tenness10CHAIRMAN MORELOCK: That's not10Specials.11correct. Any repairs, you would have to receive11CHAIRMAN MORELOCK: Well, :12permission from the State of Tennessee, from the12frequent. We have instances where we've H13Chief Inspector, for a repair. An alteration13vessels that have been brought into the st14would have to be brought to the Tennessee Board14Tennessee, and they were built to code that15for review and approval.15ASME, and so those are brought to the Board16MR. BOWERS: This is Harold Bowers16well, for review and approval as a Tenness17again.17Special. And the inquirer has to show that18So any repairs would have to go18have done calculations to assure the State	t's not nad tate of at's not rd, as see at they
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	Page 74		Page 75
1	MR. BOWERS: This is Harold Bowers.	1	Tennessee Special.
2	Also, too, as the I know all of	2	MR. BUTLER: I agree with that. I
3	the measurements are in metric. The safety	3	mean, I haven't done every one of them, but the
4	valves, would they all be in metric, too?	4	8-inch pipes and it seems like some of them may
5	Matching those numbers up to make sure everything	5	have been 6.
6	is, you know I guess there's a way that people	6	CHAIRMAN MORELOCK: Yeah. You've
7	smarter than me can figure it out, going from one	7	got a mix
8	to another, but just that question there.	8	MR. BUTLER: There are eights and
9	CHAIRMAN MORELOCK: Yes. And I	9	tens. There were several of them there that were
10	didn't do any relief valves. But like I said,	10	small.
11	5 cubit feet is 0.41584 cubit meters. So when you	11	CHAIRMAN MORELOCK: Yeah. You've
12	look at these vessels, you can see what's exempt	12	got a range of 8 to 18.
13	and what's not. So, like, if you just look at the	13	MR. BUTLER: All right.
14	vessels in Section 1, they're basically made out	14	CHAIRMAN MORELOCK: You've got some
15	of 8-inch pipe. And the shell length is 13 and	15	that are 18-inch pipe, 10-inch pipe, 16-inch pipe,
16 17	3/4, so you do a simple volume calculation, and it	16	and 8-inch pipe. And then depending on the shell
18	comes out to be .4 cubic feet, which is far less than 5 cubic feet. And it would be .0113 cubic	18	length, they vary a little bit. So I quess my question is
18	meters if you let Excel Excel will do	18	SO I guess my question is MR. TOTH: Mr. Chairman?
20	conversions for you automatically if you'll set up	20	CHAIRMAN MORELOCK: how do you
21	the cell to do that.	21	want to proceed Mr. Butler?
22	But I want Mr. Butler to verify,	22	MR. BUTLER: Well, I guess, I need
23	because my numbers were done in haste. But, like	23	to go back and the descriptive nameplates, I need
24	I said, it looks to me like about 23 of those	24	to get that taken care of so that they match the
25	vessels would be exempt from having to be a	25	actual
	Page 76		Page 77
1	CHAIRMAN MORELOCK: Yeah, the	1	we can get them designated that today so we can
2	and the test reports as well.	2	get this out of the way.
3	MR. BUTLER: I would check with the	3	CHAIRMAN MORELOCK: Well, you're
4	plant. I know sometimes plants are, like, well,	4	going to have to designate them. That's a
5	I've got a code vessel, and, you know, I want it	5	conflict of interest for me to designate them.
6	to be correct. As it's exempted under the cubic	6	MR. BOWERS: This is Harold Bowers,
7	foot volume, I would like to just drop those out		boiler inspector.
8	and not worry about them, and just submit those	8	Wouldn't it be that it would fall
9	for Tennessee Special status that are or have	9	back to, actually, the chief looking at each
10	to be. That way I don't have to keep the plant	10	individual vessel to see if they passed muster
11	won't have to keep up with them as close. I know	11	without us wholesaling and saying, hey, these are
12	there are safety relief valves on the system	12	all Tennessee Specials? I'm not sure, exactly,
13	themselves that have been set for the proper	13	how that works.
14	pressure ratings. Those have been verified on the	14	CHAIRMAN MORELOCK: Well, it's a
15 16	systems, so, I mean, they're actually looking at	15 16	good question, Mr. Bowers. And before I forget, Mr. Toth had a comment and I need to let him make
17	going through and recertifying all the relief valves on those.	17	Mr. Toth had a comment, and I need to let him make that comment.
18	I didn't know if this was going to be	18	MR. TOTH: Thank you, Mr. Chairman.
19	a stickler, that we have to come back in three	19	Just something that Mr. Bowers had alluded to and
20	months to revisit this or not, since they're being	20	just to help out with some education, if you go
20	designated as Tennessee Specials, if you're going	21	look under board cases and interpretations, you
22	to have to have us come back in three months.	22	will find a couple that may help shine a little
23	CHAIRMAN MORELOCK: Well, we	23	bit of light. One would be the question about
24	don't	24	authorization for repairs or repair for
1			
25	MR. BUTLER: Or it would be nice if	25	alterations. That's going to come that

7				R	1
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Page 78 verbiage is going to come directly from BI 04-22 that pretty much stipulates what Mr. Chairman had mentioned that repairs are authorized by the Boiler Unit, i.e., the Chief Inspector. Alterations are submitted to the board, such as you would a variance or this 45 days ahead of time. The other one that you may want to take a look at is also BC 05-22. And that one	1 2 3 4 5 6 7	Page 79 CHAIRMAN MORELOCK: Thank you, Mr. Toth. MR. BAUGHMAN: Mr. Morelock, this is Dave Baughman, board member. I'm kind of in the same position with Harold on my newness and lack of particular
verbiage is going to come directly from BI 04-22 that pretty much stipulates what Mr. Chairman had mentioned that repairs are authorized by the Boiler Unit, i.e., the Chief Inspector. Alterations are submitted to the board, such as you would a variance or this 45 days ahead of time. The other one that you may want to	2 3 4 5 6	CHAIRMAN MORELOCK: Thank you, Mr. Toth. MR. BAUGHMAN: Mr. Morelock, this is Dave Baughman, board member. I'm kind of in the same position with
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you would a variance or this 45 days ahead of time. The other one that you may want to	6	-
time. The other one that you may want to		Harold on my newness and lack of particular
The other one that you may want to	7	
		knowledge within the Tennessee Specials on unfired
take a look at is also BC OF 22. And that are	8	vessels. We've been involved with the Board but
LARE A LOOK AL IS ALSO DE US-22, ALLA LLAL ONE	9	not so much on the unfired vessels. The numbers,
covered more of a lost data plate, where if you	10	in particular, the design criteria, are those
lost illegible or something of that nature	11	numbers actually stamped in these vessels along
	12	with the data plate, or is it just on the data
	13	plate itself?
Board went that route back in 2005 was because the		CHAIRMAN MORELOCK: It's on the
		nameplate like you see in the book here. When you
		see the nameplate report, that's an actual photo
		of what's been placed on the vessel. And ASME
		allows that to be either stamped into the vessel
	-	itself, or it can be put on a nameplate that can
-		either be welded or screwed or even adhesively
_		attached to the vessel per Section
		MR. BAUGHMAN: Okay. And very
		good. I was under the interpretation that the
_		nameplate was a facsimile or a representation of
		what was actually stamped in the vessel itself.
	25	what was actually stamped in the vessel itself.
	1	Page 81 goes in, I can see him scratching his head doing
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		-
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1 5		years coming forward, and so I just wanted to make
		sure that as they were looking at something, I'm
-		anticipating that everything is correct. But for
		the ease of the inspectors is why I was asking
•		that question. So on this Tennessee Special number,
		where will it get attached or how does it get
		attached to the unit? It's I mean, we've seen
		numbers attached to units in different ways over
		the years, anything from writing it on with a
		permanent marker to attaching it with a label to
not get up on top of the press close enough to	16	actually stamping a vessel. What's the protocol
	17	for attaching a Tennessee Special number on the
read those labels myself. I would have to	10	
verify I mean, as long as they're set for the	18	vessel?
verify I mean, as long as they're set for the right pressure, it shouldn't matter if they're in	19	CHAIRMAN MORELOCK: I will defer to
verify I mean, as long as they're set for the right pressure, it shouldn't matter if they're in metric or American standards. Most of these are	19 20	CHAIRMAN MORELOCK: I will defer to the Boiler Unit since they're the people who
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	put it did kind of go into the processes regarding a Tennessee Special. And the reason why we the Board went that route back in 2005 was because the definition that you're going to find in .03 of the bode, the rules and regulations and the definition of the Tennessee Special all pointed and that's going to be paragraph 6 of .03 is going to really discuss items that are to come into the state prior to construction. And so that's where the Board did a board case instead of a board interpretation back in 2005. And if you read over those two, I think you'll kind of see a little bit of an understanding of where the history of that came from. Page 80 So that is not actually correct. CHAIRMAN MORELOCK: Not for unfired pressure vessel, no. MR. BAUCHMAN: Very good. And I snow Mr. Bowers alluded to the conversion of metric to our system here in the U.S., predominantly. But making those calculations, in particular, for the relief valves. Which Mr. Butler said the relief valves have already poeen are on the vessels. My question being are those relief valves in metric settings or are they in standard pois settings? MR. BUTLER: I would have to check with the plant. I know they're there. I could	A Tennessee Special. And the reason why we the Board went that route back in 2005 was because the definition that you're going to find in .03 of the scode, the rules and regulations and the definition of the Tennessee Special all pointed and that's going to be paragraph 6 of .03 is going to really discuss items that are to come into the state prior to construction. And so that's where the Board did a board case instead of a board interpretation back in 2005. And if you read over those two, I think you'll kind of see a little bit of an understanding of where the history of that came from.

	Page 82		Page 83
1	stickers I mean tags. So we have to come up	1	That's one factor I'm concerned about down the
2	with some of them again, because we're all out of	2	road unless the plant has a conversion. Or, you
3	them. Because we normally have SP and then the	3	know, we could figure it out ourselves, but it
4	Tennessee, too. But we don't have any at the	4	would take a little work.
5	moment.	5	Another issue I look at is on these
6	CHAIRMAN MORELOCK: But when you do	6	Tennessee Specials. Right now 20 years from
7	have those, those would be stamped with a unique	7	now, we go work on a boiler or go work on a tank,
8	Tennessee Special number and it would be attached	8	and we can't find the data sheet. We contact the
9	to the vessel, correct?	9	National Board. We've got that number. We find
10	MR. CHAPMAN: Yes, it would.	10	out if we can get the data sheet for that vessel.
11	CHAIRMAN MORELOCK: Okay.	11	And as David has found out in the past, sometimes
12	MR. BOWERS: This is Harold Bowers,	12	we can't always find the data sheet. But how
13	boiler inspector, board member.	13	would these data sheets be archived? Would they
14	The question I have is, okay, as time	14	be added once we give a Tennessee Special, is
15	goes on, like, I believe, Dave had talked about,	15	this going to be archived forever in the Tennessee
16	is the conversion. So we start out on the safety	16	boiler division where 10 years, 20 years from now
17	valves, originally, maybe, in metric. Then five	17	we have to do they have to do a repair on these
18	years down the road, we're changing them out.	18	vessels, the contractor is, of course, going to
19	Then we get them in the United States, and now	19	need the data sheet to do the repair. Can't go to
20	they're in psi and capacity of CFM. And so then	20	the National Board because it's not there. So is
21	we say, well, for the inspectors, someone has to	21	this going to be archived with the State forever?
22	do that conversion. The tanks says one thing	22	MR. CHAPMAN: This is Sam Chapman.
23	the MAWP of a tank says one thing. It's in	23	Yes. With those, they are archived
24	metric. Then the other one is now the new	24	and they're a record that's kept permanent. We do
25	replacement safety valve is in psi and CFM.	25	not get rid of them. So if somebody comes along
	Page 84		Page 85
1	10, 20 years down the line and asks, "Hey, do	1	Toth. If I can make a little bit of a comment
2	you-all have the records on these?" we can pull	2	concerning the metrification and using the U.S.
3	them out and give them to them.	3	customary standards. We've got to remember also
4	Right now we're converting them all	4	that in regards to what Mr. Bowers said, NBIC is
5	over into the computer and maintaining them on the	5	specific, and when they talk about the use of
6	computer instead of having to pull paperwork. So	6	metrification or use in the metric system, it has
7	I hope that answers your question.	7	to follow that vessel. And following that vessel
8	MR. BOWERS: Perfect.	8	regards to use in the metic system on your relief
9	CHAIRMAN MORELOCK: And, Harold, to	9	valves, actually, that's not really safety
10	add to a little bit of that, you know, there's	10	valves, that is that's not really an issue,
11	situations in the past where the Board has had	11	Mr. Bowers. I mean you can order valves in metric
12	companies come to the Board saying we have	12	or in customary standards. That's not an issue.
13	acquired a site, we've inspected the vessels, but	13	Where you come up against the issue is when you
14	we don't have inspection records on them from	14	look at repairs and alterations of those units, we
15	previous. They can't verify. Like you said, they	15	do repairs and alterations. They have to be done
16	don't have maybe a U-1 or anything like that. And	16	in metric. If the vessel is built in metric, you
17	so they'll hire, like, a company to come in and do	17	have to stick with metric. That comes straight
18	thickness monitoring or not monitoring but	18	out of the NBIC.
19	thickness measurements, ultrasonic thickness	19	So, also, if you were to look, as an
20	measurements through the calculations, prove that	20	inspector every inspector should have access to
21	the vessel is safe, and then make it a Tennessee	21	the NBIC part 1, Section, I think, 7 has
22	Special.	22	actually, has a conversion chart that will help
23	MR. TOTH: Mr. Chairman?	23	you as an inspector to be able to convert over
24	CHAIRMAN MORELOCK: Yes?	24	pretty simply so those are the two things I
25	MR. TOTH: Yes. This is Marty	25	wanted to mention, is just remember that once you
1			

	Page 86		Page 87
1	start, you build with metric, the vessel has to	1	allowance built onto these vessels. When I see a
2	live in metric. That's all I have. Thank you.	2	corrosion allowance of 1 millimeter, I mean,
3	CHAIRMAN MORELOCK: Thank you,	3	that's miniscule. Typically like I said, these
4	Mr. Toth.	4	are air tanks. Typically, there's a lot of oil in
5	MR. BAUGHMAN: This is Dave	5	these air lines on these. I know, just working
6	Baughman, board member.	6	With other customers that have these type,
7	What's the inspection cycle on these	7	corrosion is very seldom an issue. There's that
8	Tennessee Special unfired vessels? Will it be	8	much oil in the air on them. And usually, welding
9	once every five years? But what's the inspection	9	on them is the issue because of all the oil that's
10	cycle of these vessels, if anything? And the	10	on them. We very seldom see any further corrosion
11	second question was is there a corrosion mechanism	11	problems for these type of air tanks.
12	or a risk-based assessment that's going to be in	12	MR. BAUGHMAN: So I don't know if
13	place for determining the corrosion rates on these	13	that quite answers my question, but
14	units and so forth I didn't know if LG had	14	MR. BUTLER: It was a political
15	anything in place but where we're at, moving	15	answer. I tap danced all around it.
16	forward, to be able to identify any corrosion	16	CHAIRMAN MORELOCK: So,
17	mechanisms?	17	
			Mr. Baughman, to answer your question, the
18	MR. BUTLER: I'm not sure if LG has	18	Tennessee law says that an unfired pressure vessel
19	anything in place. Sam could tell you how often	19	has to be internally inspected every two years.
20	they have to be recertified by state standards.	20	MR. CHAPMAN: Yes.
21	I'll throw that on his lap. I mean, typically,	21	CHAIRMAN MORELOCK: And so as a
22	when you go through and you get a vessel	22	Tennessee Special, these vessels would have an
23	recertified, you open it up and look in it just	23	internal every two years.
24	like you do a boiler.	24	MR. CHAPMAN: Yes.
25	There is a very small corrosion	25	CHAIRMAN MORELOCK: And so, you
1	Page 88 know, to Mr. Butler's point, yeah, the .01 or	1	Page 89 allowance on it. And then, when that vessel goes
1	know, to Mr. Butler's point, yeah, the .01 or	1	allowance on it. And then, when that vessel goes
2	know, to Mr. Butler's point, yeah, the .01 or the corrosion allowance is 40,000 of an inch, so	2	allowance on it. And then, when that vessel goes into service, yes, it's going to corrode. Once
2 3	know, to Mr. Butler's point, yeah, the .01 or the corrosion allowance is 40,000 of an inch, so if you have four mils of corrosion per year,	2 3	allowance on it. And then, when that vessel goes into service, yes, it's going to corrode. Once you get down to calculated thickness minus
2 3 4	know, to Mr. Butler's point, yeah, the .01 or the corrosion allowance is 40,000 of an inch, so if you have four mils of corrosion per year, you're going to go ten years before you get down	2 3 4	allowance on it. And then, when that vessel goes into service, yes, it's going to corrode. Once you get down to calculated thickness minus corrosion allowance, then you do a true T-min
2 3 4 5	know, to Mr. Butler's point, yeah, the .01 or the corrosion allowance is 40,000 of an inch, so if you have four mils of corrosion per year, you're going to go ten years before you get down to a T-min. Or it's a built-in corrosion	2 3 4 5	allowance on it. And then, when that vessel goes into service, yes, it's going to corrode. Once you get down to calculated thickness minus corrosion allowance, then you do a true T-min calculation.
2 3 4 5 6	know, to Mr. Butler's point, yeah, the .01 or the corrosion allowance is 40,000 of an inch, so if you have four mils of corrosion per year, you're going to go ten years before you get down to a T-min. Or it's a built-in corrosion allowance. It's not necessarily T-min, but down	2 3 4 5 6	allowance on it. And then, when that vessel goes into service, yes, it's going to corrode. Once you get down to calculated thickness minus corrosion allowance, then you do a true T-min calculation. You can do a fitness for service.
2 3 4 5 6 7	know, to Mr. Butler's point, yeah, the .01 or the corrosion allowance is 40,000 of an inch, so if you have four mils of corrosion per year, you're going to go ten years before you get down to a T-min. Or it's a built-in corrosion allowance. It's not necessarily T-min, but down to the minimum calculated thickness.	2 3 4 5 6 7	allowance on it. And then, when that vessel goes into service, yes, it's going to corrode. Once you get down to calculated thickness minus corrosion allowance, then you do a true T-min calculation. You can do a fitness for service. You can invoke API 579 and go to 90 percent of
2 3 4 5 6 7 8	know, to Mr. Butler's point, yeah, the .01 or the corrosion allowance is 40,000 of an inch, so if you have four mils of corrosion per year, you're going to go ten years before you get down to a T-min. Or it's a built-in corrosion allowance. It's not necessarily T-min, but down to the minimum calculated thickness. MR. BAUGHMAN: Well, and henceforth	2 3 4 5 6 7 8	allowance on it. And then, when that vessel goes into service, yes, it's going to corrode. Once you get down to calculated thickness minus corrosion allowance, then you do a true T-min calculation. You can do a fitness for service. You can invoke API 579 and go to 90 percent of that thickness with a fitness-for-service
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	Page 90		Page 91
1	different on it is you have markings on it for	1	they figure out definitively which vessels are
2	saying that it's a Tennessee Special. That's	2	exempt from Tennessee law, what vessels have to be
3	about it on that.	3	Tennessee Specials, and then the Boiler Unit comes
4	MR. BOWERS: Thank you, Sam.	4	out and looks at them I just I don't know if
5	MR. CHAPMAN: All right.	5	the Boiler Unit is going to be comfortable with a
6	CHAIRMAN MORELOCK: So the question	6	tentative approval or they would prefer that you
7	we have before us, as a Board, is to attempt to	7	come back to the Board with a revised item
8	answer Mr. Butler's question is this, is if he	8	showing, definitively, what will be a Tennessee
9	goes and does all the legwork, verifies what	9	Special. And we vote it in March.
10	vessels indeed are exempt, what vessels have to be	10	MR. HENRY: Mr. Chairman, this is
11	Tennessee Specials, does he have to wait until the	11	Jeff Henry, board member.
12	next board meeting? And by practice, the answer	12	Could I ask a couple of questions?
13	to that question is yes.	13	CHAIRMAN MORELOCK: Absolutely.
14	So my question to you, Mr. Butler, is	14	MR. HENRY: Mr. Butler, you've been
15	these vessels are in service and are operating	15	to the facility and you've seen where these are
16	right now. Do they have certificates of	16	installed. In the event one of these were to
17	inspection from the State of Tennessee?	17	fail, would they present a safety issue to the
18	- MR. BUTLER: No, sir, I don't	18	people of the plant?
19	believe they do.	19	MR. BUTLER: No, sir, none that I
20	CHAIRMAN MORELOCK: Okay. So the	20	see. Some of them are located in a basement area
21	only thing I know and I'm going to this is	21	underneath the presses. The others are located on
22	the Boiler Unit's call. I'm just talking. I	22	top of the presses. There's not people standing
23	don't know if we can do something similar to a	23	next to them, if that's the question you're
24	variance where if Mr. Butler works with LG, they	24	asking.
25	take these 50 vessels, they do the evaluation,	25	MR. HENRY: But, I mean, there are
	· · ·		
	Dage 92		Dage 93
1	Page 92 times when people would be in the area that could	1	Page 93 CHAIRMAN MORELOCK: Well, if they
1 2	3	1	
	times when people would be in the area that could		CHAIRMAN MORELOCK: Well, if they
2	times when people would be in the area that could constitute a hazard if one were to fail.	2	CHAIRMAN MORELOCK: Well, if they don't have a valid certificate of inspection, they
2 3	times when people would be in the area that could constitute a hazard if one were to fail. MR. BUTLER: Well, that would be	2 3	CHAIRMAN MORELOCK: Well, if they don't have a valid certificate of inspection, they don't have permission to operate them. MR. HENRY: So they're operating
2 3 4	times when people would be in the area that could constitute a hazard if one were to fail. MR. BUTLER: Well, that would be true of any vessel failure. I mean	2 3 4	CHAIRMAN MORELOCK: Well, if they don't have a valid certificate of inspection, they don't have permission to operate them.
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	Page 94		Page 95
1	problem. And a lot of times new plants, when they	1	
2	first get started up, we didn't always, as state	2	CHAIRMAN MORELOCK: Thank you,
3	inspectors and insurance inspectors, inspect those	3	Mr. Bowers.
4	units at startup. We just usually, a lot of	4	So we, as a board, have been asked to
5	times, inspect it right after startup.	5	determine if a certain number of vessels can be
6	And I'm not sure how long these have	6	Tennessee Specials. And that's what we're doing.
7	been in use, but they did come to us because they	7	We're looking at the rule and the law. Now, as
8	know they have a problem. Now, I quess it's up to	8	far as operating a vessel or not, that comes from
		-	
9	the Board and the Chief to decide where we go from	9	the Boiler Unit. That doesn't come from the
10	there on these right here.	10	Tennessee Board. We support the Boiler Unit, but
11	I've inspected many of these units at	11	the Boiler Unit is the enforcement of the rules
12	different plants. And most of them are, like he	12	and the law. And so we promulgate and review and
13	said, at the top of the press or underneath the	13	update the rule and the law. So that's the
14	press. I'm not sure what, actually if he can	14	difference in the responsibility. So it
15	tell us what the source is of the air going to	15	ultimately comes to the Boiler Unit on the
16	these, as far as the psi being fed. You know, in	16	decision to operate or not.
17	most cases, if they're centrifugal compressures or	17	But Mr. Bowers' point is, you know,
18	rotary screws, probably a maximum of 125 psi, and	18	true, is I think we've done some good work today
19	you use the conversion to figure out the safety	19	to help LG realize that they don't have 50
20	factor there. But I know we need to do something	20	Tennessee Specials. You're probably going to have
21	on this, and we'd hate to shut down this plant	21	about 27, which I think that's good.
22	saying, well, they can't use these right now. But	22	But now Mr. Butler is going to have
23	I guess that's up to the board members to decide	23	to finish his work to put everything together to
24	or give these people a grace period to come back	24	get these vessels labeled correctly and have a
25	next board meeting, and hopefully, we'll get this	25	work with the Boiler Unit to get a valid
	Darra ()		
1	Page 96 certificate of inspection.	1	Page 97 logistics, it's going to take a little while.
1 2	Page 96 certificate of inspection. MR. BAUCHMAN: This is Dave	1	Page 97 logistics, it's going to take a little while. MR. CHAPMAN: Well, normally
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	Page 98		Page 99
1	MR. BUTLER: Would they be able to	1	
2	go in and do some of these inspections before the	2	meeting just for this item to get it approved.
3	next board meeting? I mean, like I said, this	3	But I need Mr. Herrod and Mr. Bailey to let me
4	entire plant will be shut down, I think it's a	4	know if that's possible or not.
5	week and a half. I mean, we understand, the plant	5	MR. HERROD: Well, for the Boiler
6	understands, that, you know, they don't have	6	Unit, that would be acceptable. How quickly are
7	operating certificates on these, like I said.	7	they talking about having that package put
8	Mr. Bowers said, you know, they came	8	together? In January?
9	to you and said here is our problem. Could the	9	MR. BUTLER: Yes, sir. I'd need
10	inspections already be performed if I say, hey,	10	until then so I can go up and verify these
11	these are the 27 vessels that we need Tennessee	11	vessels. Like I said, the plant will be shut down
12	Specials on?	12	so we can go up and fix these descriptive
13	MR. CHAPMAN: (Shakes head.)	13	nameplate issues, eliminate those that are too
14	MR. BUTLER: So Sam is shaking his	14	small and then resubmit the package which should
15	head no, so he's not going to send an inspector	15	be about half this size. I'll only kill, like,
16	out there until an official vote takes place.	16	one tree. So yeah, I would say the second week of
17	MR. CHAPMAN: That is true.	17	January, the latest.
18	CHAIRMAN MORELOCK: Okay. So I	18	MR. HERROD: I'm not sure if we
19	need to make sure Mr. Herrod and Mr. Bailey weigh	19	have time. Do we have to give a 30-day notice of
20	in on this question. But due to the fact that we	20	a meeting, Carlene?
21	are going to be meeting electronically for the	21	MS. BENNETT: It's my understanding
22	foreseeable future, if I have agreement with the	22	we did. Dan could probably speak more to that
23	Boiler Unit and the State of Tennessee, I am not	23	than I could.
24	opposed to letting LG and Mr. Butler to get a	24	MR. BAILEY: I think the statute
25	revised package put together as quickly as they	25	says reasonable notice. I don't think it
25	revised package par regenter as quickly as they		says reasonable notice. I don't chills it
	D		D 101
1	specifies 30 days.	1	Page 101 plant back open and get their employees back to
1	specifies 30 days.	1	
			plant back open and get their employees back to work. So we have done it before.
2 3	specifies 30 days. MS. BENNETT: Okay. MR. BAILEY: I believe I have seen	2	plant back open and get their employees back to work. So we have done it before. But I just want to make sure that we
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2 3 4 5	specifies 30 days. MS. BENNETT: Okay. MR. BAILEY: I believe I have seen some case law where it was held at two weeks and was considered reasonable. So it's one of those	2 3 4 5	plant back open and get their employees back to work. So we have done it before. But I just want to make sure that we get the right that we're following the statute of the law, as far as how quickly it can be
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1	Page 102		Page 103
1 -	there be an accident and the ramifications of	1	designated, the vessels that are exempt to be
2	that. So I just want to make sure that we all	2	clearly designated, and then let them process our
3	understand that both Michael Hudson and Keith	3	normal channels to get a Tennessee Special for
4	Butler and the rest of us that are in on this	4	those vessels that need to be stamped as a
5	meeting understand what those legalities are in	5	Tennessee Special.
6	moving forward with this.	6	MR. BOWERS: This is Harold Bowers.
7	I don't want to shut anybody down, in	7	If we had a meeting in 30 days, this
8	particular, and don't have that capability or	8	would give Sam, also, time to get his tags. He
9	desire, but I want to make sure of just bringing	9	has to order tags, and, also, he can set up the
10	that up for the record that we do have a liability	10	manpower he needs to get these things done if we
11	involved here in saying, yes, we can continue to	11	so approve 30 days from now.
12	operate until this comes about.	12	MR. BAUGHMAN: This is Dave
13	CHAIRMAN MORELOCK: Well, and to	13	Baughman, board member.
14	address your question, Mr. Baughman, the Board	14	Would these be charged back out as
15	doesn't have an item that they can vote on today.	15	special inspections for each individual vessel?
16	And so we're not shutting anybody down. We're not	16	MR. HERROD: This is Tom Herrod,
17	doing anything other than just following the rule	17	assistant commissioner.
18	and the law on what needs to be done to have a	18	Yes. Potentially, they would be. We
19	Tennessee Special. It's up to the Boiler Unit, as	19	would have to make that decision within the Boiler
20	the enforcement arm of the law and the rule, to	20	Unit. But yes, we do have that is what we
21	allow them to run or to red tag them and make them	21	could very well
22	shut down. So, I mean, that's where we're at.	22	MR. BAILEY: I think Tom froze up
23	What we're trying to do is to have a	23	on us.
24	discussion on what's the most efficient way we can	24	MR. BAUGHMAN: We missed the end of
25	get these Tennessee Special vessels clearly	25	that, Mr. Herrod. I'm sorry. You broke up.
	Page 104		Page 105
1	MR. HERROD: Okay. Can you hear me	1	Just to let all the members know,
1 2	MR. HERROD: Okay. Can you hear me now?	1 2	-
			Just to let all the members know,
2	now?	2	Just to let all the members know, once the meeting is over, the chief and I will
2 3	now? CHAIRMAN MORELOCK: Yes.	2	Just to let all the members know, once the meeting is over, the chief and I will discuss, kind of, how the company can go forward
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1	Page 106 can't.	1	Page 107 MR. HENRY: Aye.
2	So do I have a motion from the Board?	2	CHAIRMAN MORELOCK: All right.
3	MR. BOWERS: This is Harold Bowers.	3	Motion passes.
4	I'll make that motion to table it and	4	MS. BENNETT: Mr. Chairman?
5	have a special meeting within the next 30 days.	5	CHAIRMAN MORELOCK: Yes.
6	CHAIRMAN MORELOCK: All right. Do	6	MS. BENNETT: I'm sorry. I'm just
	I have a second.	7	throwing this out there. Would January 13th fit
8	MR. HENRY: Second.	8	the criteria of within 30 days or so?
9	CHAIRMAN MORELOCK: Thank you,	9	CHAIRMAN MORELOCK: Pretty close.
10	Mr. Henry.	10	MS. BENNETT: Okay. That's just a
11	I have a second. Any more	11	tentative date just, you know, if everybody could
12	discussion?	12	make it, then I could arrange it.
13	(No verbal response.)	13	MR. BAUGHMAN: I could not be
14	CHAIRMAN MORELOCK: Hearing none,	14	there, Carlene. I'm sorry.
15	I'm going to have a roll-call vote.	15	MS. BENNETT: Okay. We could shoot
16	5 5	16	for the 20th.
	Mr. Baughman?		
17 18	MR. BAUGHMAN: Aye. I would look at those dates, too,	17	CHAIRMAN MORELOCK: So what about March the 20th?
19	just because I know there's some things coming up	19	MS. BENNETT: Oh, no. I was
20	in January. I would definitely like to be on the	20	thinking January.
20	meeting end of it. But yes, aye.	20	CHAIRMAN MORELOCK: I meant
22	CHAIRMAN MORELOCK: Certainly.	21	January 20th. Sorry. I'm thinking too far ahead.
23	Mr. Bowers?	23	MS. BENNETT: Okay.
24	MR. BOWERS: Aye.	24	CHAIRMAN MORELOCK: So is that good
25	CHAIRMAN MORELOCK: Mr. Henry?		with all the board members, January the 20th?
	Page 108		Page 109
1	Page 108 MR. BAUGHMAN: It is with myself.	1	Page 109 Thank you for the presentation. Thank you for all
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	Page 110		Page 111
1	MR. TOTH: I'm glad I tuned in.	1	an equipment change, replacement and/or addition,
2	Was this added to the agenda? I didn't see it the	2	or the original intent of a variance? And the
3	first time I looked, but okay.	3	reply I have is no.
4	I'll go ahead and do this. If I can	4	And that is the submission.
5	share my screen, I can pull it up. Okay. So if	5	CHAIRMAN MORELOCK: Okay. So
6	we look, this is the submission that was sent in	6	MR. O'GUIN: Chairman?
7	October. Statements, ECS Consulting okay	7	CHAIRMAN MORELOCK: Yes.
8	requests the Board to provide an interpretation on	8	MR. O'GUIN: The Boiler Unit would
9	re-presentation requirements for changes to	9	like to request these interpretations be tabled
10	board-approved remote attendants variances.	10	until March to see if we can answer these
11	A little bit of background on that.	11	questions in the checklist to save from having so
12	Owners-users of approved remote attendants	12	many interpretations out on the system.
13	variances are looking for an understanding of when	13	THE REPORTER: Who is that
14	they are required to re-present to the Tennessee	14	speaking?
15	Board of Boiler and that should be rules	15	MR. O'GUIN: Chris O'Guin,
16	when changes have occurred to the program.	16	Assistant Chief.
17	Inquiry Number 1, is it required for	17	THE REPORTER: Thank you.
18	approved variances to be re-represented to the	18	MR. TOTH: Mr. Chairman, if I may.
19	Tennessee Board of Boiler Rules if there have been	19	This is Marty Toth.
20	equipment changes, replacement and/or additions to	20	Chris, I thought we had the intent to
21	said variance. My submitted reply is yes.	21	do that already. We had discussed that. That's
22	Inquiry Number 2, is it required for	22	why when I initially saw the agenda I did not see
23	approved variances to be re-presented to the	23	them on the agenda. I'm very much in favor of
24	Tennessee Board of Boiler Rules if there have been	24	tabling both of these. I think it's something
25	common changes to said variance that do not affect	25	that needs to be addressed if the checklist
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	Page 112		Page 113
1	Page 112 guidelines are to be revised. But I'm fine with	1	Page 113 two board interpretations, contingent on the fact
1 2		1 2	
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	Page 114		Page 115
1	CHAIRMAN MORELOCK: Thank you.	1	be the first quarter would be March the 10th;
2	All right. So any more questions or	2	second quarter would be June the 9th; third
3	comments before I call the vote?	3	quarter would be September 22nd; and fourth
4	(No verbal response.)	4	quarter would be December the 15th. So we just
5	CHAIRMAN MORELOCK: We're voting to	5	want to make sure that those dates are good for
б	table these two items contingent on review and	6	the board members because it's important that we
7	revision of the checklist.	7	have a good, clear quorum when we meet. So does
8	(No verbal response.)	8	anybody have any conflicts with those dates?
9	CHAIRMAN MORELOCK: So hearing no	9	(No verbal response.)
10	comments, I'm going to have a roll-call vote.	10	CHAIRMAN MORELOCK: All right.
11	Mr. Baughman?	11	Hearing none, then those dates will stand.
12	MR. BAUGHMAN: Aye.	12	So moving on to our next open
13	CHAIRMAN MORELOCK: Mr. Bowers?	13	discussion item is the variance guideline and
14	MR. BOWERS: Aye.	14	checklist revisions. So let me get my notes out
15	CHAIRMAN MORELOCK: Mr. Henry?	15	on that. And I hope everybody has the notes on
16	MR. HENRY: Aye.	16	that.
17	CHAIRMAN MORELOCK: All right. So	17	MR. BOWERS: Chairman, could we
18	we have tabled these two board interpretations.	18	take, probably, a five-minute break?
19	MR. TOTH: Thank you, sir.	19	CHAIRMAN MORELOCK: Absolutely.
20	CHAIRMAN MORELOCK: Thank you.	20	Absolutely. We'll take a five- or ten-minute
21	So that takes care of rule cases and	21	break. Let's just resume at 11:55. That will
22	interpretations in Item 7.	22	give you ten minutes.
23	Moving on to Item 8, which is open	23	(Recess observed.)
24	discussion items. And our first discussion item	24	CHAIRMAN MORELOCK: In the essence
25	is the tentative 2021 meeting dates, which would	25	of time here, we'll go ahead and start working on
1			
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1 2	Page 116 this discussion item of looking at the guide and the checklist for the boiler variance. So I hope	1	Page 117 glad they got addressed. So on my comments that were sent out
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Page 118 Page 119 1 look at it and work with the Boiler Unit and see 1 Do you want to just read through 2 those, or do you want to address them one at a 2 is if we need to make any changes on this. CHAIRMAN MORELOCK: So let me ask a 3 time? 3 4 CHAIRMAN MORELOCK: I guess, as far 4 question of Mr. Bailey. Since this is a 5 discussion item and we are going to revise the 5 as -- do the board members agree that we need to 6 update the flowchart? Yes? No? Maybe so? 6 variance checklist and the guidelines, could the 7 I agree with Mr. Baughman. We need 7 Boiler Unit and the board members develop a draft, 8 to take a look at it, and especially work with the 8 take these comments and develop a draft, outside 9 Boiler Unit and make sure this flow chart is --9 of a meeting and then bring it to the meeting 10 you know, let's make it what you want it to be 10 either as a discussion item and eventually an 11 that supports the checklist. 11 action item? Is that okay if we work on it? Or 12 So I'm in agreement with your 12 do we have to work on it in an open meeting? 13 comment. I don't have a solution yet, but I do 13 MR. BAILEY: I think very much like 14 when we redid the rules, you know, we circulated 14 agree with your comment. 15 MR. BAUGHMAN: So get advice from 15 drafts of proposed rule changes, language, and 16 the Boiler Unit and revise it accordingly with 16 that kind of thing and then brought the final 17 their input? product to the Board for a discussion and public 17 18 CHAIRMAN MORELOCK: With their 18 vote. So I don't think there would be any problem 19 input, as well as the board members', yes. 19 with doing that same thing here. MR. BAUGHMAN: Harold or Jeff or 20 CHAIRMAN MORELOCK: Okay. I just 20 21 Chris or Sam, have you guys got anything on that? 21 wanted to clarify that. So what we can do is 22 MR. HENRY: I would agree with 22 we'll talk about it and we'll take your comments. 23 that. I would agree with that, Dave. 23 We can circulate a red-line draft and kind of work 24 MR. BOWERS: I'm the same way. I 24 on it until we get it to a stage where we think 25 agree with you-all, that we need to definitely 25 it's ready for a vote, a presentation and a vote. Page 120 Page 121 1 that? 1 So yeah, that's good. CHAIRMAN MORELOCK: Does anybody 2 Thank you, Mr. Bailey. 2 All right. Proceed, Mr. Baughman. 3 3 have a comment about taking the word MR. BAUGHMAN: So under Section 1 4 "computerized" out of Item 2 under the 4 5 of the introduction, Number 2, where it states a 5 introduction on the guide? MR. BOWERS: This is Harold Bowers. 6 computerized remote monitoring system is a minimum 6 7 I agree with Dave. "Computerized" is 7 requirement necessary to satisfy the degree of 8 safety desired, I was looking at changing to a 8 such a generic term. We really don't know what it 9 remote monitoring system is a minimum requirement. 9 really entails, so I think it would be best to 10 And I guess it got down to the definition of 10 take "computerized" out. I agree with that. 11 what's computerized. Why do we have to CHAIRMAN MORELOCK: Okay. 11 12 necessarily specify a computerized system? Some 12 Mr. Henry? MR. HENRY: I agree as well. I 13 systems don't necessarily compute; they enunciate. 13 14 And by calling it "computerized," I just -- I 14 think it's a good suggestion. 15 thought that was just part of the nomenclature 15 CHAIRMAN MORELOCK: All right. 16 that we could change. Not that we even look at 16 Very good. All right. Next comment, 17 that to any huge degree when we're going through 17 Mr. Baughman. 18 our hardware and analyzing it on, you know, does 18 MR. BAUGHMAN: Under Section 2, a 19 this actually compute? 19 system operating manual, Number 1, states any 20 But I just thought that from the 20 changes must have prior review and acceptance by 21 standpoint of clarification that we put a remote 21 the Tennessee Board of Boiler Rules. Putting down 22 monitoring system is a minimum requirement 22 that it's worth discussion on what constitutes 23 necessary to satisfy the degree of safety desired. 23 change, technical or editorial. And I know we 24 Again, point for discussion and so forth on it. 24 discussed this as we're going through. But it was 25 25 just changing that wording of "any changes" to Next item? Or do you want to discuss

	Page 122		Page 123
1	getting a better description of changes.		intent on that, too, Mr. Henry, as I'm sure you
2	How to word that, I hadn't come up	2	understand, was when they've had, maybe, personnel
3	with, but I just thought that there would be a	3	changes, security guards change and so forth and
4	that's a question when it comes up, "any changes."	4	what have you, isn't a big thing. The training
5	And people say, well, what and we get that	5	is, but the technical being the hardware, the
6	before the Board even. People will ask what, you	6	controllers, the burners, and so forth.
7	know, technical or editorial, does that have to	7	And one of the things that we talked
8	come up for review.	8	about in a previous meeting was these lateral
9	CHAIRMAN MORELOCK: So what	9	changes that happen within the industry, as one
10	comments does the Board have?	10	programmer gets obsoleted out and new programmers
11	MR. HENRY: I guess I think it's a	11	get put in place, does that change the technical
12	fair comment. I guess my only question would be	12	review?
13	who would be the ultimate arbiter on what's	13	And so those are things that I wanted
14	technical and what's editorial. If we were to say	14	to just clarify. And I always like to look at
15	only technical issues had to come before the	15	technical stuff, even if it's a lateral change
16	Board, somebody's got to make that decision as to	16	technically, I look at, typically, when there's a
17	whether a particular item is editorial or	17	hardware change, there's differences in that piece
18	technical. And who would that be?	18	of equipment that are enhanced. In other words,
19	CHAIRMAN MORELOCK: Well, the only	19	it may be enhanced password protection; it may be
20	thing you could do would be to add a section, like	20	enhanced whatever capabilities. And I always like
21	Mr. Toth has done for the variance manuals, to	21	to review those.
22	define what that is. You could put some	22	Whether that's actually necessary for
23	definitions in it.	23	the intent of our variance, I don't know, but I
24	MR. HENRY: Okay.	24	always like to look at technical changes
25	MR. BAUGHMAN: And I guess my	25	personally.
	Dage 124		Page 125
1	Page 124 CHAIRMAN MORELOCK: Well, technical	1	Page 125 exactly know what that brings to the table.
1 2		1 2	
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1	Page 126	1	Page 127
1	I don't think it's necessary, myself.		MR. TOTH: And if I can add to
2	I agree that it is something that was pulled from you can look right at Honeywell.	2	that. Really, the main concern for safety that we need to have, in essence, with self-checking has
3	Honeywell likes using the word "dynamic." FireEye	3	everything to do with flame scanning, ensuring
5	does not. Siemens does not. But they do use the	5	that we're monitoring the flame scanner of the
6	term "self-checking." And the understanding is	6	unit itself. And that's where, in some cases, you
	that these units have to be monitored constantly.	7	have units that don't have self-checking
8	I don't think you need to put the word "dynamic"	8	capability, but they may have a flame scanner that
9	in there. That's just my opinion.	9	is self-checking. So that's really where the
10	MR. BAUGHMAN: And thank you for	10	attention needs to be laid, is towards that flame
11	that input, Mr. Toth. One of the things we look	11	scanning and self-checking, and which it does.
12	at is some of these systems may not even we	12	MR. BAUGHMAN: Thank you. So are
13	talk about a FireEye E110; we talk about the	13	we good with changing that, removing the
14	Honeywell 7800 series. But they may have a	14	"computerized" and "dynamic self-checking" to
15	FireEye Mec120 that doesn't it's all solid	15	"self-checking"?
16	state it's a solid state controller and not a	16	(Affirmative response.)
17	mechanical relay controller, but it doesn't	17	MR. BAUGHMAN: Moving on to the
18	necessarily go through all the self-checks. It	18	next, which is under Item 36 of the checklist for
19	goes through some, but not to the degree that a	19	the attendants variance request. I just made a
20	CB780, 7800 series, so forth, would do. So,	20	note that I would clarify or change the wording of
21	again, I just thought that and I appreciate	21	Item B, the boiler water column to state "positive
22	your input in on that, because that word "dynamic"	22	check of the low-water cutoff." In addition,
23	was something that we never held anybody's feet to	23	adding an addition to the manual to include a
24	the fire on. And I definitely think it should be	24	check of the water level in the boiler site glass
25	delineated. So	25	along with a check of the boiler flame and stack
	Page 128		Page 129
1	Page 128 temperature if the unit is fuel fired. So some	1	Page 129 that slips on gas valve, air, or what have you,
1 2		1 2	5
	temperature if the unit is fuel fired. So some		that slips on gas valve, air, or what have you,
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1	Page 130 MR. TOTH: Mr. Chairman, Marty	1	Page 131 document and send it out to let people review and
2	Toth. Can I make a comment, please?	2	comment on it.
3	CHAIRMAN MORELOCK: Certainly.	3	MR. BAUGHMAN: All right. I'll
4	MR. TOTH: I agree with	4	move on to the next, which is just a note. We've
5	Mr. Baughman on this. A lot of the clients that I	5	had questions about the wood-fired boilers,
6	do visit, they tend to ask, well, what do we need	6	Biomass boilers, and whether or not they fall
7	in regards to our boiler log? And I always advise	7	under the requirements for the 20-minute rule for
8	that the more information the better, especially	8	the application of a variance and so forth. They
9	for management purposes.	9	operate somewhat differently, as far as their fuel
10	For safety purposes, I always call it	10	input goes. But to follow that up, the same
11	the trinity, which is your pressure, your	11	question, then, applies to Section 1 boilers that
12	temperature, and your water level, is really the	12	are electric and that are above the 5 horsepower
13	three that I make sure, at a minimum, that they	13	criteria.
14	have on a boiler log to include areas for testing,	14	And so I just made a statement or put
15	such as your low-water cutoff. So I would agree	15	something in there to have a statement that
16	that if you put it in the guideline of those,	16	states, in some form or fashion, any boilers that
17	especially those three along with because	17	meet the criteria of Section 1 power boilers that
18	you've got to have that info, as an operator, and	18	are about 5 horse or 50 square foot of heat
19	you need to be able to record that and review it.	19	absorbing surface.
20	CHAIRMAN MORELOCK: Any other	20	And the next note to that was we've
21	comments?	21	had companies that have a Section 1 boiler that
22	(No verbal response.)	22	it's stamped Section 1, but the criteria of the
23	CHAIRMAN MORELOCK: Okay. I'm	23	boiler design, the relief valve openings and such
24	making notes. So I guess my thoughts are, what	24	can accommodate 15 psi relief valves. The
25	we'll do, we'll take this and develop a revision	25	controls can be changed to 15 psi. And so making
	Page 132		Page 133
1	sure that we address if that boiler itself has a	1	that. Normally, what we do is even though it has
2	15 psi relief valve and it's got sufficient	2	an S-stamp on it and as long as they have the
3	capacity to relieve what the boiler produces and	3	relief valve and controls on it, they cannot
4	all the controls are 15 psi controls, can that	4	change the S-stamp. But it's operating as a
5	boiler, then, operate as a low-pressure boiler and	4 5	change the S-stamp. But it's operating as a low-pressure boiler. The S-stamp, they cannot
5 6	boiler, then, operate as a low-pressure boiler and fall under the variance requirements or fall	4 5 6	change the S-stamp. But it's operating as a low-pressure boiler. The S-stamp, they cannot change.
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Page 134 Page 135 1 you're asking about, which is that they are CHAIRMAN MORELOCK: Okay. Let me 1 2 treated as heating boilers. They are inspected as 2 flip back a page or two. Okay. So what I have 3 heating boilers, and so on and so forth. 3 done is I sent an email to the Boiler Unit, and MR. BAUGHMAN: That was 05-22? 4 it's in the page before you get to Dave's 4 5 MR. TOTH: Yes, sir. BI 05-22. 5 comments. And so I can just read through what I 6 MR. O'GUIN: Dave, this is Chris. 6 have captured and see if you agree. 7 I just emailed that to you. 7 So under Section 1, introduction, MR. BAUGHMAN: Thank you. That's 8 Item 3, which discusses that the variance grant 8 9 great. 9 will expire three years after approval is granted 10 Well, and that's why I wanted to make 10 by the Board. And so that's brought some 11 sure that in our rules it says boilers that are 11 conversation up as to what we want that date on 12 above 5 horsepower or 50 square foot of heat-12 the manual to be. And so since we are usually 13 absorbing surface. The surface, I wanted to make 13 granting a tentative approval, based on a 14 sure that that clarification was there, that even 14 successful site visit, we may want to rethink 15 though it's a Section 1 boiler and it's above 15 those words to say a variance grant will expire 16 5 horse and above 50 square foot of heating 16 three years after approval is granted by the 17 surface, that if it's operating within the 17 Board. And then it's the responsibility of the 18 criteria of a low-pressure boiler, that was 18 variance holder to request renewal of the variance 19 attended to. And that's under this BI 05-22, from 19 by written request to the Boiler Unit 180 days 20 what you're stating. 20 prior to expiration. 21 MR. TOTH: Yes. 21 The request shall contain a statement 22 MR. BAUGHMAN: Great. Thank you so 22 of any changes to the manual, date of last 23 much for that. I appreciate that. 23 inspection by the chief inspector or chief All right. That's what I've got on 24 inspector's designee. If there's no technical 24 25 changes to the manual, the Boiler Unit can review 25 there, guys. Page 136 Page 137 1 and approve the renewal. If there are technical 1 that -- I guess they finalize -- they put their 2 changes to the manual, the Board will review and 2 variance tag on there or whatever it is. So maybe 3 approve revisions to the manual. And we also need 3 it should be from the time that Sam actually 4 to update the flow chart for this process to show 4 approves -- because he does the final approval on 5 the Boiler Unit can approve a variance renewal 5 the variance anyhow with that inspection. 6 without having a technical change. 6 Am I looking at it wrong, or what do 7 So that's one thing I'm proposing, is 7 y'all think? CHAIRMAN MORELOCK: I think it 8 that we update the flow chart but based on 8 9 conversations, do we want that manual to be dated 9 makes sense. MR. O'GUIN: This is Chris. 10 to coincide with the successful site visit by the 10 11 Boiler Unit? That way the variance holder has a 11 We can do the inspection and, you 12 full three years for that renewal. Is that 12 know, request an updated cover letter for the 13 correct, or not? 13 manual as far as the date, to match the inspection MR. BOWERS: This is Harold Bowers. 14 14 date once it is approved. 15 I kind of agree with that because, I 15 MR. BAUGHMAN: I think that that's 16 mean, the Boiler Unit is doing a great job, but 16 a great idea. For one, I think that getting your 17 there is a lot of variances out there, and these 17 input, Harold and Sam and Chris, as you guys go 18 guys are understaffed somewhat. So sometimes it 18 out and look at these, does it not make it easier 19 might take -- after the Board approves it, it 19 for you? And it would make it easier for the 20 might take several months, up to six months, 20 customer to know when their manual expires. I 21 before maybe they get out there and do that first 21 mean that makes sense to me. 22 inspection. And maybe the date of the variance 22 MR. CHAPMAN: This is Sam Chapman, 23 should be from the time that Sam or one of his 23 Chief Inspector. 24 inspectors does that first inspection, gets that 24 Yes, it does. Yes, it does, to a 25 first inspection done. And that's when they issue 25 point, you know. But also, that -- I'm going to

1	Page 138 say customer is required you know, they can	1	Page 139 sent it through the mail. That way they've got
2	renew it up to 180 days out. So take, for	2	two chances to get it. And so we tell them to
3	instance, on this, they comment and they tell	3	make a copy and stick it in the manual. That way
4	them, hey, we've got a boiler variance. You say,	4	they know that, okay, it's going to expire at this
5	let me see your manual. Right there on the front	5	time unless they take that manual and throw it in
6	of the cover of it, it says November 2020. Do you	6	the corner somewhere and then they forget all
7	know in November of 2023, it's going to expire,	7	about it. But if they look at it every now and
8	without a doubt. Well, it's best to get that	8	then, it will show that it expires this date.
9	cover page changed to the same date that it got	9	Now, we're trying to make it to where
10	inspected.	10	the only thing they have to do is look at it and
11	MR. BAUGHMAN: You know, it may	11	they can see exactly when it expires.
12	also help to put the expiration date on it. They	12	MR. BOWERS: Now, as far as that
13	might you've got the approved date, but then	13	goes, you know, once they set a date, I don't
14	adding the expiration date. So there might be	14	think that they should on the renewals, I think
15	it might be helpful to put some kind of statement	15	they should keep their regular anniversary date as
16	on that cover letter, "Approved November 2020;	16	before. That way that's how we do on these
17	Expires November 2023. Resubmittable due by"	17	most vessels and boilers. Unless we ask for a
18	and I don't know if that is just a little bit more	18	definite change of the expiration date, once Sam
19	information and typing, but it sure puts out some	19	puts the original tag on that boiler or approve
20	good information.	20	do the final approval of that variance, it should
21	MR. CHAPMAN: Sam Chapman, Chief	21	always keep that date from then on out. Just
22	Inspector again.	22	whenever they do a renewal, still keep if they
23	When we sent out our letter, it's got	23	do it six months early or six months late,
24	all that information on it. So we tell them	24	whenever Sam and them renew it, it should still
25	that you know, because we sent an email and we	25	keep the original date that they originally
	Page 140		Page 141
1	Page 140 approved it. That way it will keep the State from	1	Page 141 exactly, but similar categories. And that also
1 2		1 2	-
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	Page 142		Page 143
1	attendant variance request, we've already talked	1	you've got to. You know, you've got to have it
2	about the computerized monitoring system, but I	2	hardwired in.
3	would like to add an item on the checklist that	3	I was interested to know what the
4	states are the emergency stops, e-stops, hardwired	4	outcome of that ever was. But there are systems,
5	from the remote station to the boiler. So we can	5	too, that do both. In other words, you can
6	just add clarity to that. What do you think?	6	have and that's why we ask the question, is it
7	Yes? No?	7	on your computer and is it hardwired. And it's
8	MR. BOWERS: Yes. That's a good	8	got to be hardwired.
9	idea. We've had questions before. I think we had	9	But there may be a time somewhere
10	a we've had a person come before the Board a	10	along the way that that has to come up, that there
11	while back, and we found out they weren't	11	may be an instance where this thing is so far away
12	hardwired; they were done through a computer	12	that it can't be hardwired. And we've looked at
13	system. So I think that's definitely a good thing	13	the systems that are out there. They've got
14	to put in the checklist.	14	systems now that can transmit two to three miles
15	CHAIRMAN MORELOCK: Okay.	15	and shut something off.
16	MR. BAUGHMAN: One of the things	16	So at any rate, what I was getting at
17	that we ran into I don't know. This has been	17	was technology is there that we mandate it to be
18	some time back in one of our variance requests.	18	hardwired, but is there ever an instance that we
19	And it was over in West Tennessee at one of the	19	will bring up and discuss a case where it may be
20	campuses. One boiler was so far away from the	20	not feasible, and then to be able to act upon it?
21	remote monitoring station, and hardwiring the	21	So I think our protocol is make it hardwired, but
22	e-stop back was going to cross roads, creeks, I	22	I wanted to bring this up because I remembered
23	don't know. But there was quite a bit that was	23	that in a case back, and I never knew what the
24	involved. And he said it's not feasible. We	24	resolution was on it.
25	really can't do it. And what we said was, well,	25	MR. BOWERS: I think the resolution
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	Dage 144		Page 145
1	Page 144 on that one is they had to go by the 20-minute	1	Page 145 MR. O'GUIN: Chairman, I did want
1		1 2	
	on that one is they had to go by the 20-minute		MR. O'GUIN: Chairman, I did want
2	on that one is they had to go by the 20-minute rule. I remember that one. And that's what I was	2	MR. O'GUIN: Chairman, I did want to add one of the e-stops. I know you were kind
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	Page 146		Page 147
1	they obviously, they are handled differently.	1	It may be somewhere else, but it's that definition
2	CHAIRMAN MORELOCK: Yeah, I think	2	of what's remote and what's local. And I was
3	it's possible. Of course, we've had that	3	reading back on the minutes the other day about
4	conversation and, like, with our position at	4	this discussion on the e-stops, the multiple it
5	Eastman, we don't want to shut all of our boilers	5	was quite a discussion that was there, and Brian's
6	down at the same time. We've got three power	6	input in on it. And what it came down to was it
7	houses. And so we're not opposed	7	wasn't a one size fits all. And there's still
8	MR. TOTH: But you handle	8	kind of discussion to be had within that end of
9	CHAIRMAN MORELOCK: We're not	9	it.
10	opposed	10	Part of it was, too, I was reading
11	MR. TOTH: You handled that through	11	about the e-stop that you guys activated at the
12	interpretation, though. You handle local e-stops	12	remote station, and it didn't shut the boiler off.
13	through the interpretation from	13	They were able to still start the boiler up with
14	CHAIRMAN MORELOCK: Yes. Yes.	14	the e-stop activated at the remote station, and
15	MR. TOTH: This is concerning	15	the e-stop was bad. So there was a lot of good
16	remote stations and remote e-stops.	16	discussion centered around that e-stop stuff. I
17	CHAIRMAN MORELOCK: Right.	17	don't know if we've really gotten a clear
18	MR. TOTH: Can you put in there	18	definition on it, but I was reading Mr. Fox's
19	guidelines indicating local e-stops if you wanted	19	input in on it, and I thought that was an
20	to, like I usually do in our site maps? I will	20	interesting comment, so
21	show where local e-stops are. But it's really a	21	CHAIRMAN MORELOCK: Well, and I
22	different a bird of a different color.	22	think the process of updating the checklist will
23	CHAIRMAN MORELOCK: Yeah.	23	probably be an avenue for us to improve it. You
24	MR. BAUGHMAN: That local e-stop	24	know?
25	-	25	MR. BAUGHMAN: I do. Just as a
	Dogo 149		Dago 140
1	Page 148 well, I'll wait until you're done with your	1	Page 149 add their input in on that?
1	well, I'll wait until you're done with your	1	add their input in on that?
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$ ^{\perp}$	Page 150	-	Page 151
	tying into an alarm circuit in just about any kind	1	But, you know, hey, I'm comfortable
2	of system isn't a difficult proposition where it's	2	with whatever the Board decides to do. It's just
3	alarming back to the remote monitoring station or	3	moving toward, I would just ask that you be aware
4	what have you. But to know that there are states	4	of are existing variances going to be
5	that are understanding the significance of what	5	grandfathered? Are you going to require for them
6	carbon monoxide, CO, poisoning brings to the	6	to update and tie those in? I think there's a lot
7	equation. And so that's where I don't want to	7	to it.
8	be I don't want to be reactive. I want to be	8	Rob Trout and I, we're really good
9	proactive, and I want our state to be on the	9	friends, the Chief in Texas. And I know that his
10	leading side of what we're doing as far as our	10	heart is in the right place with all that. And I
11	monitoring and our safety and so forth. So we	11	do see the ability to cause the boiler to go into
12	wouldn't actually be the first out there by any	12	alarm. I know Texas doesn't do variances like we
13	means, but that's why I wanted to bring this up	13	do, in the case of remote attendants. So I think
14	for discussion so that we could be able to revise	14	that's a little bit of a wrench that you have to
15	as we felt was in the best interest of public	15	deal with it, but it might be a really good idea.
16	safety.	16	MR. BAUGHMAN: And we've looked at
17	MR. TOTH: Well, now that you	17	the wiring of it. And as you know, not all alarms
18	mention it, I guess there could be a way if the	18	enunciate as to what they are. Industrial
19	carbon monoxide monitor was hardwired such as you	19	Combustion wires their air flow switch in through
20	would with a low-gas pressure switch or even a	20	the gas pressure switches. And so it enunciates
21	low-water control. You could, in essence, tie	21	as a if a gas switch trips, it enunciates as an
22	that into your limits and even into your alarm	22	air flow problem, when it's not.
23	circuit. That could work. It's just the concern	23	So not necessarily and the CO
24	would be what would be the identification at the	24	alarm is twofold with Texas. It's got an audible
25	boiler for that alarm once they find it.	25	alarm and it's also hardwired, so the problem that
1	Page 152 I've got with that particular code is, is that in	1	Page 153 it because the also, they've got requirements
2	a boiler room, you've got other devices that may		
			on how often that CO alarm has to be checked and
1 3	be producing the CO. In other words, you might	2	on how often that CO alarm has to be checked and calibrated. You can't just put one up and just
3	be producing the CO. In other words, you might have a ceiling heater. You might have a gas-fired	3	calibrated. You can't just put one up and just
4	have a ceiling heater. You might have a gas-fired	3 4	calibrated. You can't just put one up and just leave it. It's got to have its own checks along
	have a ceiling heater. You might have a gas-fired water heater that actually is producing the carbon	3	calibrated. You can't just put one up and just leave it. It's got to have its own checks along the way.
4	have a ceiling heater. You might have a gas-fired water heater that actually is producing the carbon monoxide, trips the alarm and shuts the boiler	3 4 5	calibrated. You can't just put one up and just leave it. It's got to have its own checks along the way. So there's a lot that goes in it with
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	Page 154	1	Page 155
1	state citizens a bunch of money. And we don't		got to be addressed. We don't want to get in the
2	look at we don't look at home hot water	2	pocketbooks of folks, but, you know e-stops got in
3	heaters, gas hot water heaters. You know, it can	3	the pocketbooks. So, you know, what we're doing
4	be a never-ending thing on how to comply. I think		is we're working in the interest of public safety,
5	we went through the interpretations. I think we	5	and we want to make it easy on the customers. And
6	should stick with that for now and see how that	6	so there's these mechanisms of saying, okay,
7	works. Down the road, we can address it again.	7	you've got a year or two years or three years to
8	MR. BAUGHMAN: I agree. And I	8	bring this under compliance so that you can at
9	think that sometimes we're a little ahead of	9	least put it into the budget and know it's coming
10	ourselves in interpretations. When we've got a	10	up. But at any rate, it's worth good discussion
11	new code that comes out with NBIC putting in place	11	on thanks, Harold, very much.
12	the carbon monoxide monitoring and alarms, and		CHAIRMAN MORELOCK: Very good. Any
13	understanding that that was going to be	13	other comments on that?
14	revamped it was a somewhat vague putting out of	14	(No verbal response.)
15	this information on the CO alarms. It didn't	15	CHAIRMAN MORELOCK: All right.
16	necessarily specify where they get installed, how	16	We'll go back to the last comment I had on my
17	far up off the ground, the PPMs, the calibrations	17	list was, again, I want to expand the boiler
18	and so forth. So it was just this mandate on	18	attendant personnel checklist items. I don't have
19	you've got to have these alarms. And then we put	19	a number to put with it yet, but just to,
20	that into place as far as interpretation. That's	20	basically, mirror what we do for the remote
21	just the way the industry happens, too.	21	attendant is to add some checklist items
22	But I think you're right in regards	22	concerning what are the minimum qualifications for
23	to we at least look at it to start being proactive	23	a boiler attendant personnel, what training do the
24	on how we move forward. Because at some point, it	24	boiler attendant personnel receive; who
25	will. And it's such a safety concern that it's	25	administers that training; what procedures are in
1	Page 156	1	Page 157
1	place for annual training for both experienced and	1	touched on all of them, Chairman.
2	place for annual training for both experienced and new personnel; do the boiler attendant personnel	2	touched on all of them, Chairman. CHAIRMAN MORELOCK: Okay. Great.
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Page 159 Page 158 1 MR. O'GUIN: There was another page 1 let me know. But great job. 2 that was with it. 2 Merry Christmas, everybody. 3 CHAIRMAN MORELOCK: Yeah, I've got 3 CHAIRMAN MORELOCK: Happy New Year, 4 those. I thought you thought -- were there 4 Marty. 5 other --5 Okay. Let's see. That takes care of 6 MR. O'GUIN: No, sir. I just the variance quideline and checklist revisions. 6 7 wanted to be sure everybody was -- I'll just try 7 Our next discussion item is for 8 to capture those in the checklist while we're 8 Mr. Baughman for Tennessee Code Annotated 9 revising it. 9 68-122-110, inspection of boilers. Paragraph (a)2 10 CHAIRMAN MORELOCK: Yeah, I've got 10 states, "Low-pressure heating boilers shall be 11 those from today. Yes, I do have those. 11 inspected both internally and externally 12 MR. O'GUIN: Okay. 12 biennially where construction will permit." 13 CHAIRMAN MORELOCK: I thought you 13 MR. BAUGHMAN: I'll be glad to go 14 meant some from previous meetings. 14 through this, but being 1:00 Central, 15 MR. O'GUIN: No, sir. Sorry for 15 2:00 Eastern, to me, this is worthy of some good 16 the confusion. input from those that are here, both Harold and 16 17 Sam and Chris. I know Marty has got input in on CHAIRMAN MORELOCK: Okay. No 17 18 problem. 18 it also. But it's something that I think is 19 MR. TOTH: Thanks, Chris. 19 worthy of discussion, moving to the March 10th 20 Mr. Chairman, I have to leave the 20 meeting, if that's okay, tabling this. 21 meeting. 21 CHAIRMAN MORELOCK: Okay. 22 Great job, everybody. But if 22 MR. BAUGHMAN: Unless anybody would 23 anybody --23 like to address it right on this end of it, which 24 Chris, if you need anything more from 24 I'm glad to report on, but being passionate on 25 me, or Mr. Chairman, if you need anything, just 25 this topic, I think it's something that I would Page 160 Page 161 1 like to have a bit of time to be able to present. 1 know it takes a big chunk out of your workweek to CHAIRMAN MORELOCK: Okay. We'll 2 have these meetings but I think they're extremely 2 3 productive and we get a lot done, certainly, to 3 make sure that we put this at the top of the 4 discussion item list at the March meeting. How is 4 protect public safety. And it's enjoyable. I 5 that? 5 enjoy the conversations. I enjoy the debates. MR. BAUGHMAN: That works real well 6 It's a Proverbs 27:17, as iron sharpens iron, one б 7 if that -- unless something else preempts it. But 7 person sharpens another. So I enjoy the 8 I'm good with that. Thanks. Thank you. 8 conversations. 9 CHAIRMAN MORELOCK: Thank you. 9 Does anyone want to say anything 10 before I move to adjourn? 10 Okay I'm making a quick note here. MR. BAUGHMAN: I want to make a 11 All right. That takes us to Item 9, 11 12 announcement of the next meeting. And so the --12 comment. I see Cassandra over there wearing it 13 unless the Board decides otherwise, which we have, 13 out. You guys do such a great job of being able 14 we're going to have a meeting tentatively 14 to put down into the minutes what all we were 15 scheduled for January 20th to handle the LG item. 15 discussing. And to be able to decipher what we're 16 But our next regularly scheduled Board of Boiler 16 saying, to be able to look and figure out who all 17 Rules meeting will be at 9:00 a.m. on March the 17 is doing -- what they're doing and saying, I'm 18 10th, 2021. And I'm an optimist, so I would love 18 just -- I've always been in amazement, but I just 19 to travel to Nashville to meet you-all face to 19 want to let you know how much you're appreciated 20 face. But we'll just have to see how vaccines go 20 in the job that you do to bring this information 21 and all that good stuff, and we'll go from there. 21 so that we can review it when we need to. So I 22 But if it's not face to face, we'll certainly do 22 just wanted to say thank you. 23 it electronically on that same day. And so, 23 THE REPORTER: You're more than 24 just -- that's what we'll do. 24 welcome. Thank you. I enjoy being here. 25 25 Again, I want to thank everybody. I CHAIRMAN MORELOCK: Anybody else

	D		5 163
1	Page 162 have any words before I adjourn?	1	Page 163 And a shout out to Cassandra for
2	MR. CHAPMAN: Well, I just wish for	2	being able to understand East Tennessee English.
3	everybody to have a Merry Christmas and Happy New	3	She should get an honorary Ph.D. for that in
4	Year.	4	linguistics and all that stuff.
5	MR. BOWERS: Same to you, Sam.	5	MS. GEORGE: For sure. I've been
6	MR. HENRY: I second that.		
		6	in her position and it's not an easy one.
7	MR. BAUGHMAN: I miss everybody. I	7	CHAIRMAN MORELOCK: It's not. But,
8	miss the physical presence of everybody. But	8	you know, working with Sam and the Boiler Unit and
9	know, too, that I actually have everybody in a	9	everybody there, it's just a privilege.
10	daily prayer list, and I think that that's	10	And Tom, we're excited to have you
11	important for me, personally, is to specifically	11	come on board with us.
12	and passionately pray for each other. And I know	12	And so in that vein, you know, one
13	that might not be the protocol in a state meeting	13	thing that the Board does need is please put your
14	to put out, but I wanted to let you guys know that	14	thinking hats on and be much in thought of some
15	this is a great group of human beings, and it goes	15	possible candidates to replace Mr. Fox's position
16	beyond the work. This is what we do for a living	16	on the Board. We do need to provide some names to
17	but it's not what's most important in our lives.	17	the State and get that process going. It's a very
18	And this is a great group of people to fellowship	18	important role, and we need somebody in that role
19	with.	19	to balance the Board out and bring great
20	CHAIRMAN MORELOCK: I agree. Well,	20	information to the table for us.
21	I also wish everyone a Merry Christmas and a Happy	21	MR. BAUGHMAN: I have been working
22	New Year, and I do thank you for the great year	22	on that, personally.
23	we've had with the meetings, especially with all	23	CHAIRMAN MORELOCK: Good.
24	the new technology that we've learned and been	24	MS. BENNETT: And with that said,
25	successful with.	25	Mr. Chairman, if one of the board members are not
25	Successiui with.		
	Dama 164		De 11.
1	Page 164 able to make the meeting, if you could let us	1	Page 165 CERTIFICATE
	able to make the meeting, if you could let us		
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