1	STATE OF TENNESSEE
2	BOARD OF BOILER RULES
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8	QUARTERLY MEETING OF THE
9	BOARD OF BOILER RULES
10	December 12, 2018
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22	CASSANDRA M. BEILING LCR#-371
23	STONE & GEORGE COURT REPORT NON AL 2020 Fieldstone Parkway
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25	615.221.1089

Stone & George Court Reporting 615.221.1089

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2	Brian Morelock, Chairman Owner-User Representative	2	18-08 East Tennessee State University
3 4	David W. Baughman	3	10-10 Valero Memphis Relinery
5	Owner/User Representative Allied Boiler & Supply, Inc.	4	18-12 Maury Regional Medical Center
6	4006 River Lane Milton, Tennessee 37118	5	10 12 Fauty Regional Medical
7		6	18-13 Fort Sanders Regional Medical
8	Insurance Representative	7	18-14 Lucite International
9	Centerville, Tennessee	8	18-15 Claiborne Medical Center
10	Terry Fox	9	AGENDA Call Meeting to Order
11	Chattanooga, Tennessee	11	II. Introductions and Announcements
12	Dr. S. Keith Hargrove	13	IV. Approval of the September 19, 2018 Meeting
13	Mechanical Engineer Representative	14	Minutes
14		15	V. Chief Boiler Inspector's Report
15 16	Sam Chapman, Chief Boiler Inspector	16	VI. Variance Report
17	Chris O'Guin, Deputy Boiler Inspector	17	VII. Old Business 18-08 East Tennessee State University
18	Kim Y. Jefferson, Esq.	18	VIII. New Business 18-10 Valero Memphis Refinery
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22	Ebony Paige	21 22	18-15 Claiborne Medical Center IX. Open Discussion Items
23	Assistant Board Secretary	23	Tentative Meeting Dates for 2019
24	** Reporter's Note: All names are spelled phonetically unless otherwise provided to the	24	X. Announcement of Next Meeting Wednesday, March 13, 2019
25	Reporter by the parties.	25	XI. Adjournment
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1 2	Page 4 * * * * * * * * CHAIRMAN MORELOCK: Good morning,	1 2	Page 5 with Cassandra and we'll do introductions. THE REPORTER: Cassandra Beiling,
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1	ECS Consulting and the Boisco Training Group.	1	Department of Labor.
2	MR. DEATON: Julius Deaton, Fort	2	MR. GOLDEN: James Golden,
3	Sanders Regional Medical Center.	3	StoneCrest Medical Center.
4	MR. SWANSON: James Swanson,	4	MR. KELLEY: Greg Kelley, Boiler
5	Ft. Sanders Regional Medical Center.	5	Supply Company.
6	MR. CAMPBELL: Mike Campbell,	6	MR. GROSS: Jeremy Gross, chief
7	Claiborne Medical Center.	7	inspector at the Valero Memphis Refinery.
8	MR. YEARY: Larry Yeary, Claiborne	8	MR. JOSHI: Fracad Joshi, Wacker,
9	Medical Center.	9	Charleston.
10	MR. CORVIN: Paul Corvin, Maury	10	MR. SHIELDS: Scott Shields, Toyota
11	Regional Medical Center, and my wife, Wanda.	11	Production Engineering.
12	MR. NEVILLE: James Neville,	12	MR. HIPP: Jeremy Hipp, Wacker
13	Neville Engineering.	13	Polysilicon.
14	MR. RYAN: Mike Ryan, Deputy Boiler	14	MR. ENG: Richard Eng, Wacker
15	Inspector.	15	Chemical Corp.
16	MS. RHONE: Deborah Rhone, Boiler	16	CHAIRMAN MORELOCK: Thank you.
17	Office Supervisor.	17	There will also be an attendance sheet that will
18	MR. BAUM: Scott Baum, Hartford	18	be sent around, so please make sure you sign in on
19	Steam Boiler.	19	that as well.
20	MS. KIRBY: Lynn Kirby, Department	20	Continuing on with announcements,
21	of Labor and Workforce.	21	Assistant Commissioner Jefferson and Sam Chapman
22	MR. LOGGINS: Patrick R. Loggins,	22	and myself, along with some other folks from the
23	University of Tennessee, supervisor of the boiler	23	boiler unit, back in October, we attended the
24	operation.	24	Sunset hearing.
25	MS. BARNETT: Doris Barnett,	25	And do you want me to report the
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1	Page 10	1	Page 11
2	to send us an email on November 26th to let us	2	MR NEVILLE: Very well
2	know that that would be moved to the March agenda	2	CHAIRMAN MORFLOCK: So thank you
4	So so noted on that item that that will be		And it will need an item number aggigned to it ag
5	removed from our December acords and added to the		And it will need an item number assigned to it as
6	March 2010 acorda	6	well.
7	March 2019 agenda.		(No works) regrange)
	We do have another item under		(NO VERDAL RESPONSE.)
8	section / for old business. This item was tabled	8	CHAIRMAN MORELOCK, All right.
10	at the september 19th meeting and moved to the	10	Hearing none, do I have a motion to accept the
10	December meeting. However, due to weather		modified agenda?
	conditions in East Tennessee, ETSU contacted the		MR. FOX: I'll make a notion to
12	chief inspector and said they would be unable to	12	accept.
13	make it. So we will move their item, which is	13	CHAIRMAN MORELOCK: Do I have a
14	18-08, that will be moved to the March 13th	14	second?
15	meeting. Are there any additional changes or	15	MR. BOWERS: Second.
16	comments about the agenda?	16	CHAIRMAN MORELOCK: Any discussion?
17	MR. NEVILLE: The UT Health	17	(No verbal response.)
18	Science, has that been distributed, a variance	18	CHAIRMAN MORELOCK: Hearing none,
19	request for UT Health Science?	19	all in favor say "aye."
20	CHAIRMAN MORELOCK: That item was	20	(Affirmative response.)
21	not placed on our agenda. The board members have	21	CHAIRMAN MORELOCK: Any negatives?
22	not reviewed the manuals.	22	Abstentions? Not voting?
23	MR. NEVILLE: I understand.	23	(No verbal response.)
24	CHAIRMAN MORELOCK: We've not	24	CHAIRMAN MORELOCK: Okay. So we
25	received the manuals, so what we need to do is	25	have an approved agenda. So thank you.
	Page 12		Page 13
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	Dage 14		Dago 15
1	over to Chief Inspector Sam Chapman.	1	This quarter we have completed four
2	MR. CHAPMAN: Thanks. Okav.	2	variance audits with three approved. Tennova
3	Number of inspections by state inspectors is	3	Healthcare of Clarksville was approved; J M Huber
4	2 775: insurance inspectors 5 375: giving us a	4	was approved: John Manville was approved
т Б	total of 8 150 Total delinguent number of	5	Cookeville Regional Medical failed due to lack of
6	veggela 70 125: state ingrestors 1 241: ingurance	6	training And that is in the variance report
0	vessers, 70,135, state inspectors 1,341, insurance		CHAINING. AND CHAINS IT ON THE VARIANCE REPORT.
/	1 000		CHAIRMAN MORELOCK: Okay. Any
0	1,000.		questions about Mr. O'Guin's variance report?
9	Number of code violations found was	9	(No verbal response.)
10	31. Uncorrected code violations is one.	10	CHAIRMAN MORELOCK: Okay. Thank
11	Variance report will be performed by		you, gentlemen.
12	Chris O'Guin. This report was from July through	12	That will take care of Items 5 and 6.
13	September of 2018.	13	That will take us to Item 7, which is old
14	CHAIRMAN MORELOCK: Okay.	14	business, and that's the East Tennessee State
15	MR. CHAPMAN: Thank you.	15	University. And since they are not here and
16	CHAIRMAN MORELOCK: Any questions	16	requested to move that to the March agenda, the
17	of Chief Chapman's report?	17	only comment I would make on this item is that, to
18	(No verbal response.)	18	the board members who have reviewed that manual
19	CHAIRMAN MORELOCK: Okay. I'll	19	and have comments, I think it would be very
20	turn it over to Assistant Chief Inspector Chris	20	efficient if we would go ahead and send those
21	O'Guin.	21	comments to East Tennessee so that they can
22	MR. O'GUIN: As of today, we have	22	consider those to update their manual before we
23	115 known variances; 8 require a follow-up	23	review it in March. Okay?
24	inspection; 56 are active; 11 require a	24	MR. BAUGHMAN: How should we submit
25	reinspection; and 40 are dormant.	25	those comments?
	Page 16		Dage 17
1	Page 16 CHAIRMAN MORELOCK: I'm going to	1	Page 17 MR. GROSS: All right. Good
1 2	Page 16 CHAIRMAN MORELOCK: I'm going to submit them to the boiler unit, to Chief Inspector	1 2	Page 17 MR. GROSS: All right. Good morning, Board and quests.
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1	Page 18 was completely re-circuitized and key parameters	1	Page 19 Evergreen activities are continuing
2	were updated.	2	to be ongoing for our program. We are doing
3	Decided to not have any scheduled	3	continuous reviews of our assigned damaged
4	major maintenance outages for 2018. Extensive	4	mechanisms and executing proper inspection
5	planning efforts are ongoing for our 2019 major	5	techniques. We're recording those inspection
6	maintenance outages.	6	results and grading them per the respective
7	You see Table A on the next page for	7	effectiveness tables. We're scheduling the next
8	our inspection activities completed in 2018 and	8	inspections per our RBI methodology.
9	scheduled for 2019. The majority of the items	9	We are using nonintrusive inspection
10	listed in 2019 will be complete in the scheduled	10	techniques as well during our external
11	major maintenance outages.	11	inspections. So not just visual inspections only
12	We do also have two hydro-treater	12	there; we are using NDE techniques to help with
13	units that will undergo reactor catalyst	13	corrosion monitoring or cracking mechanisms.
14	change-outs. We will execute other inspections at	14	Routine corrosion monitoring, as well
15	that opportunity.	15	as specialty non-destructive testing is performed
16	As far as Table A, in 2018, we	16	when required. And we are revalidating our fluid
17	performed 40 internal inspections and we have 205	17	properties and operating conditions, which are
18	planned for 2019. There's quite a bit of work	18	completed on a five-year interval.
19	planned for next year. External inspections	19	Jurisdictional inspection activities
20	completed in '18 were 159, and then we have 302	20	on registered equipment are maintained with zero
21	scheduled for 2019.	21	delinguencies. And they are managed outside of
22	CUI inspections completed in '18 were	22	the RBI program.
23	21. and 20 scheduled for '19. Jurisdictional	23	Process equipment is circuitized and
24	inspections completed 206 and we have 197	24	risk ranked in the RBI program Our data
25	scheduled for the 2019 calendar year	25	management software integrates design data the
25	scheduled for the 2019 catendar year.	25	indiagement software integrates design data, the
1	Page 20 visual inspections our thickness monitoring data	1	Page 21
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	Page 22		Page 23
1	MR. GROSS: Yes, sir?	1	manpower.
2	DR. HARGROVE: The increase in	2	Current staff at my site that I
3	internal inspections from 2018 to 2019 is rather	3	manage is 28 people that do day-to-day inspection
4	significant. Can you describe or is there any	4	activities year around. But during major
5	manpower or personnel requirements or changes, as	5	turnarounds like that, I may have staff up to
6	required, to make that or increase that	6	between 100 to 150 people, depending on the
7	frequency for 2019?	7	inspections that are coming due.
8	MR. GROSS: Yes, sir, there is. So	8	DR. HARGROVE: Thank you.
9	for our major maintenance outage, I'll have 106	9	MR. GROSS: Yes, sir.
10	people that will be working on inspection pass	10	CHAIRMAN MORELOCK: Any questions
11	during that outage. That's a 54-day outage that	11	or comments from the Board or from the visitors?
12	we'll be executing at that time. It's got five	12	MR. BAUGHMAN: I would like to ask
13	process units that have all these inspection	13	Jeremy a question.
14	activities that will occur. So we'll execute	14	Did you have any unplanned outages
15	those in that 54-day window.	15	this year?
16	We will also maximize efforts on	16	MR. GROSS: So we had a heater that
17	discovery work. So at our site, one of my	17	we had to do some pigging from a decoking
18	policies is we complete all CML inspections	18	standpoint. So yes, sir, we actually did. We
19	12 months in advance of your major turnaround. So	19	brought in a company to decoke the heater. We
20	we limit the discovery items, maybe, by finding a	20	actually had to replace some tubes at that time,
21	nozzle that was inspected four years ago with a UT	21	and we followed, you know, the requirements by the
22	thickness, and if corrosion rates increased, we	22	Board. Those are Tennessee Special items, and we
23	don't get an uh-oh in our outage, so we're able to	23	did R-1 code reports on those heaters on that
24	forecast repairs better. However, executing the	24	in-particular heater.
25	inspections, we still have to increase our	25	MR. BAUGHMAN: How did it fall
1	Page 24 within the RBI program, as far as since it came	1	Page 25 CHAIRMAN MORELOCK: Well, again,
2	up as an unplanned and it had repairs, how did it	2	Tennessee Code Annotated 68-122-110 dictates the
3	fall within the inspection program?	3	inspection frequencies. It also states in there
4	MR. GROSS: So actually did what's		
5		4	that the Board can allow those inspection
-	called a smart pigging technique on that heater,	4 5	that the Board can allow those inspection frequencies to be extended. And then, recently,
6	called a smart pigging technique on that heater, as well, to gather 360-degree volumetric thickness	4 5 6	that the Board can allow those inspection frequencies to be extended. And then, recently, Subparagraph F was added for the extension of
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	5		
1	Page 26 CHAIRMAN MORELOCK: Oh. thank you.	1	MR. GROSS: Thank you very much.
2	Thank you.	2	CHAIRMAN MORELOCK: Thank you.
3	Any conflicts of interest for this	3	Our next item is 18-11, which is
4	item?	4	Wacker Polysilicon. They're also going to give
5	(No verbal response.)	5	you an update on their RBI program.
6	CHAIRMAN MORELOCK: None. So do I	6	MR. ENG: Good morning, board
7	have a motion?	7	members. Richard Eng, Wacker Chemical Corp.,
8	MR. FOX: I'll make a motion to	8	Mechanical Integrity.
9	accept the program.	9	MR. HIPP: Jeremy Hipp, Wacker
10	CHAIRMAN MORELOCK: Okay. Do I	10	Chemical Corp., Mechanical Integrity.
11	have a second?	11	MR. FNG: I'm here today on behalf
12	MR. BAUGHMAN: Second.	12	of Wacker Polysilicon North America to present to
13	CHAIRMAN MORELOCK: Thank you Any	13	the Board our status of the RBI program and
14	additional comments?	14	inspection for 2018
15	(No verbal response)	15	Tust a little quick undate At the
16	(HO VERMAI TESPONDE.) CHAIRMAN MORFLOCK: All in favor	16	Charleston Tennessee facility we have
17	cav "ave "	17	implemented a risk assessment approach in
18	(Affirmative regnonge)	18	conformance with ADI PACACED and uses the Meridium
19	(AITHINGTIVE TESPONSE.) (HAIRMAN MORFLOCK: Opposed?	19	ADM software package to dogument inspection
20	(No verbal response)	20	regults and schedule future inspections As
21	(NO VEHILLI TESPONDE.) CHAIRMAN MORFLOCK: Abstentions	21	earlier reported Wacker completed initial
21	not voting?	22	haseline thickness measurements at strategic
22	(No verbal response)	22	locations in a representative set of pressure
23	(HO VEHALI TESPONDE.) CHAIRMAN MORFLOCK: You have an	24	vessels We specified thickness measurement
25	approved RBI program	25	locations TMLs in 66 pressure vessels that were
20			
	Darge 28		Dage 20
1	Page 28 chosen based on equipment type, materials of	1	Page 29 We will continue to update the Tennessee
1 2	Page 28 chosen based on equipment type, materials of construction, chemical composition, and operating	1 2	Page 29 We will continue to update the Tennessee board members annually in December on our risk
1 2 3	Page 28 chosen based on equipment type, materials of construction, chemical composition, and operating conditions throughout the entire facility.	1 2 3	Page 29 We will continue to update the Tennessee board members annually in December on our risk assessment and our findings.
1 2 3 4	Page 28 chosen based on equipment type, materials of construction, chemical composition, and operating conditions throughout the entire facility. Today, we have conducted round three	1 2 3 4	Page 29 We will continue to update the Tennessee board members annually in December on our risk assessment and our findings. On Table 1 below, we have summarized the
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	Page 30		Page 31
1	components, one of which is the shell, the tube,	1	other reasons. We just have an opportunity to do
2	and the head. So that's why the component and the	2	these internal inspections.
3	equipment quantities are different.	3	So in 2010, we have ten, maybe a few
4	At this point, I would like to turn it	4	more. And we anticipate similar inspections going
5	over to the Board for any questions on our 2018	5	out into 2019, perhaps a few more.
6	inspections and our 2019 planned inspections and	6	DR. HARGROVE: Mr. Chairman, I
7	our current risk ranking of our facility.	7	would like to recommend that the number of
8	CHAIRMAN MORELOCK: What questions	8	inspections definitely increase.
9	does the Board have?	9	You list a range, from 10 to 20. So
10	DR. HARGROVE: With regard to your	10	it's possible you did 10 in 2018 and it's possible
11	internal inspections and to, I guess, minimize	11	you could do 10 in 2019. I would suggest, with
12	risks, what was the logic between with regard	12	regard to this type of risk-based inspection, that
13	to roughly the same amount of internal inspections	13	you do at least twice that. So I would like to
14	for 2018 to 2019?	14	recommend that at least 20 internal inspections
15	MR. ENG: In the Meridium. the	15	are done with regard to this type of inspection
16	recommendation so far in all of our pressure	16	program
17	vessels it's a brand-new facility and they kick	17	MR FNG: It's likely to eveed
10	out these recommendations going out 5 10	10	that but we have not give these inspections become
10	15 years which walrs not there yet. In ADI 510	10	available if the equipment descript as down. It is
19	15 years, which we re not there yet. In API 510	19	available if the equipment doesn't go down. It is
20	and 570, which we follow currently, the inspection	20	still sooner than the recommendations on Meridium,
21	frequency is sooner than the Meridium	21	and it's also earlier than API 510 and API 570
22	recommendation. And we're not there yet as well.	22	requirements. But yes, I can take your note on
23	These inspections are predominantly	23	that and we're likely to exceed that.
24	inspections that are available to us due to	24	CHAIRMAN MORELOCK: Well, to speak
25	scheduled down time, due to replacement, due to	25	to Dr. Hargrove's comment and recommendation,
	Page 32		Page 33
1	Page 32 based on what Wacker is doing, since it is a new	1	Page 33 to me
1 2	Page 32 based on what Wacker is doing, since it is a new facility, they did their thickness monitoring and	1 2	Page 33 to me CHAIRMAN MORELOCK: With the total
1 2 3	Page 32 based on what Wacker is doing, since it is a new facility, they did their thickness monitoring and all that on brand-new equipment and put it into	1 2 3	Page 33 to me CHAIRMAN MORELOCK: With the total pieces of equipment, yes.
1 2 3 4	Page 32 based on what Wacker is doing, since it is a new facility, they did their thickness monitoring and all that on brand-new equipment and put it into service. They're bound by the inspection	1 2 3 4	Page 33 to me CHAIRMAN MORELOCK: With the total pieces of equipment, yes. DR. HARGROVE: Yeah. Okay.
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	Page 34		Dage 35
1	what would that look like?	1	have API 510 certification internally. And there
2	MR. ENG: To answer your question,	2	are some inspections where we would actually ask
3	Mr. Chairman, our RBI program that we want to	3	our sister plant in Germany to assist.
4	validate	4	CHAIRMAN MORELOCK: Okay. So
5	CHAIRMAN MORELOCK: Yes.	5	but from the State of Tennessee for an inspection.
6	MR. ENG: would take anywhere	6	it's either going to have to be an ATA, an
7	between six to ten years is my thinking	7	owner-user or the state for an official
ß	CHAIRMAN MORELOCK: Okay	, R	inspection for your certificate of operation
q	MR FNG: And we're only in about	g	MR FNG: Okay
10	four years of operation today so we are still	10	MR (HADMAN: Yes That's what it
11	validating our PBI program internally as well as		in in the second
10	for the board members	12	15.
12	TOT THE BOARD MEMBERS.	12	MR. BAOGHMAN, So the next question
14	CHAIRMAN MORELOCK · Yes.	13	1 d nave, Richard, 15 now many vessels do you nave
14	So does that answer your question,	14	that are going to require inspections?
15	Dr. Hargrove?	15	MR. ENG: For 2019 or forever?
16	DR. HARGROVE: Yes, it does. Not	16	MR. BAUGHMAN: Just for now. In
17	the conclusive, though.	17	other words, what I'm getting at is how many
18	CHAIRMAN MORELOCK: Right. Well,	18	vessels we're going to have. If these are going
19	it's a growing process with Wacker.	19	to be state inspections, and we've got ten vessels
20	Any other questions?	20	or we've got a thousand vessels, how we're going
21	MR. BAUGHMAN: Yes.	21	to incorporate that in manpower-wise to actually
22	Richard, who currently performs these	22	get that accomplished. Same thing with insurance.
23	inspections?	23	If it's an insurance inspector, how is that
24	MR. ENG: All of these internal	24	actually going to get taken care of manpower-wise?
25	inspections are done in-house at the moment. We	25	Because it's going to tie up somebody to a pretty
	Page 36		Page 37
1	good extent. Page 36	1	Page 37 several years ago on our methodology. And that
1 2	Page 36 good extent. MR. ENG: We understand that quite	1 2	Page 37 several years ago on our methodology. And that approach was accepted.
1 2 3	Page 36 good extent. MR. ENG: We understand that quite well.	1 2 3	Page 37 several years ago on our methodology. And that approach was accepted. I'll give an example. We have five
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Page 38 Page 39 1 external inspection only? Or these certain 1 years yet. Okay? So again -- so we've got new 2 objects don't fall into that class; they fall into 2 board members, so we have not approved any 3 a class needing an internal inspection. 3 extended inspection frequencies yet. We agree MR. ENG: I think all pressure 4 with your methodology, but we have not actually 4 5 vessels will require an internal inspection 5 made any approvals of extension of internal inspection frequencies. 6 eventually. So it's either 10 years, based on 6 7 API, or something beyond 10 years based only RBI 7 Does that clarify things a little 8 bit? 8 recommendation. So that's how we know. 9 CHAIRMAN MORELOCK: So just to add 9 MR. BAUGHMAN: It does. 10 to that, as you work through these 780 registered 10 The one thing that comes to mind, 11 vessels with the State of Tennessee, if you do 11 Richard, is just the logistics of inspecting 780 12 have trains where everything is identical, yes, 12 jurisdictional vessels and how that's going to be 13 the Board would discuss and I would say they would 13 communicated back to the State, whether the State 14 approve if the metallurgy is the same, the 14 is going to be inspecting them, because then the 15 temperature, the pressures, operating conditions. 15 boiler unit is going to need to be well-advised of 16 But if you do any management and change work to 16 that. From a manpower-wise and just running the 17 any of those trains, you're going to have to go math out on it, it's a lot of time for an 17 18 back and reevaluate. 18 inspector to be at your facility taking care of 19 MR. ENG: That's correct. That's 19 other duties also. And right now, manpower is 20 our intent, and that's our requirement. 20 kind of at a premium within our unit. 21 CHAIRMAN MORELOCK: And so then it 21 So moving forward, this just needs to 22 becomes -- we've not gotten to the stage as a 22 be communicated fairly soon, as these inspections 23 board yet where Wacker has come to us and said, 23 come due and so forth on there. 24 "We are requesting to extend an internal 24 I don't have the answer, but I know 25 inspection frequency to a number beyond the two 25 that it just needs to be brought up and discussed Page 40 Page 41 MR. ENG: If I may clarify 1 so that everybody is on the same page and is able 1 2 to address it. 2 something. Not every part of the plant has a 3 MS. JEFFERSON: I just have a 3 spare train on idle. For instance, another part 4 question. Is it possible for some of the vessels 4 of the plant, we have four trains, but they rotate 5 to be placed on intervals to be actually inspected 5 these four trains. Okay? So all trains could be 6 running at the same time. The one train 6 intervals, or is it necessary that all of them be 7 performed at the same time? Because if all of 7 individually can always come down for repairs and 8 them are performed at that same time, as you said, 8 inspections and modifications. So if that 9 that would put a burden on the State if the State 9 clarifies your question there. 10 is required to perform all those inspections. 10 The other part is that -- an example CHAIRMAN MORELOCK: So the key is 11 11 of a filter that we have is registered with the 12 are all the trains operating at the same time? 12 State. We have ten filters, and we registered ten 13 MR. ENG: No. 13 vessels. If these filters are all on the same 14 CHAIRMAN MORELOCK: Okay. There's 14 application, identical in design, identical in 15 your answer. So as a train comes online and 15 metallurgy, if we conduct one internal inspection, 16 we are using the methodology that that inspection 16 becomes active, that two-year clock starts. When 17 they shut down a process, then they can let the 17 applies to all ten. And that was the approach 18 State know that that train or those vessels are 18 that we took to determine inspection frequencies. CHAIRMAN MORELOCK: Hold on. 19 inactive. But then they would have to be 19 20 inspected before it goes back into service. But 20 Deborah had a question. 21 if they're on a continuous service, if what 21 MS. RHONE: Oh, no. I was just 22 Baughman said is true, you would have 780 vessels 22 going to say I believe Tommy Spangler is the state 23 potentially that you would be inspecting every two 23 inspector that performs most of the inspections 24 years. So that's where their program will have to 24 with Wacker, and yes, Tommy does inspect them in 25 intervals. Normally, we receive inspection 25 detail what that's going to look like for us.

	Page 42		Page 43
1	reports either weekly or biweekly of different	1	MR. BAUGHMAN: Sure. Well, I guess
2	vessels that have been inspected. So no, they're	2	what I'm getting at is that we couldn't just carte
3	not inspected all at the same time.	3	blanche say that they're all ten the same
4	MR. ENG: He comes out, I would	4	MR. ENG: Understood.
5	say, not quite weekly, but every other week he's	5	MR. BAUGHMAN: and use one
6	on our site.	6	inspection to cover all ten.
7	CHAIRMAN MORELOCK: Mr. Bowers, you	7	MR. ENG: We would be selective in
8	had a question.	8	that criteria.
9	- MR. BOWERS: Well, I think that	9	MR. TOTH: Just curiosity, what
10	answered it. I was going to ask if it's covered	10	kind of NDE do you perform on these vessels, if
11	by an insurance inspector or a state inspector.	11	any?
12	MR. ENG: Oh, yes. State inspector	12	- MR. ENG: PT is very common for us.
13	comes out regularly.	13	MR. TOTH: Any volumetric?
14	MR. BAUGHMAN: So taking the	14	CHAIRMAN MORELOCK: Well, you're
15	example of the ten filters all being identical on	15	doing ultrasonic thickness readings.
16	the same process, but what how do we know that	16	MR. TOTH: Okay.
17	one isn't utilized more than the other? In other	17	MR ENG: Yeah We do IT we do
18	words are they all ten online at the same time	18	PT
19	taking the same load, or does one filter have more	19	CHAIRMAN MORELOCK: You don't have
20	use than another and so forth?	20	what I have, so
21	MR. ENG: I mean, that's a good	21	MR. TOTH: Yeah. I know I don't
22	question Maybe all ten are not being used a	22	have what you have
23	hundred percent all the time. We would take the	23	MR ENG: and sometimes we do
24	worst-case situation, the highest use in the worst	24	RT. Depends on the situation.
25	possible environment.	25	MR. ROBINSON: You said your
	Page 44		Page 45
1	Page 44 inspectors are APS inspectors. Are they also	1	Page 45 DR. HARCROVE: (Indicating.)
1 2	Page 44 inspectors are APS inspectors. Are they also certified to the National Standard	1 2	Page 45 DR. HARGROVE: (Indicating.) CHAIRMAN MORELOCK: Yes,
1 2 3	Page 44 inspectors are APS inspectors. Are they also certified to the National Standard MR. ENG: No.	1 2 3	Page 45 DR. HARGROVE: (Indicating.) CHAIRMAN MORELOCK: Yes, Dr. Hargrove.
1 2 3 4	Page 44 inspectors are APS inspectors. Are they also certified to the National Standard MR. ENG: No. MR. ROBINSON: No credentials at	1 2 3 4	Page 45 DR. HARGROVE: (Indicating.) CHAIRMAN MORELOCK: Yes, Dr. Hargrove. DR. HARGROVE: I just wanted to ask
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	Page 16		Page 47
1	equipment 1, 2, 3 so you can	1	of two things, either a noncorrosive service
2	MR. HIPP: Yeah. We have a	2	and/or an extension of internal inspection
3	consequence of failure and a probability of	3	frequencies. So as they gather their data,
4	failure that we go through.	4	they'll come back to the Board with a proposal.
5	MR. ROBINSON: Perfect.	5	They're just giving us an update of where they're
6	MR. HIPP: So we're calculating a	6	at in the early stages of a new facility. Okay?
7	probability of failure based on design and we	7	DR. HARGROVE: Mr. Chairman, is
8	process information and consequence, of course.	8	there a date when this period ends?
9	based on fluid categories, things like that and	9	CHAIRMAN MORELOCK: Well, I mean.
10	operating pressures and	10	as long as they're doing their internals every two
11	MR. ROBINSON: Very nice. And	11	vears, they can go as long as they want to.
12	then, naturally, removing the probability of	12	MR. BAUGHMAN: Deborah Rhone
13	failure by increasing inspection or	13	mentioned that Tommy Spangler was the current
14	MR HIDD: Yes Well right now	14	inspector jurisdictional inspector for the State
15	our probability since eventhing is new is low	15	of Tennessee coming into the facility How many
16	so we're just trying to keep it low is our	16	inspectors and he's there weekly hiweekly
17	MP PORTNSON: Keep it there Very	17	once every two weeks How many vessels is he
18	nice	18	inspecting each time he comes out?
10	CHAIPMAN MOPFLOCK: And so that	10	MS PHONE: Usually it's between
20	methodology is coming from API 580 and 5812	20	20 and 35 when he comes in for his visit
20	MP HIDD: Yes sir	20	MP BAUCHMAN: Okay So he's doing
21	CHAIDMAN MODELOCK: Okay So just	22	20 to 35 wessels per visit
22	to kind of wrap this up Wacker is currently doing	22	MS PHONE: Now it may not be that
24	internals on the two-year schedule They're	24	same day you know
25	trying to build an RBI program to accomplish one	25	MR BAUCHMAN: Okay Maybe during
22	cifing to baile an abi program to accomption one	23	The Discontine only. The during
	Dage 48		Page 49
1	Page 48 the week?	1	Page 49 MR. ENG: We'll update that as
1 2	Page 48 the week? MS. RHONE: Right. It was during	1 2	Page 49 MR. ENG: We'll update that as well.
1 2 3	Page 48 the week? MS. RHONE: Right. It was during the time frame that when we received those the	1 2 3	Page 49 MR. ENG: We'll update that as well. CHAIRMAN MORELOCK: Any other
1 2 3 4	Page 48 the week? MS. RHONE: Right. It was during the time frame that when we received those the information, the inspections, yes.	1 2 3 4	Page 49 MR. ENG: We'll update that as well. CHAIRMAN MORELOCK: Any other questions?
1 2 3 4 5	Page 48 the week? MS. RHONE: Right. It was during the time frame that when we received those the information, the inspections, yes. MR. BAUGHMAN: Okay. I was just	1 2 3 4 5	Page 49 MR. ENG: We'll update that as well. CHAIRMAN MORELOCK: Any other questions? MR. BOWERS: I would just recommend
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	Page 50 certificate of operations. So anyway but the		Page 51 (Affirmative response.)
2	point is when you're running a train, you need to	2	CHAIRMAN MORELOCK: Opposed?
3	make sure everything that gets pressured up has	3	(No verbal response.)
4	got valid, current certificates so you can safely	4	CHAIRMAN MORELOCK: Abstentions.
5	operate it.	5	not voting?
6	MR. ENG: That's our requirement as	6	(No verbal response.)
7	well as yours.	7	CHAIRMAN MORELOCK: Thank you,
8	- CHAIRMAN MORELOCK: Okay. Any	8	gentlemen.
9	other questions or comments?	9	MR. ENG: Thank you.
10	(No verbal response.)	10	CHAIRMAN MORELOCK: That will take
11	CHAIRMAN MORELOCK: All right. Do	11	us to Item 18-12, Maury Regional Medical Center
12	I have a motion for Wacker to continue their RBI	12	requesting a new variance for two high-pressure
13	program development?	13	boilers that operate under the requirements of
14	MR. BAILEY: Conflicts?	14	0800-03-0308(11).
15	CHAIRMAN MORELOCK: Thank you.	15	So, gentlemen, if you'll introduce
16	Any conflicts of interest?	16	yourselves, and you have the floor.
17	(No verbal response.)	17	MR. NEVILLE: Good morning. James
18	CHAIRMAN MORELOCK: Okay.	18	Neville with Neville Engineering.
19	DR. HARGROVE: A motion to approve.	19	MR. CORVIN: Paul Corvin, Maury
20	MR. BOWERS: Second.	20	Regional Medical Center, director of plant
21	CHAIRMAN MORELOCK: Any additional	21	operations. And we appreciate your attention and
22	comments?	22	your presence.
23	(No verbal response.)	23	MR. NEVILLE: Our proposal today is
24	CHAIRMAN MORELOCK: All in favor	24	for a variance for two power boilers. These
25	say "aye."	25	boilers are operated on demand 24 hours a day,
		1	
_	Page 52		Page 53
1	Page 52 7 days a week. They provide high-pressure steam	1	Page 53 boiler which had been on a previous variance, but
1 2 2	Page 52 7 days a week. They provide high-pressure steam for space heating, potable water, sterilizers, humidification and appling	1 2 2	Page 53 boiler which had been on a previous variance, but the controls were upgraded on this to the Hawk1000
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1 2 3 4 5 6 7	Page 52 7 days a week. They provide high-pressure steam for space heating, potable water, sterilizers, humidification, and cooking. Our site plan on page 2 shows the location of the power house in relation to the remote station, which will be at the PBX	1 2 3 4 5 6 7	Page 53 boiler which had been on a previous variance, but the controls were upgraded on this to the Hawk1000 control system. So that has been updated, but this is considered a new variance for both due to, one, the new boiler and the new controls on Boiler 2.
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Page 54 Page 55 1 not -- I'm familiar with Hawk. Would that not 1 MR. BOWERS: Maybe. I think we 2 insured them. 2 fall under the Hawk4000 instead of the Hawk1000? CHAIRMAN MORELOCK: Okay. 3 3 MR. NEVILLE: It's my understanding Mr. Bailey, do you want to know what 4 this is the Hawk1000 controller. 4 5 that conflict is? 5 MR. FOX: Okay. MR. BAILEY: Yeah. He said he --MR. NEVILLE: That's the 6 6 7 MR. BOWERS: I said we insured 7 information we were -- Appendix B lists the --8 them. 8 MR. CORVIN: On the newer of the 9 MR. BAILEY: If you think there's a 9 two boilers, which is -- it says Hawk4000. I've 10 potential conflict, you won't be able to vote on 10 got the manual for the new boiler, and I replaced 11 the final motion of whether to approve or not to 11 the entire boiler, and it does say Hawk4000. 12 approve. You can participate in the discussion 12 MR. FOX: Yeah. So that's what I 13 but nothing that pertains to you possibly insuring 13 was looking at. If you had the Servos and the O2 14 trim and all that -- like I said, I'm a little bit 14 them. 15 CHAIRMAN MORELOCK: All right. The 15 familiar with Hawk. That's normally not on the 16 floor is open for discussion. 1000 system. It would have been the 4000 system. 16 17 MR. FOX: I have a question about 17 MR. CORVIN: Yes, sir, you are 18 your Hawk controls that are on these boilers. You 18 correct. 19 say they're Hawk1000, correct? 19 MR. BAUGHMAN: So, then, are --MR. NEVILLE: That is correct. 20 20 MR. NEVILLE: So --21 MR. FOX: So both boilers have --21 MR. BAUGHMAN: Are we then -- so we 22 do they have 02 trim? 22 don't have the correct hardware in the manual to 23 MR. CORVIN: Yes, sir, both boilers 23 evaluate; is that correct? 24 have 02 trim. MR. NEVILLE: Right. So the 24 25 MR. FOX: Okay. So would that 25 Hawk4000 is on Boiler 1. The Hawk1000 is on Page 56 Page 57 1 control changes, if we were to make it, usually 1 Boiler 2. MR. CORVIN: Boiler 2, that's 2 not. Usually, my lead boiler operator or I make 2 3 correct. 3 those changes. And usually, we come -- you know, MR. NEVILLE: The information will 4 4 we always come out and are present with the 5 need to be added for the Hawk4000. 5 boiler. And it's on site with the boiler MR. BAUGHMAN: Do we have the 6 controller. б 7 information here to be able to review for the 7 MR. BAUGHMAN: We do have 8 Hawk4000? 8 communications set up with this. 9 MR. CORVIN: Yes. I've got the 9 MR. CORVIN: Yes, sir. Hardwired 10 entire manual on the Hawk4000 right here. I only 10 to the switchboard for alarms and shutdown, remote 11 have one copy. Would you like me to pass it 11 shutdown. 12 through? 12 MR. BAUGHMAN: We have no other 13 CHAIRMAN MORELOCK: Yes. 13 communications set up via Modbus to enunciate over 14 MR. BAUGHMAN: So in reference to 14 to a smart phone or a computer or anything on that 15 the Hawk1000, offhand --15 nature? 16 MR. CORVIN: Yes, sir. MR. CORVIN: With the older Hawk 16 17 MR. BAUGHMAN: -- Appendix B, 17 system, we did have a beeper system that would. 18 page B-4, about halfway down, remote setpoint by 18 But we do have remote communications, and it comes 19 communications. What does that mean? 19 to our emails and to our smart phones to every 20 MR. CORVIN: Remote setpoint? 20 technician. And we get those. 21 There's no remote setpoint. It's all done on the 21 MR. BAUGHMAN: Okay. 22 boiler. There's no control away from the boiler. 22 MR. CORVIN: And I can be sitting 23 The technicians are only going to respond back 23 at my computer and get that same alarm as the 24 from a boiler alarm. And they're on site 24/7, 24 switchboard gets. Yes, sir. 25 25 and they respond to any alarms, and then any MR. BAUGHMAN: And that's one of

	Dage 50		Dage 50
1	the issues that we've got to contend with, is that	1	but we do not have any way to control it the other
2	even though you may not have it set up, we do have	2	direction.
3	communications in this day and age that can be	3	MR. BAUGHMAN: Okay. But we do
4	hacked. And this particular hardware does have a	4	enunciate back out, you said, via email, so forth.
5	remote setpoint capability which just leaves some	5	So there is a communications mechanism.
6	concern for down the road I understand you	6	MR CORVIN: Internal to the
7	wouldn't use it	7	hospital only: not external
ģ	MR CORVIN: We don't	ß	MP RAUCHMAN: Okay Super
å	MR RAIGHMAN: But could it be	a	MR CORVIN: Ves sir And that's
10	M. DAUGIMAN. But could it be	10	alled the intranet not the internet. It's not
11	useu:		carried the intranet, not the internet. It's not
12	MR. CORVIN: NO, SII.		going out, away from the hospital.
	MR. NEVILLE. I don't believe the		MR. BAUGHMAN. Thank you.
13	etnernet has been hooked up to that.	13	MR. CORVIN: Yes, sir.
14	MR. CORVIN: No, sir.	14	MR. FOX: I would just like to see
15	MR. NEVILLE: It has the capability	15	a change in the manual, of course, and also
16	of ethernet, but it does not	16	incorporate the 4000 Hawk codes in your main
17	MR. BAUGHMAN: On which one, the	17	manual.
18	old one or the new one?	18	MR. NEVILLE: In Appendix B. We'll
19	MR. NEVILLE: This is on the	19	do that.
20	Hawk1000 is on the old one.	20	CHAIRMAN MORELOCK: I've got just a
21	MR. BAUGHMAN: Okay. Well, he just	21	few comments. Nitpicky. I apologize. But on
22	mentioned that there was I thought it was	22	page 1, you state that the difference between the
23	hooked up on the old 1000, is what he had said.	23	boiler room and remote station is approximately
24	MR. CORVIN: On both boilers, we	24	350 feet. But when you look at Figure 1, Figure 1
25	have the ability to receive the alarm by computer,	25	says 580 feet.
	Page 60		Page 61
1	Page 60 MR. CORVIN: 580 feet is correct.	1	Page 61 365 days a year.
1 2	Page 60 MR. CORVIN: 580 feet is correct. CHAIRMAN MORELOCK: Okay. Again,	1 2	Page 61 365 days a year. CHAIRMAN MORELOCK: Okay.
1 2 3	Page 60 MR. CORVIN: 580 feet is correct. CHAIRMAN MORELOCK: Okay. Again, this is your manual, so we just want to make	1 2 3	Page 61 365 days a year. CHAIRMAN MORELOCK: Okay. MR. CORVIN: And it just frees them
1 2 3 4	Page 60 MR. CORVIN: 580 feet is correct. CHAIRMAN MORELOCK: Okay. Again, this is your manual, so we just want to make you	1 2 3 4	Page 61 365 days a year. CHAIRMAN MORELOCK: Okay. MR. CORVIN: And it just frees them up so they're not logging the boiler constantly.
1 2 3 4 5	Page 60 MR. CORVIN: 580 feet is correct. CHAIRMAN MORELOCK: Okay. Again, this is your manual, so we just want to make you The organizational chart in	1 2 3 4 5	Page 61 365 days a year. CHAIRMAN MORELOCK: Okay. MR. CORVIN: And it just frees them up so they're not logging the boiler constantly. And the switchboard, if they get any alarm, they
1 2 3 4 5 6	Page 60 MR. CORVIN: 580 feet is correct. CHAIRMAN MORELOCK: Okay. Again, this is your manual, so we just want to make you The organizational chart in Appendix D is correct, but it's just kind of hard	1 2 3 4 5 6	Page 61 365 days a year. CHAIRMAN MORELOCK: Okay. MR. CORVIN: And it just frees them up so they're not logging the boiler constantly. And the switchboard, if they get any alarm, they shut down the boiler first. And through their
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1	just an alarm test.	1	MR. CORVIN: Yes. sir. Thank you.
2	MR. CORVIN: We do the shutdown	2	CHAIRMAN MORELOCK: Okay, All
3	beginning of every shift but don't necessarily	3	right On page 7 you're stating under training
4	shut the boiler down. But we can create an alarm	4	the last sentence of the last paragraph, it says.
5	without shutting it down	5	"Your documentation log is Appendix G but really
6	MR BAUCHMAN: You can create a	6	that it's Appendix H: is that correct?
7	false alarm		MR CORVIN: That's correct sir
, R	MR CORVIN: Yes sir	/	CHAIRMAN MORELOCK: Okay And then
a	CHAIDMAN MODELOCK: Well on that	a	where it says see Amendix H up in the top under
10	same vein if you go to page 5 for your remote	10	personnel that should be Appendix G
11	monitoring and compare that to page 9 for your	11	MR NEVILLE: That is correct
12	hollon attendant on page E under normal duties	12	MR. OODUIN: Yog gir
12	we are one and day the bailor attendant will	12	MR. CORVIN: IES, SII.
14	you say once each day the botter attendant will	14	CHAIRMAN MORELOCK. Okdy. And
15	contact the remote station. Would that be once	15	char's all the comments that I have. Any other
10	each shirt?	10	comments or questions?
10	MR. CORVIN: Well, it should be	10	MR. BAUGHMAN, Yes. So we're not
10	once each shift. And it's twice a day because		snutting the boller down, necessarily, when we're
18	you're doing it at 7:00 in the morning and	18	doing an alarm back to the remote station.
19	/:00 p.m. at night, yes, sir.	19	MR. CORVIN: we do on excuse me.
20	CHAIRMAN MORELOCK: Because your	20	On the beginning of the shift, we do shut the
	boller attendant is correct. It says at each		boller down.
22	snirt.	22	MR. BAUGHMAN: Okay.
23	MR. CORVIN: Yes.	23	MR. CORVIN: Yes, sir.
24	CHAIRMAN MORELOCK: So just for	24	MR. BAUGHMAN: So there's not a
25	consistency in your manual.	25	time that we just do a faise alarm just to check
1	Page 64	1	Page 65
1	Page 64 the alarm circuit itself? We don't hit that shunt	1	Page 65 before they leave that everything is still working
1 2 3	Page 64 the alarm circuit itself? We don't hit that shunt that doesn't shut the boiler off, but will make an	1 2 3	Page 65 before they leave that everything is still working right.
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1	Page 66	1	Page 67
	practice and we inbred that in We train to that	2	And then working with Newille
	to sure not overlapped that the damage shifts and	2	And Unen, working with nevinc
	cour liew employees when we change shirts and		the entire neuron plant. Require we had originally
1	some of them get promoted, then we actually have a	4	the entire power plant. Because we had originarry
c ر	sign-off sneet for everything that they do, and we	5	had a variance per boller. And so when we
6	inbred that into them during our training process.	6	upgraded the controls on Boller Number 2 and got
7	MR. BAUGHMAN: That's super.	1	the oxygen trim in the 1000, that's when we had
8	MR. CORVIN: And then they work	8	that variance updated.
9	beside a shift person, usually a week or two weeks	9	And so we had a tew issues,
10	before we let them out on their own. But after,	10	time-wise, to get on the agenda to come here,
11	we actually go out and test them. We pull the	11	which delayed it a few times getting here. Yes,
12	boiler alarm or we create alarms for them or a	12	sir.
13	fire alarm, two-system alarm. We create all these	13	MR. BAUGHMAN: Was the old variance
14	alarms, and they have to respond back with the	14	still in effect?
15	proper or they don't get to go on shift by	15	MR. CORVIN: Yes, sir.
16	themselves.	16	MR. BAUGHMAN: Thank you.
17	MR. BAUGHMAN: Super. Why was	17	CHAIRMAN MORELOCK: Any other
18	Number 1 boiler replaced?	18	questions or comments?
19	MR. CORVIN: It was back this time	19	(No verbal response.)
20	last year, we had some bugs to work out. Through	20	CHAIRMAN MORELOCK: Hearing none,
21	the process, you know, with downsizing the boiler	21	do I have a motion for this new variance for Maury
22	from a 800 horse to a 400 horse. We don't have a	22	Regional Medical Center?
23	laundry now. And there were some you know, the	23	MR. BAUGHMAN: So moved.
24	efficiencies of the boiler. There were some	24	CHAIRMAN MORELOCK: Okay. I have a
25	things that we had to tweak the controls and do	25	motion Do I have a secondary?
		20	
			Dama (0
	Page 68 MR BAUGHMAN: Well, contingent.	1	Page 69 I'm going to call the question. All in favor, say
1	Page 68 MR. BAUGHMAN: Well, contingent. CHAIRMAN MORELOCK: Yeah, we'll add	1	Page 69 I'm going to call the question. All in favor, say
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Page 70 Page 71 1 introduce, to my right, Julius Deaton. He is a 1 security station which is attached to the 2 multi-site facility manager there at Fort Sanders 2 emergency room waiting area. 3 Regional Medical Center. 3 That station is manned 24/7 by the And to my left is James Swanson. He 4 security staff individuals. And the boilers are 4 5 is a facility service technician to come help 5 operated 24/7 by Fort Sanders personnel that are 6 explain any operational questions you may have in 6 qualified boiler attendants. They run the three 7 the role that he plays. 7 different shifts, Monday through Friday, as I 8 allude to in the Glossary of Terms, as you will 8 As I mentioned, we are with Fort Sanders 9 Regional Medical. This is a reissuance request; 9 see in the appendices. And on the weekends, they 10 will run two 12-hour shifts. So at any given 10 however, we're treating it as a new request based 11 on some changes that have been made, substantial 11 time, there is a certified boiler attendant on 12 changes. 12 site and a remote attendant inside of the security 13 Originally, Fort Sanders Regional 13 station. 14 Medical received their variance back in 1989. I 14 I was just wondering if you had any 15 was bouncing around the Pacific Ocean on a big, 15 additional questions for us. 16 gray ship around that time, so it's been a little CHAIRMAN MORELOCK: Okay. Any 16 17 while. As a matter of fact, the actual rule that 17 conflicts on this item? (No verbal response.) 18 that was passed under was 780. And here we are 18 19 under 800. So that was 780-2-11-.04(22), so that 19 CHAIRMAN MORELOCK: All right. 20 has been a while. 20 Hearing none, do I have a motion to discuss this 21 Currently, Fort Sanders, as they were 21 item? 22 back in 1989, are operating the same three high 22 MR. BOWERS: Motion to discuss. 23 pressure boilers. They are Cleaver-Brooks D-type 23 MR. BAUGHMAN: Second. 24 watertube boilers, and they still maintain the 24 CHAIRMAN MORELOCK: Okay. So what 25 same remote station that is located now in the 25 questions do you have for this variance request? Page 73 Page 72 MR. BAUGHMAN: Just real quick, 1 office. 1 2 Mr. Toth, you mentioned this was -- so in the MR. BAUGHMAN: Okay. So back to my 2 3 letter, it states that this is a reissuance. You 3 original question, in the checklist -- and that's 4 mentioned, though, that this was to be considered 4 why I'm asking -- it doesn't show this as a new 5 a new? 5 variance. It shows it as a modified and a MR. TOTH: It can be considered 6 renewal. б 7 7 new, based on the new equipment that has -- boiler MR. TOTH: Yes. 8 control equipment that has been put on the boiler 8 MR. BAUGHMAN: So that's why I was 9 since 1989. Fort Sanders, up to this point, was 9 just wanting clarification on what it is exactly. 10 under the impression that they were continuing to 10 MR. TOTH: Right. It would be a 11 operate their variance per their requirements. As 11 modified, yes, sir. 12 a matter of fact, they go above and beyond to do 12 MR. BAUGHMAN: It is modified. 13 every-two-hour checks on the boiler versus what 13 Thank you. When was the last approved variance? 14 was passed in 1989, every four hours. 14 Because since you said "now that we're enforcing," 15 Then the chief's office made contact 15 it alluded that we hadn't been enforcing. 16 with Fort Sanders, alluding to the reinspection 16 MR. TOTH: Right. Right. Even 17 requirements that are now being enforced. At that 17 back to the point when I was chief inspector, that 18 time, they contracted with myself. We then went 18 was around the time that we started looking 19 into the process of reviewing their existing 19 towards putting in the requirements to have 20 manual. That's when I brought it to their 20 variances reinspected on a tri-annual basis 21 attention, the concerns that I saw in the current 21 because of some of the concerns that we saw with 22 manual from 1989 with the requirements that the 22 manpower shortages, things of that nature, dealing 23 board requires; and, therefore, that's why we have 23 with other low-hanging fruit within the 24 taken the course of appearing before you versus 24 department. 25 25 the standard reinspection through the chief's Up until recently, the office of the

	D 74		D 75
1	chief inspector has been able to perform these	1	of that nature, that we found that that was the
2	re-inspections of the variances, and doing a much	2	best course of action.
3	better job than we did back in my day.	3	MR. BAUGHMAN: So this can be
4	MR. BAUGHMAN: So when was the last	4	considered a modified renewal.
5	variance?	5	MR. TOTH: Yes.
6	MR. TOTH: It would have been in	6	MR. BAUGHMAN: So there's some
7	1989.	7	revisions, obviously, to the original. Those
8	MR. BAUGHMAN: Okay.	8	revisions aren't listed.
9	MR. TOTH: And I believe we will	9	MR. TOTH: No, they are not. I can
10	see and we have seen that quite a bit	10	briefly go through some of those, if you would
11	throughout the variances that we're starting to	11	like.
12	get a handle on it. And I do applaud Chief	12	MR. BAUGHMAN: Yes. And they
13	Chapman and the rest of his staff for taking on	13	should be, actually, listed on a revision. If
14	that. That's definitely a difficult task.	14	this is a modified renewal, those revisions should
15	CHAIRMAN MORELOCK: Those	15	be itemized, should they not?
16	tri-annual reinspections got so far behind, you	16	MR. TOTH: Well, they would be from
17	really had no basis to go back for renewals. It's	17	this point moving forward on a revision sheet
18	just easier to start with a fresh, new because	18	based on such a lapse in the time between 1989 and
19	you didn't have any supporting data.	19	now. This manual, if that was the case, the
20	MR. BAUGHMAN: We've seen that.	20	revision pages probably would have taken up about
21	MR. TOTH: We've seen that quite a	21	ten different, individual this was a complete
22	bit.	22	rewrite of the original variance request from
23	And if you recall, the tri-annual	23	1989.
24	came primarily from what we experienced with	24	MR. BAUGHMAN: Okay.
25	evidence-based owner-user repair companies, things	25	MR. TOTH: So primarily, when we
	Page 76		Page 77
1	Page 76 talk about the revisions that were made, is the	1	Page 77 CHAIRMAN MORELOCK: Sounds like
1 2	Page 76 talk about the revisions that were made, is the controls, the primary safety controls, in this	1 2	Page 77 CHAIRMAN MORELOCK: Sounds like there's enough changes that it pretty much is a
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1 2 3 4 5 6	Page 76 talk about the revisions that were made, is the controls, the primary safety controls, in this case. Now the boilers have the Honeywell 7840 primary safety controls, which is your flame safeguard, your burner management system. They also have the Hawk ICS systems in place, which do	1 2 3 4 5 6	Page 77 CHAIRMAN MORELOCK: Sounds like there's enough changes that it pretty much is a new MR. TOTH: There were some pretty substantial changes. I have to hand it to Mr. Deaton, sitting to my right, that he brought
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1	Page 78 MR BAUCHMAN: Okay Well the	1	Page 79
2	site plan didn't necessarily I don't think	2	MP BAICHMAN: So getting on to the
2	MP TOTU: Call it the east wing?	2	alarma does this have the lovel master on it?
1	MR. IOIN. Call It the east wing:		atarius, does diffs have the rever master on it:
4	MR. BAUGHMAN. Partdon:		MR. IOIA: It does have a rever
5	MR. IOIH. Did it not call it the	5	master.
6	east wing? Is that what you're	6	MR. BAUGHMAN: OKay.
7	MR. BAUGHMAN: Yean.		MR. 101H: All three bollers do
8	MR. TOTH: Okay.	8	have a level master.
9	MR. BAUGHMAN: And so I was just	9	MR. BAUGHMAN: Very good. The
10	kind of crossing T's, dotting I's, and lower-case	10	panel itself, is this a panel that's built on
11	J's.	11	site, or is this a panel that's assembled
12	MR. TOTH: Okay.	12	elsewhere and brought on site?
13	MR. BAUGHMAN: The panel itself,	13	MR. TOTH: This is a panel that is
14	does this panel have I noticed it's got some	14	subcontracted out and assembled, brought on site
15	push-to-silence for the alarms.	15	and wired in, yes.
16	MR. TOTH: Uh-huh.	16	MR. BAUGHMAN: Okay. Is this a
17	MR. BAUGHMAN: So if there is an	17	UL-listed panel assembly?
18	alarm, you can actually silence the alarm here	18	MR. TOTH: No, it would not be a
19	without activating anything else. Pushing the	19	UL-listed panel assembly, nor I don't feel that
20	alarm does not activate the e-stop.	20	it would be necessary to have a UL-listed panel
21	MR. TOTH: Right. Correct. And	21	assembly.
22	that's a usual, normal installation process,	22	MR. BAUGHMAN: Are there any relays
23	especially when you're looking to have	23	in this panel?
24	communications over way of telephone or radio for	24	MR TOTH: There are no relays in
25	the remote attendant to gilence that alarm so	25	the panel itself I don't believe I would have
23	the remote attendant to strence that aratim so	25	the panel itself, i don't believe. I would have
			Down 01
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Page 82 Page 83 MR. BAUGHMAN: -- if that e-stop is 1 1 within the boiler room, those, too, must be reset. 2 made, will the boiler not fire up if the e-stop is MR. BAUGHMAN: Uh-huh. I guess 2 3 made at the remote station? 3 what I was getting at was the wording that it MR. TOTH: No, it will not. cannot be restarted. But in actuality, it can 4 4 MR. BAUGHMAN: Okay. How would the 5 physically if somebody so wanted; it just 5 6 boiler be fired up? shouldn't be restarted. 6 7 MR. TOTH: At the boiler. 7 MR. TOTH: Okay. Can you explain 8 MR. BAUGHMAN: But how would it if 8 "it cannot be restarted"? 9 that e-stop is already reset? What else has to be 9 MR. BAUGHMAN: Well, if the resets 10 reset in the boiler room? 10 were already reset in the boiler room, the boiler 11 MR. TOTH: Okay. So in the -- I'm 11 is ready to go except for one last reset. And 12 going to try to answer this question the way I 12 that's at the remote station. 13 believe that you're asking it. So in the 13 MR. TOTH: Yes. 14 situation when there is an emergency where the MR. BAUGHMAN: Once that remote 14 15 e-stop is activated at the remote station, once 15 station would be reset, the boiler would fire up. 16 the cause of the emergency or the alarm is 16 MR. TOTH: The boiler would fire up 17 cleared, there will be communication back to the 17 as long as the alarm is cleared. 18 remote station for the remote attendant to reset 18 MR. BAUGHMAN: Yes. 19 the e-stop. At that time, then the resetting of 19 MR. TOTH: Okay. And then we have 20 the boiler occurs at the boiler itself. 20 a restart, which is normal operations. 21 MR. BAUGHMAN: Sure. 21 CHAIRMAN MORELOCK: Well, on 22 MR. TOTH: If there --22 page 4, where it has the emergency procedure, 23 MR. BAUGHMAN: But I guess --23 Item F at the bottom says, "The boiler cannot be MR. TOTH: If there is a second 24 restarted from the remote station, but the switch 24 25 e-stop, such as the e-stops that are located 25 must be enabled to allow start up of the boiler. Page 84 Page 85 1 This is performed by pulling the mushroom e-stop 1 Occasionally. 2 button out on the right side of the panel. The MR. BAUGHMAN: And what would those 2 3 boiler attendant must return to the boiler room in 3 be? 4 order to restart the boiler." MR. DEATON: High-water alarms and 4 5 MR. BAUGHMAN: I guess what I was 5 some low-water alarms occasionally. MR. BAUGHMAN: Okay. And when 6 getting at was just kind of semantics on -б 7 MR. TOTH: Oh, I definitely 7 you've got a high-water alarm -- I just want to 8 understand where you're going with it. The 8 make sure the protocol is that we don't get 9 concern that you have is that if an emergency stop 9 complacent with having a nuisance alarm and 10 is reset at a remote station, if the boiler is in 10 hitting a silence switch without taking the boiler 11 a position where it can restart, it will restart. 11 offline. And some boilers give nuisance alarms. 12 However, we're talking about a concern that we 12 MR. TOTH: Sure. And let me just 13 have with a boiler going down that is in alarm 13 elaborate, just to back up what Mr. Deaton had 14 that is going to require a reset at the boiler 14 said. When we talk about the nuisance high-water 15 itself. 15 alarms, we're usually talking about a boiler 16 16 that's in the standby position --The one thing that we can do is we 17 can put it into words all we want, the proper 17 MR. DEATON: True. 18 procedure; we just have to make sure we train on 18 MR. TOTH: -- is where we have 19 that procedure and ensure the individuals that are 19 that. Again, it goes back to the proper training 20 responsible to do what they're supposed to be and continual training of the individuals. You 20 21 doing. 21 hear an alarm, you trip the boiler, then you go 22 through the process of communications. That's it. 22 MR. BAUGHMAN: I agree. Thank you. 23 Is there ever a time when you have nuisance 23 No deviation from those requirements. 24 lockouts, nuisance alarms? 24 MR. BAUGHMAN: So on page 8, 25 25 Section 4, under Boiler Attendant Procedures --MR. DEATON: Occasionally.

1	Page 86 MR. TOTH: Yes.	1	Page 87 MR. TOTH: Actually, they are.
2	MR. BAUGHMAN: the fourth	2	MR. BAUGHMAN: Okay. But we've
3	sentence "The boiler will not be operated for	3	also got others that can operate under the
4	periods of longer than 20 minutes without being	4	auspices of a boiler attendant should people be
5	checked by the boiler attendant "	5	out sick and so forth Do we not have other
6	MR TOTH: That's spelling out the	6	personnel
7	rule	7	MR TOTH: If you're referring to
, R	MR BAUCHMAN: I understand So	l s	Mr. Deaton as the facility's operator or a team
9	what would I would like to know is what do they	9	leader is that what you're referring to?
10	check?	10	MR BAUGHMAN: Any personnel other
11	MR TOTH: What do they check every	11	than the senior facilities technicians and so
12	20 minutes or every 4 hours?	12	forth
13	MP RAIGHMAN: Frenz 20 minutes	13	MR TYTT: Well the facilities
14	MR TOTTH: Every 20 minutes	14	technicians either one or two or the senior
15	Here's the thing that let me be perfectly	15	facilities technicians, are boiler people. They
16	alear Okay? Bight now we're talking about a	16	are trained boiler people. The position of a team
17	variance Okay? Nalve talking about a	17	leader or the multi gite manager ag Mr. Desten
10	that la going to oncompage a check orong four	10	is is more of a back up role in case there is
10	bours . If we're concerned with what they're doing	10	some sort of americanat or undermanning or
20	overy 20 minutes does that really fall under the	20	some sort of emergency of undermanning of
20	variance requirements? Let me just ask that	20	Something like that.
21	MP PAILOUMAN. No I'm just	21	individuals are going through the same training
22	interested from an operational standpoint of since	22	They're going through the same operator training.
23	we've get people that aren't pegeggarily boiler	23	a full-day glass and they have to pass an even
25	we ve got people that aren t necessarily borrer	25	a full-day class, and they have to pass an exam.
25	people	25	So to ask that question, what are they doing every
	Page 88		Page 89
1	Page 88 20 minutes? They're taking the standard readings	1	Page 89 thought that I saw that under the duties of
1 2	Page 88 20 minutes? They're taking the standard readings that they are trained to take.	1 2	Page 89 thought that I saw that under the duties of security guard.
1 2 3	Page 88 20 minutes? They're taking the standard readings that they are trained to take. MR. BAUGHMAN: Good.	1 2 3	Page 89 thought that I saw that under the duties of security guard. MR. TOTH: And if you did, that
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1	Page 90	1	Page 91
⊥ 2	MR. 101H. I'll be more than happy		development?
2	MD DAUCUMAN. Thank you	2	development:
4	MP TOTH: The certifications as		renewal training the contract that Fort Sanders
- 5	written in the Tennessee state laws rules and	5	has is with Boisco Training Group to provide the
6	regulations puts the onus back on the owner-user	6	on-site training for their boiler attendants and
7	to certify their individuals Therefore the	7	also their remote attendants
8	tests that are being administered and will be	8	What is in the process of being
9	administered by Fort Sanders, in essence.	9	developed and will be launched in January of 2019
10	certifies those individuals per Fort Sanders	10	is a cloud-based training program that is custom
11	requirements.	11	built for Fort Sanders. And, also, just to add
12	CHAIRMAN MORELOCK: The training	12	for the next item up. Claiborne Medical Center.
13	program serves as a certification.	13	for that renewal of not only the remote attendant
14	MR. TOTH: Absolutely.	14	training, but also for the boiler attendant
15	CHAIRMAN MORELOCK: With an annual	15	training.
16	renewal.	16	MR. BAUGHMAN: Thank you.
17	MR. TOTH: Absolutely.	17	MR. TOTH: And there are exams that
18	MR. BAUGHMAN: So presently, under	18	are required for each. They have to have a
19	the checklist on page 39, under 29, what	19	passing grade of no less than 70 percent to be
20	procedures are in place for annual training, it	20	able to serve in either of those roles.
21	says, "Training will be contracted to provide	21	MR. BAUGHMAN: And if they don't
22	training, and a system is being developed for	22	pass
23	annual retraining."	23	MR. TOTH: If they don't pass, they
24	MR. TOTH: Yes.	24	don't they can't serve in that role. I've
25	MR. BAUGHMAN: So do we presently	25	actually had clients that had to replace remote
1	Page 92	1	Page 93 MR. DEATON: That particular
1 2	Page 92 attendants for their failure to pass. MR. BAUGHMAN: Very good. Do we	1	Page 93 MR. DEATON: That particular alternate station would be able to visibly see
1 2 3	Page 92 attendants for their failure to pass. MR. BAUGHMAN: Very good. Do we have any remote communications capabilities?	1 2 3	Page 93 MR. DEATON: That particular alternate station would be able to visibly see everything withing the entire facility, air
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	Page 94		Page 95
1	DR. HARGROVE: Thank you, sir.	1	takeaway I've got.
2	MR. SWANSON: That's it.	2	DR. HARGROVE: And the inspection.
3	MR. DEATON: And doing it well, I	3	CHAIRMAN MORELOCK: And inspection,
4	might add.	4	right.
5	MR. SWANSON: Thank you.	5	MR. TOTH: Oh, and the inspection.
6	CHAIRMAN MORELOCK: Any other	6	Okay.
7	questions or comments?	7	CHAIRMAN MORELOCK: Anything else?
8	(No verbal response.)	8	Do I have that motion?
9	CHAIRMAN MORELOCK: Hearing none,	9	DR. HARGROVE: Motion to approve
10	do I have a motion to approve this variance	10	the variance request with the contingency.
11	request, a new variance request, contingent on a	11	MR. FOX: I'll second that.
12	successful site visit by the boiler unit?	12	CHAIRMAN MORELOCK: Okay. Any
13	DR. HARGROVE: Motion to approve a	13	other comments?
14	new variance request.	14	(No verbal response.)
15	CHAIRMAN MORELOCK: And contingent	15	CHAIRMAN MORELOCK: Then I'll call
16	on making revisions to the manual as per comments	16	the question. All in favor say "aye."
17	made during this boiler meeting.	17	(Affirmative response.)
18	MR. TOTH: And can I get an	18	CHAIRMAN MORELOCK: Negatives?
19	understanding of what those were again?	19	Opposed?
20	CHAIRMAN MORELOCK: I don't know	20	(No verbal response.)
21	that you've got any to-do well, other than	21	CHAIRMAN MORELOCK: Abstentions,
22	update your checklist to show it's a new variance.	22	not voting?
23	MR. TOTH: There you go. I will	23	(No verbal response.)
24	make sure and do that, sir.	24	CHAIRMAN MORELOCK: All right,
25	CHAIRMAN MORELOCK: That's the only	25	gentlemen.
	Page 96		Page 97
1	Page 96 MR. TOTH: Thank you very much.	1	Page 97 variance that is presented to you.
1 2	Page 96 MR. TOTH: Thank you very much. CHAIRMAN MORELOCK: That will take	1 2	Page 97 variance that is presented to you. At CMC, we have two high-pressure
1 2 3	Page 96 MR. TOTH: Thank you very much. CHAIRMAN MORELOCK: That will take us to our next item, which will be 18-15. Energy	1 2 3	Page 97 variance that is presented to you. At CMC, we have two high-pressure boilers, Superior firetube boilers, that are
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1	Page 98	1	Page 99
	facility service technicians and		enali, but basically, it just showed the
	facility service technicians. Larry is one of the		additional organization showing the nursing
3	facility service technicians that does a lot of	3	supervisor and the LPN being the remote attendant.
4	the manning of the boiler and the duties and	4	MR. TOTH: I do apologize for that
5	responsibilities of boiler attendant during the	5	oversight. I was able to catch it during the
6	daytime shifts.	6	review yesterday.
7	In addition to the Claiborne Medical	7	CHAIRMAN MORELOCK: And so we just
8	Center staff, we also operate would like to	8	need to make sure we get that into the manual.
9	operate under the boiler guard operations in the	9	MR. TOTH: Yes, sir. That's
10	evening and early mornings before the day shift	10	already been done.
11	comes on. Those boiler guards, just as with any	11	CHAIRMAN MORELOCK: Okay.
12	other boiler attendant, is required to go through	12	What other questions or comments?
13	the exact same training as the staff attendants	13	MR. FOX: I've got a question.
14	and pass the exam. If not, they will not be	14	CHAIRMAN MORELOCK: Okay.
15	authorized to man that post during those times.	15	MR. FOX: On the 784 controls that
16	Mike is responsible for that. He will be the one	16	are on this boiler, do you incorporate, also, the
17	to ensure that that is adhered to.	17	expanded enunciation?
18	Any questions?	18	MR. TOTH: No. No expanded
19	CHAIRMAN MORELOCK: Okay. We have	19	enunciation; however, there will be in this
20	no conflicts, so we've got a motion to discuss, so	20	case here, there will be a new a flame
21	I'm opening the floor for any questions or	21	amplifier installed for additional safety in the
22	comments.	22	case of a dynamic self-check.
23	I will say, while you're thinking,	23	MR. FOX: All right. I was just
24	Mr. Toth did send us an updated organizational	24	wondering about the expanded enunciation. When
25	chart. I don't know if you saw that in your	25	the boiler goes out on low-water, it sets off an
	Page 100		Page 101
1	Page 100 alarm, do we know does the attendant know what	1	Page 101 actually trip the alarm that's going to send the
1 2	Page 100 alarm, do we know does the attendant know what that boiler went out on?	1	Page 101 actually trip the alarm that's going to send the signal.
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1 2 3 4	Page 100 alarm, do we know does the attendant know what that boiler went out on? MR. TOTH: Well, in MR. FOX: Or is this something that	1 2 3 4	Page 101 actually trip the alarm that's going to send the signal. MR. BAUGHMAN: Okay. So the boiler can go off on the primary alarm first.
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Page 102 Page 103 MR. TOTH: Usually -- it's usually MR. TOTH: Okay. First, it's 1 1 2 the -- there is an alarm. It's an audible. It's 2 always best that it's the normal installation. 3 just the actual tripping of the boiler for a 3 That's the recommended installation from the 4 manual reset. In this case here, the normal 4 manufacturer. Now --5 installation is going to be to put it on your 5 MR. BAUGHMAN: From Superior? I'm 6 auxiliary low-water cutoff. 6 sorry. 7 MR. BAUGHMAN: Well, I disagree. I 7 MR. TOTH: But here's the situation that you're running into. If I flip that around 8 always put the alarms on the --8 9 MR. TOTH: And that's fine. That's 9 and said you put it on the primary, and the 10 fine. But -primary fails, you're putting a scenario, 10 11 11 Mr. Baughman, in place that says that we have no MR. BAUGHMAN: Yeah. 12 MR. BAILEY: Whoa. We can't have 12 controls that are working. 13 two people talking. 13 We understand -- and nobody 14 MR. TOTH: Okay. 14 understands more than I do -- that accidents occur 15 MR. BAILEY: One talk, ask the 15 because of multiple failures, not one. So what we 16 question, and then you respond. It's back and 16 put into place within this organization here, CMC 17 forth. It keeps the record clean. 17 and all the other clients, is to ensure that not 18 MR. BAUGHMAN: Go ahead, Mr. Toth. 18 only we have a system in place, but we are 19 MR. TOTH: Please... 19 practicing that, and how are we practicing that. 20 MR. BAUGHMAN: So it doesn't -- if 20 We're practicing that with putting forth proper 21 the boiler goes off in a low-water condition, it 21 testing of our controls and safety devices. 22 doesn't behoove anybody to wait for it to go down 22 MR. BAUGHMAN: So my follow-up to 23 on the secondary to trip the alarm. So I guess my 23 that would be is that you -- protocol would be 24 question would be why would you decide to put it 24 that you have an alarm on both that enunciates 25 on the secondary and not the primary? 25 back to shut it off at the remote station, not Page 104 Page 105 1 just one or the other. The alarm contacts are in 1 we're not going to promulgate any of that. 2 the primary control, and they are in the MR. BAUGHMAN: Right. Sure. So 2 3 getting back to page 3, where we've got the 3 secondary. 4 MR. TOTH: Right. 4 enunciation panel again for the remote station, 5 MR. BAUGHMAN: So same thing with 5 again, under the panel, it says "Note: Mounted at 6 the flame safeguard. It enunciates on multiple б security station in Eastwing Hospital Building." 7 7 types of failures --MR. TOTH: I do apologize for that. 8 MR. TOTH: Absolutely. 8 And that's what you were probably alluding to. 9 MR. BAUGHMAN: -- as the low-waters 9 The -- this diagram here, obviously, is a 10 should. Now, it's not part of our variance 10 simulation that's put together that showed when 11 requirement. I'm just saying from a safety 11 both locations were put together. And I'm glad 12 standpoint by getting an understanding of this. 12 you brought that up. It's a simple change. Where 13 MR. TOTH: I agree. 13 is it located at? As I alluded to before and I'll 14 CHAIRMAN MORELOCK: All right. Who 14 make that editorial change, it's located at the 15 is the inspector? 15 central nurses station. 16 16 MR. TOTH: Lee Yarborough. MR. BAUGHMAN: Thank you. 17 MR. BAUGHMAN: With? 17 MR. TOTH: But I do appreciate you 18 MR. DEATON: Travelers. 18 bringing that to my attention. 19 CHAIRMAN MORELOCK: But I guess it MR. BAUGHMAN: Absolutely. Just 19 20 goes with saying these are valid comments, but we, 20 attention to details. 21 as a board, we don't dictate how the manufacturer 21 On page 7, the first item, d), "When 22 designs their boiler equipment. It does have to 22 the alarm condition on the effected -- or maybe --23 meet recognized and accepted standards, as well as 23 "'affected' boiler is cleared, the boiler 24 standards required by Tennessee law and Rule 800, 24 attendant will need to report to the remote 25 but -- it's a good conversation, gentlemen, but 25 station to reset the emergency stop button by

Page 106 Page 107 1 inserting the button key and pulling out the 1 understanding. So the remote station attendant, 2 mushroom button." 2 the LPN at the nurses station cannot reset it 3 So the remote station attendant 3 herself. The attendant has to come back, reset it 4 himself, and then go back to the boiler room to 4 cannot reset the reset button; the boiler 5 restart the boiler. 5 attendant has to come back to the remote station 6 themselves? 6 MR. TOTH: Yes. Either that or if 7 MR. TOTH: That is the process, 7 there is a second boiler attendant that is on 8 yes. 8 site, they can communicate and take care of that. 9 MR. BAUGHMAN: Okay. And what is a 9 MR. BAUGHMAN: That's great. Thank 10 "button key"? 10 you. 11 11 MR. TOTH: It's an e-stop key that So the boilers themselves, you've 12 you have to be able to reset the e-stop. 12 seen the boilers. So there's a picture of the 13 MR. BAUGHMAN: Okay. 13 boilers, of these Superior boilers. And the one 14 MR. TOTH: Have you never seen one? 14 on the right, which would be... 15 MR. BAUGHMAN: Oh, yeah. I just 15 MR. TOTH: Boiler 1. 16 didn't really see that on this panel, and you said MR. BAUGHMAN: Okay. So the one on 16 17 this is a simulated panel, so I was kind of going 17 the right is actually under Boiler 2, but it's 18 over the details on the key in it. I didn't see a 18 actually Boiler Number 1. 19 place to put the key on that panel. 19 MR. TOTH: They're photographed how MR. TOTH: Well, I'll make sure 20 they sit in the boiler. 20 21 that when we actually make the panel, if it 21 MR. BAUGHMAN: I got you. Well, I 22 satisfies you, I will make sure that an actual 22 was just taking it under the Boiler 2 and the 23 photograph of the key is --23 pictures under Boiler 2, but it's not -- the MR. BAUGHMAN: Yeah, I'm good. I 24 picture under Boiler 2 is actually Boiler 24 25 just wanted to make sure I had a good 25 Number 1? Page 108 Page 109 MR. TOTH: (Nods head.) 1 on the gas train. The larger boiler does, and you 1 MR. BAUGHMAN: Okay. Thank you. 2 can see them clearly identified. There's got to 2 3 be a test cock -- not a test cock, I'm sorry -- a 3 So this boiler would fall under the requirements 4 of CSD-1. 4 manual shut-off cock the last thing before it 5 MR. TOTH: Yes. 5 enters the gas train. MR. TOTH: So a manual shut-off -б MR. BAUGHMAN: And being that that б 7 input is between the 400,000 and 2,500,000, it 7 are you talking about a safety shut-off valve? MR. BAUGHMAN: No. A manual 8 would dictate that there be --8 9 MR. TOTH: Well -- say that again. 9 shut-off valve. Not electronic, but a safety. MR. BAUGHMAN: 400,000 and 10 MR. TOTH: I see what you're 10 11 2,500,000. 11 saying. 12 MR. TOTH: 12,500,000. 12 MR. BAUGHMAN: So that's identified 13 MR. BAUGHMAN: Well, this is for 13 on the larger boiler. The smaller boiler it is 14 this particular gas train. I'm itemizing it for 14 not. I'm looking at the steam header outlet which 15 this particular section. 15 shows what appears to be screwed piping. 16 MR. TOTH: Okay. MR. TOTH: Uh-huh. But now we're 16 17 MR. BAUGHMAN: CSD-1 covers up 17 going -- right now you're going into something 18 through 12,5, but I'm talking about the specific 18 that is covered under inspection. 19 section of CSD-1, which is 400,000 to 2,500,000. MR. BAUGHMAN: Yes. 19 20 MR. TOTH: Okay. 20 MR. TOTH: Okay. 21 MR. BAUGHMAN: Which would dictate 21 MR. BAUGHMAN: So what I'm getting 22 that on the gas train itself, there should be two 22 at is that the boiler doesn't quite meet the code 23 shut-off cocks --23 requirements of the day. 24 MR. TOTH: Yes. 24 MR. TOTH: I beg to differ. 25 25 MR. BAUGHMAN: Okay. MR. BAUGHMAN: -- which I don't see

	5		D 111
1	Page IIU MR TOTH: Because that particular	1	Page III MR BAUGHMAN: Okay Well from my
2	boiler has the proper piping based on the design	2	end of it and we know in the inspections that
2	of Deilor Number 1	2	we can be and we know in the inspections that
2	OF BOILER NUMBER 1.		we re arr numan beings and things get passed that
4	MR. BAUGHMAN. SO WIII TEAVE UIIS,	4	don't necessarily meet the code of the day, and i
5	of course, is contingent upon the inspection, but	5	think you would agree to that for the number of
6	in taking this on the computer and expanding the	6	piece of equipment that we've seen over the years.
7	pictures out, there's a closer look that needs to	7	I just want to make sure that this is contingent
8	be made on that boiler. Let me say that.	8	upon the inspection and that those items that I
9	CHAIRMAN MORELOCK: But I think the	9	have pointed out are valid items. And so we'll
10	point being made here is installation is not part	10	just add that in the contingency of the
11	of the variance request.	11	inspection. So we both take exception to each
12	MR. BAUGHMAN: Sure. I just	12	other.
13	wanted	13	CHAIRMAN MORELOCK: Well, but,
14	CHAIRMAN MORELOCK: That's an	14	Mr. Baughman, with all due represent, that's
15	installation inspection.	15	something that needs to be taken up with the
16	MR. BAUGHMAN: Yeah.	16	Boiler Unit, not the Tennessee Board.
17	MR. TOTH: So what and if I may	17	MR. BAUGHMAN: Yes. Sure. And I
18	add to that, the process of looking at an	18	just wanted to make note of it for the record.
19	installation of a boiler that not only has been in	19	CHAIRMAN MORELOCK: It's duly
20	service for quite a while, that has not been	20	noted, but
21	changed out, that has been approved by a certified	21	MR. BAUGHMAN: Absolutely. It
22	and licensed boiler inspector with the state of	22	doesn't fall into play with the variance
22	Tennessee I think is it's a nonfactor and I	22	CHAIPMAN MORELOCK: It's not part
23	think that that that that's a little bit of out	23	of the checklist It's not part of the variance
24	of line Ill just tell you	24	process at all
20	of fille. I fi just terr you.	25	process at all.
1	Page 112	1	Page 113
1	Page 112 MR. BOWERS: It has nothing to do	1	Page 113 MR. TOTH: No.
1 2 2	Page 112 MR. BOWERS: It has nothing to do with what we're doing today.	1 2 2	Page 113 MR. TOTH: No. MR. ROBINSON: Very well.
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	Daga 114		Dege 115
1	(No verbal response.)	1	you move on, if there are any questions or
2	CHAIRMAN MORELOCK: Abstentions,	2	comments or if you do have any conflicts with
3	not voting?	3	those dates, if you'll let our Board secretary
4	(No verbal response.)	4	I'd just like to ask Lynn, if she's here, the
5	CHAIRMAN MORELOCK: Gentlemen, you	5	Board Secretary to stand, as well as our
6	have an approved contingent variance	6	assistant Ebony Paige
7	MR TOTH: Thank you gentlemen	7	If you-all have any comments feel
, 8	CHAIPMAN MOPFLOCK: Thank you	l g	free to email them and they'll be happy to help
9	All right So that concludes our new	g	coordinate and get a specific date that's
10	business So moving on to Item 9 Open Discussion	10	convenient for everyone
11	Items The tentative dates for 2019 for the	11	DP HARCEOVE: Mr Chairman for me
12	Tennessee Board of Boiler Bules meetings are	12	there's a likelihood of a June 12 attendance
12	listed here as Wednesday. Marsh the 13th:	12	which is key travel time
11	Mednerday, June the 12th: Mednerday, Contembor the	11	CULTERNAN MODELOCK: Obey In that
15	19th: and Madroaday, December the 11th	15	chairman Morelock. Okay. Is that
10	The set a set of a stime. This just	10	a for sure, or possible?
17	information On if the broud membrum have	17	DR. HARGROVE: Inat's usually an
10	information. So if the board members have	10	international trip for Me, so highly likely.
18	conflicts, let's all talk with the Boller Unit,	10	CHAIRMAN MORELOCK: Okay. Well, so
19	and we'll make sure we can try to accommodate	19	we'll check with Mr. Henry as well. And, you
20	those so that we can always maintain a quorum.	20	know, we have six. As long as we can maintain a
21	And so then, based on our approval,		quorum, we can accommodate that, so
22	our next	22	Any comments about those proposed
23	MS. JEFFERSON: Chairman?	23	dates?
24	CHAIRMAN MORELOCK: Yes?	24	(No verbal response.)
25	MS. JEFFERSON: Chairman, before	25	CHAIRMAN MORELOCK: OKay. IS
	Dama 116		Devic 117
1	Page 116	1	Page 117 on the computer system so we won't have issues
1	Page 116 Doris Doris, we're going to give you the	1	Page 117 on the computer system so we won't have issues going forward.
1 2 3	Page 116 Doris Doris, we're going to give you the floor for your update on the computer system.	1 2 3	Page 117 on the computer system so we won't have issues going forward. CHAIRMAN MORELOCK: Very good.
1 2 3 4	Page 116 Doris Doris, we're going to give you the floor for your update on the computer system. MS. BARNETT: Yes.	1 2 3 4	Page 117 on the computer system so we won't have issues going forward. CHAIRMAN MORELOCK: Very good. MS. BARNETT: Thank you, Kim, for
1 2 3 4 5	Page 116 Doris Doris, we're going to give you the floor for your update on the computer system. MS. BARNETT: Yes. MS. JEFFERSON: And while she's	1 2 3 4 5	Page 117 on the computer system so we won't have issues going forward. CHAIRMAN MORELOCK: Very good. MS. BARNETT: Thank you, Kim, for that great introduction.
1 2 3 4 5 6	Page 116 Doris Doris, we're going to give you the floor for your update on the computer system. MS. BARNETT: Yes. MS. JEFFERSON: And while she's coming. I would just like to say that Doris is a	1 2 3 4 5 6	Page 117 on the computer system so we won't have issues going forward. CHAIRMAN MORELOCK: Very good. MS. BARNETT: Thank you, Kim, for that great introduction. As stated. I'm Doris Barnett. I
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	- 110		- 110
1	Page 118 We have a dictum to go ahead and make	1	Page 119 have when we sit down to discuss with the
2	sure that we are going to perform timely		wendor and we tell them our requirements that is
2	ingreations And we're going to have an ability	2	one of them
	to track any gode violations. And that will be		CULTEMAN MODELOCK · Obay and my
-	all part of the new gratem once we get that will be		charkman Mokelock. Okay. And my
	think this is an ausiting process. We have looking	6	beilers unfired measure massels in the past
7	forward to the new matter and of sources		bollers unlined pressure vessels in the past,
	torward to the new system. And, of course,		we've been very finited on units of measure for
8	throughout, I'll be working with the stall to make	8	those relief devices. So what will the new
9	sure that we get all our needs and wishes heard,	9	computer system will it expand that to have
10	at least, and get everything that we can brought	10	more choices for units of measure for the relief
11	into our new system. Which, at this time, we	11	devices?
12	don't have a timeline for that. We're estimating	12	MS. BARNETT: My understanding is
13	it will take six months from now to bring it	13	that it will, but we would really work with the
14	online and be active in Jurisdiction Online.	14	Unit and sit down with the Jurisdiction Online
15	Any questions?	15	people. We would make sure they are aware of all
16	CHAIRMAN MORELOCK: I have a	16	those limitations and requirements and have those
17	couple.	17	covered. Because if we don't tell them, they
18	MS. BARNETT: Okay.	18	can't do it.
19	CHAIRMAN MORELOCK: One being, how	19	CHAIRMAN MORELOCK: Okay. Very
20	will the new computer system handle the two-month	20	good.
21	grace period?	21	MR. BOWERS: I've been using
22	MS. BARNETT: That will be designed	22	Jurisdiction Online for several years. Same with
23	as part of the system.	23	Eugene there. And there's other states that are
24	CHAIRMAN MORELOCK: Okav.	24	using it. It would be good to I think Georgia
25	MS. BARNETT: One of the things we	25	uses it. and North Carolina look how they
	- 100		- 101
1	Page 120 you know, they've had it for several years, to see	1	Page 121 event I wanted to search for work in my territory.
1	Page 120 you know, they've had it for several years, to see how to help you in your transition period.	1	Page 121 event I wanted to search for work in my territory, 60 days, 120 days, whatever time I wanted to put
1 2 3	Page 120 you know, they've had it for several years, to see how to help you in your transition period. MS_BARNETT: We will probably be	1 2 3	Page 121 event I wanted to search for work in my territory, 60 days, 120 days, whatever time I wanted to put on it I can put that number in It will search
1 2 3 4	Page 120 you know, they've had it for several years, to see how to help you in your transition period. MS. BARNETT: We will probably be looking at that as well I do know our chief has	1 2 3 4	Page 121 event I wanted to search for work in my territory, 60 days, 120 days, whatever time I wanted to put on it, I can put that number in. It will search infinitely my entire territory and bring that
1 2 3 4 5	Page 120 you know, they've had it for several years, to see how to help you in your transition period. MS. BARNETT: We will probably be looking at that as well. I do know our chief has already talked to some of them and gotten some	1 2 3 4 5	Page 121 event I wanted to search for work in my territory, 60 days, 120 days, whatever time I wanted to put on it, I can put that number in. It will search infinitely my entire territory and bring that information to me
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	Page 122		Dage 122
1	value in that relief device box. And so you might	1	other questions?
2	need a caveat in there to say, you know, no relief	2	MR. BAUM: (Indicating.)
3	device required for IIG140A or something like that	3	CHAIRMAN MORELOCK: Yes?
4	MR ROBINSON: And that's a good	4	MR BNM: Scott Baum with Hartford
5	point You bring up a good point One of the	5	Steam Boilers For companies who aren't using
6	things that somes to recallection is that on a	6	that you montioned that guatemore could pay
7	unings that comes to recorrection is that on a		unat, you mentioned that customers could pay
	ruptured disk, there is a difficulty in putting in		online. Will they still be able to do that even
8	the information for a ruptured disk, just to let	8	11 let's say Hartford Steam Boller doesn't
9	you know.	9	they're reporting the old way, which is my
10	CHAIRMAN MORELOCK: Yes.	10	understanding
11	MS. BARNETT: And these are all	11	MS. BARNETT: That's an excellent
12	very good points. We'll need to make sure that we	12	question. Right now, Hartford Steam Boilers is
13	cover those when we discuss the requirements with	13	not on board with Jurisdiction Online. And the
14	the Jurisdiction Online, make sure that anything	14	vendor, Jurisdiction Online people, have been
15	like this does not get overlooked or not	15	discussing that with them. Hartford has stated
16	completed.	16	they will not be, and we'll need to work with
17	CHAIRMAN MORELOCK: Yes. Mary	17	Jurisdiction Online to make sure their data gets
18	Snyder is our gatekeeper for all of our records,	18	entered so that the invoices can be paid through
19	and she'll call me up and say, "What am I supposed	19	Jurisdiction Online.
20	to do with this?" Because, you know, in the past,	20	As long as the information is there,
21	it demanded some value in there. And so this will	21	we can have people pay through there. Just that
22	be a great opportunity to give us some more	22	little sticky point, we'll need to make sure that
23	ontions	23	the information gets in there properly
24	MS BADNETT: I think so	24	CHAIDMAN MODELOCK: Okay
21	CUATEMAN MODELOCK · All right Any	21	MP TOTU: (Indicating)
25	CHAINMAN MORELOCK. AII IIGHC. AIY	25	M. IOIN: (INDICALING.)
	Dours 104		Dama 195
1	Page 124 CHAIRMAN MORELOCK: Yes, Mr. Toth?	1	guys will have.
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1 2 3	Page 124 CHAIRMAN MORELOCK: Yes, Mr. Toth? MR. TOTH: Just for curiosity's sake, what is the rate of charge for the online	1 2 3	Page 125 guys will have. MS. BARNETT: The way the portal is set up, it will charge for any check process or
1 2 3 4	Page 124 CHAIRMAN MORELOCK: Yes, Mr. Toth? MR. TOTH: Just for curiosity's sake, what is the rate of charge for the online payment?	1 2 3 4	Page 125 guys will have. MS. BARNETT: The way the portal is set up, it will charge for any check process or for any debit or credit cards. We have a certain
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Page 126 Page 127 CHAIRMAN MORELOCK: So if we're 1 with the Department, with the Division, as well as 1 2 looking amount June-July time frame, maybe we 2 the Unit, the Boiler Unit is something that we --3 could leave this item on our discussion list and 3 it's just intangible. So we really appreciate 4 let you provide updates in March and June? Would 4 what you-all do and we don't want you-all to take 5 that be okay? 5 that lightly. We really appreciate you. 6 MS. BARNETT: That will be fine. б CHAIRMAN MORELOCK: Well, to 7 CHAIRMAN MORELOCK: Okay. Very 7 reciprocate, we're very thankful that the State of 8 good. Anything else? 8 Tennessee allows us to have a boiler board. And 9 (No verbal response.) 9 so we don't take that lightly that -- it's funny. 10 CHAIRMAN MORELOCK: Okay. Well, 10 We've had some folks come and think we're just a 11 that takes us to Item 10, which is our next 11 big rubber stamp and they leave, like, whoa, I 12 meeting. It will be March the 13th at 9:00 a.m. 12 wasn't expecting all that. 13 here at the Department of Labor. And if there's 13 But in closing, as we adjourn, I 14 no objection, we'll go to Item 11 and adjourn. 14 thank you-all for coming. I know you're taking 15 MS. JEFFERSON: And before we do 15 time out of your day to come in here. I hope it's 16 that, I would just like to thank the Board again 16 constructive. I hope it's helpful. I hope it's 17 for your leadership, for your service. We know very good at relationship building. 17 18 you-all do this free of charge, and you offer us 18 And we also wish you-all a very Merry 19 your expertise. 19 Christmas, happy New Year, happy holidays, and 20 And we give you what we can, you 20 we'll see you again in March. So travel safe if 21 know, as a State entity, but we know that that's 21 you're having to go travel today. 22 little compared to what you-all provide to us. 22 23 And so we just want to say thank you. I hope 23 END OF THE PROCEEDINGS. 24 you-all have a happy holiday. 24 25 And, again, on your collaboration 25 Page 128 CERTIFICATE 1 2 STATE OF TENNESSEE 3 COUNTY OF WILLIAMSON) 4 I, Cassandra M. Beiling, a Notary Public 5 in the State of Tennessee, do hereby certify: 6 That the within is a true and accurate 8 transcript of the proceedings taken before the 9 Board and the Chief Inspector or the Chief 10 Inspector's Designee, Tennessee Department of 11 Labor & Workforce Development, Division of 12 Workplace Regulations and Compliance, Boiler Unit, 13 on the 12th day of December, 2018. 14 15 I further certify that I am not related to 16 any of the parties to this action, by blood or 17 marriage, and that I am in no way interested in 18 the outcome of this matter. 19 IN WITNESS WHEREOF, I have hereunto set my 20 hand this 122th day of March, 2019. 21 NORA M. BR 22 233 STATE OF asandy 11 * TENNESSEE 240 NOTARY Cassandra M. Beiling, CCR, LCR# 371 PUBLIC 🐝Notary Public State at Large OF WILL My commission expires: 3/15/2020 25

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