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STATE OF TENNESSEE
DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
BOARD OF BOILER RULES

QUARTERLY MEETING OF THE
STATE OF TENNESSEE
BOARD OF BOILER RULES
March 15, 2017

1. APPEARANCES:

2. Brian R. Morelock, Chairman
Owner-User Representative

3. David W. Baughman, Board Member
Owner/User Representative

4. Michael Jay Pischke, Board Member
Boiler Manufacturer

5. Dr. S. Keith Hargrove, Board Member
Mechanical Engineer Representative

6. Sam Chapman, Chief Boiler Inspector

Administrator, State of Tennessee

8. Dan Bailey, Esq.
Legal Counsel, State of Tennessee

9. Carlene Bennett
Board Secretary, State of Tennessee

II. Introductions and Announcements

III. Adoption of the Agenda

IV. Approval of the December 14, 2016 Minutes

V. Chief Boiler Inspector's Report

VI. Old Business

None

VII. New Business

17-01, 17-02, 17-03, 17-04, 17-05

VIII. Open Discussion Items

* Job description for Boiler Inspector 4 (Chief) position.

* Recommendations for two Board of Boiler Rules vacant positions: International Boilermaker Representative and the Insurance Representative. The Department and the Governor's Office requests that the board provide at least three candidates to fill vacant board positions.

* Rennai - 3 foot clearance and the BC107 existing Board interpretation (1-1/2 foot for devices with 400,000 BTUs or less)

IX. AGENDA

I. Call Meeting to Order

II. Introductions and Announcements

III. Adoption of the Agenda

IV. Approval of the December 14, 2016 Minutes

V. Chief Boiler Inspector's Report

VI. Old Business

None

VII. New Business

17-01, 17-02, 17-03, 17-04, 17-05

VIII. Open Discussion Items

* Update on editorial revision to the recently revised TN Rule 0800-03-03.0800-03-030.12 Existing Pressure Vessels

(2) The maximum allowable working pressure of a nonstandard pressure vessel shall be determined in accordance with ASME Code, Section VIII, Division 1, UG-27

* Chairman Morelock to provide update on Revision to TCA 68-122-109(a) due to changes in how the National Board Commissioning Exam is given. This exam is no longer only provided by the jurisdiction, but is also provided on-demand at AMP locations and also administered by the National Board on the last day of the National Board Inservice Commission (IS) two-week course.

Such examinations shall meet the requirements of the latest edition of NB-263, RCI-1 Rules for Commissioned Inspectors, PART 2 COMMISSION AND ENDORSEMENT EXAMINATIONS. In case an applicant for an inspector's appointment or commission fails to pass the examination, the applicant shall follow the re-examination requirements in 2-5 RE-EXAMINATION in NB-263, RCI-1 Rules for Commissioned Inspectors, PART 2 COMMISSION AND ENDORSEMENT EXAMINATIONS. The record of an applicant's examination shall be accessible to the applicant and the applicant's employer.

* Dave Baughman, Board Member, will give status regarding formation of committee to make recommendation on boiler training.

X. Adjourn

CASSANDRA M. BEILING, CCR, LCR# 371
STONE & GEORGE COURT REPORTING
2020 Fieldstone Parkway
Suite 900 - PMB 234
Franklin, Tennessee 37069
615.221.1089
IX. RULE CASES & INTERPRETATIONS
Update on formatting and posting past rule cases and interpretations for inclusion on the State Boiler Unit website

X. The next Board of Boiler Rules Meeting is scheduled for 9:00 a.m. (CT), Wednesday, June 14, 2017, at the Department of Labor & Workforce Development office building located at 220 French Landing Drive, Nashville, TN.

XI. Adjournment

CHIEF MORELOCK: Good morning, everybody. I have 9:02, so I would like to call this March meeting of the Tennessee Board of Boiler Rules to order. And just some announcements, first being a safety item, if there's an event where we had an emergency or a natural disaster, we do have security personnel in the building that would escort us either to a safe place within the building or they would take us to the Rosa Parks side of the building, to a meeting point there. So just keep that in mind.

Another item that I want to present is, in case you do not know, our President Trump is visiting Nashville today, and so all the downtown government buildings will be closed at noon. So we need to be very expedient in our actions today so we can get everybody's item discussed and voted, our discussion items, at least, on the table. So we will be watching our time on that. And so if you're not from the Nashville area, as I am, you will also want to be careful on your exit route out because there will be rolling roadblocks today, there will be streets blocked off. Certainly, when Air Force One lands and the motorcade begins, it's going to be a lot different with traffic, so just giving you fair warning of that.

I would also ask if you have cell phones, would you please silence them out of respect for the presenters and for the discussion so that we can respect that time of presentation and discussion.

And the person who typically does the audio portion of our meeting with the microphones, they are not here today, so we do not have any comments from our visitors, you're free to make comments, but please make them so that we can hear you. So that's that.

And then the last announcement that I have is Eugene Robinson, our insurance representative on the Tennessee Board, has resigned, and so there's some good news coming about that but I'm not going to give that away. I'll let others who've helped make that happen share that with you at a later time. But we are going to miss having Eugene on the board. We're going to do something for him in upcoming meetings. But he's got some good things coming his way, too, so we're very thankful of that.

Are there any other announcements before we move on down our agenda?

(No verbal response.)

CHIEF MORELOCK: Okay. Hearing none, let's begin with introductions. And just so you know, when we get to the visitors, Cassandra is going to hand you her microphone. You will pass that as you introduce yourself so that she'll have a good, clear record of who you are, and she can put that into the minutes.

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So, Carlene, we'll start with you.

MS. BENNETT: Carlene Bennett, board secretary.

MR. CHAPMAN: Sam Chapman, Chief Inspector.

MR. PISCHKE: Michael Pischke, board member.

CHAIRMAN MORELOCK: Brian Morelock, board member.

MR. HARGROVE: Keith Hargrove, board member.
1. MR. BAUGHMAN: I'm Dave Baughman. 
2. Board member. 
3. MS. RHONE: Deborah Rhone, Boiler 
4. Office Supervisor. 
5. MS. JEFFERSON: Kim Jefferson, 
6. Administrator. 
7. MR. BAILEY: Dan Bailey, legal 
8. counsel. 
9. MR. ENG: Richard Eng, Wacker 
10. Chemical. 
11. MR. JOSHI: Prasao Joshi, Wacker 
12. Chemical. 
13. MR. GROSS: Jeremy Gross, Valero 
15. MR. TOTH: Marty Toth, Boiler 
17. MR. NEVILLE: James Neville, 
18. Neville Engineering. 
19. MR. BENNETT: Dave Bennett, Dave 
21. MR. SNEED: Brandon Sneed, Domtar 
22. Paper. 
23. MR. SANDERS: John Sanders, Domtar 
25. MR. WHITE: Marshall White, Domtar 

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1. MR. BAUGHMAN: Motion to accept the 
2. agenda. 
3. CHAIRMAN MORELOCK: Okay. I've got 
4. a motion. 
5. MR. HARGROVE: Second. 
6. CHAIRMAN MORELOCK: I've got a 
7. second. Are there any additions, corrections to 
8. the agenda? 
9. (No verbal response.) 
10. 
11. CHAIRMAN MORELOCK: All right. 
12. Hearing none, all in favor say "aye." 
13. (Affirmative response.) 
14. CHAIRMAN MORELOCK: Opposed? 
15. (No verbal response.) 
16. CHAIRMAN MORELOCK: Abstentions? 
17. (No verbal response.) 
18. CHAIRMAN MORELOCK: Not voting? 
19. (No verbal response.) 
20. CHAIRMAN MORELOCK: Okay. We have 
21. an agenda. 
22. Moving on to Item 4 is approval of 
23. the December 14, 2016 meeting minutes. Those are 
24. electronically on the Tennessee website under 
25. Boiler Unit, and Tennessee Board, so you can 

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1. certainly go out and look at those. And so do I 
2. have a motion to accept these minutes? 
3. MR. BAUGHMAN: Motion to accept the 
4. minutes. 
5. CHAIRMAN MORELOCK: I've got a 
6. motion. 
7. MR. PISCHKE: Second. 
8. CHAIRMAN MORELOCK: I've got a 
9. second. Are there typically corrections to the 
10. minutes? 
11. (No verbal response.) 
12. CHAIRMAN MORELOCK: Okay. I will 
13. in -- I do want to make a correction. It's not 
14. what was recorded. It's from the chairman. I did 
15. go back -- we had a discussion item in December 
16. about the formation of a board or a committee that 
17. was approved by the board. And Mr. Chris Hartford 
18. brought that item up. And we did -- the Tennessee 
19. Board did vote that item in September 2016, just 
20. for the formation of that committee. 
21. We still do not have a scope or a 
22. charter. Mr. Baughman has got a discussion item 
23. to discuss that further, but I did want to clarify 
24. that out of respect for Mr. Hartford because he 
25. did bring it up. And I've reviewed the minutes,
1. and he is correct. That was Item 16-14, and we
did vote that in September 2016.
3. Anything else?
4. (No verbal response.)
5. CHAIRMAN MORELOCK: Okay. All in
6. favor?
7. (Affirmative response.)
8. CHAIRMAN MORELOCK: Opposed?
9. (No verbal response.)
10. CHAIRMAN MORELOCK: Abstentions?
11. (No verbal response.)
12. CHAIRMAN MORELOCK: Not voting?
13. (No verbal response.)
14. CHAIRMAN MORELOCK: Okay. We have
15. the minutes approved.
16. That will take us to Item 5, the
17. Chief Boiler Inspector's report. So Mr. Chapman,
18. I'll let you present that.
19. MR. CHAPMAN: Thank you. Number of
20. inspections performed was 1,904 from the state
21. inspector; 4,876 from the insurance inspector;
22. giving us a total of 6,780 inspections. Out of
23. that, total delinquent inspections, 758 from the
24. State and 316 from the insurance company, giving
25. us a total of 1,074.
1. Violations found was 23, and we have
2. 3 uncorrected. We had two boiler variances
3. performed. And this is the reporting date from
4. December of 2016. I want to inform the board that
5. we have four new inspectors for Shelby County --
6. well, a total of four. One from Shelby County,
7. Davidson County, and Knox County and Sutherland
8. County. So once we get those qualified, we will
9. be fully staffed.
10. And that's the chief's report.
11. CHAIRMAN MORELOCK: Any questions
12. or comments on the chief's report?
13. (No verbal response.)
14. CHAIRMAN MORELOCK: Okay. Hearing
15. none, we'll move on down the agenda. Item 6 is
16. Old Business, and we have no old business. So
17. that will take us to Item 7.
18. MR. BAILEY: Mr. Chairman,
19. something that is not on the agenda but we had
20. discussed at that last meeting, about how to
21. handle a conflict of interest.
22. CHAIRMAN MORELOCK: Yes.
23. MR. BAILEY: And we discussed it
24. with our general counsel, and we feel like the
25. best way to do it is if a board member has a
1. you can present your item.
2. MR. GROSS: Good morning, Board and
3. guests. I'm Jeremy Gross. I'm the chief
4. inspector at the Valero Memphis Refinery. I'm
5. here today and coming to present our 2016 risk
6. based inspection program status review.
7. In summary, "The Risk Based
8. Inspection program continues to be active at the
9. Valero Memphis Refinery. Our data management
10. system Plant Condition Monitoring Software, PCMS,
11. was upgraded from 8.1 to 8.2. The 8.2 upgrade
12. added program enhancement features along with RBI
13. calculator modifications. The refinery continues
14. to maintain scheduled damage mechanism specific
15. inspections planned and executed on-stream during
16. routine maintenance or major maintenance outages.
17. The key activities related to our
18. 2016 program are as follows, with a safe and
19. successful major maintenance outage effort
20. completed in our Hydrocracker and Sulfur Recovery
21. units. Inspection results were documented and
22. graded, per our inspection effectiveness tables,
23. and rescheduled within our RBI software. The
24. refinery underwent a third-party Process Safety
25. Management Insurance Audit in July of 2016. An
1. internal readiness assessment was also conducted by Corporate PSM Team for preparation for our voluntary protection program application submission. Maintenance and inspection activities executed during 2016 are listed below, in Table A. We also submitted and received approval for extension of our boiler internal inspection frequency in 2016. The boiler operating, inspection, and maintenance program procedure will be put into place following our site visit from Mr. Chapman, which is scheduled for March 21st, next Tuesday.

13. The refinery also submitted an application to the Tennessee Occupational Safety and Health Administration office on January 3rd, 2017, for the review and approval of our VPP program to be implemented, and set up a site audit, that will be soon scheduled.

19. Currently, right now, our status of that is we are waiting for TOSHA to give us an audit date, as there are several audits going on this year.

21. In Table A you can see, established from our internal inspections that were performed in 2016, we conducted 149 in the calendar here, 14. and then for 2017 we have 38 scheduled. We completed 277 external inspections in '16, and then we have 280 scheduled for 2017. Our on-stream inspection efforts, we'll complete 53 inspections since 2016 and we have 5 planned for 2017. I had quite a bit of activity in the 2016 year of our on-stream corrosion mapping on the defect -- damage mechanism for specific inspections. We conducted 14 CUI inspections in '16, and we have 10 scheduled for '17. And then in 2016 we completed 509 jurisdictional inspections. Our Evergreen activities for the RBI program include reviewing the assigned damage mechanism and executing our proper inspection techniques, recording our inspection results and grading them per the respective effectiveness tables, and then scheduling our next inspection per that that RBI methodology. Nonintrusive inspection techniques are executed and captured during our external inspections. Routine corrosion monitoring and specialty non-destructive testing is performed when required. And then we also do a revalidation of our fluid properties and operating conditions on a five-year interval, which is part of our HAZ-op procedure at our site. Our jurisdictional inspection activities on registered equipment are maintained with zero delinquencies. And then our process equipment is circuitized and risk ranked in our RBI program.

8. As you can see on the Risk Data and Distribution table below, based off of our risk level, our circuits that were inspected in 2015 and in our current table there for 2016. And there are changes out to the right-hand side. Overall we had 149 internal inspections completed, 277 externals, and the 14 CUI inspections that were performed in accordance with our RBI program. The jurisdictional inspections are scheduled and current and are being handled separately, outside of our RBI program. During our major maintenance efforts, there were no significant discovery items requiring repair. We did execute some insulation and fireproofing and repairs based on our CUI and external visual inspections. And then there's our table below that lists our equipment status and our circuits.

1. operating conditions on a five-year interval, 2. which is part of our HAZ-op procedure at our site. 3. Our jurisdictional inspection 4. activities on registered equipment are maintained with zero delinquencies. And then our process equipment is circuitized and risk ranked in our RBI program.

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1. software calculation.
2. MR. HARGROVE: (indicating.)
3. CHAIRMAN MORELOCK: Yes?
4. MR. HARGROVE: Keith Hargrove. Let me ask this question.
5. MR. GROSS: Yes, sir.
6. MR. HARGROVE: On average, what is the duration or average time that any one of these inspections are done? And is there any major variance in the time period to conduct those inspections, and who's involved?
7. MR. GROSS: So I want to ask the question back. So as far as timing, as far as to complete the inspection and preparation?
8. MR. HARGROVE: Yes, sir.
9. MR. GROSS: So from an on-stream standpoint, or are you talking about during an outage?
10. MR. HARGROVE: On-stream.
11. MR. GROSS: On-stream?
12. MR. HARGROVE: Yes.
13. MR. GROSS: On-stream, we utilize SAP. We have an operational system that we utilize a schedule. So from a major inspection effort, it may take insulation removal, it may take surface prep via either grip blasting, maybe wire wheeling to execute an angle beam inspection in the welding or for corrosion mapping prepping. So it depends on the scope of the work. If it's a significant job, the preparation could take as much as two to three days. And then as far as the inspection execution, it depends on, again, the area of interest. If we're doing a hundred percent of the vessel, it could take several days from a corrosion mapping exercise, compared to an angle beam inspection where we're just checking welds. The system, then, is closed out once the inspection is complete, and then the data that's found in that inspection exercise goes into our system. And then we are grading that and increasing the approval status further for Evergreen to reschedule that next inspection based on what our findings were.
14. MR. HARGROVE: And you maintain documentation of that period of inspection from beginning to end?
15. MR. GROSS: Yes, sir. Yes, sir, that is correct. So our system will link the actual SAP work order number to our data base so that you can track when that system exercise was closed out. And we call it "T-co'd" (phonetic).
16. MR. GROSS: Yes, sir.
17. CHAIRMAN MORELOCK: -- that's what the software is doing as it does those calculations based on your monitoring inputs from UT thickness and on-stream, on-line monitoring.
18. MR. GROSS: Yes, sir.
19. CHAIRMAN MORELOCK: -- that's what the software is doing as it does those calculations based on your monitoring inputs from UT thickness and on-stream, on-line monitoring.
20. MR. GROSS: That's correct.
21. CHAIRMAN MORELOCK: -- that's what the software is doing as it does those calculations based on your monitoring inputs from UT thickness and on-stream, on-line monitoring.
22. CHAIRMAN MORELOCK: Okay. Any other questions?
23. (No verbal response.)
24. CHAIRMAN MORELOCK: All right. Hearing none, all in favor to accept and approve this RBI report from Valero, say "aye."
25. (Affirmative response.)
26. CHAIRMAN MORELOCK: Opposed?
1. updated the board on the program status. And now
2. this is part 2 of our current RBI program.
3. In 2015, we registered over 350
4. pressure vessels, and in 2016 we also registered
5. approximately 350 pressure vessels. And those
6. pressure vessels, as of 2017, are up for renewal.
7. And that's what we're doing today.
8. On the inspection side, we, too, use
9. an RBI methodology similarly to Valero. I think
10. Jeremy Gross has done the heavy lifting already on
11. describing what it is. We use the Meridium
12. software, and we are also, similar to Valero,
13. linked to an SAP system.
14. In 2017 we started our inspection
15. program, and we have inspected 96 vessels as of
16. March 12th, and the program is ongoing. And this
17. is our first year of inspection.
18. Also, in our earlier presentation to
19. the board, we were committed to take baseline
20. readings and select equipment so that we can
21. demonstrate to the board that we are a facility
22. operating in a noncorrosive environment. And we
23. have completed round 1 as of 2016. We are about
24. to start round 2 in 2017. It has started just
25. last week, and we will continue into that program

1. for the duration of the year.
2. On this package that we presented, we
3. provided an example of our inspection of pressure
4. vessels on getting baseline readings. And if you
5. take a few minutes, you can see a typical layout
6. on how we determine the vessel, the number of
7. points we have taken, the way we identify all the
8. points, and the findings on the very last page.
9. We had approximately 20 to 25 points
10. per pressure vessel, and it's based on the size of
11. the vessel, the service, the application and API
12. 510 recommendations. And that's how we make that
13. determination to location and the number of
14. different points.
15. On the last page -- I think it's the
16. last page on your printout -- you will see a
17. typical profile. On the third column, Minimum
18. Thickness, that's a calculated value for us. It
19. is the thickness that's calculated between a
20. design thickness minus the 12-1/2 percent
21. manufacturer's tolerance thickness, and then minus
22. any corrosion allowance in the manufacturing of
23. the vessel.
24. And in the very last column on
25. Readings, those are the actual readings that we

1. have from the field. So we compare those readings
2. to the minimum-thickness readings. They are to be
3. equal or higher. If they are not, we have a
4. problem.
5. This is what I want to update the
6. board on, where we are today in terms of how we
7. conduct our first round of readings and are
8. ongoing for the second round. And we will provide
9. an update to the board, on the next December
10. meeting, with the calculations, annualized
11. corrosion rates for our process within our
12. facility.

13. CHAIRMAN MORELOCK: Thank you,
15. Do I have a motion to accept Wacker's
16. RBI report?
17. MR. BAILEY: Conflicts?
18. CHAIRMAN MORELOCK: Yes, thank you.
19. Is there a conflict of interest?
20. (No verbal response.)
21. CHAIRMAN MORELOCK: Hearing none,
22. do I have a motion to accept Wacker's report?
23. MR. BAUGHMAN: Motion made to
24. accept the report.
25. MR. PISCHKE: Second.

1. CHAIRMAN MORELOCK: So I have a
2. second. Any questions or comments?
3. MR. PISCHKE: I have a question
4. about the failure modes that you would be looking
5. for. I assume, and maybe this is wrong, that
6. these vessels contain the polysilicon and some
7. erosion concerns.
8. MR. ENG: That's correct. There
9. are many applications where we have solids of
10. different sizes flowing at fairly high velocities.
11. So erosion, actually, is more of an issue than
12. corrosion.
13. MR. PISCHKE: Than corrosion, correct.
14. MR. ENG: Okay. So we do monitor
15. thickness for many of these processes, knowing
16. that, already -- from our previous operations in
17. our sister facilities, mainly in Germany, with 30,
18. 40, 50 years of operating history, we know that,
19. one, at a certain, specific date or so many kilos
20. of production we will take the vessel down,
21. provide a visual inspection, take a measurement of
22. thickness, and in many times do a repair. That's
23. a normal routine for many of our equipment out in
24. the field.
1. Mr. Pischke: Is that part of this
2. RBI, then?
3. Mr. Eng: RBI for us is
4. predominately corrosion, damage-mechanism related.
5. The erosion side, we have a separate program,
6. though, we don't call it RBI. We have the
7. operating in-service inspections. And it's a --
8. how should I say -- it's based on the number of
9. hours of operation and the application of that
10. vessel. An example I can provide is in our CS
11. reaction to area. Approximately every six to ten
12. months a reactor comes out, because we know that
13. it's due time for inspection and repair, possibly,
14. and then put it back in service.
15. To answer Dr. Hargrove's question on
16. who does it, when do we do it, how is it notified,
17. if I can just say ditto Valero, it would be easy
18. for me. Okay?
19. Chairman Morelock: Well, and just
20. for our benefit, where Wacker is right now is
21. they've got a brand new facility in the state of
22. Tennessee. They're creating a lot of jobs, by the
23. way. But what they're having to do is this
24. baseline is -- everything is new, so they're
25. taking all these readings to see what the

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1. thickness of all these components, pressure
2. components, are right now. And right now they're
3. bound by the two-year internal inspection
4. requirement in the law and rule to maintain a
5. certificate of inspection for their equipment.
6. Once they operate this two years and then do this
7. inspection again and take these readings again,
8. then they can establish potential corrosion rates
9. or erosion rates or your damage mechanisms,
10. confirm that they are actual damage mechanisms,
11. and then they can come back to the board with
12. another report to see if they have cause to extend
13. those internal inspection frequencies beyond two
14. years based on their date. But they're gathering
15. data right now. So that's where they're at. So
16. it's a good process and it's a good report.
17. Mr. Eng: I think, for me, as an
18. engineer, typically, when you go into a facility,
19. you don't get the luxury of starting up a brand
20. new facility and being able to get baseline
21. readings. I think this is the first time I can do
22. it.
23. Mr. Baughman: I'd like to comment.
24. I just wanted to make a comment that I noticed our
25. charts were a little bit off. And mine is not

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1. legible; whereas, my brother's, next to me, is.
2. So I looked over it, but just as a proofreading
3. for in the future so that I can analyze the chart,
4. I would ask that to be noted.
5. Mr. Eng: Maybe if I don't put
6. color schemes, it will be easier. My apologies.
7. Chairman Morelock: Okay. Any
8. other questions or comments?
9. Mr. Hargrove: Just one quick
10. question. On your Table, you made the statement
11. that the readings should exceed the thickness.
12. Mr. Eng: Yes.
13. Mr. Hargrove: And I would
14. certainly agree with that. Is there any concern
15. for, I think, Number 17 -- any concern there in
16. particular about that reading? Or should the
17. reading be done again?
18. Mr. Eng: 17, okay. Let's take a
19. look -- .398, is that the one you're looking at,
20. Dr. Hargrove?
21. Mr. Hargrove: At the end, .5 and
22. then .496. Am I reading that correctly?
23. Chairman Morelock: You are.
24. Mr. Pischke: Yeah. And the
25. minimum is .398.
1. CHAIRMAN MORELOCK: Not voting?
2. (No verbal response.)
3. CHAIRMAN MORELOCK: Thank you,
5. MR. ENG: Thank you.
6. CHAIRMAN MORELOCK: Okay. That takes us to Item 17-03. This is MC Ionic Solutions requesting to designate nine pressure vessels as Tennessee Specials.
7. So, gentlemen, if you'll introduce yourselves.
8. MR. WOODFIN: Randall Woodfin with CNA Insurance.
9. MR. VJIHARA: Yuki Vjihara with MC Ionic Solutions US.
10. MR. YAMAHARA: My name is Katsuhito Y amahara. I'm the plant manager at MC Ionic Solutions US.
11. THE REPORTER: If he's going to be speaking, I can't hear him.
12. Can you please speak up?
13. CHAIRMAN MORELOCK: You-all may proceed.
14. MR. WOODFIN: Thank you. These vessels were installed without national board numbers. They were purchased in China, and inadvertently, through their procurement process, national board numbers were either not requested or not installed by the manufacturer. When they were installed six years ago, the insurance inspector at the time originally registered those vessels with the State, and the State issued operating certificates for the vessels. Subsequently, during the next inspection cycle, the lack of national board numbers was noted and flagged. Through subsequent guidance through Mr. Chapman and Ms. Rhone, they requested that we make application or requested that the manufacturer make application to the national board to apply national board numbers on those. The national board denied their request. So subsequent to that, Mr. Chapman made guidance to apply for State Specials for those vessels.
15. CHAIRMAN MORELOCK: Do I have a motion to discuss this item?
16. MR. PISCHKE: So moved.
17. MR. BAUGHMAN: Second.
18. CHAIRMAN MORELOCK: Okay. I've got a motion and a second.
1. There's no board case, no board interpretation.
2. There's nothing that would allow the board
3. leniency, because they're not national board
4. stamped. And so that's where we're at today.
5. MR. BAUGHMAN: I've got a question.
6. CHAIRMAN MORELOCK: Yes?
7. MR. BAUGHMAN: Has there been any
8. repairs, to date, on any of the vessels?
9. MR. WOODFIN: You haven't done any
10. welding or repairs?
11. MR. VJIHARA: No.
13. MR. BAUGHMAN: Any issues with any
14. of the vessels, operational-wise, that have had to
15. have any attention?
16. MR. YAMAHARA: We have never had
17. such a problem or issues. No. Not any.
18. CHAIRMAN MORELOCK: Any other
19. questions or comments?
20. MR. BAUGHMAN: When is the last
21. time these have been inspected?
22. CHAIRMAN MORELOCK: I think the
23. inspection reports -- I think they're in the
24. package.

1. MR. WOODFIN: April of 2016.
2. That's when the lack of national board numbers was
3. noted on the vessels -- or noted not on the
4. vessels.
5. MR. BAUGHMAN: Okay. So these were
6. installed six years ago, and they were noted last
7. year.
8. MR. WOODFIN: Yes.
9. MR. BAUGHMAN: Okay. Thank you.
10. CHAIRMAN MORELOCK: Any other
11. questions or comments?
12. MR. HARGROVE: I have a question.
13. CHAIRMAN MORELOCK: Yes?
14. MR. HARGROVE: Only one request was
15. made? I assume that there was only one request
16. for those national stamps, correct?
17. MR. WOODFIN: We did not push back
18. to Mr. Hogue. We did not respond and disagree or
19. ask for further guidance on it. His answer was
20. fairly emphatic.
21. CHAIRMAN MORELOCK: Any other
22. questions or comments?
23. (No verbal response.)
24. CHAIRMAN MORELOCK: All right.
25. Hearing none, do I have a motion to approve these

1. during this process -- we've been going through
2. for a year -- we've identified three other vessels
3. on site that were not previously known and have
4. not been registered yet with the State. Those
5. also are U-stamped but do not have national board
6. numbers.
7. CHAIRMAN MORELOCK: Okay.
8. MR. WOODFIN: For those three, do
9. we have to come back and make a --
10. CHAIRMAN MORELOCK: Yes.
11. MR. WOODFIN: Okay.
12. CHAIRMAN MORELOCK: Now, how old
13. are they?
14. MR. WOODFIN: The same. They were
15. installed exactly the same time.
16. CHAIRMAN MORELOCK: Okay. Well,
17. then, yes, you'll just have to bring those back to
18. us.
19. MR. BAUGHMAN: Do they have any
20. others on order, coming in?
21. MR. WOODFIN: I don't think there
22. ever will be, to be honest about it. It's been a
23. good -- it's been a very good process. And my
24. last note is related to that, Dave. Thank you.
25. The owners would really like to thank
I've got four guys, so I really need a variance to entirely engineering department. At four hospitals

The hospital itself, I've got two
guys there full time. That's it. That's my entire engineering department. At four hospitals

I've got four guys, so I really need a variance to
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<td>1. guys at the hospital --</td>
<td>1. also have that responsibility.</td>
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<td>2. MR. MUMMERT: Correct.</td>
<td>2. MR. BAUGHMAN: Okay. Scenario</td>
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<td>3. MR. BAUGHMAN: -- who are operating</td>
<td>3. being if there's a trauma incident and we've got</td>
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<td>4. 24/7.</td>
<td>4. multiple patients coming in, is there a</td>
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<td>5. MR. MUMMERT: Yes, sir.</td>
<td>5. possibility that the remote alarm attendant would</td>
</tr>
<tr>
<td>6. MR. BAUGHMAN: So during one of the</td>
<td>6. not be available?</td>
</tr>
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<td>7. shifts we're short a person, or if somebody is</td>
<td>7. MR. MUMMERT: It's right at the</td>
</tr>
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<td>8. sick, holidays, what have you, we're really --</td>
<td>8. nurses station, so there's usually two nurses, a</td>
</tr>
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<td>9. MR. MUMMERT: When I said I've got</td>
<td>9. respiratory therapist, and a registration person</td>
</tr>
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<td>10. two people there, I also have -- I've got three</td>
<td>10. there. Even after hours, there's generally four</td>
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<td>11. healthcare facilities in one county. I've got a</td>
<td>11. in that general area, including a doctor roving</td>
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<td>12. third maintenance guy at another facility, which</td>
<td>12. around. But if there is an issue with the boiler,</td>
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<td>13. is 16 miles away, that also takes calls on these</td>
<td>13. it automatically shuts itself down. When that</td>
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<td>14. boilers, and he's been trained. And he's</td>
<td>14. alarm sounds, the boiler shuts down. So that's</td>
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<td>15. documented in here. And I've got a fourth guy I</td>
<td>15. more of them to see why the alarm sounded.</td>
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<td>16. just hired, just this past week. So I don't have</td>
<td>16. MR. BAUGHMAN: But the -- and I</td>
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<td>17. him in here because he's not up and -- he gets</td>
<td>17. appreciate that, but the question being, is there</td>
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<td>18. lost now in the building, so I can't train him yet</td>
<td>18. the possibility that this remote alarm station</td>
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<td>19. until he gets comfortable.</td>
<td>19. could possibly not be attended, and --</td>
</tr>
<tr>
<td>20. In between that, I've got --</td>
<td>20. MR. MUMMERT: It's -- the alarm is</td>
</tr>
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<td>21. respiratory therapy is there 24/7, because of the</td>
<td>21. so loud that because of the size of -- the ER is</td>
</tr>
<tr>
<td>22. nature of their job, and we have trained them to</td>
<td>22. so small, that no matter where you are at in the</td>
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<td>23. go down and do a physical, on-site -- look things</td>
<td>23. ER, you can hear it.</td>
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<tr>
<td>24. over to make sure there's nothing squirting out</td>
<td>24. MR. BAUGHMAN: Can you silence the</td>
</tr>
<tr>
<td>25. the side and no fires. So they're doing a visual</td>
<td>25. alarm itself?</td>
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<td>1. inspection, and it's set up that they will</td>
<td>1. MR. MUMMERT: If you do, you kill</td>
</tr>
<tr>
<td>2. automatically contact whoever is on call, or</td>
<td>2. the boiler.</td>
</tr>
<tr>
<td>3. myself, if they cannot get the person on call.</td>
<td>3. MR. BAUGHMAN: Okay. So the alarm,</td>
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<td>4. And they also have the capability, remotely, in</td>
<td>4. itself, by silencing it, also --</td>
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<tr>
<td>5. the emergency room, to kill that boiler or</td>
<td>5. MR. MUMMERT: Shuts down --</td>
</tr>
<tr>
<td>6. whichever boiler is online. And once they hit</td>
<td>6. MR. BAUGHMAN: -- shuts down the</td>
</tr>
<tr>
<td>7. that switch, they can't reset it. It has to be</td>
<td>7. boiler.</td>
</tr>
<tr>
<td>8. physically done by a maintenance worker. They</td>
<td>8. MR. MUMMERT: Yes.</td>
</tr>
<tr>
<td>9. have to go down to the boiler itself to do it.</td>
<td>9. MR. BAUGHMAN: Okay. So if there's</td>
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<td>10. MR. BAUGHMAN: Under the</td>
<td>10. an incident -- I guess what I'm getting at,</td>
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<td>11. Appendix E, Remote Alarm Attendant Duties on</td>
<td>11. Derrick, is -- what I'm concerned with is that</td>
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<tr>
<td>12. page E-1, duties and responsibilities. So this</td>
<td>12. even if an alarm is going off, if there's trauma,</td>
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<td>13. person answers the calls on PBX during evening</td>
<td>13. what we've got in the remote station that's being</td>
</tr>
<tr>
<td>14. hours. What are those evening hours?</td>
<td>14. served by staff personnel -- nurses, respiratory</td>
</tr>
<tr>
<td>15. MR. MUMMERT: Usually from 3:00 in</td>
<td>15. therapist-type people -- but if there's an</td>
</tr>
<tr>
<td>16. the afternoon until 6:00 in the morning.</td>
<td>16. incident, what I'm concerned with is, even if this</td>
</tr>
<tr>
<td>17. MR. BAUGHMAN: Registering incoming</td>
<td>17. alarm is going off, that life is being attended to</td>
</tr>
<tr>
<td>18. patients?</td>
<td>18. and that we've got the possibility of this station</td>
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<tr>
<td>19. MR. MUMMERT: Yes. This is at</td>
<td>19. not being attended. And that's just what I'm</td>
</tr>
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<td>20. nighttime. The registration department is not</td>
<td>20. getting at.</td>
</tr>
<tr>
<td>21. there because it's such a small hospital. The</td>
<td>21. MR. MUMMERT: Right. And I</td>
</tr>
<tr>
<td>22. respiratory therapy department and some of the</td>
<td>22. understand what you're saying. Yeah, there's a</td>
</tr>
<tr>
<td>23. registration people are trained for this visual</td>
<td>23. possibility, you know, God forbid, that there's</td>
</tr>
<tr>
<td>24. inspection, so they cross-train each other. So if</td>
<td>24. something going on that everybody is pulled away</td>
</tr>
<tr>
<td>25. it's just a respiratory therapy there, they would</td>
<td>25. at one time. But yeah, there's a good possibility</td>
</tr>
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1. that there's somebody not right there face-to-face
2. with the alarm. But no matter -- like I said, no
3. matter where they are in that ER, it's such a
4. small ER, that they can hear it.
5. MR. BAUGHMAN: Okay. This alarm,
6. it's hardwired in?
7. MR. MUMMERT: Yes.
8. MR. BAUGHMAN: I pass the questions
9. off for now.
10. MR. HARGROVE: Quite frankly, I'm a
11. little concerned on the availability of personnel
12. for the incidents and oversight of the boilers.
13. Considering your staff, it stated that the alarm
14. panel is tested daily.
15. MR. MUMMERT: That's correct.
16. MR. HARGROVE: Okay. So walk me
17. through who's doing that.
18. MR. MUMMERT: Every day it's done
19. by maintenance.
20. MR. HARGROVE: And what time? Is
21. this the beginning of --
22. MR. MUMMERT: We usually do it
23. about -- when they first come in, it's usually
24. around 6:00 in the morning. We go through the --
25. we've got a daily check-off sheet that we use. We

1. inspect everything.
2. MR. HARGROVE: Describe the "we."
3. MR. MUMMERT: "We" as in the
4. maintenance people. I've got a senior maintenance
5. technician -- two senior maintenance technicians
6. and a general maintenance technician and myself.
7. So during the week it's usually the senior
8. maintenance technicians that will go down there
9. and inspect the boiler, check the readings, check
10. and make sure there's no leaks anywhere. You
11. know, just an overall visual inspection.
12. And then we do blow-downs, and then
13. we will check the alarms. And we call the ER to
14. say, "Hey, we're going to set the alarm off," so
15. that they can watch the alarm panel to make sure
16. it's functioning. And on the weekends, I still
17. have people go in -- maintenance still goes in on
18. weekends, every weekend, and does this. Seven
19. days a week maintenance goes in and tests the
20. alarms themselves.
21. CHAIRMAN MORELOCK: Any other
22. questions?
23. MR. PISCHKE: (Indicating.)
24. CHAIRMAN MORELOCK: Yes ...
25. MR. PISCHKE: I had a question

1. about the training of the remote attendants. Are
2. all of these people full-time employees?
3. MR. MUMMERT: Yes.
4. MR. PISCHKE: No temps or --
5. MR. MUMMERT: No. They're all
6. full-time.
7. MR. PISCHKE: -- subcontracted?
8. MR. MUMMERT: Full-time.
9. MR. PISCHKE: Okay. And there's
10. not a high turnover rate or --
11. MR. MUMMERT: No.
12. MR. PISCHKE: Because I notice it's
13. only once a year that the training occurs, and
14. so ...
15. MR. MUMMERT: Yeah. That's just
16. because I started this in October. I mean,
17. that's -- but, I mean, I can do it earlier or
18. sooner. When I get new people, of course we do it
19. as part of the initial orientation. Once we get
20. them trained, you know -- and I'll update this and
21. send it in to let the boiler board know that if
22. there's any new personnel, we would train them
23. once they got their normal job done, too, before
24. we put them on that. Just like my new guy. I'm
25. not going to train him until he's comfortable with

1. his functioning. And then once we start letting
2. him go through hands-on, by himself with the
3. boilers with the testing and inspections, then
4. we'll do the training.
5. CHAIRMAN MORELOCK: I've got
6. several comments. Let me go back to the check
7. list and kind of cover those. Figure 1, site
8. plan, it would be good if we knew the distance
9. from the boiler room to the nurses station.
10. Typically, if we just have a little dimension
11. there, whether it be a hundred feet, a hundred
12. yards. Whatever that is, we need to know. That
13. gives us a proximity so we know how quickly those
14. can be responded to.
15. On page 1 of your manual it states
16. that you, Derrick Mummert, are a Maintenance
17. Manager II. But then on page 3 the manual states
18. that you're the one who maintains the manual and
19. the variance, but then it says on page 3 that the
20. manual is maintained by the engineering
21. department.
22. MR. MUMMERT: I am the engineering
23. department.
24. CHAIRMAN MORELOCK: Okay. So
25. what's important for us is we're not familiar with
1. your facility, and so when we look at your
2. organizational chart in Appendix D, you know, we
3. need to see -- we need to make sure what we see in
4. the organizational chart and the verbiage in the
5. manual, it all connects the dots. Because I was
6. kind of getting lost, because I didn't know. So
7. if you're the maintenance manager/engineering
8. department/Justice of the Peace and all of that,
9. we just need to show that so that the board
10. members know what your responsibilities are and we
11. don't get lost in who's maintaining the program.
12. MR. MUMMERT: Okay.
13. CHAIRMAN MORELOCK: And then as far
14. as a remote monitor, you know, it states that the
15. emergency department nurses station is on page 2.
16. Then on page 4 it doesn't list -- it says
17. emergency department on page 4, and then
18. Appendix E, which we just looked at, it doesn't
19. list who the remote monitors are. So if it's the
20. respiratory therapists, they need to be in there.
21. If it's the nurses, they need to be in there. If
22. it's a doctor, it needs to be in there. And it
23. also needs to be shown on the organizational chart
24. so that we have a clear picture of who the remote
25. monitors are so we can follow that. And that's

1. going to be also important when you have a site
2. visit so that when they take this manual and say,
3. "Well, where are these people and what are their
4. duties?" you'll be able to answer that question.
5. MR. MUMMERT: Okay.
6. CHAIRMAN MORELOCK: So make sure
7. that the job titles are consistent through the
8. manual, and make sure your organizational chart
9. lists everybody. Same thing for Appendix F. You
10. list boiler operators, but boiler operators are
11. actually maintenance people, right?
12. MR. MUMMERT: Yes.
13. CHAIRMAN MORELOCK: So you need to
14. list all the different maintenance people that
15. serve as boiler operators, whether it's a
16. supervisor, senior tech -- whoever that is, list
17. all those people consistently in the manual and
18. show them on the organizational chart so we can
19. follow that so that we'll know who those folks
20. are.
21. MR. MUMMERT: Okay.
22. CHAIRMAN MORELOCK: Appendix F, you
23. need to list that the boiler operator will attend
24. a boiler using the 20-minute rule if there is an
25. alarm and the remote monitoring station can't be

1. put back into operation. And the old rule was
2. 800-3-3.422, but with our 2016 revision of the
3. manual, the 20-minute rule now falls under
4. 0800-03-03-.08(11). So that's the new 20-minute
5. rule. It's the same verbiage. It just was
6. reorganized.
7. MR. MUMMERT: Okay.
8. CHAIRMAN MORELOCK: And, again, if
9. there's any issue with the boiler that you can't
10. use the variance, you'll go back to the 20-minute
11. rule. And you may want to include that verbiage
12. on page 6 and 7.
13. In Appendix F, again, Boiler Operator
14. Duties, all these duties are operating the boiler,
15. but these are maintenance people. They have other
16. duties, and we need to know what those other
17. duties are, again, because we want to make sure
18. that just their day-in/day-out work life isn't
19. going to take them away from maintaining the
20. boiler and keeping it safe.
21. The checklist does request that you
22. send a cover letter to the boiler unit and the
23. chief inspector for the State of Tennessee. And I
24. know you allude to requesting a variance on
25. page 1, but there's really not a formal request

1. for a variance. You're just stating the benefits
2. of having a variance.
3. MR. MUMMERT: I included that when
4. I sent the packages, though.
5. CHAIRMAN MORELOCK: Okay. How do
6. you prevent unauthorized access to your boiler
7. monitoring?
8. MR. MUMMERT: You can't get in the
9. ER without a badge. You have to be an employee.
10. CHAIRMAN MORELOCK: Okay. But what
11. if it's an employee? How do you prevent an
12. unauthorized employee from gaining access to that?
13. Is everybody going to be a boiler operator or a
14. boiler attendant or a monitor?
15. MR. MUMMERT: Well, there is no --
16. I mean, other than they can't get through there
17. unless they go through the ER, but, I mean, I
18. don't have no physical security there that --
19. CHAIRMAN MORELOCK: Well, I mean,
20. it's just usually the software is password
21. protected.
22. MR. MUMMERT: Oh, well, yeah. I
23. can't even tell you how to get into that part of
24. it, so --
25. CHAIRMAN MORELOCK: Okay. So just
1. put that in your manual that it's password
2. protected and we'll be fine. Okay?
3. MR. MUMMERT: Okay.
4. CHAIRMAN MORELOCK: Do you have a
5. log of the manual holders? I know they're in the
6. ER and the boiler room.
7. MR. MUMMERT: That's the only two
8. places.
9. CHAIRMAN MORELOCK: Just put you a
10. little two-line log in there that you are tracking
11. where those manuals are, you're controlling those
12. documents.
13. And the boiler checks that you state
14. under Boiler Operator Duties and Remote Attendant
15. Duties, and then the verbiage of your manual, make
16. sure that what you're checking, that's stated in
17. words, also appears on your boiler log as well so
18. that the verbiage and the boiler log correspond to
19. each other. As far as low water and all that kind
20. of stuff, make sure you've got all that tied
21. together.
22. MR. MUMMERT: Okay.
23. CHAIRMAN MORELOCK: And lastly, you
24. do have the words in your emergency procedure
25. highlighted, but if this manual was lying -- I

1. know you've got a placard on it, too. But it's
2. always good to either have a tab or a colored page
3. or something so if somebody picks this manual up,
4. they can immediately know where the emergency
5. procedures are.
6. MR. MUMMERT: I put tabs on it but
7. they fell off before I sent it, so I just
8. highlighted them.
9. CHAIRMAN MORELOCK: Okay.
10. MR. MUMMERT: But the one at my
11. office has got tabs on it.
12. CHAIRMAN MORELOCK: If you could
13. print it out on a bright yellow page or something
14. like that.
15. MR. MUMMERT: Okay.
16. CHAIRMAN MORELOCK: Okay. All
17. right. So that's the comments that I have.
18. Are there any others?
19. MR. BAUGHMAN: Yes, sir.
20. CHAIRMAN MORELOCK: Yes?
21. MR. BAUGHMAN: From a technical
22. standpoint, Derrick, you had made mention that
23. during the week they go through a test where I
24. think you mentioned that somebody would let the
25. remote station know that a test was being

1. performed. And when they perform that test,
2. they're looking to see if a light comes on.
3. What's the test? How is that performed?
4. MR. MUMMERT: When we do a
5. blow-down, we can actually drop the water level
6. and they'll shut it down on low water. And when
7. it does kill the boiler, we want to verify that it
8. sounded the alarm, for one, and that the boiler is
9. actually dead. We cannot start -- flip the switch
10. again. So that's what we're actually testing, to
11. make sure the safeties are doing what they're
12. supposed to.
13. MR. BAUGHMAN: So when I look at
14. this remote boiler control station that's at the
15. very end of the manual and I can see Boiler
16. number 2, on the right, fairly well, I'm seeing a
17. buzzer silencer, alarm silencer. And then I'm
18. seeing the switch down below on or off. And so --
19. MR. MUMMERT: You've got -- on the
20. right-hand side is Boiler Number 2. All those are
21. for Boiler Number 2. On the left-hand side,
22. everything else is for Boiler Number 1.
23. MR. BAUGHMAN: Yes, sir. My
24. question being, is that you made mention before
25. that when the alarm sounds, that if you hit the
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<td>2.</td>
<td>2. MR. BAUGHMAN: Okay.</td>
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<td>4. Oh, you mean on that tag?</td>
<td>4. MR. BAUGHMAN: Okay. We had an incident some time back, and if I'm not mistaken, the remote shut-down switch is to turn the gas itself off. There's some questions about where the e-stops tie into and what have you, but we had an instant where the control circuit had shorted out. And because the emergency stop was tied into the control circuit, the boiler would not shut off. It continued to run. So that's why I ask, also, where the tie-in was for this.</td>
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<td>5. MR. BAUGHMAN: Yes, sir.</td>
<td>5. MR. MUMMERT: I can double check on that, just to make sure.</td>
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<td>6. MR. MUMMERT: &quot;Silence only.&quot;</td>
<td>6. CHAIRMAN MORELOCK: Any other questions or comments?</td>
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<td>7. MR. BAUGHMAN: Silence only?</td>
<td>7. MR. BAUGHMAN: On the maintenance on-call list that you have under the four-hour boiler checks --</td>
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<td>9. MR. BAUGHMAN: Okay. So if it's doing silence only, I guess that's kind of where my question was leading.</td>
<td>9. MR. BAUGHMAN: -- the number for Jackie Newell needs to have the area code with that also.</td>
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<td>10. MR. MUMMERT: It's confusing.</td>
<td>10. Yeah, I see what you're saying.</td>
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<td>11. MR. BAUGHMAN: Yes, sir.</td>
<td>11. MR. MUMMERT: I say that but I was not there at this time. I inherited this job when this hospital flooded and the guy quit, so -- it was there before me, so I assume it was -- I know part of this was done in-house, so I'm assuming the whole thing is not UL listed.</td>
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<td>12. MR. MUMMERT: Yeah, that needs to come off or clarified on that.</td>
<td>12. CHAIRMAN MORELOCK: Okay. Hearing none, I'm going to call the question. All in favor say &quot;aye.&quot;</td>
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<td>13. MR. BAUGHMAN: Okay. Well, I would like the inspector, at that particular time, to make note. And I'm sure that they will as they go through the functionality of that particular system.</td>
<td>13. MR. MUMMERT: Aye.</td>
</tr>
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<td>15. MR. BAUGHMAN: Was this system built on site?</td>
<td>15. CHAIRMAN MORELOCK: Abstentions?</td>
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<td>16. MR. MUMMERT: Yes.</td>
<td>16. (No verbal response.)</td>
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<td>17. MR. BAUGHMAN: Okay. So it's not necessarily UL listed.</td>
<td>17. CHAIRMAN MORELOCK: Okay. So I've got one for and one against and ...</td>
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<td>18. MR. MUMMERT: This remote buzzer, here, no.</td>
<td>18. MR. BAUGHMAN: I would vote no.</td>
</tr>
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<td>19. MR. BAUGHMAN: Okay.</td>
<td>19. CHAIRMAN MORELOCK: Okay. Based on the current manual?</td>
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<td>20. MR. MUMMERT: I say that but I was not there at this time. I inherited this job when this hospital flooded and the guy quit, so -- it was there before me, so I assume it was -- I know part of this was done in-house, so I'm assuming the whole thing is not UL listed.</td>
<td>20. MR. BAUGHMAN: I would, yes.</td>
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<td>21. CHAIRMAN MORELOCK: Okay.</td>
<td>21. CHAIRMAN MORELOCK: Opposed?</td>
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<td>22. MR. BAUGHMAN: Is there a requirement that components be UL listed, or is that something that we've talked about before, or is there a particular requirement for that? I don't know. I know within CSD-1, it relates to it. And this is -- in the boiler itself, where is this tied into that shuts the boiler off? In other words, is it tied into the gas valve? Is it tied into the control circuit?</td>
<td>22. MR. MUMMERT: Opposed.</td>
</tr>
<tr>
<td>24. MR. BAUGHMAN: It's tied into the control circuit.</td>
<td>24. CHAIRMAN MORELOCK: Abstentions?</td>
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<td>25.</td>
<td>25. (No verbal response.)</td>
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<td>27.</td>
<td>27. MR. BAUGHMAN: I would vote no.</td>
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<td>28.</td>
<td>28. CHAIRMAN MORELOCK: Okay. So based on the current manual?</td>
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<td>29.</td>
<td>29. MR. BAUGHMAN: Based on the current manual and from what I've seen, I get some contradiction or some feeling from Derrick that we don't know exactly -- I don't get that we know exactly how things are tied in, where they're tied in.</td>
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<td>30.</td>
<td>30. MR. MUMMERT: No, I don't. I'll be</td>
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1. honest with you, I don't. I'd never seen a boiler
2. until I got that job, and the only reason I got
3. that job is because a guy quit.
4. MR. BAUGHMAN: And I appreciate
5. your candid honesty with that, Derrick. And
6. especially where you are in charge of training,
7. also, it puts you in a very difficult position.
8. MR. MUMMERT: Right.
9. MR. BAUGHMAN: And I appreciate
10. that very much, because that's what we're here
11. for, is, ultimately, safety.
13. CHAIRMAN MORELOCK: Okay. So with
14. that, your variance approval has not been passed.
15. You can take all the comments from the board and
16. go back and revise your manual, clarify your
17. boiler operating system, and you're welcome to
18. come back and try again.
19. MR. MUMMERT: So what happens? I
20. mean --
21. CHAIRMAN MORELOCK: You're still on
22. the 20-minute rule right now.
23. MR. MUMMERT: Pardon me?
24. CHAIRMAN MORELOCK: You're going to
25. have to operate your boilers on the 20-minute rule

1. until this is approved.
2. MR. MUMMERT: And who is the -- who
3. can do that?
4. CHAIRMAN MORELOCK: You're going to
5. have to have a boiler operator.
6. MR. MUMMERT: Well, I mean, it has
7. to be maintenance or are you saying it could be
8. anybody --
9. CHAIRMAN MORELOCK: It's going to
10. have to be who you designate as your boiler
11. operator.
12. MR. MUMMERT: Okay.
13. CHAIRMAN MORELOCK: Have you got a
14. comment, Mr. Toth?
15. MR. TOTH: Yes. Question: Was
16. this a renewal for the variance?
17. CHAIRMAN MORELOCK: No. This is a
18. new --
19. MR. TOTH: It's brand new?
20. CHAIRMAN MORELOCK: It's new.
21. THE REPORTER: What's his name?
22. MR. TOTH: Marty Toth.
23. MR. MUMMERT: No. This was a
24. renewal.
25. CHAIRMAN MORELOCK: This is a
1. from when I took this on, I found out you're
2. supposed to be doing them every three years. That
3. was way past expired.
4. CHAIRMAN MORELOCK: Okay.
5. MR. MUMMERT: That was another
6. reason I went with the new.
7. CHAIRMAN MORELOCK: Okay. And if
8. your variance has been -- it's not updated in a
9. long time, they usually come back as a new one.
10. MR. MUMMERT: Okay. Well, then,
11. that would have been correct. I just need to
12. clean that up and --
13. CHAIRMAN MORELOCK: Okay. So you
14. need to work with Sam on your existing variance.
15. As far as adding this new boiler, you've got some
16. work to do --
17. MR. HARGROVE: Two boilers.
18. CHAIRMAN MORELOCK: -- and come
19. back to the board with this proposed new variance,
20. or you can make it a modified, where you're going
21. to modify your existing variance. But what we
22. looked at today, we have not passed.
23. MR. CHAPMAN: This variance is no
24. longer good because he's got new boilers
25. altogether. There's no boiler --

1. CHAIRMAN MORELOCK: Oh, so both
2. boilers in this manual were not part of the
3. original variance.
4. MR. CHAPMAN: No.
5. MR. MUMMERT: That's correct.
6. CHAIRMAN MORELOCK: Okay. So this
7. would be a new variance, then. So this will be a
8. new variance. So until you get this approved,
9. you're on the 20-minute rule.
10. MR. MUMMERT: Okay. I will pass it
11. along. That's all I can do. I appreciate
12. everybody's time. Thank you so much.
13. CHAIRMAN MORELOCK: Okay. Thank
14. you.
15. MR. BAUGHMAN: And we appreciate
16. you, Derrick. Thank you.
17. MR. MUMMERT: I'll get it
18. straightened out. I may have to see you five more
19. times, but I'll get it straightened out.
20. MS. BENNETT: Chairman Morelock,
21. you may let him know, too, that the board minutes
22. will be online. So the comments that the board
23. made for revising your manual will be there.
24. MR. MUMMERT: Oh, great. That will
25. be good.

1. CHAIRMAN MORELOCK: Yes.
2. MS. BENNETT: It will be a couple
3. of weeks, but before the next meeting, that might
4. help you in revising your manual.
5. MR. MUMMERT: That will be great.
6. I appreciate it. I appreciate all the help I can
7. get.
8. CHAIRMAN MORELOCK: Okay. Thank
9. you.
11. about ten minutes for a break. I'm sure everybody
12. would like to have a short break. And let's
13. reconvene at 10:25, and we'll go to our next item.
14. (Recess observed.)
15. CHAIRMAN MORELOCK: Okay. We are
16. down to Item 17-05, Domtar Paper Company. And
17. they're requesting a variance for extension of
18. boiler internal inspection to 24 months at their
19. facility in Kingsport, Tennessee.
20. So gentlemen, introduce yourselves
21. and present your item.
22. MR. SNEED: Brandon Sneed. So this
23. request is to extend the already approved 18-month
24. extension that we came and received last year to a
25. 24-month extension.
1. in this.
2. But it may be helpful to go back to
3. the board meeting. We've got an Addenda 1 back in
4. Section 10 that describes the items that the board
5. asked for at time. And Addendum 1, there
6. were really four items that needed to be
7. addressed.
8. There were some -- this is --
9. Mr. Robinson asked about some photos in one of the
10. reports. That was a before picture that was
11. shown, and we stated that that punch list item had
12. been completed in that work. And --
13. CHAIRMAN MORELOCK: Can I interrupt
14. you for just one second?
15. MR. NEVILLE: Yes.
16. CHAIRMAN MORELOCK: Are there any
17. conflicts of interest?
18. (No verbal response.)
19. CHAIRMAN MORELOCK: Hearing none,
20. proceed on.
21. MR. NEVILLE: Thank you. And then
22. Item 2 was a -- the relief valve test reports
23. needed to be updated and properly filled out.
24. Those were shown in Addendum 1 as well. Then the
25. PSA inspection was the Number 3, and that was a

1. letter from them. The smelt bed inspection date,
2. there was a typo on that report. It should have
3. been 2019 for that updated report. And the final
4. item was Number 4, which was the updated training.
5. And it was -- the monthly reports didn't quite
6. give the breadth of training, the program that's
7. on here.
8. Now, we also -- so that was in this
9. addendum, but there was some supplemental data.
10. Everyone should have this in front of them now.
11. And that has some information we can go into as
12. far as the two thicknesses. But, also, there's
13. some training information. And this is the very
14. latest training logs, as well as the SOP training
15. logs, which is a sample that's for all of the
16. employees. And that's a -- the last two pages of
17. this supplemental gives the training exposure on
18. the employees for that.
19. MR. SNEED: And just to explain,
20. the regression charts that are in the smaller
21. binder, those are projected five years into the
22. future using PSA's trademark software that they
23. have. And that can take our data that they've
24. gathered for us since 2008 and project that as far
25. as they want to in the future. But just to be

1. conservative, we had them go through 2021 to show
2. what our two thicknesses would be in the specific
3. areas that we have tested since 2008.
4. And all that data shows that we are
5. well above the ASME minimum wall, even projecting
6. into five years.
7. MR. NEVILLE: And that corresponds
8. with information in Section 2 under Boiler
9. Inspections. And this is 2.208, which was the
10. projected two thickness values that we projected
11. out to 2018.
12. MR. SNEED: And that calculation
13. was made using a worse-case scenario of the lowest
14. reading that we'd actually gotten since 2002, when
15. the boiler was put into commission.
16. CHAIRMAN MORELOCK: Okay. So for
17. the board members' benefit, the only changes to
18. the manual since approval in September of 2016 is
19. what you have summarized on 10.1R, Renewal
20. Revisions, for this meeting today, correct?
21. MR. NEVILLE: Yes. Probably the
22. most significant one was the FM Global Report,
23. January of 2017. And that was included under
24. Section 2.
25. MR. SNEED: And one other thing,
And so there's an engineering some reason I should be looking? That's unusual for this period goes, proving that there's nothing that would cause anything to happen to the tubes. That's unusual for this boiler because this boiler, not like many of the boilers in other pulp and paper mills, doesn't have the smelly stuff, the sulfur in the fuel; and, therefore, the damage mechanisms or corrosion mechanism for the steel tubes is not really in place. So this criterion for floor examination is just saying, "Oh, when I get in, I can't see all the tubes. I can see the wall tubes and I can see -- but I can't see all the floor tubes along all of their length. Should I check underneath that every now and then to see whether there's some reason I should be looking?"

And so there's an engineering judgment criterion. More than anything, it would fall back to API580, 581. The risk-based inspection would say what is the damage mechanism. Maybe one or two mils per year. I've got 80 mils of corrosion allowance. Gee, that scheme would tell me I only need to do this every 20 or 30 years. I'll probably do it a lot more often than that just because I can, but it's awfully painful to do it because I've got to remove this glassy material from the floor. So these are the two balancing things.

So every four or five years would be a good industry practice for boiler floor checking where there are materials that take extra effort to remove, and, also, where the risk of removing brings a little bit of danger to the tubes. Some mills use guys with pneumatic drills. Some guys try hydroblasting. It's hard to remove the stuff. And you can do harm by doing it, so you tend to hold back for that reason and also not gallop into it because you know the damage mechanism is nonexistent. So it's really super conservative to even accept that recommendation.

MR. HARGROVE: Just a general question. Certainly there is risk factor from the cooling system. The risk of corrosion is the risk of failure, and the risk of failure is the risk of what?

MR. BENNETT: This is a big box with a floor and a slight slope. And after the unit is taken out of service for inspection, there may be a residue of smelt, what was molten salt, and now it's solidified on the floor. And there's a question of how many of these floor tubes, of which there are roughly a hundred and something, should we inspect. And the question, something goes to the owner's concern about is there a mechanism for the floor tubes to be affected in any way by operating conditions.

This boiler has now operated for 16 years, and nowhere in the boiler floor or walls have we seen any damage mechanism thin the tubes.

So the need to judiciously and cautiously watch and, therefore, the damage mechanisms or corrosion goes to the owner's concern about is there a mechanism for floor examination is contingent on the last -- Number 6, the Conclusion and Recommendation, stated that consideration should be given to removing the smelt bed and the center crotch refractory by -- or doing inspection by the owner's chief inspector of the State of Tennessee?

MR. BAUGHMAN: Motion made.

MR. PISCHKE: Second.

CHAIRMAN MORELOCK: All right. So what questions or comments do you have based on this information?

MR. HARGROVE: I have three questions. On page 11.11, in the initial binder, the last -- Number 6, the Conclusion and Recommendation, stated that consideration should be given to removing the smelt bed and the center crotch refractory by -- or doing inspection by the owner's chief inspector of the State of Tennessee?

MR. PISCHKE: Second.

CHAIRMAN MORELOCK: All right. So what questions or comments do you have based on this information?
1. Mr. Hargrove: So from a statistical measurement, you're saying or concluding that the risk is the same.
2. Mr. Sneed: I agree, yes. Yes.
3. And based on two thickness projections, which is the main thing that we look at, as far as the NDT that we do on the inside during an internal inspection, and as you can see from the small black book, even going out five years -- say if we went five years without an internal inspection, based on previous data, that we can conclude that the tube thickness loss would be minimal and not exceeding the corrosion rates that we've even seen that are minimum themselves.
4. Chairman Morelock: So the PSA report, to do that projection, how many years of actual data, thickness data, was used to develop that projection? Was it since the last inspection or did it go beyond that?
5. Mr. Sneed: It went back all the way to 2008.
6. Ms. Bennett: They started doing their type of inspection in '08.
7. Chairman Morelock: Okay.

1. Mr. Sneed: Yes.
2. Mr. Bennett: And that's the data they used for that projection.
3. Mr. Hargrove: I've looked at a couple of research papers on predicting that thickness. It will be really interesting to see, between 2008 and, you know, over that period, how your model is accurate in terms of making that judgment. I still want to make sure that we're documenting your statement that the risk involved to going 24 months is the same as it is at 18.
4. I'm not sure I'm convinced of that. But I want to make sure that that's the statement that you're making.
5. Mr. Sneed: Based on UG thickness readings that we have, I would say yes.
6. Mr. Hargrove: Okay. One last question. For the realtime on-line monitoring system that you have described as "Park view" -- is that correct?
7. Mr. Sneed: That's correct, yes.
8. Mr. Hargrove: -- what specifically -- any cyber security methods that you deploy within the control system to avoid or minimize vulnerability?

1. Mr. Sneed: So the only people who can access the control scheme of the unit or of the whole mill itself are the process control engineers that work for that specific area. It's under, essentially, a lock and key to even change the program. And they're the only ones who have access to those controls. And it's very firewall protected. And that's been proven in the past. I know that for a fact.
2. Mr. Hargrove: And just for clarity, identify the "they" again for me.
3. Mr. Sneed: There's a process control engineer for each area of the mill.
4. There's one specifically for the utilities department which would be responsible for the recovery boiler. There's one for the fiber line and there's one for the paper machine.
5. Mr. Bennett: And they're not on the web. They're not web linked.
6. Mr. Hargrove: All right. Thank you.
7. Mr. Baughman: Gentlemen, the whole issue here is that if we make a bad determination, this boiler has got more volatility to it than your typical fire tube/water tube kind of installation. So if we have a failure, we're all going to be accountable in some form or fashion, not only with the variance but with the results of what happens. And we know that we're talking about this from a maintenance longevity standpoint. We're approaching that. But when it gets down to it, it's really economics, is what's generating this forwards. And so I don't want that to ever blind us to the fact of why we're here. And that's safety.
8. Mr. Sneed: Hundred percent.
9. Mr. Baughman: Okay. With that said and done, during the 2014 outage on page 2.27 where the cracks were propagating towards the generating tubes, those were to be drill-stopped. We talked about that during previous -- but those cracks came about during that period of operational time. My concern with it is, is that if we go and extend out 24 months, that that might be something that gets past us. Of course it gets into the point, then, of if you've got a leak, the variance ends at that particular point in time and you get back to a status quo. But my concern with it is, is that 24 months is an extremely long period of time.
1. Tube thickness is one thing. And in the report, there's been addressing of Tube Number 72
2. thinning, gouge marks, different types of entities that have come about, and some of that is because of the removal of the smelt bed and so forth. But my concern with it is, is that we might have an issue that's not even tube thickness related but it's crack related, i.e., on page 2.27, that could possibly affect, go across and propagate across the weld itself, and affect the tube. What's your thoughts on that?

MR. BENNETT: We have consciously taken note of every possible damage mechanism, including fatigue cracks, thermal fatigue cracks as described here. And the first thing about fatigue, anyway, is that it's unpredictable. We could inspect every day and give it a clean bill of health and still have a fatigue crack the next day. So that's an important understanding. But that's the point of these inspections when they do take place. And another six months of operation, in our judgment, doesn't compromise the tube integrity, because these kinds of thermal fatigue cracks in fill plates and membrane bars and things are very common and are very ordinary and almost never -- I've never, in my 42 years, seen one go across a weld and into a tube, because the stress patterns in the tube is totally different from the stress pattern producing the crack in the fill bar, which is just a steel piece of metal welded on so that the air doesn't go anywhere. So we're very conscious of that.

When we do go in and do inspections internally, all of the intention is visually for any crack indications. None of that would show up at all, obviously, with thickness testing. So it's a high priority for the mill. If -- just, for example, if this particular crack had somehow made it into the tube, all that would have happened is there would have been a leak, and the leak would have been detected, and the boiler would have been promptly shut down. That's the standard protocol. So you can't blow up a boiler from a little crack like this or a little leak like this. You have to have quite a big in-rush of water into the bottom of the furnace to produce anything exciting. Other than that, it's just like any power boiler with a leak, and you manage it exactly like that, except for that risk on that lower furnace explosion means that we don't mess around. We hit a button. The boiler is turned off, drained, and emergency procedures are very well documented and trained. So there's no -- in my judgment, there's no possibility that something like this anywhere in the boiler, even down in the lower furnace, could produce an incident that we would care to read about any day in the news. It wouldn't be that exciting. It would just be a leak.

And that's happened on many boilers.

We actually maintain -- we tell the rule that if you're looking for cracks and it's fatigue on a tube, then grind it out and remove it. If you've got to go too thin to do that, fix the tube after you've ground it out. But we just don't accept them and we are very conscious of that risk. And there isn't any increased risk here from running the boiler six more months, because it's nice and smooth. There's not any big cycling. The more times we take it down and start it up, the more times we increase the chances of those fatigue cracks doing something bad.

MR. HARGROVE: Have they already been drill stopped?

MR. BENNETT: I don't know if these
1. trying to clarify in my own mind, Brian, is if 
2. there's a leak, not necessarily at the time of 
3. that six-month inspection, but if they've had to 
4. tend to a leak during the period of operation, 
5. does that affect the variance? 
6. CHAIRMAN MORELOCK: Well, you know, 
7. by the law, if you're going to take the law, if 
8. they have a leak in between that, then when the 
9. six-month external inspection comes up, they're 
10. going to find the leak, right, unless they've shut 
11. the boiler down? 
12. MR. BAUGHMAN: Right. So if they 
13. have to shut -- 
14. CHAIRMAN MORELOCK: Now, they can 
15. shut their boiler down any time they want to. 
16. Just because it's a 24-month internal, they can do 
17. an internal annually if you want to. It's just 
18. you can't exceed 24 months. So if they find the 
19. leak themselves and shut the boiler down, do an 
20. internal, fix it, that would not damage their 
21. variance. 
22. MR. BAUGHMAN: Okay. And that's 
23. what I was wanting to get set in my mind. 
24. CHAIRMAN MORELOCK: Because that 
25. doesn't show negligence. That shows they're doing

1. and everybody was fine. So we are very conscious 
2. of this in the industry, of maintaining very 
3. careful control over tiny leaks. 
4. MR. BAUGHMAN: Very good. If we 
5. have a leak -- just so that I'm aware of this 
6. variance, if we do have a leak and the boiler has 
7. to be shut down to be repaired, how does that 
8. affect this variance that we're talking about? 
9. CHAIRMAN MORELOCK: Well, if any of 
10. the six-month external inspections show a leak, 
11. you shut the boiler down immediately and you lose 
12. the variance. 
13. MR. BAUGHMAN: If they have a leak 
14. before that external inspection, though, or during 
15. the period of operational time, how does that 
16. affect it? 
17. CHAIRMAN MORELOCK: Well, whatever 
18. mechanism you do use to find the leak is -- I mean, 
19. that's -- that's what's in 68-122-110(f), is that, 
20. you know, you'll have an external every six 
21. months, and if you have any leakage during those 
22. inspections, you shut the boiler down and you do a 
23. complete internal inspection and the variance is 
24. rescinded and will have to be reapplied for. 
25. MR. BAUGHMAN: I guess what I'm
MR. BAUGHMAN: Yes, sir.

MR. SNEED: Yes.

MR. BAUGHMAN: Yes, it was.

MR. BENNETT: So the dissolving tank is obviously just a nonpressurized tank next to the boiler into which the smelt comes and mixes with water. So basically the point of the dissolving tank is not to dissolve the tank, but to dissolve the molten smelt into the water. And so when you bring this ribbon of molten -- think of molten glass, because it's red hot salt at 1400 degrees Fahrenheit, it comes into the water and makes a ferocious, boiling noise (indicating), and sometimes the flow of smelt into the tank isn't completely, ordinarily flowing because they have a little pluggage or something like that, and a big rush comes and boom, you get a big burst in the dissolving tank.

They're supposed to be constructed to take that internal hydraulic pulsing, but sometimes it overwhelms them if it's just poorly managed. That would not have any risk effect on the boiler itself. That's a separate component that's separated by an air gap probably that big (indicating) from the boiler itself. So I'm not aware of cases where the dissolving tank blew up and had consequential damage on the boiler either. But maybe you have --

MR. SNEED: So there was a report that had to be filed by, at that time, his name was Chuck Hawkins, who has since retired. But -- I've seen that report but I can't tell you word for word, but there were things put in place to mitigate those from happening in the future. We had to provide that in the documentation that we sent to corporate. So that did happen, but I can't tell you for sure what those things to mitigate it was.

MR. BAUGHMAN: And that just leaves a question in my mind because it did cause damage --

MR. SNEED: It did.

MR. BAUGHMAN: -- and you're not aware of it.

MR. BENNETT: To the tank or to the boiler?

MR. BAUGHMAN: To the boiler.

MR. SNEED: To the smelt spouts.

MR. BAUGHMAN: To the smelt spouts, yes.

MR. BENNETT: To the spouts. That's not the boiler either.

MR. SANDERS: Well, it was attached to the -- when it damaged --

MR. BAUGHMAN: But obviously, you're not aware of the incident yourself, and it happened prior to you guys being there, so it's kind of a tough position to put you in to have any discussion with it. My end of it is, is just making sure that any mechanisms have been put in place to try to mitigate any of this going forward. And that was really my concern with it.

MR. SNEED: I understand.

MR. PISCHKE: (Indicating.)

CHAIRMAN MORELOCK: Yes?

MR. PISCHKE: I wanted to get back to the crack propagation. I understand that, as a rule, the cracks on a nonpressure part, attachment, would not normally propagate into the weld and into the pressure retaining part. My question is more about the attachments themselves. And if you have an attachment that fails and the tubes start moving around in that boiler, would your system be able to detect this? Because I've seen that as a form of -- a failure mode, where the tubes are moving and they're rubbing against each other and they can cause leakage. Would your system detect -- in addition to leaks, would it detect any kind of noise and rattling in the boiler like that?

MR. SNEED: So on a daily basis, each crew leader -- there's three crew leaders per day -- they are required to do a full walk-down from top to bottom of the unit. And things they look for are sounds that they didn't hear the day before. And so really the only thing I can think of, that would be the only mechanism that we would have in place to detect something like that. And they completely turn off the blower units to listen for any type of different sounds than they'd heard. And, again, that's done three times a day, and that's something they're required to do. So that could be the only mechanism that I can think of that would catch that.

MR. HARGROVE: Just for clarity, I think, Mr. Chairman, you asked each individual to identify themselves and their roles, so I would like to reiterate that and ask each of you to identify your name and, specifically, what is your role and responsibility.
MR. BAUGHMAN: Under training, Utilities Department Training Summary, 11.14 -- and this is not on the -- this is not the addendum, so this may not -- since you've got the addendum here, this may not hold forth. So the addendum on 8.32 is the update to 11.14? MR. SNEED: That is correct. MR. BAUGHMAN: Good. Yeah, because I was just going through and looking at the waivers or DQs and the number of waivers or DQs that were itemized previously versus what's on there presently. And so that's pretty good. What I'm looking at as I'm going through this, though, is -- explain to me kind of what I'm looking at on this training grid. As I look at crew leaders, I'm looking at training. And so explain to me -- what I'm looking at from A, B, C, and D, through -- David down through Gary. MR. SANDERS: Yeah, the date you see on the table is the date they were originally qualified for that position. MR. BAUGHMAN: The date on the left-hand side or the far right? I guess it would be the far right.

MR. SANDERS: Oh, the far right on the department seniority and plant seniority? MR. WHITE: No. He's in the big -- are you in the small binder we handed out? MR. BAUGHMAN: Yes, sir. I'm on the small binder. So let's just say where it says David Kilgore, crew leader, 11/30/2012. And then it says 1st Assistant, 5/3/99. Is that when he first --

MR. SNEED: That's when he qualified for that position. MR. BAUGHMAN: -- qualified for that position? MR. SANDERS: So he qualified for the 1st Assistant on 5/3/99, and then he qualified for crew leader on 11/30/2012. MR. BAUGHMAN: Okay. So what I'm looking at is, going through there, these folks, as they've come through, some of them go back -- Gary Kinsler came on in 1999. What's the updated training that gets to be involved in here? Because I'm interested to know the further training that these folks are encountering.

MR. SANDERS: So every three years they go back through a recertification process.

MR. SNEED: I thought that's where you were going. MR. BAUGHMAN: Very interested to know the further questions or comments? MR. SNEED: Any other questions or comments? MR. SANDERS: Yes.

CHAIRMAN MORELOCK: Any other questions or comments?

MR. BAUGHMAN: Yes.

CHAIRMAN MORELOCK: Go right ahead.
1. MR. BAUGHMAN: Thank you.
2. MR. SNEED: Even though we believe
3. in printing a lot of paper.
4. CHAIRMAN MORELOCK: Okay. I've got
5. a quick question on page 2.89R, which is part of
6. the FM Global Risk Report under Tab 2. It says in
7. the second paragraph that "The mill is in the
8. midst of a recovery boiler steaming rate
9. increase." And so you are showing in the
10. addendum, going from 545 to 565, the FM Global
11. Report states the steaming rate will be increased
12. from 580 to 560.
13. MR. SNEED: I can explain that.
14. CHAIRMAN MORELOCK: Okay.
15. MR. SNEED: So earlier this year,
16. we had Andritz, who did our previous circulation
17. study on the boiler, continue their study. And
18. what we asked them to do was look at the boiler
19. from a circulation standpoint and tell us what the
20. achievable steaming rate would be without any
21. capital upgrades.
22. CHAIRMAN MORELOCK: Okay.
23. MR. SNEED: So they came back to us
24. and said that 600,000 pounds per hour would be our
25. max steaming rate that the boiler would be qualified to run at. Essentially that's
2. circulation and steam valve relief capacity, which
3. we are above 600,000.
4. The 580 that's in the FM Global
5. Report is a typo. It technically doesn't even
6. need to be there. It needs to just say the 600,
7. from 545 to 600. And I do see the confusion
8. there. It makes sense.
9. CHAIRMAN MORELOCK: Okay.
10. MR. SNEED: But we've actually
11. limited that down. We don't run anywhere near 600
12. because we don't have the air capacity. There's
13. more airports that would need to be put in to run
14. that at a continuous rate, and we did not want to
15. invest capital money at the time.
16. CHAIRMAN MORELOCK: Okay. Down
17. there at the bottom of the same page, it states
18. that your paper machine, you're going to have it
19. down May of 2017 to replace some bolts. What
20. status will the recovery boiler be in during that
21. paper machine shutdown?
22. MR. SNEED: Well, the plan,
23. best-case scenario, would be to keep it hot,
24. because we don't want to thermally take it from
25. hot to cold. So that is the plan.

1. CHAIRMAN MORELOCK: Okay. All
2. right. Any other questions or comments?
3. MR. SNEED: And, too, to say, if we
4. do have to take it down cold, we would still like
5. to have the economical impact of not having to do
6. the internal inspection.
7. CHAIRMAN MORELOCK: To open it up?
8. Okay.
9. MR. SNEED: Because if we went with
10. the 18-month inspection and went down in October,
11. then it would still be a full-mill shutdown with
12. being a one-line mill. And corporate has changed
13. our outage to May, so we can't just go down to May
14. and October.
15. CHAIRMAN MORELOCK: Any other
16. comments?
17. MR. BENNETT: If I may, just a
18. little context. Industry-wide, this move to go
19. from one-year to two-year outages on these units
20. is fully under way. Many boilers in the industry
21. of the craft, the more dangerous versions are
22. already on two-year main outage cycles. This is
23. really more of a bureaucratic challenge for us to
24. get the permits and everything properly organized.
25. There hasn't been any perceived risk industry-wide
1. But if there were no issues found, then you were able to go to the two or three years.
2. MR. BAUGHMAN: And what schedule are we in right now with it?
3. MR. SNEED: Well, we inspected it in 2016 and had no findings. So at least two years. But we could possibly go three.
4. CHAIRMAN MORELOCK: But now your VA is an unfired pressure vessel, right?
5. MR. SNEED: I'm not sure what you're --
6. MR. BENNETT: Yes.
7. MR. SNEED: It's unfired, yeah. It's not --
8. CHAIRMAN MORELOCK: So, by law, it would be a two-year internal, by the State of Tennessee.
9. MR. SNEED: So we've done it in the past, a once-a-year internal --
10. CHAIRMAN MORELOCK: Okay.
11. MR. SNEED: -- with UT and MT inside. Not as frequent, but we have done an internal, taking the heads off every year.
13. MR. BAUGHMAN: So we have no -- in other words, what we've clarified there is it can't go three years. It's got to be --
14. CHAIRMAN MORELOCK: Not without an RBI program like you've seen Valero and Wacker present.
15. MR. BENNETT: And we do that on a -- any -- we are constrained by the state rule.
16. We would -- RBI would say --
17. CHAIRMAN MORELOCK: Okay.
18. MR. SNEED: -- with UT and MT.
19. CHAIRMAN MORELOCK: So, by law, it would be a two-year internal, by the State of Tennessee.
20. MR. SNEED: So we've done it in the past, a once-a-year internal --
21. CHAIRMAN MORELOCK: Okay.
22. MR. SNEED: -- with UT and MT inside. Not as frequent, but we have done an internal, taking the heads off every year.
24. MR. BAUGHMAN: So we have no --
25. CHAIRMAN MORELOCK: Abstentions?
1. CHAIRMAN MORELOCK: Not voting?
2. (No verbal response.)
3. CHAIRMAN MORELOCK: You have a two-year extension for internal inspection based upon addressing any comments with the board and a successful site visit by the boiler unit of the State of Tennessee.
4. CHAIRMAN MORELOCK: Anything else?
5. (No verbal response.)
6. CHAIRMAN MORELOCK: Hearing none,
7. I'm going to call the question. All in favor say "aye."
8. "aye."
9. (Affirmative response.)
10. CHAIRMAN MORELOCK: Opposed?
11. (No verbal response.)
12. CHAIRMAN MORELOCK: Thank you, gentlemen.
13. MR. SNEED: Thank you. Is there any follow-up comments? I know we had some last time, but is there any one that we need to address, as far as the manual goes, that we need to get answers to you on? I didn't recall writing any down, so ...
1. CHAIRMAN MORELOCK: Thank you.
2. Okay. So that concludes our action
3. items, new business. That takes us to Item 8,
4. which is Open Discussion Items. And our first
5. item is "Job description for Boiler Inspector 4,"
6. which would be the chief inspector.
7. At the last meeting, the board was
8. provided a job description, and I think we made
9. some recommendations where it said to correct the
10. name of the National Board of Boiler and Pressure
11. Vessel Inspector. That's what comes to mind. And
12. I think you-all were going to make some
13. corrections to that, and that's about it, right?
14. MS. JEFFERSON: Yes. Did you see a
15. copy of the new --
16. CHAIRMAN MORELOCK: I have not seen
17. a copy of the new ones.
18. MS. BENNETT: It's in your book,
19. your notebook.
20. CHAIRMAN MORELOCK: Okay.
21. MS. JEFFERSON: Chairman, you'll
22. see at the very top -- unit board members, you'll
23. see at the very top it says Class Title Boiler
24. Inspector 4, because that's the actual class
25. title. Our working title is Chief Boiler

1. Inspector.
2. CHAIRMAN MORELOCK: Okay.
3. MS. JEFFERSON: Under "Minimum
4. qualifications," you'll see where that has been
5. revised from ten years to five years. After
6. surveying other states and talking with other
7. chief boiler inspectors, we found that five years
8. was more reasonable based on all the other states'
9. information.
10. And you'll see under "Other
11. requirements" that the applicant must possess a
12. valid commission issued by the Board of Boiler and
13. Pressure Vessel Inspectors.
14. CHAIRMAN MORELOCK: Are there any
15. questions from the board? This is an internal
16. policy to the Department of Labor and Workforce
17. Development, so there's no voted action for this.
18. But we can provide comments.
19. MS. JEFFERSON: And just to give
20. you-all a little bit of just feedback, I guess, as
21. to why that was changed. I think we talked about
22. it before. But originally, there was a ten-year
23. requirement in the law. We found it very
difficult to find and to hire -- recommend someone
with ten years' experience. We interviewed lots

1. over an 18-month period. But if they had the
2. qualifications, then they weren't satisfied with
3. the salary, because, of course, the state
4. government salary is a lot more in the private
5. sector. So we ran into complications trying to
6. fill the position.
7. So that we wouldn't be bound by state
8. law, it was recommended that we change that and
9. remove that from state law and handle it
10. internally.
11. CHAIRMAN MORELOCK: Okay.
12. MR. HARGROVE: Based on the
13. applicants that we did have, was there a
14. significant number that would meet this new
15. requirement, meaning less than five years or
16. five years -- five to ten, I guess?
17. MS. JEFFERSON: Well, actually,
18. five years is what it requires now. That's the
19. minimum now. And I think we would be better off,
20. yes. I think we would be in a better position.
21. Of course Sam is our chief, and so we hope to have
22. him for a while and we don't have to worry about
23. that.
24. MR. BAUGHMAN: I may be missing it
25. in here, reviewing this, Kim, but is there a test
1. you have recommendations, please let us know who
2. they are so we can get those to the State and get
3. those to the governor. We have to have three.
4. MR. PISCHKE: Is there a deadline?
5. MS. JEFFERSON: Yes. We're hoping
6. to get that done by March, the end of March.
7. MR. PISCHKE: Okay.
8. MS. JEFFERSON: And what we've
9. done, as far as the insurance representatives, we
10. had three and we received one additional last
11. week, so we have a total of four. Of those, only
12. two were Tennessee residents. So we've been asked
13. to actually obtain one more. I think we need one
14. more so that we can submit three Tennessee
15. residents to the governor's office. That's for
16. the insurance representative's position.
17. As far as the international
18. boilermaker representative, I've asked Sam to take
19. a look at the information that we received within
20. the department that we received during the time of
21. the -- during the interview process. We received
22. a list of applicants, and some were a part of
23. boilermaker -- the boilermaker industry. And so
24. he's going to take a look at that to determine if
25. we can receive three applications and resumes

1. based on that information. But, of course, if
2. you-all know someone, then we would ask you-all to
3. submit that information to Carlene so it can be
4. submitted.
5. CHAIRMAN MORELOCK: Okay. So
6. there's where we're at with that, so if you have
7. any names, let us know.
8. MR. BAUGHMAN: Let me ask you, just
9. so I have a clarification, because I don't know.
10. I'll ask if I don't know. What is a qualification
11. of an international boilermaker representative?
12. That's labor union? A union -- just the
13. clarification on the definition of who it is we
14. can recommend.
15. MS. JEFFERSON: Dan's looking at
16. the law.
17. CHAIRMAN MORELOCK: Well, I mean,
18. historically, that's what it's been.
19. MR. BAILEY: It says one shall be a
20. representative of the boilermakers or practical
21. steam operating engineers.
22. CHAIRMAN MORELOCK: It's
23. representing labor -- organized labor involved
24. with pressure equipment. Would that be a fair
25. statement?

1. and then they are accepted by the governor's
2. office. So if that helps you in any way.
3. CHAIRMAN MORELOCK: Okay.
4. MR. BAUGHMAN: But it can extend
5. past the boilermakers union to the pipe fitters
6. and so forth.
7. MR. TOTH: Absolutely. As what was
8. read from the statute. And just -- historically
9. it's been boilermakers, but it didn't need to be,
10. necessarily. It just had to be within the
11. environment.
12. MR. BAUGHMAN: Great. Well, that
13. expands it a little bit.
15. MR. BAUGHMAN: Thanks, Marty.
16. CHAIRMAN MORELOCK: Any other
17. questions or comments?
18. (No verbal response.)
19. CHAIRMAN MORELOCK: Okay. We need
20. those by the end of March.
21. Okay. Our next discussion item is
22. Rennai. And the only information I have is
23. concerning the three-foot clearance and -- I don't
24. know if that's the board's interpretation from
25. 2007 that discusses the one and a half foot for
1. certain devices with 400,000 BTUs or less. So who
2. is here to speak about that?
3. (No verbal response.)
4. CHAIRMAN MORELOCK: Nobody?
5. (No verbal response.)
6. CHAIRMAN MORELOCK: All right.
7. We'll put it on the table and bring it back in
8. June.
9. All right. Moving along.
10. MR. TOTH: Mr. Chairman?
11. CHAIRMAN MORELOCK: Yes.
12. MR. TOTH: I might add, just the
discussion that we had in recess, I just wanted to
make sure it's noted that the past board cases and
interpretations are not currently presiding on the
State's website, and I think it's critical that
those be put back on as soon as possible.
13. CHAIRMAN MORELOCK: And just so you
know, the boiler unit has done a great job of --
up until last week, the interpretations went up
through 2007. So we had a deficit between 2007
and today. And they've done a good job of
catching that up. But then, when it was put up,
the old document was removed and both of them
should have stayed so you would have the whole
picture.
14. And so they'll work to get that
15. rectified, may clean up the new ones a little bit,
because it was just a list. So that's ongoing and
we'll get that straightened out.
16. MR. TOTH: Thank you.
17. CHAIRMAN MORELOCK: But I do want
to thank the boiler unit for getting that done.
18. That was a little bit of work and we appreciate
their efforts to get that done, so very good.
19. I do want to thank Mr. Bailey for the
next item. We had a typo when we issued the
revised Tennessee Rule 800-3-3. In the
calculation for existing pressure vessels, it
referenced PG-27, which is actually a Section 1
reference. It should have been UG-27. Mr. Bailey
was successful in getting that typo actually
corrected. So it's completed. He sent us letters
stating that that's been done, so we can take that
off the list. So that's the good job.
20. Thank you, Mr. Bailey, for that.
21. MR. BAILEY: Thank you.
22. CHAIRMAN MORELOCK: The next item
23. on the list is we had looked at a proposed
24. revision to Tennessee Code Annotated 68-122-109(a)
25. due to changes in how the National Board of
26. Commissioning Exam is given. And we discussed
this at the last meeting, and Mr. Toth made a
great suggestion, that -- if you look in our
recently revised rules, this is already addressed.
And so he suggested, since the legislative process
is a little onerous to get through, the board can
submit an interpretation or hear an interpretation
related to Rule 800-3-3. So what I have here is
that. And so I'm going to pass this around.
And we don't have to take action on
this today because this is a discussion item, but
I'll just briefly talk about it because our time
is getting short. But basically, what is in
800-3-3.06 for inspector qualifications, and
specifically paragraph 3, the examination for
certificate of competency, it now states that
unless other arrangements are made, the
examination for inspectors certificate of
competency shall be held in conjunction with a
quarterly meeting of the board at such locations
as it designates -- it gives a reference to
NB411 -- or at an Applied Measurements
Professional, AMP, location or during the last day
of the National Board In-service Commission
1. make sure that we do due diligence on this, and
2. it's certainly not going to happen in a short
3. period of time.
4. We're at least now getting the ball
5. rolling to have these discussions, and one of the
6. things that's coming about is the realization that
7. this can have such an impact and be one of the
8. most important things that we do to affect public
9. safety that the public will never know about. And
10. that's a pretty awesome thing to be involved with.
11. But to think that my wonderful
12. 89-year-old mom, who still drives, which is of a
13. concern, can operate a boiler if so qualified by
14. the owner. And that's a scary proposition. So
15. being that we're now even within the point of
16. having discussion on this is pretty exciting in my
17. mind.
18. But Jesse, for one, started off with
19. an apology because of things of nature and life
20. that didn't allow this to move as quickly as he
21. would like. And no apologies necessary, that this
22. will all come about in the time that it's supposed
23. to. But know that we are investigating the other
24. states first so that we get a good overview of
25. what else is out there in the industry. And that

1. we still do not have a charter or a scope for this
2. committee.
3. So Mr. Baughman?
4. MR. BAUGHMAN: Yeah. The update on
5. this is that it's a very slow work in progress,
6. being that Mr. Smith, Jesse Smith, deputy boiler
7. inspector, has been spearheading this, getting it
8. together. And along with work and life, this
9. moves along at a slow pace. But Jesse has
10. done is he's looked into other states that have
11. boiler operator requirements or training
12. requirements. Not so much just, even,
13. certification, but any state that has a
14. requirement for training and/or certification.
15. And then he's asking for input, especially from
16. the boots-on-the-ground people, other inspectors
17. within the state, others within the industry, and
18. then expanding upon that so that we've got
19. information to bring back and start analyzing and
20. having discussion on it. We want to have this as
21. a continuing open discussion. But it takes
22. multiple people to bring these ideas to the table,
23. to bring -- to be able to form this in a manner
24. that can then be brought before the State and
25. proposed in whatever form or fashion. We want to
1. MR. TOTH: Marty Toth.
2. One of the things -- I think this is a wonderful idea. This is something that we looked at a number of years back, as Brian alluded to, and Deborah was there, too. The biggest concern that you're going to have, and the support has got to come from above, is the blow-back that you're going to get from constituents of the legislature. That was one of the reasons why I had to pick between two. One was an installation permit, and the other was boiler operator. And I chose to fight this battle and earn the installation permits when approved. It was because of that very thing. And so getting that support is going to be critical, moving forward, to put something into place.

MR. BAUGHMAN: And I agree wholeheartedly, especially when you start looking at dollars and numbers. I mean, it makes sense, though, because we're here for public safety.

That's our main charge. And you've got to understand the economic equations of the impacts of what that -- how that comes into play. But if you present this in discussion to Representative Harper, any of the representatives, and let them know that with the training that they've got or with the abilities that they have, that they can operate a boiler, then it starts putting things in perspective and we can work through the money end of things.

And I think that with that input and with that understanding of what we're presenting, that we've got to be cognizant of what we're bringing to the table to make sure that -- it might not have all the meat and potatoes on the front end, but I think that what we're doing is laying the groundwork that we can build upon to keep it moving. But just having anything in place is going to be a step above where we're at.

MS. JEFFERSON: And, Chairman, if I might, at one of the other board meetings we mentioned that in order for the department to submit legislative recommendations and in order for you also to submit those recommendations for the next year, we have to have that information between May and June.

CHAIRMAN MORELOCK: Right.

MS. JEFFERSON: So I just wanted to remind you-all, because we're into March now, and we'll need to have that information, by the latest, the end of June so we can pass that on to our legislative liaison so the department can decide if that's something that they want to pursue.

5. MR. BAUGHMAN: And just off -- to extend upon that, I don't believe there's going to be anything being presented this go-around.

CHAIRMAN MORELOCK: So with that said, do you want me to go ahead and submit my marked-up copy of 68-122-109(a) that we're also going to chase as an interpretation as well?

6. MS. JEFFERSON: Yes.

7. CHAIRMAN MORELOCK: Okay. I'll make sure the board members have an opportunity to review that mark-up one more time, and we'll have that to you before June.

8. MS. JEFFERSON: Thank you.

9. CHAIRMAN MORELOCK: Okay.

10. MR. TOTH: Absol. And it's in the statute, so...

11. MR. TOTH: For a boiler operator?

12. It's in the statute, or is it in the rules and regulations?

13. MR. BAILEY: I believe it's in the statute.

14. MR. TOTH: And I'm sorry to put you on the spot, but that's just one thing you may want to look into, is --

15. MS. JEFFERSON: Yes. If it's pertaining to a current rule, then it will go through rules and regulations versus the statute?

16. MR. TOTH: Is there a reason why the boiler operator requirements couldn't go through?

17. MS. JEFFERSON: It depends on what the current law says.

18. MR. TOTH: Currently it's in the statute, so...

19. MR. TOTH: For a boiler operator?

20. It's in the statute, or is it in the rules and regulations?

21. MR. BAILEY: I believe it's in the statute.

22. MR. TOTH: And I'm sorry to put you on the spot, but that's just one thing you may want to look into, is --

23. MS. JEFFERSON: Yes. If it's pertaining to a current rule, then it will go through the rulemaking process. But if it's pertaining to a law, then it has to go through legislation.

24. MR. TOTH: Absolutely. And it's been a while since I've dove into 68-122, so that may be one avenue you want to look at.

25. CHAIRMAN MORELOCK: Well, I'm pretty certain there's no requirements for boiler operators in Rule 800-3-3.

26. MR. TOTH: I am too, but, you know, like I said, it's been a while.

27. CHAIRMAN MORELOCK: Because I just spent way too much time reorganizing that, so I'm
1. pretty sure it's not in there.
2. Okay. Moving on to Item 9, there are no board cases and interpretations.
3. And Item 10 is the next board meeting will be June 14th, 2017 right here at the Department of Labor and Workforce Development. And our last item is Item 11. And before we adjourn, I did want to say a big thank you to Cassandra and all those who take our minutes. And I especially appreciate the condensed version that you're sending out with -- basically, you have four pages on a page, so instead of having something that's 200 pages, this is manageable. So it's easy to read. I certainly encourage everybody to go out and look on this online. It captures all of my poor East Tennessee English and everything, so it's at least funny to read. But it's also got a lot of good information in it, so Cassandra, thank you. We really do appreciate you doing that.
4. THE REPORTER: Thank you.
5. CHAIRMAN MORELOCK: Anything else?
6. (No verbal response.)
7. CHAIRMAN MORELOCK: Hearing none, I'm going to call this meeting adjourned.

END OF THE PROCEEDINGS.

CERTIFICATE
STATE OF TENNESSEE
COUNTY OF WILLIAMSON
I, Cassandra M. Beiling, a Notary Public in the State of Tennessee, do hereby certify:
That the within is a true and accurate transcript of the proceedings taken before the Board and the Chief Inspector or the Chief Inspector's Designee, Tennessee Department of Labor & Workforce Development, Division of Workplace Regulations and Compliance, Boiler Unit, on the 15th day of March, 2017.
I further certify that I am not related to any of the parties to this action, by blood or marriage, and that I am in no way interested in the outcome of this matter.
IN WITNESS WHEREOF, I have hereunto set my hand this 15th day of April, 2017.

___________________________________
Cassandra M. Beiling, CCR, LCR# 371 Notary Public State at Large My commission expires: 3/15/2020