

1 STATE OF TENNESSEE
2 DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
3 BOARD OF BOILER RULES

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8 QUARTERLY MEETING OF THE
9 STATE OF TENNESSEE
10 BOARD OF BOILER RULES

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18 March 13, 2019

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22 CASSANDRA M. BEILING, LCR# 371
23 STONE & GEORGE COURT REPORTING
24 2020 Fieldstone Parkway
25 Suite 900 - PMB 234
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Page 2

1 APPEARANCES:

2 Brian Morelock, Chairman
Owner-User Representative

3

4 David W. Baughman
Owner/User Representative

5 Allied Boiler & Supply, Inc.
4006 River Lane

6 Milton, Tennessee 37118

7

8 Harold F. Bowers
Insurance Representative
Centerville, Tennessee

9

10 Terry Fox
Boilermaker Representative
Chattanooga, Tennessee

11

12 Dr. S. Keith Hargrove
Mechanical Engineer Representative
Goodlettsville, Tennessee

13

14 Sam Chapman, Chief Boiler Inspector

15

16 Chris O'Guin, Boiler Inspector

17

18 Daniel Bailey, Esq.
Legal Counsel, State of Tennessee

19

20 Lynn Kirby
Board Secretary, State of Tennessee

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22 Ebony Paige
Assistant Board Secretary

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Page 4

1 New Business Continued:

2 *19-04 West Tennessee Healthcare-Dyersburg

3 *19-05 PolyOne Corporation (POC)

4 *19-06 West Tennessee Healthcare-North
Hospital

5 *19-07 TriStar Centennial Medical Center

6 *19-08 Parkwest Medical Center

7

8 IX. Open Discussion Items

9 *Deborah Rhone reports on inspection number
at Wacker Polysilicon

10

11 *Doris Barnett reports on Boiler Computer
System and Jurisdiction Online

12 X. Announcement of Next Meeting

13 Unless the Board decides otherwise, the
next regularly scheduled meeting of the
Board of Boiler Rules will be held at
9:00 a.m. (CDT) on Wednesday, June 12,
2019, at the Tennessee Department of
Labor & Workforce Development building
located at 220 French Landing Drive,
Nashville, Tennessee.

14 XII. Adjournment.

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24 ** Reporter's Note: All names are spelled
phonetically unless otherwise provided to the
Reporter by the parties.

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Page 3

I N D E X

1 PAGE

2 18-08 East Tennessee State University 7

3

4 18-14 Energy Conversion & Safety (ECS) 40

5

6 19-01 University of Tennessee Medical 68

7 Center-Knoxville

8 19-02 University of Tennessee Medical 83

9 Center-Memphis

10

11 19-03 Leclerc Foods USA 103

12

13 19-04 West Tennessee Healthcare-Dyersburg 115

14

15 19-05 PolyOne Corporation (POC) 124

16

17 19-06 West Tennessee Healthcare-North Hospital 129

18

19 19-07 TriStar Centennial Medical Center 134

20

21 19-08 Parkwest Medical Center 145

22

A G E N D A

23 I. Call Meeting to Order

24 II. Introductions and Announcements

25 III. Adoption of the Agenda

IV. Approval of the December 12, 2018 Meeting
Minutes

V. Chief Boiler Inspector's Report

VI. Variance Report

VII. Old Business

*18-08 East Tennessee State University

*18-14 Energy Conversion & Safety (ECS)

VIII. New Business

*19-01 University of Tennessee Medical
Center-Knoxville

*19-02 University of Tennessee Medical
Center-Memphis

*19-03 Leclerc Foods USA

Page 5

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2 CHAIRMAN MORELOCK: Good morning,

3 everybody. I would like to welcome each and every

4 one of you to the March Tennessee Board of Boiler

5 Rules meeting. And if you don't have an agenda,

6 they're on the back table back there, so feel free

7 to get one if you need one. And so I would like

8 to call this meeting to order.

9

10 And as far as introductions and

11 announcements go, the safety item that we always

12 like to cover is in the event of an emergency or

13 natural disaster, security personnel will help

14 take attendees to a safe place in the building or

15 direct them to exit the building on the Rosa Parks

16 side. So just to make you aware of that if we

17 have that need.

18

19 I would also like to remind

20 everybody, as a courtesy to the presenters and to

21 the discussion, please silence your cell phones

22 and to respect those that are making presentations

23 and discussing these items.

24

25 The board members will be completing

their conflict of interest forms today, so make
sure you get those to Lynn.

Is there any other announcements that

<p style="text-align: right;">Page 6</p> <p>1 anybody would have?</p> <p>2 MR. BAILEY: Mr. Chairman, just as</p> <p>3 a reminder to everybody, as the meeting gets</p> <p>4 going, sometimes we forget this is being</p> <p>5 transcribed. We like to have a clean record, so</p> <p>6 please try not to talk over each other. If you</p> <p>7 speak from the audience, tell us your name before</p> <p>8 you speak. Let the other speaker finish before</p> <p>9 you answer a question so that the transcript is</p> <p>10 clean.</p> <p>11 CHAIRMAN MORELOCK: Yes. Thank</p> <p>12 you. That's an excellent announcement.</p> <p>13 Yes, Mr. Toth?</p> <p>14 MR. TOTH: Marty Toth. I just</p> <p>15 wanted to mention, I did not know if the Board was</p> <p>16 aware of the passing of Dr. Domenic Canonico. And</p> <p>17 he was a long-time member of this Board, and I</p> <p>18 didn't know if you would like to mention it.</p> <p>19 CHAIRMAN MORELOCK: Well, we did</p> <p>20 recognize Dr. Canonico, and we actually attended</p> <p>21 the funeral. But also, in that same vein, I would</p> <p>22 also like to announce that we lost another</p> <p>23 boiler/pressure vessel expert, and that was</p> <p>24 Mr. Steve Heater. And so he passed recently as</p> <p>25 well.</p>	<p style="text-align: right;">Page 7</p> <p>1 And just as a matter of order, then,</p> <p>2 could we just have a moment of silence for</p> <p>3 Dr. Canonico and Mr. Heater.</p> <p>4 (Moment of silence observed.)</p> <p>5 CHAIRMAN MORELOCK: Thank you.</p> <p>6 Okay. Any other announcements?</p> <p>7 (No verbal response.)</p> <p>8 CHAIRMAN MORELOCK: All right. Our</p> <p>9 next item on the agenda is the adoption of the</p> <p>10 agenda. And we do need to add an item to the</p> <p>11 agenda. And that item will be 19-8, which is Park</p> <p>12 West Medical Center is requesting a boiler</p> <p>13 attendant variance. And so we will add that to</p> <p>14 the agenda.</p> <p>15 Are there any corrections or</p> <p>16 additions to the agenda, other than that?</p> <p>17 (No verbal response.)</p> <p>18 CHAIRMAN MORELOCK: All right.</p> <p>19 Hearing none, do I have a motion to accept the</p> <p>20 agenda as amended?</p> <p>21 MR. BAUGHMAN: So moved.</p> <p>22 CHAIRMAN MORELOCK: Second?</p> <p>23 MR. BOWERS: Second.</p> <p>24 CHAIRMAN MORELOCK: Any other</p> <p>25 discussion?</p>
<p style="text-align: right;">Page 8</p> <p>1 (No verbal response.)</p> <p>2 CHAIRMAN MORELOCK: All in favor,</p> <p>3 say "aye."</p> <p>4 (Affirmative response.)</p> <p>5 CHAIRMAN MORELOCK: Opposed?</p> <p>6 (No verbal response.)</p> <p>7 CHAIRMAN MORELOCK: Abstentions,</p> <p>8 not voting?</p> <p>9 (No verbal response.)</p> <p>10 CHAIRMAN MORELOCK: Okay. We have</p> <p>11 an agenda.</p> <p>12 Moving on to Item 4 would be the</p> <p>13 approval of the December 12, 2018 minutes. And</p> <p>14 thank you, Lynn, for sending that out for us to</p> <p>15 review. And with that, are there any corrections</p> <p>16 to the minutes?</p> <p>17 (No verbal response.)</p> <p>18 CHAIRMAN MORELOCK: Again, thank</p> <p>19 you all for the excellent job our court reporters</p> <p>20 do to capture all of this, so we certainly</p> <p>21 appreciate that. It's a big job.</p> <p>22 Hearing no comments, do I have a</p> <p>23 motion to accept the December minutes?</p> <p>24 MR. FOX: I make a motion to</p> <p>25 accept.</p>	<p style="text-align: right;">Page 9</p> <p>1 CHAIRMAN MORELOCK: Second?</p> <p>2 MR. BOWERS: Second.</p> <p>3 CHAIRMAN MORELOCK: All in favor</p> <p>4 say "aye."</p> <p>5 (Affirmative response.)</p> <p>6 CHAIRMAN MORELOCK: Opposed?</p> <p>7 (No verbal response.)</p> <p>8 CHAIRMAN MORELOCK: Abstentions,</p> <p>9 not voting?</p> <p>10 (No verbal response.)</p> <p>11 CHAIRMAN MORELOCK: Minutes are</p> <p>12 approved. That takes us to Item 5, which is the</p> <p>13 chief boiler inspector's report.</p> <p>14 So Mr. Chapman, I'll turn it over to</p> <p>15 you.</p> <p>16 MR. CHAPMAN: Thank you, Chairman.</p> <p>17 Okay. Number of inspections</p> <p>18 performed by the State was 2,708. Insurance</p> <p>19 agency was 4,672, giving us a total of 7,380.</p> <p>20 Total delinquent members or vessels, we have</p> <p>21 70,736. State inspector is 1,367. Insurance</p> <p>22 inspector is 536, giving us a total of 1,903</p> <p>23 delinquent. Number of code violations, violations</p> <p>24 found was 25. We have 25 uncorrected.</p> <p>25 The variance report will be performed</p>

<p style="text-align: right;">Page 10</p> <p>1 by Assistance Chief Chris O'Guin. And this 2 reporting period for the data was from October to 3 December of 2018.</p> <p>4 MR. O'GUIN: As of today, we have 5 119 known variances, ten requiring a follow-up 6 inspection, 57 are active, 12 require a 7 reinspection, and 40 are no longer requiring a 8 variance. They're dormant.</p> <p>9 This quarter we completed one 10 variance audit. And it was Sofix and it was 11 approved.</p> <p>12 CHAIRMAN MORELOCK: Any questions 13 from the Board or visitors concerning the chief's 14 report or the assistant chief's report?</p> <p>15 MR. BAUGHMAN: Chief, I just wanted 16 to clarify on those violations again. I was 17 writing them down and I missed it on there.</p> <p>18 MR. CHAPMAN: Okay. There was 25 19 found.</p> <p>20 MR. BAUGHMAN: I'm sorry. I said 21 violations; I meant delinquencies. I'm sorry.</p> <p>22 MR. CHAPMAN: Oh, delinquent. I'm 23 sorry. Okay. The total number for the state was 24 1,367.</p> <p>25 MR. BAUGHMAN: Very good.</p>	<p style="text-align: right;">Page 11</p> <p>1 MR. CHAPMAN: And the insurance 2 agency was 536 --</p> <p>3 MR. BAUGHMAN: Super.</p> <p>4 MR. CHAPMAN: -- giving us a total 5 of 1,903.</p> <p>6 MR. BAUGHMAN: Thank you very much.</p> <p>7 CHAIRMAN MORELOCK: Any other 8 questions or comments? 9 (No verbal response.)</p> <p>10 CHAIRMAN MORELOCK: Okay. So 11 before we move on to old business, to shake things 12 up a little bit, I missed the announcements. So 13 let me take a minute and go around the room and 14 let everybody introduce themselves, and we'll also 15 have attendance list going around where you can 16 register your attendance.</p> <p>17 So I'll start with you, Cassandra.</p> <p>18 THE REPORTER: Cassandra Beiling, 19 Stone & George Court Reporting.</p> <p>20 MS. KIRBY: Lynn Kirby, board 21 secretary.</p> <p>22 MR. O'GUIN: Chris O'Guin, 23 assistant chief.</p> <p>24 MR. CHAPMAN: Sam Chapman, chief. 25 DR. HARGROVE: Keith Hargrove,</p>
<p style="text-align: right;">Page 12</p> <p>1 board member.</p> <p>2 CHAIRMAN MORELOCK: Brian Morelock, 3 board member.</p> <p>4 MR. BAUGHMAN: Dave Baughman, board 5 member.</p> <p>6 MR. BOWERS: Harold Bowers, board 7 member.</p> <p>8 MR. FOX: Terry Fox, board 9 member.</p> <p>10 MR. BAILEY: Dan Bailey, legal 11 counsel.</p> <p>12 MR. TOTH: Marty Toth, 13 ECS Consulting and the Boisco Training Group.</p> <p>14 MR. BRIMMER: Don Brimmer, Lucite 15 International.</p> <p>16 MR. CASH: Justin Cash, Lucite 17 International.</p> <p>18 MS. PAIGE: Ebony Paige, WRC.</p> <p>19 MR. WORLEY: Chad Worley with 20 PolyOne.</p> <p>21 MS. RHONE: Deborah Rhone, boiler 22 office supervisor.</p> <p>23 MR. HOLT: Tim Holt, state boiler 24 inspector.</p> <p>25 MR. FARMER: Chris Farmer, State of</p>	<p style="text-align: right;">Page 13</p> <p>1 Tennessee.</p> <p>2 MR. CARSON: Andrew Carson, 3 Setpoint Integrated Solutions.</p> <p>4 MR. BOWERY: Dustin Bowery, Leclerc 5 Foods.</p> <p>6 MR. NEVILLE: James Neville, 7 Neville Engineering.</p> <p>8 MR. MCFARLAND: Randall McFarland, 9 TriStar Centennial Medical Center.</p> <p>10 MR. HOLYFIELD: Kyle Holyfield, 11 West Tennessee Healthcare.</p> <p>12 MR. SELLERS: Doug Sellers, West 13 Tennessee Healthcare.</p> <p>14 MR. JONES: Mark Jones, West 15 Tennessee Healthcare.</p> <p>16 MR. BRANDEBERRY: Rick Brandeberry, 17 West Tennessee Healthcare.</p> <p>18 MR. LOGGINS: Patrick R. Loggins, 19 University of Tennessee, Memphis.</p> <p>20 MS. BARNETT: Doris Barnett, WRC.</p> <p>21 MR. YOUNG: Doug Young, Knoxville 22 Tennessee Medical Center, UT.</p> <p>23 MR. HUDGINS: Ernie Hudgins, 24 Engineering Services Group.</p> <p>25 MR. ELROD: Todd Elrod, East</p>

<p style="text-align: right;">Page 14</p> <p>1 Tennessee State University.</p> <p>2 CHAIRMAN MORELOCK: Thank you-all</p> <p>3 for that. Okay. So we are now going to move on</p> <p>4 to old business. And when you come forward to</p> <p>5 make your presentation, there's a couple of seats</p> <p>6 here. If you need extra, we'll pull those up.</p> <p>7 And make sure you introduce yourself and then</p> <p>8 present your item, and then we'll discuss it.</p> <p>9 So our first item is 18-08. East</p> <p>10 Tennessee State is requesting a new variance for</p> <p>11 four high-pressure boilers.</p> <p>12 So gentlemen, if you'll come forward</p> <p>13 and present your item.</p> <p>14 And while they're coming forward, are</p> <p>15 there any conflicts on this particular item?</p> <p>16 (No verbal response.)</p> <p>17 CHAIRMAN MORELOCK: Gentlemen?</p> <p>18 MR. HUDGINS: I'm Ernie Hudgins</p> <p>19 with Engineering Services Group. This is Todd</p> <p>20 Elrod, representing the East Tennessee State</p> <p>21 University.</p> <p>22 Currently, East Tennessee State</p> <p>23 University is operating four high-pressure</p> <p>24 boilers. They've recently converted their cold</p> <p>25 plant to natural gas and dual fire. And due to</p>	<p style="text-align: right;">Page 15</p> <p>1 that renovation, all the boilers now have</p> <p>2 microprocessor base controls, so they're asking</p> <p>3 for a variance in that.</p> <p>4 The purpose of this variance is not</p> <p>5 to reduce staffing. It's to allow the staff to</p> <p>6 respond to other calls on the university. As far</p> <p>7 as the location of the staff, they are located in</p> <p>8 the boiler house. That is their duty station.</p> <p>9 All the boiler alarms will be</p> <p>10 transmitted over the Johnson Control Medisys</p> <p>11 System to the security office on campus. The</p> <p>12 dispatcher for the University of Tennessee has</p> <p>13 just recently been accredited by the Tennessee</p> <p>14 fire marshal as a central station, monitoring</p> <p>15 station. So the people in the station are highly</p> <p>16 trained and qualified for monitoring, and that's</p> <p>17 their sole duty, is to monitor alarms coming out</p> <p>18 of there.</p> <p>19 The boiler attendant procedures and</p> <p>20 the emergency procedures are listed in the manuals</p> <p>21 along with the emergency call list. The boiler</p> <p>22 data sheets have been updated, as you requested,</p> <p>23 in Appendix A, along with the equipment</p> <p>24 descriptions, as far as the controls on the</p> <p>25 different boilers.</p>
<p style="text-align: right;">Page 16</p> <p>1 Mr. Chapman passed out the</p> <p>2 information on the deaerator tanks, as far as the</p> <p>3 tags and the data sheets on that.</p> <p>4 Appendix C, we added the fault</p> <p>5 messages and the product information for the Coen</p> <p>6 burner and for the two different Fireeye systems.</p> <p>7 I apologize for the lengthiness of the Fireeye</p> <p>8 system. The information that we got was password</p> <p>9 protected, so we weren't able to reduce it. We</p> <p>10 just included it as it was provided to us by the</p> <p>11 manufacturer's rep.</p> <p>12 If you look through that information,</p> <p>13 you'll see that the fault codes are pretty</p> <p>14 lengthy. The university understands that, even</p> <p>15 though it's not a critical fault that would shut</p> <p>16 down the boiler, it will generate an alarm, and</p> <p>17 the boiler will be shut down by the central</p> <p>18 monitoring station. And if that fault is not</p> <p>19 corrected, then they have to go back to monitoring</p> <p>20 the boiler every 20 minutes, as outlined.</p> <p>21 Appendix E, basically, the site plan</p> <p>22 shows the location of the boiler plant in</p> <p>23 relationship to the central monitoring station and</p> <p>24 the boiler plan layout and the schematics. We</p> <p>25 included a boiler monitoring log so you can see</p>	<p style="text-align: right;">Page 17</p> <p>1 what will be monitored every four hours. And the</p> <p>2 job description, we've included the description</p> <p>3 for the personnel in the campus security office.</p> <p>4 CHAIRMAN MORELOCK: Do I have a</p> <p>5 motion for discussion of this item?</p> <p>6 MR. BAUGHMAN: So moved.</p> <p>7 CHAIRMAN MORELOCK: Second?</p> <p>8 MR. BOWERS: Second.</p> <p>9 CHAIRMAN MORELOCK: Okay.</p> <p>10 Gentlemen, at the September meeting, we provided a</p> <p>11 pretty good list of things that needed to be</p> <p>12 changed to the manual. And from your</p> <p>13 presentation, you've revised the manual; is that</p> <p>14 correct?</p> <p>15 MR. HUDGINS: That's correct.</p> <p>16 CHAIRMAN MORELOCK: Have you</p> <p>17 submitted a revised manual to the Boiler Unit?</p> <p>18 MR. HUDGINS: Yes, sir.</p> <p>19 MR. CHAPMAN: That's the one we got</p> <p>20 for October.</p> <p>21 CHAIRMAN MORELOCK: The one I've</p> <p>22 got is dated October 2018. So have all the Board</p> <p>23 comments been addressed from the September</p> <p>24 meeting?</p> <p>25 MR. HUDGINS: Yes.</p>

<p style="text-align: right;">Page 18</p> <p>1 CHAIRMAN MORELOCK: Okay.</p> <p>2 MR. HUDGINS: We were scheduled to</p> <p>3 be on the December board, but due to weather...</p> <p>4 CHAIRMAN MORELOCK: You're right.</p> <p>5 I understand that.</p> <p>6 MR. HUDGINS: And so I think when</p> <p>7 we submitted it to Mr. Chapman the second time, it</p> <p>8 was in October.</p> <p>9 CHAIRMAN MORELOCK: Okay. All</p> <p>10 right. So with that said, then I'm going to open</p> <p>11 the floor up. If you-all have any additional</p> <p>12 comments, please make them at this time.</p> <p>13 MR. BAUGHMAN: Thank you for being</p> <p>14 here. One item, offhand -- and your addressing</p> <p>15 the Appendix A, B, C, D, and E, and so on -- my</p> <p>16 manual is missing Appendix E, drawings and</p> <p>17 sketches.</p> <p>18 And I don't know about the rest of</p> <p>19 you, but you may want to look in your manuals to</p> <p>20 see if that's in there or not.</p> <p>21 And you may want to look in your</p> <p>22 manual also.</p> <p>23 MR. HUDGINS: Okay. It looks like</p> <p>24 they're in Chris's.</p> <p>25 CHAIRMAN MORELOCK: So do you have</p>	<p style="text-align: right;">Page 19</p> <p>1 sketches in Appendix E?</p> <p>2 MR. O'GUIN: Yes.</p> <p>3 CHAIRMAN MORELOCK: Because in my</p> <p>4 manual, I have Appendix E but I don't have -- no,</p> <p>5 I have Appendix F. That's why we're asking the</p> <p>6 question.</p> <p>7 MR. BAUGHMAN: So it's just not in</p> <p>8 my manual nor Chairman Morelock's. Is it in --</p> <p>9 MR. BOWERS: No.</p> <p>10 DR. HARGROVE: Not in mine either.</p> <p>11 MR. BAUGHMAN: So it's missing in</p> <p>12 two others'.</p> <p>13 MR. CHAPMAN: It wasn't in mine</p> <p>14 either.</p> <p>15 MR. BAUGHMAN: So it's in none of</p> <p>16 the board members' manuals.</p> <p>17 CHAIRMAN MORELOCK: So, gentlemen,</p> <p>18 I think for the sake of expediency, if you have</p> <p>19 addressed all the Board comments from</p> <p>20 September 2018, there's two ways of tackling this</p> <p>21 problem. One is you would come back at the next</p> <p>22 board meeting, or if the Boiler Unit can concur</p> <p>23 that your changes have been captured, then we</p> <p>24 could do a contingent approval, and then your site</p> <p>25 visit would confirm that the manual is complete.</p>
<p style="text-align: right;">Page 20</p> <p>1 So I'll leave that preference up to</p> <p>2 you. I'm not going to make that decision.</p> <p>3 MR. HUDGINS: I would prefer to go</p> <p>4 with the second option.</p> <p>5 CHAIRMAN MORELOCK: Okay. So now</p> <p>6 it's up to the Board, if they're comfortable with</p> <p>7 that. So do I have a motion to contingently</p> <p>8 approve this variance based on the fact that the</p> <p>9 manual has been revised per our September 2018</p> <p>10 comments. And then the Boiler Unit would be</p> <p>11 responsible to verify that the manual is complete</p> <p>12 at their site visit.</p> <p>13 MR. BAUGHMAN: What I would like to</p> <p>14 add to that is I would like that information all</p> <p>15 to be sent to the board members so that we can</p> <p>16 include it in our manuals --</p> <p>17 MR. HUDGINS: I can do that.</p> <p>18 MR. BAUGHMAN: -- since some of</p> <p>19 us --</p> <p>20 MR. HUDGINS: Since some of it's</p> <p>21 not there?</p> <p>22 MR. BAUGHMAN: Yeah. And so if you</p> <p>23 would be able to get that into our hands, that</p> <p>24 would be --</p> <p>25 MR. HUDGINS: Send it to</p>	<p style="text-align: right;">Page 21</p> <p>1 Mr. Chapman?</p> <p>2 CHAIRMAN MORELOCK: Yes.</p> <p>3 MR. HUDGINS: Okay. I'll get that</p> <p>4 done.</p> <p>5 CHAIRMAN MORELOCK: So is that a</p> <p>6 motion?</p> <p>7 MR. BOWERS: I make a motion that</p> <p>8 we approve it, as said, if you update the manual,</p> <p>9 send a copy there and, of course, pass the site</p> <p>10 visit.</p> <p>11 CHAIRMAN MORELOCK: Do I have a</p> <p>12 second for that motion?</p> <p>13 MR. FOX: I'll second that.</p> <p>14 CHAIRMAN MORELOCK: Okay. Any</p> <p>15 discussion?</p> <p>16 (No verbal response.)</p> <p>17 CHAIRMAN MORELOCK: Okay. Hearing</p> <p>18 none, I'm going to call the question.</p> <p>19 All in favor, say "Aye."</p> <p>20 (Affirmative response.)</p> <p>21 CHAIRMAN MORELOCK: Opposed?</p> <p>22 (No verbal response.)</p> <p>23 CHAIRMAN MORELOCK: Abstentions,</p> <p>24 not voting?</p> <p>25 (No verbal response.)</p>

<p style="text-align: right;">Page 22</p> <p>1 CHAIRMAN MORELOCK: Gentlemen, you 2 have a contingently approved variance that will be 3 reviewed by the Boiler Unit for final approval and 4 a site visit, and once the Board receives all the 5 missing pages. 6 MR. BAUGHMAN: Well, and so backing 7 that up, I thought what we were voting on was just 8 this, getting the information in our hands for 9 that appendix, not so much approving the variance 10 itself -- 11 CHAIRMAN MORELOCK: Okay. 12 MR. BAUGHMAN: -- since there's 13 other items that need to be discussed on that. 14 CHAIRMAN MORELOCK: Okay. 15 MR. BAUGHMAN: I'm sorry. 16 CHAIRMAN MORELOCK: No, that's 17 fine. 18 So then, we just need to vote it. 19 It's an up or down vote. So you can vote 20 accordingly, or we rescind the motion. So the 21 motioner can rescind the motion. 22 DR. HARGROVE: I move that the 23 motion is rescinded and the Board reviews other 24 issues relative to the variance request. 25 CHAIRMAN MORELOCK: But you're the</p>	<p style="text-align: right;">Page 23</p> <p>1 seconder, so... 2 DR. HARGROVE: Oh. 3 MR. BOWERS: Okay. I rescind the 4 motion. 5 CHAIRMAN MORELOCK: So you're going 6 to rescind the motion. Okay. So now we're back 7 to where we were at before. 8 MR. BAUGHMAN: Sorry about that. 9 CHAIRMAN MORELOCK: No. That's 10 fine. We've just got to keep the procedure 11 straight, so that's okay. 12 MR. BAUGHMAN: Absolutely. 13 CHAIRMAN MORELOCK: So I need a 14 motion. What is the Board's pleasure for this 15 item? I need a motion. 16 MR. BAUGHMAN: I would like to 17 discuss the variance proposal and the technical 18 items within it. 19 CHAIRMAN MORELOCK: Okay. All 20 right. So do I have a second for that? 21 DR. HARGROVE: I second. 22 CHAIRMAN MORELOCK: Okay. So the 23 floor is open for discussion of your items on the 24 manual. And these will be added to the comments 25 from the September meeting. Okay?</p>
<p style="text-align: right;">Page 24</p> <p>1 MR. HUDGINS: Understood. 2 CHAIRMAN MORELOCK: Okay. All 3 right. So the floor is open for discussion. 4 MR. BAUGHMAN: Well, I'll start 5 with it, then. Thank you again. 6 So when we get into the equipment 7 description and we've got listed the Fireye 8 control of the E110, the Coen for Boiler Number 2, 9 and then Boiler Number 3, and Boiler Number 4 10 shows Fireye PPC 6000; is that correct? 11 MR. HUDGINS: That's correct. 12 MR. BAUGHMAN: Okay. The only 13 issue I've got with that is that the Fireye PPC 14 6000 is not a dynamic self-check control. That's 15 a parallel positioning controller, hence the PPC. 16 That's to -- so instead of Linkage list, it's 17 using Servos. So all it is, is it's a controller 18 for O2 trim. It's not the flame safeguard or the 19 dynamic check mechanism. It ties into a 20 mechanism, but that mechanism is not listed. And 21 so I'm a little bit in left field as far as to 22 know what controllers that ties into. 23 The description for that controller is 24 within the manual. It describes it being an O2 25 trim system. It's described under Appendix C-4,</p>	<p style="text-align: right;">Page 25</p> <p>1 Boiler 3, and again on page 10 of the product 2 description manual. But there again, it's 3 strictly parallel positioning control. So I guess 4 I needed to address exactly what dynamic 5 self-check controllers on Boiler Number 3 and 4... 6 MR. HUDGINS: I do not know off the 7 top of my head. I'll have to do some more 8 digging. 9 MR. BAUGHMAN: Okay. Thank you. 10 And then for the Coen control, it's required to 11 use a controller that uses dynamic self-check. 12 This unit is a BMS2000, which, in its description, 13 is not dynamic self-check. It's self-checking. 14 So there again, the requirement that we have is 15 for a dynamic self-check, and so nowhere in there 16 does it address -- in looking through this 17 BMS 2000, I couldn't find what the programmer was 18 they used. 19 MR. HUDGINS: Allen-Bradley. 20 MR. BAUGHMAN: It's an 21 Allen-Bradley for the flame safeguard control? 22 MR. HUDGINS: Yes. 23 MR. BAUGHMAN: Okay. Because in 24 the drawing that it showed in the picture that 25 Coen produces, it's got two old Fireeyes that are</p>

<p style="text-align: right;">Page 26</p> <p>1 shown on it, the old 70D10s, which have been 2 obsolete for a number of years. And I did not see 3 in the manual -- and if you can refer that to 4 me -- I did not see the Allen-Bradley as a flame 5 safeguard dynamic self-check in the manual. 6 MR. HUDGINS: I think in the 7 information provided to us, it mentioned the 8 Allen-Bradley. When we visited the site and 9 opened up the control panel, it is an 10 Allen-Bradley PLC. 11 MR. BAUGHMAN: And I appreciate you 12 taking the time. I just could not find, within 13 the technical data, the dynamic self-check for 14 that particular item. 15 MR. HUDGINS: Okay. There is -- a 16 part of the PLC, there is, I guess, a warning 17 light that if any of the sensors are offline, it 18 generates a fault. That was shown in the cover 19 page for the -- if you look on the -- right before 20 C4, there's like a -- they don't call it as an 21 Allen-Bradley, but Number 1 is the programmable 22 logic controller. It's listed there. And then as 23 part of the function of that 10, the enunciator... 24 CHAIRMAN MORELOCK: Is this what 25 he's talking about?</p>	<p style="text-align: right;">Page 27</p> <p>1 MR. BAUGHMAN: Yeah, and that's the 2 different -- I'm still looking for that reference, 3 so I'm sorry for taking the time to find that. So 4 there's C2 and there's C4. And so you're saying 5 in C4 -- 6 MR. HUDGINS: The page before C4. 7 MR. BAUGHMAN: The page before C4, 8 where it shows the open panel there? 9 MR. HUDGINS: The open panel, 10 Number 1 says it's a programmable logic 11 controller, and then under the description for the 12 Coen BMS 2000, it refers to it as a programmable 13 logic -- a PLC. 14 MR. BAUGHMAN: Yes. And that is 15 different than the flame safeguard control. Item 16 Number 4, where it says "Fireeye or equal flame 17 scanning system," if you'll notice, Item 4 shows 18 two old Fireeye programmers. It doesn't identify, 19 in our description, what those are. The PLC is 20 not the dynamic self-check part of this system. 21 Everything ties into it. 22 MR. HUDGINS: Yeah. 23 MR. BAUGHMAN: But we don't list 24 what the programmers are that we're utilizing in 25 this system. So I just didn't have anything to be</p>
<p style="text-align: right;">Page 28</p> <p>1 able to go back to see if in fact we were 2 utilizing a dynamic self-check control. 3 MR. HUDGINS: Okay. 4 MR. BAUGHMAN: So I would like to 5 know -- just to know what it is that we're 6 actually using. Since we've got old controls in 7 there, they may have been updated, or we may still 8 be utilizing the same old programmers. 9 MR. HUDGINS: They've got them, 10 haven't they? 11 MR. ELROD: I'm not sure that they 12 have. 13 MR. TOTH: May I ask a question? 14 Which controller? Are they stating the BMS2000 15 from Allen Rockwell -- Allen-Bradley? 16 MR. BAUGHMAN: I'm sorry, again? 17 MR. TOTH: Is it the BMS2000 from 18 Allen-Bradley/Rockwell? Is that what they're 19 stating? 20 MR. BAUGHMAN: That, I couldn't 21 tell you. The BMS2000 is the complete system. 22 Yeah, so it's listed as a Coen BMS2000 burner 23 management system. In that are different 24 components, and the PLC that he's mentioning being 25 one. But the programmers themselves are not</p>	<p style="text-align: right;">Page 29</p> <p>1 itemized. 2 MR. TOTH: Well, just to put my two 3 cents in on it, you have -- for that particular 4 unit, you do have the burner master portion of it 5 and then the control logics portion, which is more 6 of your parallel positioning portion as you 7 referred to; whereas, the burner master portion of 8 it is your flame safeguard system. So it's not 9 really a lot of what we see in the market, but it 10 is out there, just to let you know. I don't have 11 a book, so I don't see it, but I heard BMS2000. I 12 just -- I didn't want them to go down a rabbit 13 hole here. 14 MR. BAUGHMAN: Sure. Well, it 15 still doesn't clarify what's on there. 16 MR. TOTH: You're right. 17 Absolutely. 18 MR. BAUGHMAN: So yes, I agree with 19 what you're saying. It still doesn't help us 20 clarify. 21 MR. TOTH: Yes, sir. 22 MR. BAUGHMAN: So for 23 clarification, I would like to know what 24 programmers are actually used in that BMS2000. 25 MR. HUDGINS: Okay. Not the</p>

<p style="text-align: right;">Page 30</p> <p>1 programmable logic controller?</p> <p>2 MR. BAUGHMAN: I'm sorry, again,</p> <p>3 sir?</p> <p>4 MR. HUDGINS: Not the PLC?</p> <p>5 MR. BAUGHMAN: No, sir. No. It's</p> <p>6 the flame safeguard programmers.</p> <p>7 CHAIRMAN MORELOCK: Okay. Other</p> <p>8 comments? Questions?</p> <p>9 DR. HARGROVE: Quick question.</p> <p>10 Could you describe your role and your daily</p> <p>11 responsibilities associated with the boiler</p> <p>12 operations.</p> <p>13 MR. ELROD: So I oversee the daily</p> <p>14 operations, you know, as far as all the reporting</p> <p>15 required, personnel issues, all the maintenance</p> <p>16 for the powerhouse.</p> <p>17 DR. HARGROVE: That includes what</p> <p>18 staff or personnel?</p> <p>19 MR. ELROD: Well, it includes all</p> <p>20 the operators.</p> <p>21 DR. HARGROVE: All the operators?</p> <p>22 MR. ELROD: Yes, all the boiler</p> <p>23 operators.</p> <p>24 DR. HARGROVE: And are you directly</p> <p>25 or indirectly involved in the training?</p>	<p style="text-align: right;">Page 31</p> <p>1 MR. ELROD: Indirectly. We</p> <p>2 actually have WARE Industries that comes in and</p> <p>3 does an annual training. So we have that done</p> <p>4 with them.</p> <p>5 DR. HARGROVE: What's the frequency</p> <p>6 of that training?</p> <p>7 MR. ELROD: Annually.</p> <p>8 DR. HARGROVE: Annually?</p> <p>9 MR. ELROD: Yes, sir.</p> <p>10 MR. BAUGHMAN: The only other item</p> <p>11 I have is that within our boiler logs and within</p> <p>12 our requirements for our checklist we have, is the</p> <p>13 boiler water column tested. And under our boiler</p> <p>14 logs, in Appendix F, I saw nowhere on the log</p> <p>15 sheet that that is part of the log; nor was it in</p> <p>16 the manual as part of the requirement. So if you</p> <p>17 could possibly shed light on where that might be.</p> <p>18 And if it's not in there, then I would propose we</p> <p>19 make a modification to the log sheet and within</p> <p>20 the manual itself to have that included.</p> <p>21 MR. HUDGINS: Would you care to</p> <p>22 repeat? I was looking for the -- I thought I</p> <p>23 found what you were looking for in the description</p> <p>24 for the Coen.</p> <p>25 MR. BAUGHMAN: Sure.</p>
<p style="text-align: right;">Page 32</p> <p>1 MR. HUDGINS: It basically just</p> <p>2 said it utilizes a programmable logic controller.</p> <p>3 But what was it that you were --</p> <p>4 MR. BAUGHMAN: Under the boiler</p> <p>5 logs in Appendix F --</p> <p>6 MR. HUDGINS: Yes.</p> <p>7 MR. BAUGHMAN: -- there's no</p> <p>8 itemization for checking the water column, blowing</p> <p>9 the boiler down in the water column. And that's a</p> <p>10 requirement, also, on our checklist, that it asks</p> <p>11 if this is part of our procedure. So it just</p> <p>12 needs to be part of the procedure in the manual</p> <p>13 and also identified on your boiler log sheet.</p> <p>14 MR. HUDGINS: Okay. The intent</p> <p>15 was, you know, we have the column for water level</p> <p>16 inches above mark. But we can add a separate</p> <p>17 column for that.</p> <p>18 MR. BAUGHMAN: And that may be</p> <p>19 sufficient. It just -- it doesn't address,</p> <p>20 actually, whether the water column is blown down.</p> <p>21 It is checking the water level, which is good.</p> <p>22 The problem with that is that sight glasses get</p> <p>23 plugged up, and without any kind of check, we're</p> <p>24 assuming the water level in the boiler is proper.</p> <p>25 MR. HUDGINS: Would you want a</p>	<p style="text-align: right;">Page 33</p> <p>1 separate column, or just change the heading on</p> <p>2 that to include --</p> <p>3 MR. BAUGHMAN: I'm good with</p> <p>4 however you want to address it.</p> <p>5 MR. HUDGINS: Okay.</p> <p>6 MR. BAUGHMAN: Just as long as we</p> <p>7 address the water column. I don't quite know how</p> <p>8 to word it for you.</p> <p>9 CHAIRMAN MORELOCK: We're not going</p> <p>10 to tell you how to do it. We're just going to</p> <p>11 tell you what's required in it.</p> <p>12 MR. HUDGINS: Okay.</p> <p>13 CHAIRMAN MORELOCK: So that's --</p> <p>14 we're not going to tell you how to do it.</p> <p>15 MR. HUDGINS: Okay.</p> <p>16 MR. ELROD: Currently, this is a</p> <p>17 new log that we'll be using once this variance</p> <p>18 goes in place. Our current logs reflect that, and</p> <p>19 it's done every eight hours.</p> <p>20 CHAIRMAN MORELOCK: Okay. And so</p> <p>21 if you're currently doing it, then certainly, your</p> <p>22 variance ought to have the same data in it. So</p> <p>23 that's good. It's good to know.</p> <p>24 MR. BAUGHMAN: Thank you.</p> <p>25 CHAIRMAN MORELOCK: Any other</p>

<p style="text-align: right;">Page 34</p> <p>1 questions or comments?</p> <p>2 (No verbal response.)</p> <p>3 CHAIRMAN MORELOCK: Okay. Hearing</p> <p>4 no more comments, these gentlemen desire for the</p> <p>5 Board to -- they're seeking contingent approval of</p> <p>6 this variance contingent on taking the</p> <p>7 September 2018 comments, the comments from today's</p> <p>8 meeting, and revise their manual accordingly, and</p> <p>9 then have a site visit from the State of</p> <p>10 Tennessee.</p> <p>11 Is there any concerns of the Board if</p> <p>12 that is a -- with their desired course of action?</p> <p>13 MR. BAUGHMAN: For one, I would</p> <p>14 make sure for myself -- I'm not speaking for the</p> <p>15 other board members -- but I would like to have</p> <p>16 the flame safeguard information on that BMS2000</p> <p>17 sent to us. I would like the flame safeguard</p> <p>18 information on Boilers Number 3 and 4, since they</p> <p>19 aren't part of what we've got. We've got that</p> <p>20 PPC6000. I would like to have that in our hands</p> <p>21 and make that part of the contingency, that if</p> <p>22 there's anything that's a red flag, that we can</p> <p>23 address that back, then, through the Boiler Unit</p> <p>24 and Mr. Chapman. But that's the only -- and the</p> <p>25 appendix that was missing, getting that into our</p>	<p style="text-align: right;">Page 35</p> <p>1 hands. But other than that...</p> <p>2 CHAIRMAN MORELOCK: Okay. So does</p> <p>3 the Board want that information prior to the site</p> <p>4 visit? Is that what I'm hearing from the Board?</p> <p>5 MR. BAUGHMAN: I would like it</p> <p>6 prior to the site visit.</p> <p>7 CHAIRMAN MORELOCK: Okay.</p> <p>8 DR. HARGROVE: Agreed.</p> <p>9 CHAIRMAN MORELOCK: Okay. All</p> <p>10 right. So with all that said, what is the Board's</p> <p>11 desire with these gentlemen here today? What</p> <p>12 would be the motion?</p> <p>13 MR. BOWERS: I would make a motion</p> <p>14 that we approve, contingent on the requested</p> <p>15 information to the board members, updating the</p> <p>16 manual, and a site visit.</p> <p>17 CHAIRMAN MORELOCK: Okay. Do I</p> <p>18 have a second for that motion?</p> <p>19 DR. HARGROVE: Second.</p> <p>20 CHAIRMAN MORELOCK: Okay. So I do</p> <p>21 have a second. Is there any further discussion on</p> <p>22 this item?</p> <p>23 DR. HARGROVE: Mr. Chairman, I do</p> <p>24 want to ensure that the review from Mr. Chapman,</p> <p>25 that information is -- their review is sent to us</p>
<p style="text-align: right;">Page 36</p> <p>1 immediately with regard to the initial issue we</p> <p>2 were talking about that wasn't included in the</p> <p>3 packet.</p> <p>4 CHAIRMAN MORELOCK: Okay.</p> <p>5 MR. BAUGHMAN: I would like to get</p> <p>6 one other clarification, possibly from the Board,</p> <p>7 with input from others. And that's the wording of</p> <p>8 "dynamic self-check" vs. "self-check." So you</p> <p>9 need to have a clarification since in the</p> <p>10 description of this equipment and some others, old</p> <p>11 equipment, even new equipment could be, but we get</p> <p>12 into -- our variance requires a dynamic self-check</p> <p>13 mechanism and whether we accept a system that is</p> <p>14 not dynamic self-check and is just listed as a</p> <p>15 self-check. So I just wanted to bring that up</p> <p>16 since it is part of what we've got in the</p> <p>17 hardware.</p> <p>18 MR. TOTH: (Indicating.)</p> <p>19 CHAIRMAN MORELOCK: Mr. Toth?</p> <p>20 MR. TOTH: Marty Toth. Let's look</p> <p>21 at the definition of "dynamic," something of</p> <p>22 constant change or process. You're going to see a</p> <p>23 lot of manufacturers that will use the word</p> <p>24 "self-check." Not all of them use the word</p> <p>25 "dynamic." A company like Honeywell, in their</p>	<p style="text-align: right;">Page 37</p> <p>1 manual, they will use the word "dynamic." But</p> <p>2 they also can have proprietary, such as Ampli</p> <p>3 Check where they actually do a self-checking of</p> <p>4 their amplifier. Fireye does not use the term</p> <p>5 "dynamic." They do use the term "self-check." So</p> <p>6 it's really just almost a redundant term. Dynamic</p> <p>7 and self-checking; it's just checking as a</p> <p>8 constant change of the process.</p> <p>9 MR. BAUGHMAN: So then my question</p> <p>10 would be, and you may be able to shed some light</p> <p>11 on this, why did we incorporate the word "dynamic"</p> <p>12 in our code requirement?</p> <p>13 MR. TOTH: Can I say that was</p> <p>14 before my time? It was. It was a term that was</p> <p>15 utilized before I was chief. And I think it</p> <p>16 probably came from a manufacturer, looking at a</p> <p>17 leader in the industry such as Honeywell utilizing</p> <p>18 the term "dynamic," and that's probably how it was</p> <p>19 implemented.</p> <p>20 MR. BAUGHMAN: Okay. Thank you.</p> <p>21 CHAIRMAN MORELOCK: And in that</p> <p>22 vein, that issue is a Board issue more than</p> <p>23 your-all's issue, because we developed the</p> <p>24 checklist; yes, it was before our time, but we've</p> <p>25 made revisions over time to it. And if that needs</p>

<p style="text-align: right;">Page 38</p> <p>1 to be revisited, that's on the board members, so 2 we would take an item out to look at that. 3 MR. TOTH: And, Mr. Chairman, I'm 4 definitely not pushing the buck on that because I 5 was a big part of that checklist you see there, 6 and we have "dynamic" in there. 7 CHAIRMAN MORELOCK: Right. 8 MR. TOTH: It just looked really 9 good. No. 10 CHAIRMAN MORELOCK: We're not going 11 the put that on your plate. 12 Any other comments? 13 MR. BAUGHMAN: Thank you. 14 MR. HUDGINS: You're welcome. 15 CHAIRMAN MORELOCK: All right. 16 Hearing none, I'm going to call the question on 17 the current motion, which is to provide contingent 18 approval of this variance for ETSU contingent upon 19 information being sent back to the Board through 20 the Boiler Unit to address the comments from 21 today, as well as verification that all of the 22 September 2018 Board comments have been addressed 23 and a site visit from the Boiler Unit to confirm 24 that the manual actually reflects what's actually 25 in operation.</p>	<p style="text-align: right;">Page 39</p> <p>1 So with that said, I'm going to call 2 the question for this item. All in favor, say 3 "aye." 4 (Affirmative response.) 5 CHAIRMAN MORELOCK: Opposed? 6 (No verbal response.) 7 CHAIRMAN MORELOCK: Abstentions, 8 not voting? 9 (No verbal response.) 10 CHAIRMAN MORELOCK: Gentlemen, you 11 have a contingently approved variance. And please 12 get that information to the Boiler Unit as 13 expediently as you can, and we'll move forward. 14 Thank you for your time. 15 MR. HUDGINS: One question. As far 16 as the supplemental information, would Mr. Chapman 17 want that in one package or as -- the drawings 18 that were missing, I can provide that to him, you 19 know, this afternoon or first thing -- 20 CHAIRMAN MORELOCK: If you can send 21 it all at the same time. 22 MR. HUDGINS: Just at one time? 23 Okay. 24 CHAIRMAN MORELOCK: Yes. 25 Are you okay with that?</p>
<p style="text-align: right;">Page 40</p> <p>1 MR. BAUGHMAN: I'm okay with that. 2 CHAIRMAN MORELOCK: All right. 3 Very good. Thank you. 4 MR. HUDGINS: Thank you, gentleman. 5 CHAIRMAN MORELOCK: All right. 6 Moving on to our next old-business item, which is 7 18-14. Energy Conversion and Safety will provide 8 an update to existing variance manual for two 9 high-pressure boilers located at Lucite 10 International. 11 MR. BAILEY: Mr. Chairman, just for 12 the record, I would like to note that Mr. Toth is 13 wearing a very fine suit. 14 MR. TOTH: I was really concerned 15 they were going to confuse me with you. 16 Mr. Chairman and members of the 17 board, thank you for your time and all your hard 18 work for our state. 19 My name is Marty Toth. I am with ECS 20 Consulting and the Boisco Training Group. And I 21 am here to represent Lucite International from 22 Memphis, Tennessee. 23 To my left, I would like to introduce 24 Justin Cash. He is a senior process engineer and 25 our resident boiler expert for Lucite. To my</p>	<p style="text-align: right;">Page 41</p> <p>1 right, Mr. Don Brimmer. He is a project engineer 2 and the go-to man when I have process questions. 3 So first, I would like to apologize. 4 The manuals you received hard copy, it was not 5 found until I received the hard copies that there 6 was a misprint. I think you probably found that, 7 that there was an extra page added. And when it 8 did, it threw off all the title page or the table 9 of contents. 10 I did find that and sent an 11 electronic copy. Hopefully, that was sufficient. 12 We also were able to clarify responsibilities 13 better. And so I do apologize for if there was 14 any inconvenience with that. 15 The other thing I would like to 16 address is when we went through the process and I 17 was contacted by Mr. Brimmer and we discussed 18 going through the process of renewing their 19 variance, there was a lot of confusion. And I 20 will briefly go through that. Mr. Brimmer was 21 communicated with about their variance being out 22 of date. There were a couple of situations of 23 variances for Lucite International. One pertained 24 to VI0534, which as you know, is a board 25 interpretation. That board interpretation</p>

<p style="text-align: right;">Page 42</p> <p>1 pertained to the requirement for inspections to 2 unfired steam boilers.</p> <p>3 And what that interpretation allowed 4 for is for unfired steam boilers to be inspected 5 on an internally two-year cycle with a subsequent 6 external inspection every six months.</p> <p>7 Lucite International came to the 8 Board some years ago requesting a three-year cycle 9 on those internal inspections, which the Board 10 then passed. I vaguely recall that. It's been 11 some years ago. Mr. Morelock, you may recall it 12 also.</p> <p>13 Since that time, Lucite has chosen to 14 go back to the two-year cycle. They no longer 15 wait that third year for an internal inspection. 16 So that is no longer necessary.</p> <p>17 The conversation comes in with the 18 remote variance. Of myself, Mr. Brimmer, we could 19 not locate the documentation for the original 20 variance that they were -- that he was 21 communicated with about. So what I would like to 22 do is treat this variance as a brand-new variance, 23 because the variance that you have before you is 24 from scratch. When we could not locate the 25 documentation for revisions, the revisions were</p>	<p style="text-align: right;">Page 43</p> <p>1 required due to the fact that we changed both heat 2 recovery steam generators, which are the unfired 3 steam boilers. And those have been inspected. 4 They've received registrations. They're good to 5 go. They're up to date. It's just the confusion 6 came about with the remote variance itself.</p> <p>7 So now what you see, the request is 8 for an update, and in reality, we would like for 9 this variance to be treated as a new variance. 10 Okay?</p> <p>11 CHAIRMAN MORELOCK: Okay.</p> <p>12 MR. TOTH: So with that, just to 13 kind of give you a little background, this is a 14 very unique system that you're going to see. I 15 would say that some of you that are new to the 16 Board have not experienced a variance of this 17 type. This is not your standard boiler that has a 18 burner on the front. These are what we call in 19 the industry heat recovery steam generators. And, 20 in essence, what we have is we have a furnace that 21 is separate from the actual pressure vessel 22 itself, i.e., the boiler.</p> <p>23 The flue gases that are combusted in 24 this unit is what would be a spent gas, or an 25 acid, from the process. It has a natural gas</p>
<p style="text-align: right;">Page 44</p> <p>1 pilot in the furnace. It has all the flame 2 safeguards, as you've seen in the manual, that are 3 required by code. It actually goes above and 4 beyond whenever we talk about flame scanners. 5 They have the best in the industry that can be 6 offered for self-checking.</p> <p>7 The flue gases that come off of the 8 furnace and go through the steam generator; 9 whereas, the steam is generated and then used 10 throughout the process.</p> <p>11 Mr. Cash is here. He can go into 12 great detail about this process. We have added 13 quite a few illustrations of the process from the 14 furnace side, all the way through to the boiler 15 itself.</p> <p>16 What we have is a control station 17 that's very nearby that is manned 24/7 by our CCR 18 operators, and our boiler attendants are manned by 19 the field operators or, as we like to call them, 20 too, assistant operators. And they are manned 21 24/7.</p> <p>22 Shifts are 12 on, 12 off; 12 and 12. 23 They start at 6:30 in the morning, off at 6:30 at 24 night, and the replacement comes on; 24/7.</p> <p>25 I'm open to any questions that you</p>	<p style="text-align: right;">Page 45</p> <p>1 may have.</p> <p>2 MR. BOWERS: Are we open for 3 discussion?</p> <p>4 CHAIRMAN MORELOCK: Yes. So is 5 that a motion?</p> <p>6 MR. BAILEY: Conflicts of interest? 7 MR. BOWERS: Yes.</p> <p>8 MR. BAILEY: Conflicts? 9 CHAIRMAN MORELOCK: Any conflicts 10 of interest for this item? 11 (No verbal response.)</p> <p>12 CHAIRMAN MORELOCK: All right. The 13 floor is open. Thank you.</p> <p>14 MR. BOWERS: If this is manned 15 24 hours, what's the reason for the variance? 16 MR. TOTH: Well, the variance is 17 the SAR operator, field operator, has other 18 responsibilities throughout the plant that they 19 take care of. But they are on the plant premises, 20 as you see from the site plan. It's a pretty good 21 size facility, but it's all within walking 22 distance. A lot of the individuals have golf cart 23 transportation if they need that. The remote 24 station is what is manned 24/7 with the remote 25 operator. As you can see, I provided an</p>

<p style="text-align: right;">Page 46</p> <p>1 illustration, there of one of the CCR operators in 2 the remote station.</p> <p>3 MR. BOWERS: Is this a waste-heat 4 boiler?</p> <p>5 MR. TOTH: Yes. That's exactly -- 6 when you talk about heat recovery steam 7 generators, all heat recovery steam generators 8 would be categorized as a waste-heat boiler.</p> <p>9 MR. BOWERS: So shutting down this 10 waste-heat boiler, is there a delay, once you shut 11 off the product, to shut off the flame --</p> <p>12 MR. TOTH: No.</p> <p>13 MR. BOWERS: -- to the pipe gas? 14 No, there is not. From the furnace itself that's 15 burning the spent fuels or the spent acids, once 16 you extinguish that furnace, you've lost any 17 energy transfer capability.</p> <p>18 MR. BAUGHMAN: So, Mr. Toth, just 19 for clarification, then, getting into Appendix I 20 on the checklist, Number 9, we're going to change 21 that from "modified" to "new"?</p> <p>22 MR. TOTH: Please.</p> <p>23 MR. BAUGHMAN: Okay. And then 24 under the cover letter, the same; "requests a 25 renewal," we're going to change that to "new."</p>	<p style="text-align: right;">Page 47</p> <p>1 MR. TOTH: Yes, sir.</p> <p>2 MR. BAUGHMAN: One thing I might 3 add, just on the cover letters --</p> <p>4 MR. TOTH: Yes?</p> <p>5 MR. BAUGHMAN: -- there's no date 6 on the cover letters.</p> <p>7 MR. TOTH: Right. That was brought 8 to my attention. I do appreciate that. That was 9 something that it just did not occur.</p> <p>10 MR. BAUGHMAN: Sure.</p> <p>11 MR. TOTH: And I think that is a 12 very useful tool, and I'll make sure that that is 13 taken care of.</p> <p>14 MR. BAUGHMAN: I miss it on stuff 15 that I send down, so I just wanted to bring it up.</p> <p>16 MR. TOTH: Absolutely. It's like 17 how many of these I've been through, and I didn't 18 put a date on it. But I will definitely do that.</p> <p>19 MR. BAUGHMAN: Great. 20 Question being, these are listed as 21 HRSGs. So they are steam generators, unfired 22 pressure vessels. And being a generator is 23 different than a boiler in its nomenclature. This 24 has a separate steam drum. So we had board 25 interpretation years ago on steam generators,</p>
<p style="text-align: right;">Page 48</p> <p>1 i.e., the Clayton, the Vapour that was brought 2 before us, for determining attendants versus 3 unattended. And if I'm not mistaken, it was made 4 to where a steam generator was unattended, and we 5 voted upon the Clayton and the Vapour unit that 6 because they're classified as a steam generator 7 and not a boiler, that it wasn't required to be 8 attended. So I wanted to just, being that you've 9 got probably more that what I'll ever know -- but 10 we do have a board interpretation that was voted 11 upon. And even within recent times, within the 12 last two to three years, we had something on it.</p> <p>13 MR. TOTH: It was 2005. And I 14 don't have it right in front of me, but it's -- I 15 think it's a BC -- I don't think it was a BI -- 16 board case, BC05 -- wow. You caught me at a bad 17 spot.</p> <p>18 But I do understand what you're 19 referring to. When we talk about the intent of 20 that board case, it was not the intent of heat 21 recovery steam generators. The intent of that was 22 for the Claytons because they were a coiled system 23 that -- where there was an understanding where 24 there was no fixed water level. Okay? 25 Also, if I can recall, and I would</p>	<p style="text-align: right;">Page 49</p> <p>1 have to go back and look, I believe there was a 2 differentiation between -- wow. I'm just going to 3 stop right there, because I don't want to speak 4 out of turn on it. I would have to go back and 5 research.</p> <p>6 MR. BAUGHMAN: Okay. Well, and I 7 bring that up just because if we had the 8 information, it would be super. But I know it was 9 just within the last handful of years because we 10 had the company from Lebanon, Tennessee, that had 11 one of these steam generators come before us to 12 bring this boiler up and so forth.</p> <p>13 MR. TOTH: What kind of steam 14 generator was it?</p> <p>15 MR. BAUGHMAN: It was a Vapour 16 unit -- Vapour -- Vapor -- and --</p> <p>17 MR. TOTH: But was it a coil-type 18 unit?</p> <p>19 MR. BAUGHMAN: Coil-type unit, yes.</p> <p>20 MR. TOTH: Okay. No fixed water 21 level.</p> <p>22 MR. BAUGHMAN: Well, that's true. 23 The issue came about, not so much with the water 24 level as it was that the steam is not accumulated 25 in the vessel itself. It's accumulated external</p>

<p style="text-align: right;">Page 50</p> <p>1 of the vessel. Which, I believe this unit made by 2 Continental is that same way. It has an external 3 accumulation for its steam, correct? 4 MR. TOTH: Right. But there's no 5 cut-off communication chamber between the two. 6 MR. BAUGHMAN: Sure. And so -- but 7 the issue was that it was still separate from the 8 unit itself, and there was something within that 9 interpretation -- and I just bring it up so that 10 we can look into it. 11 MR. TOTH: Sure. 12 MR. BAUGHMAN: Because I wasn't 13 sure -- I tried to read as much as what I could, 14 Mr. Toth, on the differentiation between steam 15 generator and boiler. 16 MR. TOTH: Sure. It's a very 17 confusing term in a lot of cases. It can be. 18 MR. BAUGHMAN: Sure. So I wanted 19 to make sure that what we were doing was actually 20 applicable to this. I'm all for having a 21 monitored to a higher degree, by all means. 22 MR. TOTH: Well, if I may add to 23 that a little bit. The confusing thing that 24 you're going to look at with a unit design of this 25 nature is that in the industry, a lot of us want</p>	<p style="text-align: right;">Page 51</p> <p>1 to differentiate boiler types with fire-tube, 2 water-tube, and we put that in our mind. When in 3 reality, if we look at it, a steam drum on a 4 water-tube boiler is really connected by the 5 downcomers, the risers, and the generating tubes. 6 Well, if we look at that in regards to this type 7 of unit, you have a steam drum on top of the 8 fire-tube process on the bottom with the risers 9 and downcomers connecting it, no different than 10 you would on a water-tube boiler. 11 So that's why it's all built under 12 one stamp. We have one national board number and 13 we had -- when it was built in that way, it was 14 parts put together and assembled on site and 15 stamped individually. 16 MR. BAUGHMAN: Super. Well, I 17 appreciate the discussion, so -- 18 MR. TOTH: No. That's a really 19 good discussion. I just hate that I didn't recall 20 that from 2005. 21 MR. BAUGHMAN: So with that, I 22 noticed in the drawings it shows the feedwater 23 actually coming into the steam drum itself on 24 these drawings; is that correct? 25 MR. TOTH: From the DA?</p>
<p style="text-align: right;">Page 52</p> <p>1 MR. BAUGHMAN: It just showed -- 2 MR. TOTH: Yes. 3 MR. BAUGHMAN: -- in your drawings 4 in here -- 5 MR. TOTH: Yes. 6 MR. BAUGHMAN: -- that it's -- 7 MR. TOTH: Yes, it actually does. 8 MR. BAUGHMAN: -- coming up into 9 the steam drum itself. 10 MR. TOTH: Yes. I'm going to 11 verify it, but yes, it actually does. 12 MR. BAUGHMAN: Very interesting. 13 So when this unit -- 14 MR. TOTH: Let me ask the question. 15 Why would you say that? 16 MR. BAUGHMAN: Well, getting back 17 in my mind, knowing how steam generators work 18 versus steam boilers, the boiler typically has the 19 feedwater going into the boiler part of the vessel 20 itself and not up into the -- 21 MR. TOTH: On a fire-tube, you're 22 correct. 23 MR. BAUGHMAN: Yes. And so any 24 time that feedwater is coming up into the steam 25 header, thinking about carryover and so forth and</p>	<p style="text-align: right;">Page 53</p> <p>1 what have you. 2 MR. TOTH: Right. 3 MR. BAUGHMAN: I was just curious, 4 from a design standpoint, because I hadn't seen 5 that. 6 MR. TOTH: Yeah. And it goes back 7 to -- that's what I led off with -- is that this 8 is a different application than what you're used 9 to seeing. If we started talking about the 10 water-tube boilers, you're going to hear about 11 water-tube boilers, you're going to hear about 12 fire-tube boilers. 13 MR. BAUGHMAN: Sure. 14 MR. TOTH: The introduction of the 15 feedwater into this boiler would be one of design 16 that you would see with the water-tube boiler. 17 Okay? That's going to be introduced into the 18 steam drum, and then you're going to have the 19 downcomers that would take it down through the 20 generating tubes. 21 MR. BAUGHMAN: So when this unit 22 goes into a stop mode, an emergency stop, we're 23 stopping the acid flow coming into the furnace 24 along with the firing mechanism and so forth. So 25 all of these are interlocked together. The feed</p>

<p style="text-align: right;">Page 54</p> <p>1 system, is it a modulating feedwater system?</p> <p>2 MR. TOTH: It is a modulating</p> <p>3 feedwater system.</p> <p>4 MR. BAUGHMAN: So when it goes into</p> <p>5 e-stop, we're stopping the boiler, but is an</p> <p>6 e-stop tied in with the DA also to stop the pump</p> <p>7 operation?</p> <p>8 MR. TOTH: I'm going to ask my</p> <p>9 colleague, Mr. Cash, to kind of go into the</p> <p>10 process of the interlock systems that you have in</p> <p>11 place.</p> <p>12 MR. CASH: To answer your question,</p> <p>13 sir, no. The boiler feedwater pumps are not part</p> <p>14 of that interlock system. We have a recirculation</p> <p>15 line, so once the boiler is full, the pump will</p> <p>16 recirculate back to the deaerator.</p> <p>17 MR. BAUGHMAN: So, I guess, in my</p> <p>18 question -- and there, again, quickly, without</p> <p>19 going too far down the hole, I'm interested to</p> <p>20 know, since when the boiler stops, if that</p> <p>21 modulating feedwater valve has a fail-close</p> <p>22 mechanism on it versus just being electric.</p> <p>23 There's all different types of valves on the</p> <p>24 market, but if a boiler shuts off and a feed pump</p> <p>25 is continuing to run and the valve is open, we</p>	<p style="text-align: right;">Page 55</p> <p>1 have issues with flooding the system and so forth.</p> <p>2 But there again, that's not part of what we're</p> <p>3 discussing here. So it's just the way my boiler</p> <p>4 mind works.</p> <p>5 What temperature is entering the</p> <p>6 boiler from the waste-heat mechanism stream?</p> <p>7 MR. CASH: Around 1,000-degrees</p> <p>8 Celsius.</p> <p>9 MR. BAUGHMAN: 1,000 Celsius. So</p> <p>10 with our feedwater system itself and it's</p> <p>11 modulating, the water level controls that are on</p> <p>12 this boiler, what water level controls are</p> <p>13 utilized on this system?</p> <p>14 MR. CASH: The main one for control</p> <p>15 is the Eye-Hye system. We also have two other</p> <p>16 independent level control devices, DP and a radar</p> <p>17 as well on steam pumps.</p> <p>18 MR. BAUGHMAN: Good systems. Thank</p> <p>19 you.</p> <p>20 MR. TOTH: It is. They've got --</p> <p>21 they're pretty top shelf.</p> <p>22 MR. BAUGHMAN: After 42 years of</p> <p>23 being in this, you always see something new, so</p> <p>24 that's pretty neat.</p> <p>25 MR. TOTH: It's good stuff.</p>
<p style="text-align: right;">Page 56</p> <p>1 CHAIRMAN MORELOCK: Any other</p> <p>2 questions?</p> <p>3 MR. BOWERS: Do you have</p> <p>4 circulating pumps to circulate the water off the</p> <p>5 feedwater system? Or just the feedwater?</p> <p>6 MR. TOTH: Circulate -- okay. Are</p> <p>7 you talking about circulating back to the DA or --</p> <p>8 MR. BOWERS: Yes.</p> <p>9 MR. TOTH: Well, I believe that</p> <p>10 that's off of the same feed system, is it not?</p> <p>11 It's off the same feed pumps.</p> <p>12 MR. BOWERS: Do you have a</p> <p>13 redundant system?</p> <p>14 MR. TOTH: Redundant pumps?</p> <p>15 MR. BOWERS: Yes.</p> <p>16 MR. TOTH: Yes.</p> <p>17 MR. BOWERS: Both of them electric?</p> <p>18 MR. TOTH: They are both electric.</p> <p>19 We don't have any steam. Yeah, they're both</p> <p>20 electric. And both DAs have -- the only</p> <p>21 difference that you're going to see in our DA</p> <p>22 system is one is a tray type and one is a</p> <p>23 spray-type DA.</p> <p>24 MR. BOWERS: The reason I was</p> <p>25 asking, because, you know, being my background</p>	<p style="text-align: right;">Page 57</p> <p>1 from the zinc refinery, we had circulating pumps,</p> <p>2 in case the process went down, to keep the system</p> <p>3 from --</p> <p>4 MR. TOTH: And that is the feed</p> <p>5 pumps.</p> <p>6 MR. BOWERS: Okay. And usually one</p> <p>7 was steam and one was electric in case you lost</p> <p>8 electricity.</p> <p>9 MR. TOTH: That's because you want</p> <p>10 to keep them running. I know what you guys are</p> <p>11 doing over there. I remember you.</p> <p>12 DR. HARGROVE: Mr. Brimmer, can you</p> <p>13 describe your role and responsibilities with</p> <p>14 regard to daily boiler -- or steam generator</p> <p>15 operation?</p> <p>16 MR. BRIMMER: On a daily -- I have</p> <p>17 no involvement on daily operation. I'm a project</p> <p>18 engineer for the engineering department for the</p> <p>19 plant. I also maintain the documentation and make</p> <p>20 sure the compliance is for state registration and</p> <p>21 stuff like that.</p> <p>22 DR. HARGROVE: You're going to keep</p> <p>23 up with it this time, though, right?</p> <p>24 MR. BRIMMER: Yes, sir.</p> <p>25 MR. BAUGHMAN: So where does</p>

<p style="text-align: right;">Page 58</p> <p>1 Mr. Dennis fall or --</p> <p>2 MR. BRIMMER: He's our plant</p> <p>3 superintendent.</p> <p>4 MR. BAUGHMAN: Okay. So he's the</p> <p>5 one that in the cover letter says is ultimately</p> <p>6 responsible for the continued implementation of</p> <p>7 the variance criteria.</p> <p>8 MR. BRIMMER: He's ultimately</p> <p>9 responsible for the entire plant.</p> <p>10 CHAIRMAN MORELOCK: I've got just a</p> <p>11 few nitpicky questions. Pertaining to what -- as</p> <p>12 far as responsibilities go, so the cover letter</p> <p>13 states that Mr. Foeller is responsible for the</p> <p>14 manual and the variance, and then page 1, it puts</p> <p>15 it back on the project manager. So make sure</p> <p>16 you've got your --</p> <p>17 MR. TOTH: Yes. Absolutely. I</p> <p>18 think that is a great description. As you're very</p> <p>19 aware of, in ASME National Board tri-annual</p> <p>20 reviews, the ultimate responsibility comes back to</p> <p>21 the man with the big hat. And that is -- in this</p> <p>22 case, that is Dennis. What he does then is he</p> <p>23 then assigns responsibilities out as designated.</p> <p>24 In this case of the caretaker of this</p> <p>25 manual and to ensure that it is up to date and</p>	<p style="text-align: right;">Page 59</p> <p>1 distributed properly, Mr. Brimmer has that</p> <p>2 responsibility. And that is given down through</p> <p>3 Dennis.</p> <p>4 CHAIRMAN MORELOCK: Well, and so</p> <p>5 just make sure everything says the same thing.</p> <p>6 MR. TOTH: I will make sure that's</p> <p>7 corrected.</p> <p>8 CHAIRMAN MORELOCK: In your</p> <p>9 organizational chart on page 19, one thing that's</p> <p>10 helpful, not only to the Board but to people that</p> <p>11 would look at your manual, is it's always nice --</p> <p>12 you've got a nice organizational chart. I have no</p> <p>13 issue. But to go ahead and put in parentheses or</p> <p>14 in underneath that particular job function, if</p> <p>15 they're serving as a remote attendant or a boiler</p> <p>16 attendant, go ahead and show that on your</p> <p>17 organizational chart. That way you can take a</p> <p>18 quick look and see who is responsible for what.</p> <p>19 MR. TOTH: We can do that.</p> <p>20 CHAIRMAN MORELOCK: Okay.</p> <p>21 MR. TOTH: You are aware it is,</p> <p>22 also, in the glossary of terms?</p> <p>23 CHAIRMAN MORELOCK: Yes.</p> <p>24 MR. TOTH: Okay. But we'll make</p> <p>25 sure --</p>
<p style="text-align: right;">Page 60</p> <p>1 CHAIRMAN MORELOCK: But in haste,</p> <p>2 somebody is going to go to the org chart, you</p> <p>3 know? That's where they're going to look first.</p> <p>4 MR. TOTH: We'll do that.</p> <p>5 CHAIRMAN MORELOCK: And then when</p> <p>6 you get into Appendix F for job descriptions,</p> <p>7 again, those are fine. But these documents have</p> <p>8 an accountability and performance criteria in</p> <p>9 them, and I don't see any reference to these</p> <p>10 particular people being certified as a boiler</p> <p>11 attendant or a remote attendant, so you might want</p> <p>12 to identify that.</p> <p>13 MR. TOTH: If you would look up in</p> <p>14 the first section --</p> <p>15 CHAIRMAN MORELOCK: Yes.</p> <p>16 MR. TOTH: -- if we're under</p> <p>17 SARL --</p> <p>18 CHAIRMAN MORELOCK: Right. And</p> <p>19 they're called out there. I agree.</p> <p>20 MR. TOTH: Oh, okay. Okay. So you</p> <p>21 want -- you want even --</p> <p>22 CHAIRMAN MORELOCK: Well, because</p> <p>23 this is just to honor Dr. Canonico.</p> <p>24 MR. TOTH: Yes.</p> <p>25 CHAIRMAN MORELOCK: Because he</p>	<p style="text-align: right;">Page 61</p> <p>1 always wanted that job description --</p> <p>2 MR. TOTH: Okay.</p> <p>3 CHAIRMAN MORELOCK: -- to match</p> <p>4 what's in the front of that book.</p> <p>5 MR. TOTH: Okay. So we can add to</p> <p>6 that. No problem.</p> <p>7 CHAIRMAN MORELOCK: And so most --</p> <p>8 and then this is a different type of -- the HRSG</p> <p>9 is different. I agree with you.</p> <p>10 So as far as your control and your</p> <p>11 monitoring system, typically, we'll see an</p> <p>12 Appendix B that's the equipment doing it, and then</p> <p>13 C is the fault codes, so that when these guys come</p> <p>14 in and do an inspection, if they want to see a</p> <p>15 fault code run -- so this doesn't have any fault</p> <p>16 codes at all?</p> <p>17 MR. TOTH: It doesn't have fault</p> <p>18 codes on this. Unlike what you would see in an</p> <p>19 E110 or a Honeywell 7800, it doesn't have the</p> <p>20 fault codes.</p> <p>21 CHAIRMAN MORELOCK: Okay.</p> <p>22 MR. TOTH: This particular flame</p> <p>23 safeguard does not operate in that manner.</p> <p>24 CHAIRMAN MORELOCK: Interesting.</p> <p>25 Okay.</p>

<p style="text-align: right;">Page 62</p> <p>1 MR. TOTH: And again, I agree, 2 100 percent, it's great to put those in there. 3 It's not something that is technically required 4 within the variance, per se, and it's great to 5 have them in there, but this doesn't have fault 6 codes in that. 7 CHAIRMAN MORELOCK: Well, it's a 8 two-edged sword. If you don't put them in there, 9 then you're not accountable for them, but if you 10 do, then it gives them free reign to say I want 11 you to do that. 12 MR. TOTH: Sure. Absolutely. 13 Absolutely. 14 CHAIRMAN MORELOCK: Okay. All 15 right. On page 8, under 1.b), you list "Boiler 16 Attendant." And the first two, Project Engineer 17 and Sr. Process Engineer -- but I didn't 18 understand "Lucite Personnel Listed Here." What's 19 the (3) for? 20 MR. TOTH: Oh, that was a 21 correction. 22 CHAIRMAN MORELOCK: Okay. 23 MR. TOTH: Yeah. If you saw, that 24 was a draft correction that you will see under -- 25 well, maybe I didn't put it in there. I thought I</p>	<p style="text-align: right;">Page 63</p> <p>1 had listed it. I did do a revision page for 2 Number 8. 3 CHAIRMAN MORELOCK: Okay. 4 MR. TOTH: Yes, I did. It's under 5 1.b) on the revision page. You'll see the 6 corrected titles under the draft, under 1.b). 7 CHAIRMAN MORELOCK: Okay. All 8 right. Very good. 9 MR. TOTH: And again, if I would 10 have paid closer attention -- 11 CHAIRMAN MORELOCK: No problem. 12 MR. TOTH: -- that's on me. 13 CHAIRMAN MORELOCK: No problem. So 14 how does your monitoring system prevent 15 unauthorized access? 16 MR. TOTH: I'll let Mr. Cash answer 17 that question about the process system. 18 MR. CASH: Just for my 19 clarification -- 20 CHAIRMAN MORELOCK: Well, I mean, 21 just, like, is it password protected? I mean, 22 what keeps somebody from just going in there and 23 changing settings and stuff? How do you protect 24 that? 25 MR. CASH: Oh, yeah. Our PLC is</p>
<p style="text-align: right;">Page 64</p> <p>1 password protected and requires log-in and 2 password. 3 CHAIRMAN MORELOCK: Okay. I didn't 4 read those words in the equipment description, so 5 not to say that they're not there. I just -- 6 MR. TOTH: Usually, you do see 7 those in my books, but yeah, you are absolutely 8 correct. 9 CHAIRMAN MORELOCK: That's all the 10 comments I had. 11 DR. HARGROVE: Mr. Chairman, to 12 follow up, are those passwords -- is there a 13 duration in which they remain the same, or how 14 frequently are they changed? Surely, you're not 15 using the password from two years ago. 16 MR. CASH: I would think not. I 17 personally do not have one, sir, because they keep 18 it with our engineering department. And I don't 19 know how often they change that. 20 MR. TOTH: We can find that out. 21 CHAIRMAN MORELOCK: Well, and 22 that's not a manual requirement. It is a nicety, 23 but it's not a necessity. It's a good question. 24 It's a good question. 25 MR. TOTH: It's good question. I</p>	<p style="text-align: right;">Page 65</p> <p>1 would still like to find that out. 2 CHAIRMAN MORELOCK: Any other 3 questions or comments? 4 MR. BAUGHMAN: These units being 5 2014s and 2015s, were there units that were in 6 prior to that that needs replaced? 7 MR. CASH: Yes, sir. 8 MR. TOTH: It kind of goes where I 9 was describing kind of the process of the boilers 10 were changed out, and when they were changed out, 11 that's when it came to the attention. And so 12 that's why the decision was made to present before 13 you. 14 MR. BAUGHMAN: Do we have to go 15 through any scrubbers, any types of EPA 16 requirements on our emissions, Mr. Cash? 17 MR. CASH: Yes, sir. We do have an 18 air permit. We burn our spent acid in -- SAR, 19 spent acid regeneration. So we take the spent 20 acid, combust it down to SO2 and then turn it into 21 SO3 and absorb all that back, and then ended our 22 process and recycle it around. 23 MR. BAUGHMAN: Interesting. Any 24 NOx requirements? 25 MR. CASH: We do not. No, sir.</p>

<p style="text-align: right;">Page 66</p> <p>1 MR. BAUGHMAN: Just interested in 2 that. Since we're combusting and we've got a 3 pretty good -- these are fairly good-sized 4 boilers. 5 MR. TOTH: It's fairly good-sized 6 boilers, fairly good-sized temperatures. The dew 7 point on these, whereas you would see a dew point 8 in a natural gas being somewhere in that 130, 9 140-degree range, dew point here is much higher. 10 MR. BAUGHMAN: Sure. I just didn't 11 know what the NOX requirement is since the 12 State -- you know our State requirements -- 13 MR. TOTH: Federal too. 14 MR. BAUGHMAN: -- but these are 15 well above that. And since we're combusting into 16 a boiler, I was interested to know -- 17 MR. TOTH: Well, I mean -- 18 MR. BAUGHMAN: -- from that 19 emission standpoint. 20 MR. TOTH: -- you know, the -- 21 that's a very good question. 22 MR. BAUGHMAN: Yeah. And there 23 again -- 24 MR. TOTH: And there again, it's -- 25 MR. BAUGHMAN: -- I'm sorry, not to</p>	<p style="text-align: right;">Page 67</p> <p>1 go down the rabbit hole. 2 MR. BAILEY: You've got two people 3 talking at one time. 4 MR. BAUGHMAN: Mr. Toth? 5 MR. TOTH: There again, you're 6 talking about mostly what are we doing with fossil 7 fuel burning versus spent acids. So that's where 8 you're going to find some difference. 9 MR. BAUGHMAN: And I apologize, for 10 one -- thank you, Mr. Bailey. 11 But there again, it's going down a 12 different technical area than what we're 13 addressing here. So I apologize for that. But 14 thanks for sharing it. As boiler people, this is 15 what we do, is we get involved on the technical 16 side of things. 17 CHAIRMAN MORELOCK: Any other 18 comments? 19 (No verbal response.) 20 CHAIRMAN MORELOCK: So do I have a 21 motion for this variance? 22 MR. BAUGHMAN: So moved. 23 CHAIRMAN MORELOCK: So this would 24 be a motion to approve contingent on updating your 25 manual based on comments from today's meeting and</p>
<p style="text-align: right;">Page 68</p> <p>1 a successful site visit from the Boiler Unit. 2 Do I have a second for that? 3 MR. FOX: I'll second that. 4 CHAIRMAN MORELOCK: Okay. Any more 5 discussion or comments? 6 (No verbal response.) 7 CHAIRMAN MORELOCK: Hearing none, 8 I'm going to call the question. 9 All in favor, say "aye." 10 (Affirmative response.) 11 CHAIRMAN MORELOCK: Opposed? 12 (No verbal response.) 13 CHAIRMAN MORELOCK: Abstentions, 14 not voting? 15 (No verbal response.) 16 CHAIRMAN MORELOCK: Gentlemen, you 17 have a contingently approved variance. So thank 18 you. 19 MR. TOTH: Thank you gentlemen. 20 MR. CASH: Thank you. 21 CHAIRMAN MORELOCK: Okay. That 22 concludes our old business. So now we'll start 23 our new business items, the first one being 19-1. 24 The University of Tennessee Medical Center is 25 requesting a variance for three high-pressure</p>	<p style="text-align: right;">Page 69</p> <p>1 boilers. 2 So if you'll come forward and 3 introduce yourselves. 4 MR. CHAPMAN: Chairman, I made a 5 mistake. It's not "Medical Center." It's 6 "Medical Science Center." 7 MR. BAUGHMAN: It says on the cover 8 "Medical Center." 9 CHAIRMAN MORELOCK: There is a 10 medical science center. 11 MR. CHAPMAN: Sorry about that. 12 Wrong one. 13 CHAIRMAN MORELOCK: Yeah, we're 14 good. We're good. 15 And before I turn you-all loose, is 16 there any conflicts with this item? 17 (No verbal response.) 18 CHAIRMAN MORELOCK: All right. 19 Hearing none, gentlemen, you have the floor. 20 MR. HUDGINS: I'm Ernest Hudgins 21 with the Engineering Services Group. Beside me is 22 Doug Young with the University of Tennessee 23 Medical Center. 24 MR. YOUNG: Douglas Young, 25 University of Tennessee Medical Center.</p>

<p style="text-align: right;">Page 70</p> <p>1 MR. HUDGINS: Currently, the 2 University Medical Center operates three 3 high-pressure boilers. One was recently installed 4 approximately two years ago. It's equipped with a 5 Hawk 6000 system. It's a Low NOx burner. The 6 other two, one is a Cleaver Brooks water-tube 7 boiler. Its controls were recently upgraded to 8 the Hawk 5000. The third boiler is an older B & W 9 boiler. Its controls were upgraded at the same 10 time as the Cleaver-Brooks boiler to the Hawk 5000 11 system.</p> <p>12 The purpose for requesting this 13 variance is not to reduce operating personnel, but 14 to allow the operating personnel to perform other 15 duties in the hospital during their regular 16 shifts.</p> <p>17 As far as the monitoring of the 18 boiler attendants, they are the same people that 19 are attending to the day-to-day operation of the 20 boiler today. There's not any intent of the 21 medical center to utilize security/janitorial 22 staff during off hours to attend the boiler. The 23 same people that are doing the job today under 24 current rules and regulations will be the same 25 people doing the monitoring.</p>	<p style="text-align: right;">Page 71</p> <p>1 The alarms from the boiler will be 2 transmitted via hard wire to the hospital security 3 office where the remote panel would be installed, 4 a placard installed with the emergency procedure 5 and call numbers located there.</p> <p>6 The fault codes in Appendix C, again, 7 are extensive. They include codes that would shut 8 the boiler down and, also, codes that would just 9 generate an alarm. But as far as the remote 10 station knows, it's an alarm. And when it shows 11 up, they are to shut the boilers down. The 12 University understands that if it is just a 13 nuisance code, they do not have the option of 14 ignoring that. They have to go to the 20-minute 15 rule until that nuisance code is corrected.</p> <p>16 The training and the boiler 17 attendants and the remote monitoring are addressed 18 in the manual. And I don't know -- I verified 19 mine. The drawings are in this one and, 20 hopefully, they made it in everyone's manual for 21 this one. I don't know how we got two in one and 22 not in the other. But the boiler feedwater 23 diagram is shown in Sketch 1, the boiler alarm 24 diagram and then the location of the remote 25 monitoring station in relationship to the boiler</p>
<p style="text-align: right;">Page 72</p> <p>1 house.</p> <p>2 The personnel that are responsible 3 for monitoring/attending the boiler, that is 4 their -- like with ETSU, that is their duty 5 station. It's that building.</p> <p>6 The boiler data sheets are in 7 Appendix A.</p> <p>8 Originally, the hospital had two old 9 B & W boilers. Boiler 1 has been decommissioned 10 and, since the writing of this manual, has been 11 salvaged and taken to the scrapyard.</p> <p>12 The faults, like I said, are in 13 Appendix C; the organizational diagrams in 14 Appendix D; and then the boiler monitoring log, in 15 Appendix F, we will add the column that was 16 brought up before, as far as either changing the 17 header to include the terminology that indicates 18 the water column has been blown down or a separate 19 column for that. The attendant, boiler attendant, 20 duties are all in Appendix G, as far as what their 21 responsibilities are, and then the training logs 22 and in Appendix F.</p> <p>23 One thing I just noticed when I was 24 looking through this, it had boiler attendant/ 25 security guard. That is not -- that's not</p>	<p style="text-align: right;">Page 73</p> <p>1 there -- that is a faux pas on my mistake -- on my 2 part there. That should have been taken out.</p> <p>3 Like I said, there's no intention to use security 4 personnel to attend the boiler or a janitor. It's 5 strictly boiler mechanics.</p> <p>6 CHAIRMAN MORELOCK: Do I have a 7 motion to discuss?</p> <p>8 MR. BOWERS: Motion to discuss.</p> <p>9 CHAIRMAN MORELOCK: Second?</p> <p>10 MR. BAUGHMAN: Second.</p> <p>11 CHAIRMAN MORELOCK: Okay. The 12 floor is open, gentlemen.</p> <p>13 MR. BAUGHMAN: Well, I'll start.</p> <p>14 CHAIRMAN MORELOCK: All right.</p> <p>15 MR. BAUGHMAN: So as per 16 requirement 3c on the checklist and 3a, could you 17 refer me to the cover letter requesting the 18 variance? It says it's on page 1, but I don't 19 see -- well, actually, that's the confirmation of 20 a company representative. It doesn't confirm that 21 a company representative will be here. It just 22 says that -- it lists who the person is 23 responsible for implementing the provisions of the 24 variance.</p> <p>25 MR. HUDGINS: Okay.</p>

<p style="text-align: right;">Page 74</p> <p>1 MR. BAUGHMAN: So 3c doesn't 2 confirm that the company rep will be here; 3 although, we have a gentleman here representing, 4 so I'm good with that. But I don't see the cover 5 letter in my manual. 6 MR. HUDGINS: The cover letters, we 7 did not bind those into the manual. It was sent 8 under, I guess, separate cover with the manuals. 9 But if you wish, I can add the cover letters into 10 the bound manuals that will be on site. And then, 11 also, I thought we'd caught all of them, where we 12 referenced paragraph 22 on the cover sheet of the 13 manual. And that should be 11. 14 MR. BAUGHMAN: I'm sorry. I missed 15 that. Again? 16 MR. HUDGINS: On the cover page for 17 the boiler manual, I've got paragraph 22 called 18 out, and it should be paragraph 11. 19 CHAIRMAN MORELOCK: That should be 20 08, parenthetical 11. 21 MR. HUDGINS: Just self-reporting 22 all my errors. 23 MR. BAUGHMAN: So if we could just 24 have the cover letter just because it goes into 25 all our manuals, and we're kind of sticklers for</p>	<p style="text-align: right;">Page 75</p> <p>1 attention to detail in that respect, having the 2 date on there also. 3 In Appendix A on the Boiler Data 4 Sheet, so we've decommissioned Boiler Number 1. 5 We're operating 2, 3, and 4. We've got good ole 6 B & W, 1954 boiler -- 7 MR. HUDGINS: Spring chicken. 8 MR. BAUGHMAN: -- that I have no 9 input and no output for. 10 MR. HUDGINS: Do you remember what 11 the input on that one... 12 MR. YOUNG: As far as what? 13 MR. HUDGINS: The input on the old 14 B & W. 15 MR. BAUGHMAN: Just so that we can 16 have that added in. 17 MR. HUDGINS: Okay. 18 MR. BAUGHMAN: And to follow back 19 up, in addition, Boilers 3 and 4 have no output. 20 We've got inputs but no outputs. 21 MR. HUDGINS: Okay. 22 MR. BAUGHMAN: So if we can just 23 figure that little -- 24 MR. HUDGINS: We can add that in. 25 MR. BAUGHMAN: You mentioned the</p>
<p style="text-align: right;">Page 76</p> <p>1 boilers had what controllers on them? 2 MR. HUDGINS: The newer boiler, 3 Boiler 4, is the 6000. 4 MR. BAUGHMAN: Okay. 5 MR. HUDGINS: The other two are the 6 5000s. 7 MR. BAUGHMAN: Very good. Thank 8 you. You've already addressed the water column, 9 as you said, and so you'll take care of that. 10 MR. HUDGINS: And I'll also 11 provide, similar as we did with ETSU, the data 12 sheets for the aerator types in this also. 13 MR. BAUGHMAN: Okay. 14 CHAIRMAN MORELOCK: Other comments? 15 (No verbal response.) 16 CHAIRMAN MORELOCK: I've just got a 17 few. On page 2, Roman Numeral III, it mentions a 18 physical plant troubleshooter in the first 19 sentence. But I don't see that particular job 20 classification on your organizational chart. 21 MR. HUDGINS: Initially, in the 22 development of the manual, the hospital was going 23 to use a troubleshooter, which is just like a 24 general maintenance person, to attend the boilers. 25 They decided not to.</p>	<p style="text-align: right;">Page 77</p> <p>1 CHAIRMAN MORELOCK: Okay. 2 MR. HUDGINS: I thought I had those 3 all taken out, but evidently I missed... 4 CHAIRMAN MORELOCK: Yeah, if you'll 5 just -- because -- and I didn't see a job 6 description either, so... 7 MR. HUDGINS: There's not. 8 MR. BAUGHMAN: What page was that 9 on? I'm sorry. 10 CHAIRMAN MORELOCK: The 11 troubleshooter on page 2, bottom at Roman 12 Numeral III, at the end of that first sentence. 13 MR. BAUGHMAN: It's also on page 5. 14 CHAIRMAN MORELOCK: Right. Yeah, 15 so that would be good. And I couldn't find -- the 16 manual references, on page 3, it says, "a shutdown 17 switch for each boiler, see SD-4," but I couldn't 18 find an SD-4. I know it's a sketch, but -- it may 19 be shown on an M drawing or something, but I 20 didn't see SD-4. You've got SD-1 and 2 for your 21 floor plans. And then you've got several drawings 22 that are M for boiler feed water piping and alarm 23 diagrams and things like that. But I couldn't 24 find SD-4. 25 MR. HUDGINS: That was --</p>

<p style="text-align: right;">Page 78</p> <p>1 CHAIRMAN MORELOCK: The reference 2 to it is on page 3. 3 MR. HUDGINS: It should be M2.1. 4 CHAIRMAN MORELOCK: Okay. I was 5 guessing that, but... 6 MR. HUDGINS: Yes. 7 CHAIRMAN MORELOCK: Okay. Very 8 good. 9 In your Appendix G for job 10 descriptions, you may want to consider adding the 11 responsibilities for implementing the variance and 12 training under that job description as applicable. 13 And that kind of ties into Mr. Baughman's comment 14 about the cover letter also mentioning that too, 15 so... 16 And then on page 7 -- 17 MR. HUDGINS: I hate to delay but 18 we're trying to find -- 19 CHAIRMAN MORELOCK: That's okay. 20 Like in Appendix G where you have all the job 21 descriptions listed, we want to make sure the job 22 descriptions, in addition to their assigned 23 activities, as they take on these roles as boiler 24 attendant or remote attendant or they're going to 25 be responsible for the manual or anything like</p>	<p style="text-align: right;">Page 79</p> <p>1 that, you just add that into those job 2 descriptions. Okay? 3 MR. HUDGINS: Okay. We'll do it. 4 CHAIRMAN MORELOCK: And on page 7, 5 I think you already addressed this. I think you 6 already told us about the technicians in your 7 opening presentation. 8 MR. YOUNG: Yes. 9 CHAIRMAN MORELOCK: So we just need 10 to make sure that those are taken out. So that's 11 fine. You-all addressed that. 12 MR. HUDGINS: Correct me if I'm 13 wrong, but these are the three -- these are the 14 only three people they're classifying as boilers. 15 MR. YOUNG: Yes. 16 CHAIRMAN MORELOCK: Yes. 17 And so -- and then just for my 18 information, on pages 5, 8, and 9, which is -- so 19 you're talking about restarting the boiler -- 20 again, you've got the plant troubleshooters. You 21 need to take that out because you're not using 22 them. So the boiler attendants listed as physical 23 plant troubleshooter is not allowed to restart a 24 boiler. You're not going to do that. 25 MR. HUDGINS: No.</p>
<p style="text-align: right;">Page 80</p> <p>1 CHAIRMAN MORELOCK: And then I 2 think you're going to have a similar reference on 3 pages -- yeah. You've got it on 8 and you've got 4 it on 9, as well, as far as a boiler attendant is 5 not allowed to restart a boiler unless he is also 6 classified as a boiler technician. So just -- 7 MR. HUDGINS: That sentence, we can 8 just take it out totally. 9 CHAIRMAN MORELOCK: Yeah. Okay. 10 So just take care of that. 11 This is just a comment. You don't 12 have to do anything with it. But just -- you've 13 got personal names on your emergency call list, 14 which is fine, but just know if that changes, 15 you'll have to revise that page in your manual. 16 MR. HUDGINS: And resubmit it. 17 CHAIRMAN MORELOCK: So a job title 18 would maybe be less work for you. But if you want 19 to leave it that way, it's fine. It's just a 20 comment. 21 MR. HUDGINS: Okay. 22 Do you want to take it out? 23 MR. YOUNG: We'll change that. 24 MR. HUDGINS: So that emergency 25 call list would just be -- Item 1 would be</p>	<p style="text-align: right;">Page 81</p> <p>1 Manager; 2, Physical Plant Operator Foreman -- 2 CHAIRMAN MORELOCK: Yes. And like 3 I said, I'm not going to tell you what to do. I'm 4 just -- 5 MR. YOUNG: Makes sense. 6 CHAIRMAN MORELOCK: Yes. I'm just 7 giving you some advice. And that's all the 8 comments I have. 9 Any other comments? 10 (No verbal response.) 11 CHAIRMAN MORELOCK: Okay. Hearing 12 none, do I have a motion for this particular 13 variance request? 14 MR. BAUGHMAN: I'll make the motion 15 to approve contingent upon those items we noted. 16 CHAIRMAN MORELOCK: Okay. And a 17 site visit, right? 18 MR. BAUGHMAN: A site visit. 19 I did have one question. So the 1954 20 B & W, it's still a commissioned boiler? 21 MR. YOUNG: Number 2? 22 MR. BAUGHMAN: Yes, sir. 23 MR. YOUNG: Yes, sir. 24 CHAIRMAN MORELOCK: Okay. So I 25 have a motion to contingently approve this</p>

<p style="text-align: right;">Page 82</p> <p>1 variance based upon updating the manual based on</p> <p>2 comments at the Boiler Board meeting and a</p> <p>3 successful site visit by the Boiler Unit. Do I</p> <p>4 have a second for that?</p> <p>5 MR. BOWERS: Second.</p> <p>6 CHAIRMAN MORELOCK: So I have a</p> <p>7 second. Do I have any additional comments,</p> <p>8 questions?</p> <p>9 (No verbal response.)</p> <p>10 CHAIRMAN MORELOCK: Okay. Hearing</p> <p>11 none, I'm going to call the question.</p> <p>12 All in favor, say "aye."</p> <p>13 (Affirmative response.)</p> <p>14 CHAIRMAN MORELOCK: Opposed?</p> <p>15 (No verbal response.)</p> <p>16 CHAIRMAN MORELOCK: Abstentions,</p> <p>17 not voting?</p> <p>18 (No verbal response.)</p> <p>19 CHAIRMAN MORELOCK: Gentlemen, you</p> <p>20 have a contingently approved variance.</p> <p>21 And I've got a question for</p> <p>22 everybody. Does everybody need a ten-minute</p> <p>23 break?</p> <p>24 (Affirmative response.)</p> <p>25 CHAIRMAN MORELOCK: Okay. We've</p>	<p style="text-align: right;">Page 83</p> <p>1 got a lot of ground to cover but please be back by</p> <p>2 10:45. Let's take a ten-minute break.</p> <p>3 (Recess observed.)</p> <p>4 CHAIRMAN MORELOCK: Our next item</p> <p>5 of new business is Item 19-2, the University of</p> <p>6 Tennessee Medical Center. And they're requesting</p> <p>7 a variance for 14 high-pressure boilers.</p> <p>8 MR. NEVILLE: I'm James Neville</p> <p>9 with Neville Engineering, representing the</p> <p>10 University of Tennessee Health Science Center.</p> <p>11 MR. LOGGINS: I'm Patrick R.</p> <p>12 Loggins, supervisor for the University of</p> <p>13 Tennessee Health Science Center.</p> <p>14 CHAIRMAN MORELOCK: And before you</p> <p>15 guys start your presentation, are there any</p> <p>16 conflicts with this item?</p> <p>17 (No verbal response.)</p> <p>18 CHAIRMAN MORELOCK: Okay.</p> <p>19 MR. NEVILLE: Today we're</p> <p>20 requesting a variance on 14 power boilers.</p> <p>21 This -- currently, 13 of these boilers have an</p> <p>22 existing variance, and one is a new boiler.</p> <p>23 If I can have you turn to the site</p> <p>24 plan, I can go over the new building and the new</p> <p>25 boiler that was involved.</p>
<p style="text-align: right;">Page 84</p> <p>1 CHAIRMAN MORELOCK: Mr. Neville,</p> <p>2 can I interrupt you just for a minute?</p> <p>3 MR. NEVILLE: Yes, sir.</p> <p>4 CHAIRMAN MORELOCK: So these 13</p> <p>5 existing boilers, is this just the renewal for</p> <p>6 them?</p> <p>7 MR. NEVILLE: That is correct.</p> <p>8 CHAIRMAN MORELOCK: Is there any</p> <p>9 technical change to those 13?</p> <p>10 MR. NEVILLE: There is not.</p> <p>11 CHAIRMAN MORELOCK: No technical</p> <p>12 change at all?</p> <p>13 MR. NEVILLE: That is correct.</p> <p>14 CHAIRMAN MORELOCK: Then the Boiler</p> <p>15 Unit can take care of that for you and you can</p> <p>16 proceed on with the new one.</p> <p>17 MR. NEVILLE: Okay. The issue here</p> <p>18 was they wanted to include all of them in one</p> <p>19 manual.</p> <p>20 CHAIRMAN MORELOCK: Okay.</p> <p>21 MR. NEVILLE: So that's why</p> <p>22 they're -- I mean, we have them all in one manual,</p> <p>23 so...</p> <p>24 CHAIRMAN MORELOCK: Okay. Then</p> <p>25 that's fine.</p>	<p style="text-align: right;">Page 85</p> <p>1 MR. NEVILLE: Technically, I guess,</p> <p>2 then, this is one new boiler.</p> <p>3 CHAIRMAN MORELOCK: Okay.</p> <p>4 MR. NEVILLE: The rest will be</p> <p>5 updated when he does the inspection.</p> <p>6 MR. BLAIN: Fair enough. I just</p> <p>7 wanted to clarify that.</p> <p>8 MR. NEVILLE: Okay. If you'll turn</p> <p>9 to the site plan on page 2, the new building that</p> <p>10 is being added to the system is in the lower</p> <p>11 right-hand corner, Building 44, which is the Good</p> <p>12 Manufacturing Process Building. They purchased</p> <p>13 this building, and they have added the -- an</p> <p>14 electric boiler to this building. It is a</p> <p>15 40 horsepower boiler. We identify that in</p> <p>16 Appendix A. A-5 is the details on that. That's</p> <p>17 the Sussman boiler. Again, that is an electric</p> <p>18 boiler.</p> <p>19 And one of the things that we can add</p> <p>20 now to this, this has been added to the building</p> <p>21 management system, which is a Medisys system. And</p> <p>22 so we can add that to the notes, that this is part</p> <p>23 of the Medisys building management system.</p> <p>24 Appendix B-1 also lists that boiler</p> <p>25 and details on that boiler. It has immersion</p>

<p style="text-align: right;">Page 86</p> <p>1 elements, as far as the electric boiler on that.</p> <p>2 As far as I know, there's no method</p> <p>3 for changing any of the parameters. It's really</p> <p>4 not password protected. But it's just hard-coded</p> <p>5 into the controller. So I wasn't sure how to</p> <p>6 identify that. But that's -- that is --</p> <p>7 CHAIRMAN MORELOCK: So you can't</p> <p>8 make any adjustments or changes or anything to it?</p> <p>9 MR. NEVILLE: No.</p> <p>10 CHAIRMAN MORELOCK: It's just plug</p> <p>11 and play?</p> <p>12 MR. NEVILLE: Right.</p> <p>13 CHAIRMAN MORELOCK: Okay.</p> <p>14 MR. NEVILLE: So as far as the</p> <p>15 individuals that will be monitoring these boilers,</p> <p>16 the boiler attendant is still the senior power</p> <p>17 plant operator, and the individuals at the remote</p> <p>18 station are, again, the senior power plant</p> <p>19 operator, the boiler operation supervisor, and the</p> <p>20 HVAC operation supervisor. So those three</p> <p>21 individuals' job descriptions will be monitoring</p> <p>22 it remotely.</p> <p>23 These boilers are -- the remote</p> <p>24 station for all 14 boilers is in the general</p> <p>25 education building, the GMB control room, as</p>	<p style="text-align: right;">Page 87</p> <p>1 identified on the site plan. And each one of</p> <p>2 those buildings, of course, has different lengths</p> <p>3 that are identified in the site plan.</p> <p>4 Are there any questions regarding</p> <p>5 this?</p> <p>6 CHAIRMAN MORELOCK: So do I have a</p> <p>7 motion to discuss this item?</p> <p>8 MR. FOX: I make a motion to</p> <p>9 discuss.</p> <p>10 MR. BAUGHMAN: Second.</p> <p>11 CHAIRMAN MORELOCK: Okay.</p> <p>12 MR. FOX: I do have a question for</p> <p>13 you.</p> <p>14 MR. NEVILLE: Yes?</p> <p>15 MR. FOX: The new building,</p> <p>16 Building 44 on the site plan, we're looking at</p> <p>17 approximately 1400 foot of distance between it and</p> <p>18 the control room?</p> <p>19 MR. NEVILLE: Yes.</p> <p>20 MR. FOX: How are the remote</p> <p>21 shutoffs tied in?</p> <p>22 MR. LOGGINS: They're hardwired.</p> <p>23 MR. FOX: They're hardwired?</p> <p>24 MR. LOGGINS: Yeah. You have an</p> <p>25 automatic shutoff outside of the door, entering</p>
<p style="text-align: right;">Page 88</p> <p>1 into where the boiler is located. Is that what</p> <p>2 you're asking me?</p> <p>3 MR. FOX: That's not what I'm</p> <p>4 following.</p> <p>5 MR. NEVILLE: No. The --</p> <p>6 MR. FOX: The remote shutoff</p> <p>7 station --</p> <p>8 MR. NEVILLE: Yes.</p> <p>9 MR. FOX: -- it is hardwired 1400</p> <p>10 foot from one building to another?</p> <p>11 MR. LOGGINS: No. I think that's</p> <p>12 going to be through the Medisys system, and they</p> <p>13 use a point of input and output. So they put the</p> <p>14 controller -- if I'm saying it right, they have</p> <p>15 the controller that reads that signal that is</p> <p>16 monitored in the GEB by an attendant. So he</p> <p>17 actually sees the boiler, actually what it's</p> <p>18 doing, the whole nine yards.</p> <p>19 MR. NEVILLE: Right. So that</p> <p>20 distance is covered by the Medisys system, the</p> <p>21 controller.</p> <p>22 MR. FOX: Okay.</p> <p>23 CHAIRMAN MORELOCK: Any other</p> <p>24 questions?</p> <p>25 MR. BAUGHMAN: Yes, sir.</p>	<p style="text-align: right;">Page 89</p> <p>1 CHAIRMAN MORELOCK: Go right ahead,</p> <p>2 Mr. Baughman.</p> <p>3 MR. BAUGHMAN: How did the electric</p> <p>4 boiler enunciate its alarms?</p> <p>5 MR. LOGGINS: How does it --</p> <p>6 actually, you have an alarm that comes on at the</p> <p>7 GEB, and it's actually an audible alarm inside of</p> <p>8 the boiler room itself. So you have two. You</p> <p>9 actually can hear the alarm from within the boiler</p> <p>10 room. And that alarm, also, is signaled over to</p> <p>11 the GEB.</p> <p>12 MR. NEVILLE: And there are three</p> <p>13 shutoff alarms on that. You have a low-water</p> <p>14 cutoff, high-steam pressure, and auxiliary low</p> <p>15 water. And C-2 shows those alarms.</p> <p>16 DR. HARGROVE: (Indicating.)</p> <p>17 CHAIRMAN MORELOCK: Dr. Hargrove,</p> <p>18 did you have a comment?</p> <p>19 DR. HARGROVE: Yeah. The point</p> <p>20 made earlier about the management system</p> <p>21 plug-and-play term that was used, does that</p> <p>22 present unauthorized access to that system?</p> <p>23 MR. LOGGINS: No, sir.</p> <p>24 DR. HARGROVE: It does not? And</p> <p>25 how is that prevented?</p>

<p style="text-align: right;">Page 90</p> <p>1 MR. LOGGINS: Each individual 2 station engineer has their own log-in/log-out. 3 DR. HARGROVE: Each individual... 4 MR. LOGGINS: Station engineer has 5 their own log-in and log-out. So when that person 6 works from 6:00 to 2:00, that's the person that's 7 responsible. I think I'm answering that 8 correctly. 9 CHAIRMAN MORELOCK: So that would 10 be password protected. 11 MR. LOGGINS: Yes. 12 DR. HARGROVE: Because the 13 individual has access. 14 MR. NEVILLE: Now, as far as the 15 local controller on the -- 16 MR. LOGGINS: System itself. 17 MR. NEVILLE: -- boiler, that 18 doesn't have a log-in. What has a log-in and that 19 we're talking about here is the EMS at the 20 remote -- at the Medisys system, has a log-in that 21 is password protected. 22 DR. HARGROVE: Yes, sir. Thank you 23 for that clarification. 24 MR. BAUGHMAN: What feedwater 25 system are we utilizing on the electric boiler? I</p>	<p style="text-align: right;">Page 91</p> <p>1 don't see it necessarily identified. I see where 2 it says electronic feedwater control, but I was 3 just curious as far as what system we were feeding 4 water to that unit with. 5 MR. NEVILLE: On page E-13, 6 Appendix E-13 -- 7 MR. BAUGHMAN: E-13? I'm sorry. 8 MR. NEVILLE: E-13 would show the 9 feedwater system on that boiler. 10 MR. BAUGHMAN: Which page on the -- 11 MR. NEVILLE: E-13. It's going to 12 show the Sussman electric boiler. 13 MR. BAUGHMAN: And just as I was 14 going through, I had found that, and I just didn't 15 correlate that page with the electric, even though 16 it says the electric on there. 17 So one other technical question. And 18 I know, hopefully, what the answer will be. But 19 the particular controls on the boilers have a 20 remote set point option available. We would not 21 be utilizing that in any respect, correct? 22 MR. NEVILLE: That's correct. 23 MR. BAUGHMAN: Okay. Just had to 24 ask. 25 CHAIRMAN MORELOCK: Any other</p>
<p style="text-align: right;">Page 92</p> <p>1 comments or questions? 2 MR. TOTH: I have a question, just 3 because of doing these. I just needed 4 clarification. Because the connectivity that 5 we're talking about, as Mr. Fox alluded to the 6 1400 feet, and we're utilizing the Medisys system, 7 are we allowing that as a hardwire connection 8 versus that's a network-based connection? Not to 9 really throw you guys under, but, I mean, I have 10 clients all the time that are rewiring systems 11 because a network system like that was never 12 classified as a hardwired system. That's just my 13 question. I'm sorry. 14 CHAIRMAN MORELOCK: No. That's a 15 fair question. 16 MR. TOTH: I don't mean to -- I 17 just know from -- I've got a client right here 18 that has the same thing. 19 MR. FOX: I mean, if your Medisys 20 system goes down, your network goes down, what 21 protection do you have? 22 MR. LOGGINS: Actually, what we do 23 and had that happen, what you have to do is you 24 have to have that rover engineer do more checks at 25 the building. So what you have is, like, every</p>	<p style="text-align: right;">Page 93</p> <p>1 25, 30 minutes they just continuously run the 2 campus, just continue to run the campus. So also 3 what we do if we see that that's going to be the 4 case, we can bring in another individual to assist 5 that rover engineer that's on duty, if that's the 6 situation, if that case happened. And it has. 7 MR. BAUGHMAN: And you say that has 8 happened? 9 MR. LOGGINS: Yes. But that was 10 actually in our central location, so we actually 11 could go straight downstairs into the boiler room 12 and see what was going on with the boiler. 13 MR. NEVILLE: So if the Medisys 14 system does go down, they are not on the variance 15 anymore. They have to monitor those boilers every 16 20 minutes. 17 MR. LOGGINS: Every 20 minutes. 18 MR. BAUGHMAN: Which means you have 19 to bring in an extra person now, because one man 20 cannot -- 21 MR. LOGGINS: Oh, no. That's 22 impossible, 44 buildings. If we're lucky, we can 23 get a third, you know, the availability of the 24 person, so... 25 MR. BAUGHMAN: Well, that's an</p>

<p style="text-align: right;">Page 94</p> <p>1 issue in itself, but yeah.</p> <p>2 CHAIRMAN MORELOCK: Well, I guess,</p> <p>3 to Mr. Toth's question, what he's alluding to is</p> <p>4 we -- I'm pretty sure our checklist requires it to</p> <p>5 be hardwired; is that not correct? Isn't that a</p> <p>6 part of the checklist?</p> <p>7 (No verbal response.)</p> <p>8 CHAIRMAN MORELOCK: Your boiler</p> <p>9 stop has to be hardwired, from the remote station</p> <p>10 to the boiler. So do you have that hardwired?</p> <p>11 (No verbal response.)</p> <p>12 CHAIRMAN MORELOCK: So, I mean, if</p> <p>13 that person hits that e-stop on that remote, it's</p> <p>14 going to shut that boiler down, and it's hardwired</p> <p>15 to do that, right?</p> <p>16 MR. LOGGINS: Correct.</p> <p>17 CHAIRMAN MORELOCK: Okay. So...</p> <p>18 MR. LOGGINS: And you're going to</p> <p>19 get a signal to the GEB that that boiler is shut</p> <p>20 down.</p> <p>21 MR. BOWERS: No. We're not talking</p> <p>22 about the e-stop at the door. We're talking about</p> <p>23 at the central -- wherever the remote station is,</p> <p>24 1500 foot away --</p> <p>25 MR. LOGGINS: And you can shut it</p>	<p style="text-align: right;">Page 95</p> <p>1 down from there as well.</p> <p>2 MR. BOWERS: -- is that hardwired</p> <p>3 that that security guard or whoever it is can shut</p> <p>4 that boiler down? Is that hardwired?</p> <p>5 CHAIRMAN MORELOCK: Right.</p> <p>6 MR. BOWERS: We're not talking</p> <p>7 about the one at the door. We're talking about</p> <p>8 the remote one.</p> <p>9 MR. LOGGINS: I would say no.</p> <p>10 That's a long run. I could check into it, but</p> <p>11 from Building Number 44 back to the GEB? Man, I</p> <p>12 would say no. You're talking about hardwired?</p> <p>13 You're going across, like, five or six different</p> <p>14 streets to get to that location. So I could check</p> <p>15 on it, but...</p> <p>16 CHAIRMAN MORELOCK: Well, I mean,</p> <p>17 the danger is, you know -- I mean, the whole</p> <p>18 purpose of the remote system is to free up the</p> <p>19 boiler attendants. And if they're busy and they</p> <p>20 need to shut that boiler down and it's not</p> <p>21 hardwired, they may or may not be able to shut the</p> <p>22 boiler down, correct?</p> <p>23 MR. BAUGHMAN: Not at the remote</p> <p>24 station.</p> <p>25 CHAIRMAN MORELOCK: Right.</p>
<p style="text-align: right;">Page 96</p> <p>1 MR. LOGGINS: But we have a spot on</p> <p>2 the boiler that gives the ability to shut it down</p> <p>3 from the control room. Now, it's going through a</p> <p>4 network, but I don't know about hardwire.</p> <p>5 MR. NEVILLE: So that's what...</p> <p>6 MR. LOGGINS: I'll have to check</p> <p>7 that out. That's a new one.</p> <p>8 CHAIRMAN MORELOCK: But I think</p> <p>9 it's been required that we do that. It may not be</p> <p>10 on the checklist, but that's what I'm trying to --</p> <p>11 I've got to -- we'll have to get to the bottom of</p> <p>12 that. But we have required those to be hardwired,</p> <p>13 if I'm not mistaken. That's correct, right?</p> <p>14 MR. O'GUIN: Yes.</p> <p>15 CHAIRMAN MORELOCK: Okay.</p> <p>16 MR. BAUGHMAN: So how do we address</p> <p>17 that if it's not?</p> <p>18 MR. NEVILLE: So that would be one</p> <p>19 of the requirements, to have a variance on this</p> <p>20 boiler is that that shutoff be hardwired; is that</p> <p>21 correct?</p> <p>22 CHAIRMAN MORELOCK: Well, that's</p> <p>23 the concern. I understand the concern.</p> <p>24 MR. NEVILLE: About every 300 feet</p> <p>25 there will have to be a transformer.</p>	<p style="text-align: right;">Page 97</p> <p>1 MR. BOWERS: That thing is kind of</p> <p>2 like a satellite on its own, and you just can't</p> <p>3 let it be out there by itself without controls.</p> <p>4 And you can't depend on the network. Anything can</p> <p>5 happen on a network. I think that was originally</p> <p>6 the purpose of looking at these variances that</p> <p>7 would have control. And if you lose a network,</p> <p>8 you lose control. And so I can see where it has</p> <p>9 to be hardwired into there so someone can shut</p> <p>10 that boiler down if they have a problem.</p> <p>11 CHAIRMAN MORELOCK: I mean, the 13</p> <p>12 existing boilers, they're hardwired with e-stops,</p> <p>13 right?</p> <p>14 MR. NEVILLE: Right. And they have</p> <p>15 shorter distances as well on some of them.</p> <p>16 CHAIRMAN MORELOCK: I mean, I</p> <p>17 understand that, but, I mean, it's -- I mean</p> <p>18 you've got 13 examples of hardwire.</p> <p>19 MR. NEVILLE: Right.</p> <p>20 CHAIRMAN MORELOCK: Okay.</p> <p>21 MR. O'GUIN: Chairman?</p> <p>22 CHAIRMAN MORELOCK: Yes?</p> <p>23 MR. O'GUIN: Number 19 on the</p> <p>24 checklist, I think, covers the hardwire.</p> <p>25 CHAIRMAN MORELOCK: 19?</p>

<p style="text-align: right;">Page 98</p> <p>1 DR. HARGROVE: Yes.</p> <p>2 CHAIRMAN MORELOCK: It talks about</p> <p>3 "hardware." It doesn't say "hardwire."</p> <p>4 Well, gentlemen, this may be one of</p> <p>5 those things that we assumed that everybody would</p> <p>6 do it hardwired. If we need to add it to the</p> <p>7 checklist, we can. But, I mean, you know, you've</p> <p>8 got 13 boilers that are hardwired and --</p> <p>9 MR. NEVILLE: Right.</p> <p>10 CHAIRMAN MORELOCK: Now, that comes</p> <p>11 back on us. If we need to add a specific item to</p> <p>12 the checklist to spell it out that it's mandatory</p> <p>13 to be hardwired, we can do that.</p> <p>14 But I think the longstanding</p> <p>15 understanding is that you do hardwire that e-stop.</p> <p>16 MR. BAUGHMAN: And we need to make</p> <p>17 that part of our information that's available out</p> <p>18 to the industry.</p> <p>19 CHAIRMAN MORELOCK: Yes.</p> <p>20 MR. BAUGHMAN: But all the other</p> <p>21 boilers are, in fact, hardwired, Mr. Neville?</p> <p>22 MR. NEVILLE: That is my</p> <p>23 understanding, yes. I mean, I can check all of</p> <p>24 them and verify that.</p> <p>25 MR. BAUGHMAN: Do you know,</p>	<p style="text-align: right;">Page 99</p> <p>1 yourself?</p> <p>2 MR. LOGGINS: I would do the same</p> <p>3 and check. I don't want to go out on a limb and</p> <p>4 say yes. But I'm quite sure that it is, because</p> <p>5 this is just something new to me as well, with the</p> <p>6 hardwire from Building Number 44. And, you know,</p> <p>7 this gentleman brought it up, so, you know, that's</p> <p>8 something that we've just got to look into and get</p> <p>9 it done.</p> <p>10 CHAIRMAN MORELOCK: Any other</p> <p>11 questions or comments?</p> <p>12 (No verbal response.)</p> <p>13 CHAIRMAN MORELOCK: I just had some</p> <p>14 editorials. Make sure all the job titles</p> <p>15 throughout your manual are consistent. And like</p> <p>16 we talked about on the previous variance, you've</p> <p>17 got names on the emergency call list, which is</p> <p>18 fine. But, again, if that person changes jobs,</p> <p>19 you'll have to revise the manual. So can you use</p> <p>20 names or you can use job titles, and I'll leave</p> <p>21 that up to you. And you've answered all my other</p> <p>22 comments. So that's all I have.</p> <p>23 So what do you want to do with this</p> <p>24 variance? What do you want to do with it?</p> <p>25 MR. NEVILLE: We would like to</p>
<p style="text-align: right;">Page 100</p> <p>1 propose this variance with hardwired remote</p> <p>2 shutoff at the remote station, and that will have</p> <p>3 to be put in and verified that that's a hardwire</p> <p>4 shutoff.</p> <p>5 MR. BAUGHMAN: You made the comment</p> <p>6 that that has to go across how many streets?</p> <p>7 And --</p> <p>8 MR. NEVILLE: It will take a while</p> <p>9 to have that put in, for sure.</p> <p>10 MR. BAUGHMAN: Being that it will</p> <p>11 take a while, that means that the site visit won't</p> <p>12 be scheduled until that's actually accomplished.</p> <p>13 So you will have to operate, until that time,</p> <p>14 under the 20-minute rule.</p> <p>15 MR. NEVILLE: That is correct.</p> <p>16 MR. LOGGINS: For the GMP?</p> <p>17 MR. NEVILLE: For a GMP.</p> <p>18 MR. LOGGINS: Okay.</p> <p>19 CHAIRMAN MORELOCK: Well, and so</p> <p>20 when is variance on the 13 existing boilers up for</p> <p>21 renewal?</p> <p>22 MR. NEVILLE: I can verify that.</p> <p>23 CHAIRMAN MORELOCK: Because if you</p> <p>24 want to put them all together and we approve it,</p> <p>25 then all 14 are going to come under the same</p>	<p style="text-align: right;">Page 101</p> <p>1 requirement of the 20-minute rule. So you may</p> <p>2 want to leave the 13 on the other variance --</p> <p>3 MR. NEVILLE: Right.</p> <p>4 CHAIRMAN MORELOCK: -- and then get</p> <p>5 a variance on this one, or you could actually run</p> <p>6 with the other variance with the 13 until you get</p> <p>7 this electric boiler ready.</p> <p>8 MR. NEVILLE: Right.</p> <p>9 CHAIRMAN MORELOCK: And then you</p> <p>10 could do what you're doing today, is to add this</p> <p>11 14th boiler to your existing variance.</p> <p>12 MR. NEVILLE: Yes. That's what we</p> <p>13 would like to do.</p> <p>14 MR. LOGGINS: That will be fine.</p> <p>15 CHAIRMAN MORELOCK: Okay. So what</p> <p>16 I -- so correct me if I'm wrong, but from what I</p> <p>17 understand your desire is, you would like to get</p> <p>18 contingent approval for 14 vessels on a revised</p> <p>19 variance, because you're going to add the electric</p> <p>20 boiler to the other 13, and that will be</p> <p>21 contingent on corrections made to the manual based</p> <p>22 on comments to this meeting, hardwiring the e-stop</p> <p>23 to the new electric boiler, and a successful site</p> <p>24 visit by the Boiler Unit; is that correct?</p> <p>25 MR. NEVILLE: That's correct.</p>

<p style="text-align: right;">Page 102</p> <p>1 MR. LOGGINS: That's correct.</p> <p>2 MR. BOWERS: I also want them to</p> <p>3 confirm that the other 13 boilers are hardwired.</p> <p>4 CHAIRMAN MORELOCK: Okay. And</p> <p>5 confirm the other 13 boilers are hardwired. So do</p> <p>6 I have a motion to that effect?</p> <p>7 MR. BOWERS: I set the motion.</p> <p>8 CHAIRMAN MORELOCK: Okay. Do I</p> <p>9 have a second?</p> <p>10 DR. HARGROVE: I second.</p> <p>11 CHAIRMAN MORELOCK: Any more</p> <p>12 discussion?</p> <p>13 (No verbal response.)</p> <p>14 CHAIRMAN MORELOCK: Okay. I'm</p> <p>15 going to call the question. All in favor say</p> <p>16 "aye."</p> <p>17 (Affirmative response.)</p> <p>18 CHAIRMAN MORELOCK: Any opposed?</p> <p>19 (No verbal response.)</p> <p>20 CHAIRMAN MORELOCK: Abstentions,</p> <p>21 not voting?</p> <p>22 (No verbal response.)</p> <p>23 CHAIRMAN MORELOCK: Gentlemen, you</p> <p>24 have a contingently approved variance.</p> <p>25 MR. NEVILLE: Thank you.</p>	<p style="text-align: right;">Page 103</p> <p>1 CHAIRMAN MORELOCK: All right. Our</p> <p>2 next item is 19-3. Leclerc Foods is requesting a</p> <p>3 variance for one high-pressure boiler.</p> <p>4 Are there any conflicts of interest</p> <p>5 for this particular item?</p> <p>6 (No verbal response.)</p> <p>7 CHAIRMAN MORELOCK: Okay.</p> <p>8 Gentlemen, you may proceed.</p> <p>9 MR. NEVILLE: Again, I'm James</p> <p>10 Neville with Neville Engineering.</p> <p>11 MR. BOWERY: Dustin Bowery with</p> <p>12 Leclerc foods.</p> <p>13 MR. NEVILLE: Leclerc Foods is</p> <p>14 located Kingsport, Tennessee. They package snack</p> <p>15 bars typically made from nuts. They're requesting</p> <p>16 a boiler variance for one boiler. This boiler is</p> <p>17 located in their boiler room, as shown on Figure 1</p> <p>18 on the site plan. And the remote station is</p> <p>19 located near their process line on -- that's</p> <p>20 identified as approximately 85 feet from the</p> <p>21 boiler. That process line, the individuals,</p> <p>22 there's a line operator and a mixer that are</p> <p>23 within the vicinity of that remote station that</p> <p>24 are monitoring it. This boiler is only operated</p> <p>25 when that line is in operation. It's dedicated</p>
<p style="text-align: right;">Page 104</p> <p>1 strictly for that line.</p> <p>2 The boiler attendant is a maintenance</p> <p>3 technician, and as far as the qualifications of</p> <p>4 that maintenance technician, I'll let Dustin go</p> <p>5 over the details of how they qualify that</p> <p>6 maintenance technician.</p> <p>7 MR. BOWERY: We just had an outside</p> <p>8 local company come in and send each person through</p> <p>9 a training course.</p> <p>10 MR. BAILEY: Could you speak up a</p> <p>11 little bit.</p> <p>12 MR. BOWERY: Sorry.</p> <p>13 CHAIRMAN MORELOCK: All right. Do</p> <p>14 I have a motion to discuss?</p> <p>15 MR. BAUGHMAN: So moved.</p> <p>16 MR. BOWERS: Second.</p> <p>17 CHAIRMAN MORELOCK: What comments</p> <p>18 does the Board have?</p> <p>19 DR. HARGROVE: Can you describe,</p> <p>20 just for information, the training that's</p> <p>21 involved? You mentioned that someone comes in and</p> <p>22 provides that training over a period of time. To</p> <p>23 your knowledge, can you describe the duration and</p> <p>24 who has provided that training, maybe, within the</p> <p>25 last year or so?</p>	<p style="text-align: right;">Page 105</p> <p>1 MR. BOWERY: We're actually doing a</p> <p>2 two-day training currently. And it's with Boiler</p> <p>3 Supply Company, is the name of the facility in our</p> <p>4 area. And they come in and they just do, like, a</p> <p>5 basic understanding of boilers, how to interpret</p> <p>6 what needs to be done, if there's a fault, how to</p> <p>7 correct any issues. But nothing as far as</p> <p>8 maintenance-related, replacing any parts or</p> <p>9 anything like that. Just basic boiler operations.</p> <p>10 DR. HARGROVE: Does the mixer, as</p> <p>11 defined in the title, does that person participate</p> <p>12 in that training?</p> <p>13 MR. BOWERY: Yes. We have them,</p> <p>14 maintenance, the line operators, and then the</p> <p>15 plant supervisor that is over that plant. We have</p> <p>16 two separate plants that are operated as separate</p> <p>17 entities. So that main person that's over that</p> <p>18 facility is in that training as well.</p> <p>19 DR. HARGROVE: Thank you.</p> <p>20 MR. BOWERY: Yes, sir.</p> <p>21 CHAIRMAN MORELOCK: Other comments?</p> <p>22 MR. BAUGHMAN: On the boiler</p> <p>23 emergency call list, page 11, it lists one job</p> <p>24 title, production manager. Page 9 refers to this</p> <p>25 call list. In particular, "If the remote station</p>

<p style="text-align: right;">Page 106</p> <p>1 personnel is unable to communicate with the boiler 2 attendant, they shall call the successive 3 individuals on the emergency call list. I'm 4 taking they will call the production manager over 5 and over and over? Or --</p> <p>6 MR. NEVILLE: That is correct. So 7 since this is a dedicated line -- the boiler is 8 dedicated to the line -- if the maintenance is not 9 able to be reached for some reason, the only other 10 person to call would be the production manager at 11 that facility. So is that clear?</p> <p>12 MR. BAUGHMAN: Yes. And I would 13 assume there is a production more for each shift 14 or --</p> <p>15 MR. BOWERY: It's one shift and 16 he's there at all times. If he's out for 17 vacation, sick, whatever, there's a replacement 18 there for him.</p> <p>19 MR. BAUGHMAN: Very good. 20 Part of your safety for your 21 personnel working on the production line, I take 22 it, is probably hair nets and so forth?</p> <p>23 MR. BOWERY: Yes, that's right.</p> <p>24 MR. BAUGHMAN: Ear protection?</p> <p>25 MR. BOWERY: At this facility, no.</p>	<p style="text-align: right;">Page 107</p> <p>1 MR. BAUGHMAN: No ear protection. 2 MR. BOWERY: No, sir. 3 MR. BAUGHMAN: So page 5 mentions 4 the remote station will be continuously staffed, 5 but it's not so much continually staffed as it is 6 it's in a particular location and people are 7 working around it.</p> <p>8 MR. NEVILLE: Right. So any time 9 the boiler would be on, the process line would be 10 staffed.</p> <p>11 MR. BAUGHMAN: Okay. So when we 12 have a boiler shutdown, if we have a boiler 13 shutdown, it enunciates back through a light 14 that's on a panel?</p> <p>15 MR. BOWERY: Yes, sir. 16 MR. BAUGHMAN: And it also 17 enunciates via a hardwired alarm.</p> <p>18 MR. BOWERY: Yes, sir. 19 MR. BAUGHMAN: But it's not 20 staffed, so personnel would have to be looking 21 periodically at this station.</p> <p>22 MR. BOWERY: Yeah, I would think 23 so.</p> <p>24 MR. BAUGHMAN: Yeah. And my 25 concern is if we lose the audible alarm for</p>
<p style="text-align: right;">Page 108</p> <p>1 whatever reason. It's a manmade device. And so I 2 guess my concern is that the remote station is not 3 being continuously actually manned. It's more of 4 an enunciation station, that if we have an alarm, 5 we're going to get an audible and a visual. I 6 don't know if that quite meets the criteria of 7 what we're --</p> <p>8 MR. NEVILLE: That panel is right 9 adjacent to the line. So, you know, if that 10 boiler is operating, you know, there are 11 individuals on the line, multiple individuals on 12 the line.</p> <p>13 MR. BAUGHMAN: Well, the line stops 14 periodically. I take it that people go on break. 15 They're not at the line for hours and hours 16 without a break.</p> <p>17 MR. BOWERY: They do take breaks, 18 but there's always relief. It's a constant flow 19 process and never shut down.</p> <p>20 MR. BAUGHMAN: Okay.</p> <p>21 MR. BOWERY: And when it is shut 22 down, the boiler is down as well, so relief is 23 always there.</p> <p>24 MR. BAUGHMAN: Very good. Do you 25 see where I'm --</p>	<p style="text-align: right;">Page 109</p> <p>1 MR. BOWERY: Yeah. Sorry for not 2 clarifying.</p> <p>3 MR. BAUGHMAN: No. That's okay. 4 I'm just trying to visualize since I've not been 5 in the facility of having a remote station that is 6 not continuously manned.</p> <p>7 MR. BOWERY: Okay.</p> <p>8 CHAIRMAN MORELOCK: Yeah, but 9 wouldn't this be similar to a security guard or a 10 secretary or somebody, that they would be typing 11 memos, sending out emails, and here is the remote 12 monitor? So wouldn't it be the same thing? I 13 mean, it is different. I agree because it's like 14 a production. But it's really the -- I think what 15 you're trying to say is your field of vision and 16 hearing is going to be similar to what we're 17 traditionally seeing as a remote station because 18 you're sitting here operating this line, but that 19 remote monitoring station is, like, right in your 20 field of vision; is that correct?</p> <p>21 MR. BOWERY: Yes.</p> <p>22 MR. NEVILLE: Right. I mean, it's 23 within ten feet of an operator at all times.</p> <p>24 MR. BAUGHMAN: Well, by the site 25 drawing, that's what I was trying to get an idea</p>

<p style="text-align: right;">Page 110</p> <p>1 of, was looking at remote station and boiler room 2 and how that all coincided. So not being 3 familiar, I needed to ask the questions. 4 So how are the faults actually 5 enunciated on the Honeywell RM7897A programmer? I 6 see that Appendix C shows the Fault List taken 7 from a drawing that was titled. 8 MR. NEVILLE: Yes. 9 MR. BAUGHMAN: But how are they 10 actually enunciated at the job site? 11 MR. NEVILLE: I mean, in 12 enunciating, it's got an audible enunciator at the 13 remote station. Alarm messages are not sent back 14 to that, but there is an audible alarm and a 15 visual alarm and an e-stop at that -- 16 MR. BAUGHMAN: So it's not going to 17 identify necessarily what the fault code was. 18 It's that strictly enunciating that we've got an 19 alarm. 20 MR. NEVILLE: Yes. A shutdown 21 alarm. 22 MR. BAUGHMAN: Well, and that's why 23 I was a little confused, because it gave us the 24 fault list on what the alarms were but I didn't 25 see the mechanism to enunciate those particular</p>	<p style="text-align: right;">Page 111</p> <p>1 alarms. 2 MR. NEVILLE: Yes. 3 MR. BAUGHMAN: And that's fine. I 4 just was curious to know how we were tying that 5 in. 6 CHAIRMAN MORELOCK: Any other 7 comments? 8 (No verbal response.) 9 CHAIRMAN MORELOCK: Just one -- I 10 guess a couple of things I'd note, is if you look 11 at your organizational chart in Appendix D and if 12 you read through the personnel requirements on 13 various pages, on page 5 -- this is just a typo 14 kind of thing -- but that last sentence says, 15 "While the variance is in effect, if the remote 16 station personnel must for any reason leave their 17 post, the boiler operator must attend the boiler 18 per the rule." 19 Should that say "boiler attendant," 20 just to be consistent with your terminology? 21 MR. NEVILLE: That should. That 22 should. 23 CHAIRMAN MORELOCK: And then, when 24 you look at your organizational chart, the line 25 operator and the mixer both are shown as remote</p>
<p style="text-align: right;">Page 112</p> <p>1 station attendants. 2 MR. NEVILLE: Correct. 3 CHAIRMAN MORELOCK: But then when 4 you look at their job functions in Appendix G, the 5 line operator, the last line says, "when 6 scheduled, performs the duty of the boiler 7 attendant." And I'm assuming that would be remote 8 attendant, correct? 9 MR. NEVILLE: That would be a 10 remote attendant. Correct. 11 CHAIRMAN MORELOCK: And the same 12 thing for the mixer as well, right? 13 MR. NEVILLE: That is correct. 14 CHAIRMAN MORELOCK: Okay. On 15 page 7 for training, it just says, "The 16 Engineering Controls Technician shall be 17 responsible for training all incoming personnel 18 assigned to boiler operations and for keeping a 19 documentation log of initial training and annual 20 training thereafter." 21 But the boiler attendants, it just 22 says, "shall be familiarized with the emergency 23 procedures." And I think you want to maybe add a 24 little more to actually what you're doing, 25 especially if you're bringing in outside subject</p>	<p style="text-align: right;">Page 113</p> <p>1 matter experts to train you. You don't 2 necessarily have to list a specific name in the 3 manual, but I would put a little more detail in 4 there that you are having initial training and 5 annual training. 6 Under normal duties on page 8, you're 7 talking about, "If the boiler system is not 8 functioning properly, a Boiler Attendant shall 9 attend the boiler until the problem is corrected." 10 And it's not mandatory, but you could say, like 11 you have in other parts of your manual, per the 12 rule, the 20-minute rule, put the reference for 13 the 20-minute rule in there. And this is just an 14 aging problem for me, but Appendix E in Figure 1, 15 the yellow text is really, really hard for me to 16 read. And that's all I have. 17 Does anybody have any other questions 18 or comments? 19 MR. BAUGHMAN: Well, on our 20 checklist under Number 38 -- 21 MR. NEVILLE: Yes. 22 MR. BAUGHMAN: -- the printing on 23 it came out funny where you can't read the 24 referenced page numbers, and it kind of cut off 25 the question on it also.</p>

<p style="text-align: right;">Page 114</p> <p>1 MR. NEVILLE: Okay. I'll fix that.</p> <p>2 CHAIRMAN MORELOCK: Anything else?</p> <p>3 (No verbal response.)</p> <p>4 CHAIRMAN MORELOCK: Do I have a</p> <p>5 motion for this variance.</p> <p>6 DR. HARGROVE: Motion to approve</p> <p>7 contingent on the inspection.</p> <p>8 CHAIRMAN MORELOCK: So I have a</p> <p>9 motion to contingently approve this variance based</p> <p>10 upon a revision of the manual based on the</p> <p>11 comments from this meeting and a successful site</p> <p>12 visit by the Boiler Unit. Do I have a second?</p> <p>13 MR. FOX: I'll second.</p> <p>14 CHAIRMAN MORELOCK: Any other</p> <p>15 questions or comments?</p> <p>16 (No verbal response.)</p> <p>17 CHAIRMAN MORELOCK: Hearing none,</p> <p>18 I'll call the question. All in favor say "aye."</p> <p>19 (Affirmative response.)</p> <p>20 CHAIRMAN MORELOCK: Opposed?</p> <p>21 (No verbal response.)</p> <p>22 CHAIRMAN MORELOCK: Abstentions,</p> <p>23 not voting?</p> <p>24 (No verbal response.)</p> <p>25 CHAIRMAN MORELOCK: Gentlemen, you</p>	<p style="text-align: right;">Page 115</p> <p>1 have a contingently approved variance.</p> <p>2 MR. NEVILLE: Thank you.</p> <p>3 CHAIRMAN MORELOCK: That takes us</p> <p>4 to Item 19-4, which is West Tennessee Healthcare,</p> <p>5 is requesting a variance for two high-pressure</p> <p>6 boilers.</p> <p>7 And while you guys are preparing to</p> <p>8 present, do I have a conflict of interest on this</p> <p>9 item?</p> <p>10 (No verbal response.)</p> <p>11 CHAIRMAN MORELOCK: Gentlemen, you</p> <p>12 may proceed.</p> <p>13 MR. NEVILLE: I'm James Neville</p> <p>14 with Neville Engineering.</p> <p>15 MR. BRANDEBERRY: Rick Brandeberry,</p> <p>16 West Tennessee Healthcare, Dyersburg.</p> <p>17 MR. NEVILLE: This hospital is</p> <p>18 located in Dyersburg, Tennessee. It's an</p> <p>19 approximately 225-bed acute care hospital.</p> <p>20 We're requesting two of the</p> <p>21 high-pressure boilers be added to a variance.</p> <p>22 These boilers are on demand 24/7, seven days a</p> <p>23 week. They furnish high-pressure steam for heat</p> <p>24 and sterilization.</p> <p>25 In the site plan, on Figure 1,</p>
<p style="text-align: right;">Page 116</p> <p>1 page 2, we show the location of the boiler room</p> <p>2 and the location of the remote station. The</p> <p>3 remote station is located on the second floor.</p> <p>4 And that is approximately, I believe, 175 feet</p> <p>5 away. That is a hardwired remote station.</p> <p>6 The remote station is staffed by the</p> <p>7 telemetry monitor technician. And the boiler</p> <p>8 attendant is -- there are four different job</p> <p>9 titles that would be classified as a boiler</p> <p>10 attendant. That is the plant operation and the</p> <p>11 supervisor, the maintenance HVAC technician, the</p> <p>12 maintenance technician, and sometimes the security</p> <p>13 officer would monitor only those operations. So</p> <p>14 they do not operate the boilers, but they could do</p> <p>15 the four-hour checks, as far as going by the</p> <p>16 boiler and taking readings. If there were any</p> <p>17 issues with the boilers, they would call in a</p> <p>18 boiler operator to come in and monitor that</p> <p>19 boiler. So the security officer is not qualified</p> <p>20 to.</p> <p>21 The two boilers that are Burnham</p> <p>22 boilers, we list those in Appendix A. And both of</p> <p>23 those have Honeywell 7800 burner controllers on</p> <p>24 those.</p> <p>25 And if there are any questions regarding</p>	<p style="text-align: right;">Page 117</p> <p>1 this variance, I'll answer those for you.</p> <p>2 CHAIRMAN MORELOCK: Do I have a</p> <p>3 motion to discuss?</p> <p>4 MR. BOWERS: Motion to discuss.</p> <p>5 CHAIRMAN MORELOCK: Okay. Second?</p> <p>6 DR. HARGROVE: I second.</p> <p>7 CHAIRMAN MORELOCK: Good.</p> <p>8 MR. BAILEY: Mr. Chairman, I don't</p> <p>9 believe --</p> <p>10 CHAIRMAN MORELOCK: I was getting</p> <p>11 ready to do that.</p> <p>12 So do you have a conflict of</p> <p>13 interest?</p> <p>14 MR. BAUGHMAN: I do not.</p> <p>15 CHAIRMAN MORELOCK: What comments</p> <p>16 does the Board have on this variance request?</p> <p>17 MR. BAUGHMAN: In regards to the</p> <p>18 cover letter, it just says the person writing the</p> <p>19 cover letter was Reba --</p> <p>20 MR. NEVILLE: Celsor.</p> <p>21 MR. BAUGHMAN: Yes. Thank you.</p> <p>22 With Holly Rowan being below, also said that Reba</p> <p>23 or Holly would be attending. Are they still</p> <p>24 involved?</p> <p>25 MR. BRANDEBERRY: Yes, sir, they</p>

<p style="text-align: right;">Page 118</p> <p>1 are. They were just otherwise engaged and wanted 2 me to come.</p> <p>3 MR. BAUGHMAN: Okay. So under the 4 Appendix A, the Boiler Data Sheet and DA Data 5 Sheet, I just want to make sure -- so we listed as 6 a deaerator, but it's actually an atmospheric 7 unit, correct?</p> <p>8 MR. NEVILLE: That is correct.</p> <p>9 MR. BAUGHMAN: Okay. Because it's 10 got a rated capacity of pounds of steam per hour 11 and so forth, so it's more of kind of a 12 nomenclature in my own mind, a DA we usually refer 13 to as a pressurized type of unit. But I just 14 wanted to make sure that it was atmospheric and 15 did not need a Tennessee or National Board Number 16 associated.</p> <p>17 MR. NEVILLE: That is correct.</p> <p>18 CHAIRMAN MORELOCK: The only 19 comments I had would be on page 1, second 20 paragraph, first sentence, "The hospital will 21 operate three (2) high-pressure boilers." So 22 let's make that two.</p> <p>23 On the Appendix D, organizational 24 chart, for the security officer being listed as a 25 boiler attendant, you may want to put monitor only</p>	<p style="text-align: right;">Page 119</p> <p>1 and a parenthetical with that, just as you 2 described in your opening comments.</p> <p>3 When you look at Appendix G for job 4 duties, I could not see where there were specific 5 requirements for those specific job functions to 6 serve as boiler attendants and remote station 7 personnel. So you may want to add that.</p> <p>8 MR. NEVILLE: Page G-4, that 9 would -- the last line item on that does talk 10 about that --</p> <p>11 CHAIRMAN MORELOCK: Okay. So that 12 would be the remote --</p> <p>13 MR. NEVILLE: -- for the remote 14 station.</p> <p>15 CHAIRMAN MORELOCK: What about your 16 boiler attendant?</p> <p>17 MR. NEVILLE: I can verify -- or 18 add that to it if it's not in there. But yes.</p> <p>19 CHAIRMAN MORELOCK: Just a 20 verification will be fine.</p> <p>21 And how does the remote monitoring 22 system prevent unauthorized access?</p> <p>23 MR. NEVILLE: That system is 24 password protected, both of those. I'll add that 25 to -- it may show up in, actually, Appendix --</p>
<p style="text-align: right;">Page 120</p> <p>1 yes. So I guess it's B2, which is the 7800 2 series. It does talk about the password on the 3 last paragraph where it talks about a personal 4 three-digit password is required.</p> <p>5 CHAIRMAN MORELOCK: Thank you very 6 much.</p> <p>7 DR. HARGROVE: Question: What 8 differentiates the skills and responsibilities 9 between the two maintenance technicians?</p> <p>10 MR. BRENBERRY: There is none. We 11 have a lead boiler operator that's been there for 12 12 years, and I just have him trained. I'm the 13 plant operation supervisor. I have been training 14 the other two guys. I mean, they're all trained 15 the same. They've been with the lead boiler 16 operator for a month. Each one has to get -- 17 they're not at his level, but pretty much.</p> <p>18 DR. HARGROVE: Okay. Both 19 receiving the same boiler training.</p> <p>20 MR. BRENBERRY: Yes, sir.</p> <p>21 DR. HARGROVE: Okay. Even though 22 their skill level or knowledge may be based on 23 service?</p> <p>24 MR. BRENBERRY: Yes, sir.</p> <p>25 DR. HARGROVE: One is an HVAC</p>	<p style="text-align: right;">Page 121</p> <p>1 technician, correct?</p> <p>2 MR. BRENBERRY: Chris.</p> <p>3 DR. HARGROVE: Okay. All right. 4 Thank you.</p> <p>5 CHAIRMAN MORELOCK: Any other 6 questions?</p> <p>7 MR. FOX: Just a comment. The one 8 thing I would like to see is a picture, or 9 whatever, of the remote panel itself. That's one 10 thing we were missing. We're not seeing the 11 actual remote panel.</p> <p>12 MR. NEVILLE: Okay. I guess what I 13 would propose is that I add that to the equipment, 14 Appendix B. I could add that to that appendix 15 where it shows the picture of the remote station.</p> <p>16 MR. FOX: That would be good.</p> <p>17 MR. BAUGHMAN: Is this system 18 installed already?</p> <p>19 MR. BRENBERRY: No.</p> <p>20 MR. NEVILLE: No. It's to be.</p> <p>21 MR. BAUGHMAN: That clarified 22 because it did say will install, and that's why I 23 was --</p> <p>24 MR. NEVILLE: Right. I guess, on 25 that, once it's installed, we can take the picture</p>

<p style="text-align: right;">Page 122</p> <p>1 and then put it in the manual. Do we have to wait 2 until it's installed before I get it to 3 Mr. Chapman to...</p> <p>4 CHAIRMAN MORELOCK: I would say no, 5 because it's not a checklist requirement.</p> <p>6 MR. NEVILLE: Okay.</p> <p>7 CHAIRMAN MORELOCK: It does require 8 an equipment description, which you've provided. 9 That's something that we can talk, as a discussion 10 item, if we want to add that to the checklist. 11 But if it's a new installation, we obviously don't 12 want to delay that. I mean, what you could do is 13 you could add the photo later as a revision to the 14 manual.</p> <p>15 MR. NEVILLE: On renewals, that's 16 much easier to put in there.</p> <p>17 CHAIRMAN MORELOCK: Absolutely.</p> <p>18 MR. NEVILLE: Putting it in on the 19 front end.</p> <p>20 CHAIRMAN MORELOCK: Yes.</p> <p>21 MR. NEVILLE: We're waiting until 22 it gets installed, so...</p> <p>23 MR. BAUGHMAN: So how is your 24 boiler being attended to currently?</p> <p>25 MR. BREND BERRY: The lead boiler</p>	<p style="text-align: right;">Page 123</p> <p>1 operator checks every morning, and then every 2 20 minutes it's checked and everything is 3 recorded. On the first shift, it's by the boiler 4 operator, but second and third shift, it's done by 5 a security officer.</p> <p>6 MR. BAUGHMAN: And so that security 7 officer is going back every 20 minutes?</p> <p>8 MR. BRANDEBERRY: Yes, sir.</p> <p>9 MR. BAUGHMAN: Wow.</p> <p>10 MR. BRANDEBERRY: We added another 11 one.</p> <p>12 DR. HARGROVE: What is the schedule 13 for procurement and installation?</p> <p>14 MR. BREND BERRY: Within three 15 months.</p> <p>16 CHAIRMAN MORELOCK: Any other 17 questions or comments? (No verbal response.)</p> <p>18 CHAIRMAN MORELOCK: Do I have a 19 motion for this variance?</p> <p>20 MR. BOWERS: Motion to approve, 21 contingent on updating the manual and a site visit 22 by the chief.</p> <p>24 CHAIRMAN MORELOCK: Okay. Do I 25 have a second?</p>
<p style="text-align: right;">Page 124</p> <p>1 MR. FOX: I second.</p> <p>2 CHAIRMAN MORELOCK: Okay. Any 3 further discussion? (No verbal response.)</p> <p>4 CHAIRMAN MORELOCK: Hearing none, 5 I'll call the question. All in favor, say "aye." 6 (Affirmative response.)</p> <p>7 CHAIRMAN MORELOCK: Opposed? (No verbal response.)</p> <p>8 CHAIRMAN MORELOCK: Abstentions, 9 not voting? (No verbal response.)</p> <p>10 CHAIRMAN MORELOCK: Gentlemen, you 11 have a contingently approved variance manual. 12 That takes us to new business 13 Item 19-5, PolyOne Corporation, requesting a 14 variance for two high-pressure boilers. 15 Is there a conflict of interest on 16 this particular item? (No verbal response.)</p> <p>17 CHAIRMAN MORELOCK: Okay. You may 18 proceed.</p> <p>19 MR. NEVILLE: I'm James Neville 20 with Neville Engineering.</p> <p>21 MR. WORLEY: I'm Chad Worley with</p>	<p style="text-align: right;">Page 125</p> <p>1 PolyOne in Dyersburg.</p> <p>2 MR. NEVILLE: PolyOne is a 3 manufacturing plant located in Dyersburg. They 4 produce plastic pellets for the automotive 5 industry.</p> <p>6 Today, our request is for two 7 high-pressure boilers. These boilers operate 24/7 8 furnishing high-pressure steam for process and 9 building heating.</p> <p>10 In our site plan, we show the 11 distance from the boiler room to the control room. 12 It's approximately 389 feet. The individuals that 13 will be at the remote station will be the 14 production associate. Also, the production 15 maintenance of the Pro-Ma is how they turn that 16 individual. At the plant will be the boiler 17 attendant.</p> <p>18 We list the two boilers. One is a 19 Cleaver Brooks boiler; the other is a Superior 20 boiler. Those are listed in Appendix A. Both of 21 these boilers have the Cleaver Brooks Hawk ICS 22 control system.</p> <p>23 We list the fault list in Appendix C, 24 boiler controller.</p> <p>25 The organizational chart is in</p>

<p style="text-align: right;">Page 126</p> <p>1 Appendix D.</p> <p>2 Are there any questions?</p> <p>3 CHAIRMAN MORELOCK: All right. Do</p> <p>4 I have a motion to discuss?</p> <p>5 MR. BAUGHMAN: So moved.</p> <p>6 CHAIRMAN MORELOCK: Second?</p> <p>7 MR. BOWERS: Second.</p> <p>8 CHAIRMAN MORELOCK: All right.</p> <p>9 What questions or comments do you have?</p> <p>10 (No verbal response.)</p> <p>11 CHAIRMAN MORELOCK: Well,</p> <p>12 gentlemen, as I noted earlier, I have the same</p> <p>13 problem with this manual as I did with the last</p> <p>14 one. I'm getting old and I can't read Appendix D</p> <p>15 very well. So the org chart is hard to read.</p> <p>16 MR. NEVILLE: I will rotate that</p> <p>17 and enlarge for all of us.</p> <p>18 CHAIRMAN MORELOCK: Thank you very</p> <p>19 much. And that's the only comment I have on this</p> <p>20 manual.</p> <p>21 MR. FOX: I do have something I</p> <p>22 would like to have clarified. On Appendix B,</p> <p>23 where you're showing the description of CB-Hawk</p> <p>24 and you get down to the burner controller --</p> <p>25 MR. NEVILLE: Yes.</p>	<p style="text-align: right;">Page 127</p> <p>1 MR. FOX: -- you've got a Honeywell</p> <p>2 7800 and a Fireye E110 and a Cleaver Brooks CB780.</p> <p>3 Which controller do you actually have?</p> <p>4 MR. NEVILLE: The CB780 is the</p> <p>5 controller on this. I'll take off the other two.</p> <p>6 MR. FOX: All right.</p> <p>7 CHAIRMAN MORELOCK: So you're going</p> <p>8 to leave the RM7800 -- or the CB780 and take the</p> <p>9 top two off?</p> <p>10 MR. NEVILLE: Right. CB780 will</p> <p>11 remain.</p> <p>12 CHAIRMAN MORELOCK: All right. Any</p> <p>13 reason why all three were listed?</p> <p>14 MR. NEVILLE: I should've taken</p> <p>15 those out. There's no reason.</p> <p>16 MR. HARGROVE: Mr. Worley, under</p> <p>17 the title of a reliability manager, that seems a</p> <p>18 very broad title. What additional</p> <p>19 responsibilities do you have?</p> <p>20 MR. WORLEY: Reliability manager,</p> <p>21 the term, traditionally, would be maintenance</p> <p>22 manager. So it's any kind of building or</p> <p>23 production maintenance, new equipment</p> <p>24 installations, that kind of thing. Some process</p> <p>25 responsibilities, but not a lot.</p>
<p style="text-align: right;">Page 128</p> <p>1 CHAIRMAN MORELOCK: Any other</p> <p>2 questions or comments?</p> <p>3 MR. BAUGHMAN: Feedwater system,</p> <p>4 are we using a DA or an atmospheric?</p> <p>5 MR. WORLEY: It's atmospheric. It</p> <p>6 really shouldn't be labeled as DA.</p> <p>7 CHAIRMAN MORELOCK: Any other</p> <p>8 questions or comments?</p> <p>9 (No verbal response.)</p> <p>10 CHAIRMAN MORELOCK: Hearing none,</p> <p>11 do I have a motion for this item?</p> <p>12 MR. BOWERS: Motion to approve,</p> <p>13 contingent on updating the manual and a site visit</p> <p>14 from the chief.</p> <p>15 CHAIRMAN MORELOCK: Okay. Do I</p> <p>16 have a second?</p> <p>17 DR. HARGROVE: Second.</p> <p>18 CHAIRMAN MORELOCK: Any other</p> <p>19 discussion?</p> <p>20 (No verbal response.)</p> <p>21 CHAIRMAN MORELOCK: Hearing none,</p> <p>22 I'll call the question. All in favor say "aye."</p> <p>23 (Affirmative response.)</p> <p>24 CHAIRMAN MORELOCK: Opposed?</p> <p>25 (No verbal response.)</p>	<p style="text-align: right;">Page 129</p> <p>1 CHAIRMAN MORELOCK: Abstention, not</p> <p>2 voting?</p> <p>3 (No verbal response.)</p> <p>4 CHAIRMAN MORELOCK: Gentlemen, you</p> <p>5 have a contingently approved variance.</p> <p>6 Our next new business item is 19-6.</p> <p>7 West Tennessee Healthcare is requesting a variance</p> <p>8 for two high-pressure boilers.</p> <p>9 Is there a conflict of interest for</p> <p>10 this item?</p> <p>11 (No verbal response.)</p> <p>12 MR. NEVILLE: I'm James Neville</p> <p>13 with Neville Engineering representing West</p> <p>14 Tennessee Healthcare North Hospital.</p> <p>15 MR. JONES: Mark Jones, West</p> <p>16 Tennessee Healthcare.</p> <p>17 MR. HOLYFIELD: Kyle Holyfield,</p> <p>18 West Tennessee Healthcare.</p> <p>19 MR. SELLERS: Doug Sellers, West</p> <p>20 Tennessee Healthcare.</p> <p>21 MR. NEVILLE: North Hospital is</p> <p>22 located in Jackson, Tennessee. They operate two</p> <p>23 high-pressure boilers. Those boilers operate on</p> <p>24 demand 24/7 furnishing high-pressure steam for</p> <p>25 heat and sterilization for the hospital.</p>

<p style="text-align: right;">Page 130</p> <p>1 The site plan on page 2 shows the 2 location of the remote station at the PBX office, 3 and the boiler room is approximately 275 feet 4 away.</p> <p>5 The individuals that will be 6 monitoring the remote station are the 7 communication center information specialist or the 8 patients access representative, one. Those are 9 the two job descriptions that will be monitoring 10 that remote station continuously.</p> <p>11 The boiler attendants are classified 12 as four different positions. The Maintenance 13 Mechanic I, the Maintenance Mechanic II, the 14 Maintenance Mechanic III, and the security 15 officer.</p> <p>16 It lists the boilers in Appendix A-1 17 as a Kewanee and a Cleaver Brooks, are the two 18 boilers we're requesting a variance on.</p> <p>19 As far as the training of the boiler 20 attendants, who would like to discuss, as far as 21 the training on your boiler attendants as far as 22 the boiler operators?</p> <p>23 MR. JONES: We currently operate a 24 main campus across town that's under a boiler 25 variance much like this one. And we're</p>	<p style="text-align: right;">Page 131</p> <p>1 incorporating the training of both facilities. 2 This is a facility that West Tennessee Healthcare 3 purchased last year, and we have incorporated the 4 training of their people with ours, and we 5 currently are on the annual rotation to just do 6 them all; so the boiler attendants as well as the 7 remote station people.</p> <p>8 MR. NEVILLE: Are there any further 9 questions?</p> <p>10 CHAIRMAN MORELOCK: So do I have a 11 motion to discuss this item?</p> <p>12 MR. FOX: I'll make a motion to 13 discuss.</p> <p>14 MR. BAUGHMAN: Second.</p> <p>15 CHAIRMAN MORELOCK: Okay. What 16 comments do you have?</p> <p>17 DR. HARGROVE: I do want to say, 18 Mr. Neville, a much better, readable 19 organizational chart.</p> <p>20 MR. NEVILLE: Yes. I think the 21 orientation is much better, and I think the color 22 turned out.</p> <p>23 CHAIRMAN MORELOCK: I have a 24 comment. If you look at pages 9 and 10 of your 25 emergency procedures, what you see on page 9 for</p>
<p style="text-align: right;">Page 132</p> <p>1 time is that on Item 6, "if the remote attendant 2 is unable to communicate with the boiler attendant 3 within three minutes." And then when you go to 4 page 10, which is your emergency procedure, you 5 cut that back to one. And I know on some of the 6 other manuals you've given that remote attendant 7 two or three opportunities to try to make contact, 8 a minute each that would add up to that total of 9 two or three minutes.</p> <p>10 MR. NEVILLE: Right.</p> <p>11 CHAIRMAN MORELOCK: So just word 12 that accordingly, however you want that to be.</p> <p>13 MR. NEVILLE: We'll change that on 14 page 9.</p> <p>15 CHAIRMAN MORELOCK: What other 16 questions do you have?</p> <p>17 MR. BAUGHMAN: As far as personnel 18 at the remote station, we're continuously staffed 19 by a Communications Center Information Specialist 20 or a Patient Access Representative I.</p> <p>21 MR. NEVILLE: Yes.</p> <p>22 MR. BAUGHMAN: Thank you. So 23 there's one or other at the remote station, 24 correct?</p> <p>25 MR. NEVILLE: (Nods head.)</p>	<p style="text-align: right;">Page 133</p> <p>1 MR. BAUGHMAN: And if one or the 2 other gets called off, as they will, then what's 3 the protocol? How does that -- tell me what 4 happens. The patient access representative has to 5 leave the remote station; tell me what the 6 protocol is.</p> <p>7 MR. HOLYFIELD: There are a 8 multiple number of those patient access 9 representatives on staff in addition to the 10 communications center staff person. So for 11 instance, if they go to lunch, or whatever, then 12 they step in and fill that slot while they're 13 gone.</p> <p>14 MR. BAUGHMAN: There's never a time 15 where one might have to go visit a patient, talk 16 about anything -- in other words, what I'm getting 17 at is I want to make sure that as one leaves, for 18 whatever reason, somebody else is in place.</p> <p>19 MR. HOLYFIELD: In that room?</p> <p>20 MR. BAUGHMAN: Yes, sir.</p> <p>21 MR. HOLYFIELD: Yes, sir.</p> <p>22 MR. BAUGHMAN: Okay. Very good.</p> <p>23 CHAIRMAN MORELOCK: Other questions 24 or comments?</p> <p>25 (No verbal response.)</p>

<p style="text-align: right;">Page 134</p> <p>1 CHAIRMAN MORELOCK: Do I have a 2 motion for this requested variance? 3 MR. BOWERS: Motion to approve, 4 contingent on updating the manual and a visit from 5 the chief. 6 DR. HARGROVE: Second. 7 CHAIRMAN MORELOCK: Okay. Any 8 other questions or comments? 9 (No verbal response.) 10 CHAIRMAN MORELOCK: Hearing none, 11 I'll call the question. All in favor say "aye." 12 (Affirmative response.) 13 CHAIRMAN MORELOCK: Opposed? 14 (No verbal response.) 15 CHAIRMAN MORELOCK: Abstentions, 16 not voting? 17 (No verbal response.) 18 CHAIRMAN MORELOCK: Gentlemen, you 19 have a contingently approved variance. 20 MR. NEVILLE: Thank you. 21 CHAIRMAN MORELOCK: Thank you. 22 Our next item is new business 23 Item 19-7, TriStar Centennial Medical Center, 24 requesting a variance for seven high-pressure 25 boilers.</p>	<p style="text-align: right;">Page 135</p> <p>1 Is there a conflict of interest for 2 this particular item? 3 (No verbal response.) 4 MR. NEVILLE: James Neville with 5 Neville Engineering. I would like to present a 6 boiler variance request for TriStar Centennial 7 Medical Center located here in Nashville, 8 Tennessee, an approximately 686-bed hospital. 9 The hospital operates seven 10 high-pressure boilers. Those are operated on 11 demand 24/7, seven days a week. They provide 12 steam for space heating, potable water, heating, 13 dietary equipment, sterilizers, and humidification 14 as well. 15 There are two powerhouses that I 16 would like to show you in the site plan, Figure 1 17 of the site plan. There's powerhouse 1 that there 18 are three boilers in, and then powerhouse 2 is the 19 newest powerhouse, which has four boilers. Pardon 20 me. I show on E-1, that powerhouse 1 is with the 21 four boilers and powerhouse 2 with the three 22 boilers. 23 MR. MCFARLAND: And that new 24 powerhouse is starting to into operation. We 25 added four floors to the tower, 250,000 square</p>
<p style="text-align: right;">Page 136</p> <p>1 feet, and so we added that powerhouse because, 2 from the load perspective on both the chillers and 3 the boilers, we needed the additional capacity, so 4 we built the new powerhouse. And it should be 5 totally in operation, probably, in the next month. 6 MR. NEVILLE: So the remote station 7 is located at the security office, it will be 8 located. So they're in the process of installing 9 that remote station now. 10 MR. MCFARLAND: And it is 11 hardwired. 12 MR. NEVILLE: As far as the 13 personnel at the remote station, those are 14 security officers or the security supervisor. 15 Those were the two that we're listing in that 16 position. 17 As far as the boiler attendants on 18 page 7, we list three different positions for 19 that. That's the HVAC Tech I, HVAC Tech II, and 20 the HVAC Tech III. 21 And Mr. McFarland can talk about the 22 training of those, as far as to be qualified as 23 boiler operators. 24 MR. MCFARLAND: Yeah. Our lead 25 boiler operator has been with Centennial for</p>	<p style="text-align: right;">Page 137</p> <p>1 25 years. He takes care of a lot of the 2 day-to-day training. And I'll be providing some 3 training from the manufacturers of the new 4 equipment we're getting. And then I'll be 5 responsible for keeping -- continuing, on an 6 annual basis, to do training for -- we don't have 7 a whole lot of turnover in those classifications, 8 but, you know, if we have new guys that come in 9 or -- if they're like me, after a while, they need 10 to be reminded about what their duties are. So 11 I'll be taking care of that. 12 MR. NEVILLE: On page 10, we list 13 the emergency procedures if the boiler was to go 14 into alarm and the procedure for communicating 15 with the boiler attendants. That's via radio or 16 mobile phone. 17 MR. MCFARLAND: And the security 18 office is manned 24 hours a day continually. If 19 somebody has to go to the restroom or go to eat or 20 be on break, they're relieved. There's never a 21 time when that location is not manned, because, 22 obviously, there's -- you know, the facility is so 23 large that it stays busy 24 hours a day. 24 MR. NEVILLE: We list the boilers 25 in Appendix A, the seven boilers, and we identify</p>

<p style="text-align: right;">Page 138</p> <p>1 which one is in powerhouse 1 versus powerhouse 2.</p> <p>2 MR. BAUGHMAN: Mr. McFarland, are</p> <p>3 you yourself responsible for implementing the</p> <p>4 provisions of the variance?</p> <p>5 MR. MCFARLAND: Yes, I will be.</p> <p>6 MR. BAUGHMAN: So we'll need to</p> <p>7 make a change, then, to the current system</p> <p>8 description, because it gives that as --</p> <p>9 MR. MCFARLAND: Well, that was --</p> <p>10 MR. BAUGHMAN: -- Mr. Garret.</p> <p>11 MR. MCFARLAND: Well, he is my</p> <p>12 supervisor, and he's the day-to-day.</p> <p>13 MR. BAUGHMAN: Okay.</p> <p>14 MR. MCFARLAND: He works for me,</p> <p>15 and then I've got 24 folks that work -- that he</p> <p>16 manages. And so I guess that's why we showed it</p> <p>17 like that. But does it need to be -- and does it</p> <p>18 need to say facility manager so in case some day I</p> <p>19 ever were to retire, then it wouldn't be...</p> <p>20 MR. BAUGHMAN: I was just getting</p> <p>21 it clear in my own mind, so the answers to that, I</p> <p>22 don't know.</p> <p>23 CHAIRMAN MORELOCK: Well, when you</p> <p>24 have a variance and it comes up for renewal in</p> <p>25 three years, if there's really no technical change</p>	<p style="text-align: right;">Page 139</p> <p>1 to the manual, if you change some names and things</p> <p>2 like that, then the Boiler Unit can review that</p> <p>3 and approve that with you. It would be --</p> <p>4 MR. NEVILLE: Right. That would</p> <p>5 just go to Mr. Chapman.</p> <p>6 CHAIRMAN MORELOCK: So really, when</p> <p>7 it comes back to us, is if you're making a</p> <p>8 technical change to the manual, your control</p> <p>9 system, your boilers, your DAS -- well, not</p> <p>10 necessarily your DAS -- but anything that would be</p> <p>11 a technical change to the way you're doing your</p> <p>12 remote monitoring and operating your boilers, that</p> <p>13 would come back to us.</p> <p>14 MR. MCFARLAND: Okay. Okay.</p> <p>15 MR. BAUGHMAN: Thank you.</p> <p>16 MR. BOWERS: The question I have,</p> <p>17 you have, I guess, the boiler operator or boiler</p> <p>18 attendant, he's the HVAC person, too, right?</p> <p>19 MR. MCFARLAND: Yes.</p> <p>20 MR. BOWERS: You have a lot of</p> <p>21 boilers there, two different boiler rooms, and you</p> <p>22 talked about the daily attendant having</p> <p>23 responsibilities. There's a lot of responsibility</p> <p>24 for that many boilers. You're talking about the</p> <p>25 water test, you're talking about low-water</p>
<p style="text-align: right;">Page 140</p> <p>1 cutoffs. And then you have two different boiler</p> <p>2 rooms that are separated. How do they divide that</p> <p>3 up, whose responsibilities --</p> <p>4 MR. MCFARLAND: We are staffing the</p> <p>5 new boiler room completely separate. It's going</p> <p>6 to have -- because we do have 24-hour-a-day</p> <p>7 coverage in the existing powerhouse now. In</p> <p>8 saying that, obviously, at this point, we're not</p> <p>9 monitoring the boilers every 20 minutes because</p> <p>10 those guys -- he's got a large area to take care</p> <p>11 of.</p> <p>12 And the new boiler house will be --</p> <p>13 will have somebody in it 24 hours a day, just like</p> <p>14 the existing boiler room does.</p> <p>15 MR. BOWERS: So you have a main</p> <p>16 operator who does the water tests --</p> <p>17 MR. MCFARLAND: Yes.</p> <p>18 MR. BOWERS: -- who does the daily</p> <p>19 functions?</p> <p>20 MR. MCFARLAND: Yes.</p> <p>21 MR. BOWERS: So he won't get pulled</p> <p>22 away for working on air conditioning?</p> <p>23 MR. MCFARLAND: No, sir.</p> <p>24 MR. BOWERS: So what's his primary</p> <p>25 responsibility?</p>	<p style="text-align: right;">Page 141</p> <p>1 MR. MCFARLAND: That's one of his</p> <p>2 major, prime responsibilities.</p> <p>3 MR. BOWERS: One of his major --</p> <p>4 MR. MCFARLAND: Yeah.</p> <p>5 MR. BOWERS: What is the major</p> <p>6 responsibility?</p> <p>7 MR. MCFARLAND: Well, you know,</p> <p>8 obviously, he has other things that he does. He</p> <p>9 does some minor repairs and different things, but</p> <p>10 he's -- that's --</p> <p>11 MR. BOWERS: But what would be more</p> <p>12 important than the boilers?</p> <p>13 MR. MCFARLAND: Nothing.</p> <p>14 MR. BOWERS: Okay.</p> <p>15 MR. MCFARLAND: I can assure you,</p> <p>16 we'll -- you know, as we open up this new area, we</p> <p>17 will be taking the necessary precautions to be</p> <p>18 sure that it's covered.</p> <p>19 MR. BOWERS: So you will have the</p> <p>20 new boiler room equally manned --</p> <p>21 MR. MCFARLAND: Yes.</p> <p>22 MR. BOWERS: -- by somebody who's</p> <p>23 going to do all this stuff.</p> <p>24 MR. MCFARLAND: Yeah. I think we</p> <p>25 have five FTEs that will be designated for the new</p>

<p style="text-align: right;">Page 142</p> <p>1 boiler house.</p> <p>2 MR. BAUGHMAN: And we have not ever</p> <p>3 had an existing variance at this location?</p> <p>4 MR. MCFARLAND: No, sir. It's</p> <p>5 interesting, isn't it? I was surprised.</p> <p>6 MR. BAUGHMAN: Yeah. Well, one of</p> <p>7 the boilers was a 2011, and the new ones are 2017.</p> <p>8 That's all right. I'm glad we're getting it</p> <p>9 attended to.</p> <p>10 MR. MCFARLAND: Well, yeah. And,</p> <p>11 you know, in my experience, I was a regional</p> <p>12 engineer for HCA for 15 years. And even going</p> <p>13 across the country, it was a little surprising to</p> <p>14 me how many locations. You know, the states were</p> <p>15 kind of implementing it at different times, and I</p> <p>16 think that's what controlled it.</p> <p>17 A lot of times, there was no pressure</p> <p>18 from the boiler board to do it in some of those</p> <p>19 states. But it's good. I'm excited that we're</p> <p>20 finally doing it. Sometimes it takes y'all saying</p> <p>21 something to get the hospital to do something,</p> <p>22 too, because this is going to be a fairly large</p> <p>23 expenditure. So they're a little reluctant just</p> <p>24 to do it if they don't get some kind of statement</p> <p>25 that they need to.</p>	<p style="text-align: right;">Page 143</p> <p>1 MR. HARGROVE: Mr. Chairman, for</p> <p>2 the record, should the intent for the new boiler</p> <p>3 room to have the appropriate personnel, should</p> <p>4 that be documented?</p> <p>5 CHAIRMAN MORELOCK: Well, I mean,</p> <p>6 it's up to them to staff it. We don't control</p> <p>7 staffing. They just have to tell us that they're</p> <p>8 going to operate in a safe manner.</p> <p>9 DR. HARGROVE: Okay.</p> <p>10 CHAIRMAN MORELOCK: We -- our role</p> <p>11 is to promulgate the rules, revise rules, and</p> <p>12 provide guidance. The Boiler Unit is on the</p> <p>13 enforcement side. So we're not on the enforcement</p> <p>14 side of anything. We're a technical board that</p> <p>15 reviews all this information.</p> <p>16 DR. HARGROVE: Okay. I was just</p> <p>17 asking that question in regards to safety.</p> <p>18 CHAIRMAN MORELOCK: Well, I mean,</p> <p>19 we can't --</p> <p>20 MR. NEVILLE: On page 8 we do say</p> <p>21 that the boiler attendant should be on site at all</p> <p>22 times.</p> <p>23 CHAIRMAN MORELOCK: Yes.</p> <p>24 MR. NEVILLE: And there will be</p> <p>25 multiple ones at this site, as far as the two</p>
<p style="text-align: right;">Page 144</p> <p>1 locations. So even if an alarm happened at both</p> <p>2 powerhouse 1 and 2 at the same time, there are</p> <p>3 still people that can respond to -- multiple</p> <p>4 people that can respond to either powerhouse.</p> <p>5 CHAIRMAN MORELOCK: And so both</p> <p>6 powerhouses are going to be pretty much equally</p> <p>7 staffed, correct?</p> <p>8 MR. MCFARLAND: Yes.</p> <p>9 CHAIRMAN MORELOCK: So it's not</p> <p>10 like you're taking operators out of the first</p> <p>11 powerhouse to help with the second one. They're</p> <p>12 going to have two completely staffed powerhouses.</p> <p>13 And that's part of that large expenditure that the</p> <p>14 hospital is looking at.</p> <p>15 MR. MCFARLAND: Exactly.</p> <p>16 CHAIRMAN MORELOCK: Any other</p> <p>17 questions?</p> <p>18 (No verbal response.)</p> <p>19 CHAIRMAN MORELOCK: Do I have a</p> <p>20 motion for this variance?</p> <p>21 MR. BAUGHMAN: So moved, contingent</p> <p>22 upon site visit and acceptance by the chief.</p> <p>23 CHAIRMAN MORELOCK: And updating</p> <p>24 the manual as needed per the Tennessee Board's</p> <p>25 comments. Okay. Do I have a second?</p>	<p style="text-align: right;">Page 145</p> <p>1 MR. BOWERS: Second.</p> <p>2 CHAIRMAN MORELOCK: Okay. Last</p> <p>3 call for comments or questions.</p> <p>4 (No verbal response.)</p> <p>5 CHAIRMAN MORELOCK: Hearing none,</p> <p>6 I'll call the question. All in favor say "aye."</p> <p>7 (Affirmative response.)</p> <p>8 CHAIRMAN MORELOCK: Opposed?</p> <p>9 (No verbal response.)</p> <p>10 CHAIRMAN MORELOCK: Abstentions,</p> <p>11 not voting?</p> <p>12 (No verbal response.)</p> <p>13 CHAIRMAN MORELOCK: Gentlemen, you</p> <p>14 have a contingently approved variance.</p> <p>15 MR. NEVILLE: Thank you.</p> <p>16 CHAIRMAN MORELOCK: Thank you.</p> <p>17 That takes us to our last new</p> <p>18 business item which is Item 19-8, and that is</p> <p>19 Parkwest Medical Center.</p> <p>20 Is there a conflict of interest for</p> <p>21 this variance?</p> <p>22 (No verbal response.)</p> <p>23 CHAIRMAN MORELOCK: Okay,</p> <p>24 gentlemen.</p> <p>25 MR. TOTH: Hello. My name is Marty</p>

<p style="text-align: right;">Page 146</p> <p>1 Toth. I'm with ECS Consulting. It feels like a 2 little deja vu since there's been such a big gap 3 there.</p> <p>4 I am here representing Parkwest 5 Medical Center out of Knoxville, Tennessee, for a 6 new issuance to a boiler remote variance.</p> <p>7 I would like to introduce my partners 8 here. We've got Dejan Veljkovic, who is the 9 service facilities manager, and Jeff Benson, who 10 is a corporate director of engineering.</p> <p>11 And so what we have -- at Parkwest, 12 currently, we have four high-pressure boilers, two 13 fire-tube 200-horsepower, and two fire-tube 14 300-horsepower Cleaver Brooks boilers. And we 15 also have a deaerator, a pressurized deaerator, 16 all of which are registered and inspected with the 17 State of Tennessee.</p> <p>18 Just to preface, you will notice in 19 the manual that the actual panel itself has room 20 for a future addition. We are in the process of 21 installing another 200-horsepower Cleaver Brooks 22 boiler. That will be brought before the Board 23 once that has been completed and added to.</p> <p>24 The boilers in question are monitored 25 remotely at the security dispatcher room.</p>	<p style="text-align: right;">Page 147</p> <p>1 Currently, the security dispatch has three 2 individuals that man that post. We also have 3 certified boiler attendants that work for the 4 engineering department. Mr. Veljkovic will also 5 be a certified attendant, as you've seen in the 6 manual, along with his team leader, and on down 7 through the actual facility service technicians, 8 and, also, the security dispatch.</p> <p>9 Again, these are -- and I know that 10 the Board is very aware of this, having a boiler 11 attendant, somebody that is certified as a boiler 12 attendant, on site 24/7, these people will be 13 qualified as such. There will be a point in time 14 during the weekend that there will be an 15 engineering department boiler attendant on call, 16 and the service -- or security dispatcher will 17 serve as the boiler attendant.</p> <p>18 In the case of an alarm, there will 19 be -- the process will still go as it reads. The 20 e-stop will be pressed, the security dispatcher, 21 who is a boiler attendant, will report to the 22 boiler room to ensure there are no adverse 23 conditions. That attendant will not try to 24 restart the boiler. They will call in an 25 engineering department boiler attendant to come in</p>
<p style="text-align: right;">Page 148</p> <p>1 and investigate.</p> <p>2 And I'm open for any questions that 3 you may have.</p> <p>4 CHAIRMAN MORELOCK: Motion to 5 discuss?</p> <p>6 MR. BAUGHMAN: So moved.</p> <p>7 CHAIRMAN MORELOCK: Second?</p> <p>8 MR. BOWERS: Second.</p> <p>9 CHAIRMAN MORELOCK: Okay. What 10 comments do you have?</p> <p>11 MR. TOTH: And if I may add, you 12 are going to see one editorial change in the 13 illustration of the remote panel that's being 14 constructed. The location of that remote panel 15 has been revised, and it is located in the 16 security dispatch room on the lower level of the 17 hospital, versus what you show in your book.</p> <p>18 As you can see from the site plan, 19 the security dispatch room is almost literally 20 below the boiler room, very close in proximity 21 from the boiler room itself.</p> <p>22 The e-stops are hardwired directly 23 from the boilers to the e-stops. The hospital 24 does have a Medisys system, but that is not part 25 of the boiler variance.</p>	<p style="text-align: right;">Page 149</p> <p>1 MR. BAUGHMAN: So on that remote 2 panel, Marty -- we've talked about it in the other 3 manuals -- it says "Note: Mounted at security 4 station in east wing hospital building."</p> <p>5 MR. TOTH: Again, as I alluded to, 6 that is mounted in the security dispatch on the 7 lower level. And that has been revised on the 8 copy and will be submitted to the chief 9 inspector's copy for inspection.</p> <p>10 MR. BAUGHMAN: The cover letter 11 states that this is a new issuance. But in our 12 checklist it shows modified and renewal.</p> <p>13 MR. TOTH: That would be a mistake 14 on my part. It is a new issuance.</p> <p>15 MR. BAUGHMAN: Thank you.</p> <p>16 CHAIRMAN MORELOCK: Other 17 questions?</p> <p>18 (No verbal response.)</p> <p>19 CHAIRMAN MORELOCK: I just have the 20 same comment I had on the last one.</p> <p>21 MR. TOTH: Org chart?</p> <p>22 CHAIRMAN MORELOCK: Yes. As far as 23 just identifying who the boiler attendants are and 24 the remote monitors.</p> <p>25 MR. TOTH: I smile, Mr. Chairman,</p>

<p style="text-align: right;">Page 150</p> <p>1 because during our pre-meeting, Mr. Veljkovic 2 says, "It doesn't show the boiler attendant or 3 remote attendant." So I've got to give him a pat 4 on the back.</p> <p>5 CHAIRMAN MORELOCK: Good eye.</p> <p>6 MR. TOTH: There you go. Good job.</p> <p>7 CHAIRMAN MORELOCK: What other 8 questions does the Board have?</p> <p>9 MR. BAUGHMAN: So on the site plan, 10 the first floor, page 13, Figure 1, so I was 11 looking at Boiler Number 1 and Boiler Number 2, 12 and then where the DA and Number 3 and Number 4 13 is. But I was looking at just the accessibility 14 into that room and looking at -- there's a 15 stairwell, it looks like.</p> <p>16 MR. TOTH: Yes. And the 17 accessibility into that room, please note that 18 between Boiler 1 and Boiler 2, that is not a solid 19 wall. That is a walkway through there with just 20 columns. There is accessibility that is a walkway 21 that comes from the space where you see 22 "mechanical room." There is, also, coming from 23 the emergency generators there in the 351. So 24 there's multiple sites of egress and ingress with, 25 also, the required e-stops in place.</p>	<p style="text-align: right;">Page 151</p> <p>1 MR. BAUGHMAN: At each point of 2 egress?</p> <p>3 MR. TOTH: At each point. And, 4 again, there are modifications that we are doing 5 at this time with regard to the capital investment 6 of the new Number 5 boiler that we're going to 7 make sure that everything is updated 8 appropriately.</p> <p>9 MR. BAUGHMAN: Where is Number 5 10 proposed to go in at?</p> <p>11 MR. TOTH: Number 5 will be right 12 next to Number 3 and Number 4, right where it 13 reads boiler room. Number 5, again, is a 14 200-horsepower, so it's smaller. Attention has 15 been made where the controls of that boiler are 16 accessible that we do allow for the requirement 17 clearance between the two boilers and the wall.</p> <p>18 MR. BOWERS: And ventilation?</p> <p>19 MR. TOTH: Ventilation, we've got 20 plenty of that.</p> <p>21 CHAIRMAN MORELOCK: Other questions 22 or comments?</p> <p>23 (No verbal response.)</p> <p>24 CHAIRMAN MORELOCK: All right. 25 Hearing none, do I have a motion for this</p>
<p style="text-align: right;">Page 152</p> <p>1 variance?</p> <p>2 MR. BAUGHMAN: So moved, 3 contingent.</p> <p>4 MR. TOTH: Contingent upon the org 5 chart and contingent upon the diagram, which has 6 already been made.</p> <p>7 CHAIRMAN MORELOCK: Contingent on 8 the comments made by the Tennessee Board today and 9 a successful site visit from the Boiler Unit.</p> <p>10 MR. TOTH: Can you please tell me, 11 what was there anything else besides the org 12 chart? What was the other thing -- and the 13 diagram that's already been done?</p> <p>14 CHAIRMAN MORELOCK: Well, the 15 question about the new issuance, which you've 16 already taken care of.</p> <p>17 MR. TOTH: Yes, thank you. That 18 was it.</p> <p>19 CHAIRMAN MORELOCK: Okay. Do I 20 have a second?</p> <p>21 MR. FOX: Second.</p> <p>22 CHAIRMAN MORELOCK: Okay. Any 23 questions or comments.</p> <p>24 (No verbal response.)</p> <p>25 CHAIRMAN MORELOCK: Hearing none,</p>	<p style="text-align: right;">Page 153</p> <p>1 I'll call the question. All in favor say "aye." 2 (Affirmative response.)</p> <p>3 CHAIRMAN MORELOCK: Opposed? 4 (No verbal response.)</p> <p>5 CHAIRMAN MORELOCK: Abstentions, 6 not voting? 7 (No verbal response.)</p> <p>8 CHAIRMAN MORELOCK: Gentlemen, you 9 have a contingently approved variance.</p> <p>10 MR. TOTH: Thank you.</p> <p>11 CHAIRMAN MORELOCK: Thank you.</p> <p>12 So that will take us to Item 9 on our 13 agenda, open discussion items. And Deborah Rhone 14 will provide us a number of -- the number of 15 inspections being performed at Wacker Polysilicon.</p> <p>16 MS. RHONE: Yes. That was during 17 the discussion, during the December board meeting, 18 with the number of inspections performed at Wacker 19 was 362 inspections, were performed in 2018. 20 There are a total of 764 vessels located at 21 Wacker. And thus far for 2019, there have been 22 74 inspections completed at that location.</p> <p>23 CHAIRMAN MORELOCK: Very good. Any 24 questions about that? Mr. Bowers was the one that 25 was very good on asking questions, that you've got</p>

<p style="text-align: right;">Page 154</p> <p>1 764 vessels and how many are being inspected. So 2 thank you for bringing that to the Board's 3 attention, as well as our visitors, and it looks 4 like we've got numbers that are more in line with 5 what you would expect for inspections on that 6 facility. So that's very good.</p> <p>7 MR. BAUGHMAN: Deborah, that was 74 8 completed to date?</p> <p>9 MS. RHONE: Yes, to date.</p> <p>10 MR. BAUGHMAN: So for the first 11 quarter, we've done 74. So for everything to get 12 up and going, we've got to pick up the pace for 13 the rest of the quarters, I guess. If we did that 14 many per quarter, we're --</p> <p>15 MS. RHONE: No, no, no. The total 16 for 2018 was 362 for the entire year.</p> <p>17 MR. BAUGHMAN: Got you. Okay. I'm 18 with you. You're on track. Very good. Thank 19 you.</p> <p>20 CHAIRMAN MORELOCK: Okay. Any more 21 questions about that?</p> <p>22 (No verbal response.)</p> <p>23 CHAIRMAN MORELOCK: All right. Our 24 next discussion item is Doris Barnett will provide 25 a quarterly update on the boiler computer system</p>	<p style="text-align: right;">Page 155</p> <p>1 and Jurisdiction Online.</p> <p>2 MS. BARNETT: Good afternoon. As 3 you know, I'm the IT liaison for the Jurisdiction 4 Online. And we're working to move boilers into 5 Jurisdiction Online sometime later this year. The 6 really good plus about this system to me is the 7 fact that everybody will be on the same system for 8 tracking inspections, and, also, it will allow 9 online payments and emailing of invoices. Those 10 are both huge items we've been looking to do for 11 quite a while.</p> <p>12 Right now, we are still doing some 13 requirement gathering, some scope planning, but 14 we've also started on doing the reporting and 15 letters and such that be coming out of JO. Of 16 course, they don't have the date to back it up at 17 this moment. It's still in the test system. Sam 18 and Chris have given you the numbers for the 19 various pieces we're working with.</p> <p>20 The JO system will allow us to track 21 delinquent past-due inspections, which we don't 22 have an enormous number of those compared to how 23 many live boilers we actually have, active 24 boilers. It will also give us a good way to track 25 code violations and compare those to delinquents</p>
<p style="text-align: right;">Page 156</p> <p>1 and such like that. So we're looking forward to 2 this.</p> <p>3 I don't know if -- I didn't hear you, 4 Sam, say how many actual active boilers we've got. 5 We've got close to 71,000, if I'm not wrong on 6 that number.</p> <p>7 MR. CHAPMAN: Active boilers, 8 70,736.</p> <p>9 MS. BARNETT: So, very close to 10 71,000.</p> <p>11 Our anticipation is that, working 12 with JO, it will be a more user-friendly system 13 that will have more accurate data. The data 14 itself is accurate in our current system. It's 15 just that sometimes reporting doesn't agree from 16 one screen to another. And we're looking to have 17 that corrected. That was an old audit finding, 18 and we want to correct anything that was 19 outstanding from any of our audits.</p> <p>20 We're also looking forward to being 21 able to sending invoices by email. Currently, we 22 can't, although the Unit is very proactive in 23 gathering email information so that when we do 24 move into JO, that will be a top priority.</p> <p>25 We don't have any estimate now on how</p>	<p style="text-align: right;">Page 157</p> <p>1 many of those will be emailed. I know that in the 2 elevator system we put in last year, it's 3 approximately 20 percent are being emailed. And 4 that's just simply because we don't have the email 5 information.</p> <p>6 We are also reviewing the files to 7 make sure our units file an SOP and noting where 8 we can improve our audit findings.</p> <p>9 We had an outstanding question. I 10 believe Mr. Toth was the one that asked the 11 question about does JO allow automatic payments. 12 No. I said I would check on that, and I did. And 13 there is no option at this time to allow the 14 automated payments to come out. The payments can 15 be made online; they just cannot be automated to 16 be taken out.</p> <p>17 MR. BOWERS: Can they do credit 18 card payments?</p> <p>19 MS. BARNETT: Yes. I believe we do 20 Discover, MasterCard, Visa, and American Express. 21 They can also use a check -- go online and use a 22 check in the same way you can do it with other 23 institutions. We just don't allow the automated.</p> <p>24 MR. BOWERS: So when do you 25 think -- is there a record kick-off date as far as</p>

<p style="text-align: right;">Page 158</p> <p>1 when you think you'll be actually going online 2 when inspectors can start using it? 3 MS. BARNETT: Right now, we 4 anticipate that we will have -- as of the next 5 board meeting, which is, I think, June 12th, we 6 should be in the last stages of testing and ready 7 to go live either the last week or so in June or 8 early July. I'm personally pushing for just after 9 Independence Day. 10 MR. BAUGHMAN: What issues have you 11 found, to date, that you can share with us? 12 MS. BARNETT: Right now we don't 13 have any issues that we can share, because we 14 don't have the system where we're actually able to 15 go in and test. We're still doing the 16 investigation and discussions. 17 DR. HARGROVE: Are there similar or 18 other types of systems like this, maybe in other 19 regions or states or what have you? 20 MS. BARNETT: There are several of 21 the jurisdictions throughout the states that have 22 Jurisdiction Online. There are also other 23 applications in use. We went with Jurisdiction 24 Online because it is the only application that has 25 boilers, elevators, and amusement devices.</p>	<p style="text-align: right;">Page 159</p> <p>1 MR. BOWERS: North Carolina uses 2 it. I know Alabama uses it. Mississippi, I think 3 they use JOL. 4 MS. BARNETT: I believe Alabama and 5 Illinois are also in there. 6 MR. BOWERS: Georgia, I think they 7 may -- 8 MS. BARNETT: That is correct. 9 Georgia and South Carolina, for sure. They're on 10 my notes. 11 CHAIRMAN MORELOCK: Any other 12 questions of Doris? 13 (No verbal response.) 14 CHAIRMAN MORELOCK: Thank you for 15 the report. 16 MS. BARNETT: Thank you. Have a 17 great afternoon. 18 CHAIRMAN MORELOCK: That takes us 19 to Item 10. 20 MR. TOTH: Mr. Chairman? 21 CHAIRMAN MORELOCK: Yes. 22 MR. TOTH: Do we have an 23 opportunity for any questions to the Board, or is 24 that something we needed to discuss beforehand? 25 CHAIRMAN MORELOCK: What we like</p>
<p style="text-align: right;">Page 160</p> <p>1 to -- 2 MR. TOTH: -- that have come up 3 during -- 4 CHAIRMAN MORELOCK: Yeah. What we 5 like to do is we added this discussion item topic. 6 So if you would, basically, get on the agenda by 7 saying this is an item or items that you would 8 like to discuss, and then that will -- 9 MR. TOTH: How about items that 10 have come up during this meeting of discussion? 11 CHAIRMAN MORELOCK: Well, then, by 12 all means I'll give you some time right now if you 13 want to talk about it. 14 MR. TOTH: If you don't mind. 15 Just to kind of go back to where we 16 talked about the steam generators. I had an 17 opportunity to take a look. I was mistaken. It 18 wasn't 2005. It was actually '92. It was truly 19 the first board case that has been documented. It 20 was BC9206. And what that's relating to, it is 21 relating to steam generators and high-temp 22 high-pressure boilers. 23 So as the board members know, the 24 differentiation between a high-pressure steam 25 boiler and a high-pressure water boiler has to do</p>	<p style="text-align: right;">Page 161</p> <p>1 with steam, anything over 15psi of steam. And 2 water is going to be anything that exceeds 160psia 3 water or 250-degrees Fahrenheit. 4 So what that board case did was 5 answer the question, did a steam generator, such 6 as a Clayton boiler that had no fixed water level 7 be required to be attended per the rule. And the 8 response was for steam boilers, yes; for water 9 boilers or more specifically to that board case, 10 it was hot oil heaters, whereas -- 11 CHAIRMAN MORELOCK: Fluid 12 vaporizers? 13 MR. TOTH: Fluid vaporizers, right. 14 And so that was the intent, the question for that. 15 So hopefully, that answers your question to that. 16 The other question I have, and it's a 17 bit of a concern and it was brought up during one 18 of the variances, is when we talk about the boiler 19 operator, but in the realm of what we're 20 discussing here, boiler attendant and boiler 21 monitor, and recognizing I want to get assurances 22 that we're going down the proper road here, or at 23 least I am with my client, is that you can have 24 individuals that are given the responsibility of 25 taking whatever readings that are out there, as</p>

<p style="text-align: right;">Page 162</p> <p>1 long as you still have someone that is a qualified 2 attendant on site. And the question comes up, we 3 have a certain situations where you may have a 4 security guard or you may have, in our case, a 5 security dispatcher that's been given the 6 responsibility as a boiler attendant. They need 7 to be trained as a boiler attendant, not just a 8 monitor.</p> <p>9 And it kind of confused me a little 10 bit, because I heard that there were some shifts 11 where we just had boiler monitors, but they are 12 also qualified to be the operator that's required 13 by the law.</p> <p>14 MR. BAUGHMAN: Well, even recently, 15 we've had, I want to say, a nurses station, and 16 that nurse could work in the position of a boiler 17 attendant, when, in fact, she's a boiler monitor.</p> <p>18 MR. TOTH: Sure. And that's where 19 the understanding -- and my client that was here 20 listened to that and says, "Well, hey, if they're 21 just talking about a boiler monitor, can't we do 22 this?"</p> <p>23 I said, "I think you're kind of 24 missing it. I want it to be put clear, and maybe 25 the best thing for me to do before the June</p>	<p style="text-align: right;">Page 163</p> <p>1 meeting is to submit a board interpretation and 2 let you actually put it down in writing, because 3 that is concerning. When we hear that, then they 4 say, "Oh, well, they don't have to go through the 5 proper training. They can just be somebody I'm 6 going to show them what gauge to look at." Not 7 under the variance. That's not it's intent.</p> <p>8 MR. BOWERS: What's wrong with the 9 term "boiler operator"? I mean, that's a term 10 we've used over the years, and now we've got 11 boiler attendant, which is kind of a blurred -- 12 what is the attendant. Is he just a person who 13 can come in there and take readings or is it a 14 person who knows how to do what they need to do, 15 low-water cutoffs, they need to do a water test, 16 they need to do --</p> <p>17 MR. TOTH: And they've been trained 18 to --</p> <p>19 MR. BOWERS: It's very blurred when 20 you use the word "attendant." Some people think 21 "attendant" is "monitor." Some people think 22 "attendant" is "operator."</p> <p>23 CHAIRMAN MORELOCK: But Harold, I 24 think some of that comes from -- you know, Shelby 25 County had certified boiler operators. And we've</p>
<p style="text-align: right;">Page 164</p> <p>1 went down that road of could we do that for the 2 whole state and it's -- we've made a little bit of 3 ground on it but not, and so the boiler attendant 4 is somebody that doesn't have a certification but 5 they've been trained to operate that boiler.</p> <p>6 MR. TOTH: And if I may add to 7 that. And the question has come up before this 8 body before when they say, "Well, who certifies 9 them?" Well, within the rules and regulations of 10 the State of Tennessee, the certification is the 11 responsibility of the owner/user. So when we 12 answer that question, you'll see that they're, in 13 other words, Parkwest Medical Center certified 14 boiler attendant.</p> <p>15 And to allude to your question, 16 Mr. Bowers, when we get it under a certain 17 definition, we can call it whatever we want as 18 long as that manual stipulates what those 19 responsibilities are.</p> <p>20 One of the things that we've seen 21 from years past is that blurred line between the 22 word "attendant" and knowing that we have a remote 23 attendant and we have a boiler attendant. And 24 they have different qualifications, but they could 25 also serve both roles as long as they are so</p>	<p style="text-align: right;">Page 165</p> <p>1 qualified.</p> <p>2 MR. BAUGHMAN: Well, even getting 3 down, as we go further and you get to analyzing 4 the 20-minute rule and the lack of some wording 5 that needs to be in there to qualify -- as you 6 said, the opener is the one that qualifies -- 7 well, then it gets to be will the owner -- so it's 8 a building, and that building is owned -- 9 actually, it's a leased facility and it's owned by 10 a real estate consortium out of Chicago, let's 11 say. So as we qualify the word by the owner, is 12 it the owner of the equipment or is it the owner 13 of the building? Because in a lease facility, the 14 boiler is part of the building itself. So at some 15 point in time, we can go through and have some 16 more, probably, clarification needed to help in 17 this whole analyzation process.</p> <p>18 MR. TOTH: Yeah. I don't want to 19 get my hand slapped for interrupting.</p> <p>20 Great question. The thing is, when 21 we look at it, we look at the rules and 22 regulations, calling it an owner/user, just like 23 the representation. It's the owner/user, owner or 24 user, okay, not an owner/user company. We've had 25 that discussion for about three hours 12 years</p>

<p style="text-align: right;">Page 166</p> <p>1 ago. We won't do that again.</p> <p>2 But it is whoever is not just owning</p> <p>3 it. Maybe they owned it and operated it, but</p> <p>4 really it's who is operating it, who has got the</p> <p>5 ultimate responsibility for it.</p> <p>6 So when we look at the 20-minute</p> <p>7 rule -- and this is where -- this is where we've</p> <p>8 talked about this for decades about what can we do</p> <p>9 about boiler operators or what can we do about</p> <p>10 more qualifications. When I explain it to people,</p> <p>11 if we require you to go look at that boiler every</p> <p>12 20 minutes, that can be an individual that is</p> <p>13 taking a look and taking readings every</p> <p>14 20 minutes, making sure that the boiler is not</p> <p>15 about to shake off of its foundation, as long as</p> <p>16 we're doing it every 20 minutes.</p> <p>17 When we go into a situation where</p> <p>18 we're talking about boiler variances and spreading</p> <p>19 that out for four hours, we need to have some</p> <p>20 people that are a lot more qualified.</p> <p>21 And, you know, somebody that does a</p> <p>22 lot of training as you do, Mr. Baughman, we like</p> <p>23 to see people more qualified, people come to our</p> <p>24 classes, and you're, like, wow.</p> <p>25 MR. BAUGHMAN: And so recently,</p>	<p style="text-align: right;">Page 167</p> <p>1 we've run into two boilers that were operating</p> <p>2 under the variance and both of them had -- one had</p> <p>3 blown the site glass out of the rear and was</p> <p>4 throwing heat out and it'd catch on fire, and the</p> <p>5 other one had blown a gasket on the door, and</p> <p>6 there again, was throwing that fire and heat right</p> <p>7 out. And so that whole question came about, and</p> <p>8 my recommendation to them was, "You've got this</p> <p>9 four hour, but that doesn't mean you're mandated</p> <p>10 to check it just once every four hours.</p> <p>11 MR. TOTH: That's right. That's</p> <p>12 right. It's a documented check, isn't it?</p> <p>13 MR. BAUGHMAN: Yes. And so, you</p> <p>14 know, those are things that -- we never have that</p> <p>15 discussion because, there again, it's not part of</p> <p>16 our end of it. But we, as confident boiler people</p> <p>17 and in the safety end of it, want to have that</p> <p>18 conversation saying even though this thing is</p> <p>19 giving you the mandate that you can check it once</p> <p>20 every four hours, it's recommended that we check</p> <p>21 it more often than that.</p> <p>22 And I know we don't ever really have</p> <p>23 that discussion because it's not part of this.</p> <p>24 And although we discuss things that aren't part of</p> <p>25 this as it is, but I would love to continue that</p>
<p style="text-align: right;">Page 168</p> <p>1 mindset of not necessarily checking the boiler</p> <p>2 just once every four hours.</p> <p>3 MR. TOTH: And to that, the client</p> <p>4 out in Chattanooga -- yes, the checklist, the</p> <p>5 requirements say once every four hours; their</p> <p>6 choice is to do it once every two hours. That's</p> <p>7 what they do.</p> <p>8 And I encourage this body to continue</p> <p>9 to recommend that to the people that appear before</p> <p>10 it. We know it's every four hours. I highly</p> <p>11 recommend more often than that.</p> <p>12 MR. BAUGHMAN: Well, you guys came</p> <p>13 out of a Navy background. And the number of times</p> <p>14 you check a boiler within that operational period</p> <p>15 versus what we're doing in the industry -- but I</p> <p>16 think we're heading in the right direction.</p> <p>17 MR. TOTH: Thank you for the time.</p> <p>18 CHAIRMAN MORELOCK: Very good.</p> <p>19 DR. HARGROVE: I would add that in</p> <p>20 the context of the different titles, because I was</p> <p>21 looking at that, the importance of the job</p> <p>22 description between boiler monitor, the technician</p> <p>23 and a couple of other different titles that we all</p> <p>24 saw with regard to, you know boiler operations.</p> <p>25 So for companies like Neville's and yours, that</p>	<p style="text-align: right;">Page 169</p> <p>1 kind of advice to your client is, I think,</p> <p>2 critical for this Board.</p> <p>3 MR. TOTH: And I do encourage that.</p> <p>4 That's a very good recommendation, Dr. Hargrove.</p> <p>5 Because I recommend that when I sit with my</p> <p>6 clients -- and I imagine James says the same thing</p> <p>7 where his -- is to let's call it -- what is it for</p> <p>8 you? Don't let me tell you what you call that</p> <p>9 individual. You tell me. And then I will consult</p> <p>10 you and advise you if that fits within the</p> <p>11 framework of what we're looking for.</p> <p>12 And so when we -- I get those, you</p> <p>13 know, they say, "I'm a service technician," okay,</p> <p>14 that's why we define, you know, who is a boiler</p> <p>15 attendant, which area does that fall under. And</p> <p>16 so then you will see "service technician" as being</p> <p>17 a boiler attendant and put into the job</p> <p>18 description and put into the org chart, and things</p> <p>19 of that nature, or in the glossary of terms.</p> <p>20 CHAIRMAN MORELOCK: And so it's a</p> <p>21 balancing act for the Tennessee Board of Boiler</p> <p>22 Rules in the fact that the engineer or the boiler</p> <p>23 operator or the service provider in this, we want</p> <p>24 do define everything. But as Mr. Bailey will tell</p> <p>25 you, if we're not careful, somebody could come and</p>


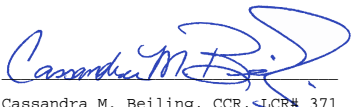
Page 170

1 say, "Well, you're excluding me from competing
 2 with the products that I have to do the same
 3 thing. So the ASME and the National Board are
 4 both aware of that. That's why when you read
 5 their requirements, people are saying, "Well, you
 6 know, it ought to be more prescriptive," and it's,
 7 like, you just -- you can't do that.
 8 MR. TOTH: Right.
 9 CHAIRMAN MORELOCK: So this is
 10 where we need to work as taking out discussion
 11 items. I think, you know, after what we've
 12 learned today, we need to take another look at the
 13 checklist and maybe to give it an update. And so
 14 we can add that as discussion items and eventually
 15 an active item for future board meetings.
 16 And again, you know, I encourage
 17 people to take advantage of this discussion topic
 18 because it's really helpful to just have a good
 19 open discussion. It gets recorded so people can
 20 even read what we discussed.
 21 So yes, your beautiful suit will be
 22 forever mortified -- but I'm having too much fun
 23 with that. But the long story short is, it is
 24 good to have these conversations.
 25 MR. NEVILLE: For the record, I do

Page 171

1 have some information on 19-2, the University of
 2 Tennessee Health Science Center. All of those
 3 boilers are hardwired currently, and the new one
 4 will be hardwired as well.
 5 CHAIRMAN MORELOCK: Okay. Good.
 6 Thank you for that update.
 7 Anything else?
 8 (No verbal response.)
 9 CHAIRMAN MORELOCK: All right. All
 10 hearts and minds cleared and we'll go to Item 11,
 11 which is adjournment. And the next meeting will
 12 be Wednesday, June 12th, here at the Department of
 13 Labor. And I hope you-all have a very enjoyable
 14 spring. Thank you.
 15
 16 END OF THE PROCEEDINGS.
 17
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 19
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 21
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 23
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Page 172

1 C E R T I F I C A T E
 2 STATE OF TENNESSEE)
 3 COUNTY OF WILLIAMSON)
 4 I, Cassandra M. Beiling, a Notary Public
 5 in the State of Tennessee, do hereby certify:
 6
 7 That the within is a true and accurate
 8 transcript of the proceedings taken before the
 9 Board and the Chief Inspector or the Chief
 10 Inspector's Designee, Tennessee Department of
 11 Labor & Workforce Development, Division of
 12 Workplace Regulations and Compliance, Boiler Unit,
 13 on the 13th day of March, 2019.
 14
 15 I further certify that I am not related to
 16 any of the parties to this action, by blood or
 17 marriage, and that I am in no way interested in
 18 the outcome of this matter.
 19
 20 IN WITNESS WHEREOF, I have hereunto set my
 21 hand this 3rd day of May, 2019.
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 24 Cassandra M. Beiling, CCR, LCR# 371
 Notary Public State at Large
 25 My commission expires: 3/15/2020

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 20
 21
 22
 23
 24
 25

<hr/>	1500 94:24	153:19 154:16	44 85:11 87:16 93:22 95:11 99:6
<hr/> (15psi 161:1	2019 153:21	<hr/> 5
(2) 118:21	160psia 161:2	22 74:12,17	5 9:12 77:13 79:18 107:3 111:13 151:6,9, 11,13
(3) 62:19	175 116:4	225-bed 115:19	5000 70:8,10
<hr/> 0	18-08 14:9	24 45:15 137:18,23 138:15 140:13	5000s 76:6
<hr/> 08 74:20	18-14 40:7	24-hour-a-day 140:6	536 9:22 11:2
<hr/> 1	19 59:9 97:23,25	24/7 44:17,21,24 45:24 115:22 125:7 129:24 135:11 147:12	57 10:6
<hr/> 1	19-1 68:23	25 9:24 10:18 93:1 137:1	<hr/> 6
1 26:21 27:10 58:14 71:23 72:9 73:18 75:4 80:25 103:17 113:14 115:25 118:19 135:16, 17,20 138:1 144:2 150:10,11,18	19-2 83:5 171:1	250,000 135:25	6 132:1
1,000 55:9	19-3 103:2	250-degrees 161:3	6000 24:10,14 70:5 76:3
1,000-degrees 55:7	19-4 115:4	275 130:3	686-bed 135:8
1,367 9:21 10:24	19-5 124:16	2:00 90:6	6:00 90:6
1,903 9:22 11:5	19-6 129:6	<hr/> 3	6:30 44:23
1.b 62:15 63:5,6	19-7 134:23	3 24:9 25:1,5 34:18 75:5,19 77:16 78:2 150:12 151:12	<hr/> 7
10 25:1 26:23 131:24 132:4 137:12 159:19	19-8 7:11 145:18	30 93:1	7 78:16 79:4 112:15 136:18
100 62:2	1954 75:6 81:19	300 96:24	7,380 9:19
10:45 83:2	<hr/> 2	300-horsepower 146:14	70,736 9:21 156:8
11 74:13,18,20 105:23 171:10	2 24:8 75:5 76:17 77:11, 20 81:1,21 85:9 116:1 130:1 135:18,21 138:1 144:2 150:11,18	351 150:23	70d10s 26:1
119 10:5	2,708 9:18	362 153:19 154:16	71,000 156:5,10
12 8:13 10:6 44:22 120:12 165:25	20 16:20 93:16,17 123:2,7 140:9 157:3 166:12,14,16	38 113:20	74 153:22 154:7,11
12th 158:5 171:12	20-minute 71:14 100:14 101:1 113:12,13 165:4 166:6	389 125:12	764 153:20 154:1
13 83:21 84:4,9 97:11, 18 98:8 100:20 101:2,6, 20 102:3,5 150:10	200-horsepower 146:13,21 151:14	3a 73:16	7800 61:19 116:23 120:1 127:2
130 66:8	2000 25:17 27:12	3c 73:16 74:1	<hr/> 8
14 83:7,20 86:24 100:25 101:18	2005 48:13 51:20 160:18	<hr/> 4	8 62:15 63:2 79:18 80:3 113:6 143:20
140-degree 66:9	2011 142:7	4 8:12 24:9 25:5 27:16, 17 34:18 75:5,19 76:3 150:12 151:12	85 103:20
1400 87:17 88:9 92:6	2014s 65:5	4,672 9:19	<hr/> 9
14th 101:11	2015s 65:5	40 10:7 85:15	9 46:20 79:18 80:4
15 142:12	2017 142:7	42 55:22	
	2018 8:13 10:3 17:22 19:20 20:9 34:7 38:22		

105:24 131:24,25 132:14 153:12	activities 78:23	153:2	announce 6:22
92 160:18	actual 43:21 121:11 146:19 147:7 156:4	afternoon 39:19 155:2 159:17	announcement 6:12
<hr/> A <hr/>	acute 115:19	agency 9:19 11:2	announcements 5:10, 25 7:6 11:12
A-1 130:16	add 7:10,13 20:14 32:16 47:3 50:22 61:5 72:15 74:9 75:24 79:1 85:19,22 98:6,11 101:10,19 112:23 119:7,18,24 121:13,14 122:10,13 132:8 148:11 164:6 168:19 170:14	agenda 5:5 7:9,10,11, 14,16,20 8:11 153:13 160:6	annual 31:3 112:19 113:5 131:5 137:6
A-5 85:16	added 16:4 23:24 41:7 44:12 75:16 85:10,13, 20 115:21 123:10 135:25 136:1 146:23 160:5	aging 113:14	Annually 31:7,8
ability 96:2	adding 78:10	agree 29:18 60:19 61:9 62:1 109:13 156:15	answering 90:7
absolutely 23:12 29:17 47:16 58:17 62:12,13 64:7 122:17	addition 75:19 78:22 133:9 146:20	Agreed 35:8	answers 138:21 161:15
absorb 65:21	additional 18:11 82:7 127:18 136:3	Ahead 59:13,16 89:1	anticipate 158:4
Abstention 129:1	additions 7:16	air 65:18 140:22	anticipation 156:11
Abstentions 8:7 9:8 21:23 39:7 68:13 82:16 102:20 114:22 124:10 134:15 145:10 153:5	address 25:4,16 32:19 33:4,7 34:23 38:20 41:16 96:16	Alabama 159:2,4	anymore 93:15
accept 7:19 8:23,25 36:13	addressed 17:23 19:19 38:22 71:17 76:8 79:5,11	alarm 16:16 71:9,10,23 77:22 89:6,7,9,10 107:17,25 108:4 110:13,14,15,19,21 137:14 144:1 147:18	apologize 16:7 41:3,13 67:9,13
acceptance 144:22	addressing 18:14 67:13	alarms 15:9,17 71:1 89:4,13,15 110:24 111:1	appendix 15:23 16:4, 21 18:15,16 19:1,4,5 22:9 24:25 31:14 32:5 34:25 46:19 60:6 61:12 71:6 72:7,13,14,15,20, 22 75:3 78:9,20 85:16, 24 91:6 110:6 111:11 112:4 113:14 116:22 118:4,23 119:3,25 121:14 125:20,23 126:1,14,22 130:16 137:25
access 63:15 89:22 90:13 119:22 130:8 132:20 133:4,8	adjacent 108:9	Allen 28:15	applicable 50:20 78:12
accessibility 150:13, 17,20	adjoining 171:11	Allen-bradley 25:19, 21 26:4,8,10,21 28:15	application 53:8 158:24
accessible 151:16	adjustments 86:8	Allen-bradley/ rockwell 28:18	applications 158:23
accomplished 100:12	adoption 7:9	allowed 42:3 79:23 80:5	appropriately 151:8
accountability 60:8	advantage 170:17	allowing 92:7	approval 8:13 19:24 22:3 34:5 38:18 101:18
accountable 62:9	adverse 147:22	allude 164:15	approve 20:8 21:8 35:14 67:24 81:15,25 100:24 114:6,9 123:21 128:12 134:3 139:3
accredited 15:13	advice 81:7 169:1	alluded 92:5 149:5	approved 9:12 10:11 22:2 39:11 68:17 82:20 102:24 115:1 124:14 129:5 134:19 145:14 153:9
accumulated 49:24,25	advise 169:10	alluding 94:3	approving 22:9
accumulation 50:3	aerator 76:12	amended 7:20	
accurate 156:13,14	affirmative 8:4 9:5 21:20 39:4 68:10 82:13, 24 102:17 114:19 124:7 128:23 134:12 145:7	American 157:20	
acid 43:25 53:23 65:18, 19,20		Ampli 37:2	
acids 46:15 67:7		amplifier 37:4	
act 169:21		amusement 158:25	
action 34:12		analyzation 165:17	
active 10:6 155:23 156:4,7 170:15		analyzing 165:3	
		Andrew 13:2	

<p>approximately 70:4 87:17 103:20 115:19 116:4 125:12 130:3 135:8 157:3</p> <p>area 67:12 105:4 140:10 141:16 169:15</p> <p>asks 32:10</p> <p>ASME 58:19 170:3</p> <p>assembled 51:14</p> <p>assigned 78:22 112:18</p> <p>assigns 58:23</p> <p>assist 93:4</p> <p>Assistance 10:1</p> <p>assistant 10:14 11:23 44:20</p> <p>associate 125:14</p> <p>assume 106:13</p> <p>assumed 98:5</p> <p>assuming 32:24 112:7</p> <p>assurances 161:21</p> <p>assure 141:15</p> <p>atmospheric 118:6,14 128:4,5</p> <p>attend 70:22 73:4 76:24 111:17 113:9</p> <p>attendance 11:15,16</p> <p>attendant 7:13 15:19 59:15,16 60:11 62:16 72:19,24 78:24 80:4 86:16 88:16 104:2 106:2 111:19 112:7,8, 10 113:8 116:8,10 118:25 119:16 125:17 132:1,2,6 139:18,22 143:21 147:5,11,12,15, 17,21,23,25 150:2,3 161:20 162:2,6,7,17 163:11,12,20,21,22 164:3,14,22,23 169:15, 17</p> <p>attendants 44:18 48:2 70:18 71:17 79:22 95:19 112:1,21 119:6 130:11,20,21 131:6 136:17 137:15 147:3</p>	<p>149:23</p> <p>attended 6:20 48:8 122:24 142:9 161:7</p> <p>attendees 5:13</p> <p>attending 70:19 117:23</p> <p>attention 47:8 63:10 65:11 75:1 151:14 154:3</p> <p>audible 89:7 107:25 108:5 110:12,14</p> <p>audience 6:7</p> <p>audit 10:10 156:17 157:8</p> <p>audits 156:19</p> <p>automated 157:14,15, 23</p> <p>automatic 87:25 157:11</p> <p>automotive 125:4</p> <p>auxiliary 89:14</p> <p>availability 93:23</p> <p>aware 5:15 6:16 58:19 59:21 147:10 170:4</p> <p>aye 8:3 9:4 21:19 39:3 68:9 82:12 102:16 114:18 124:6 128:22 134:11 145:6 153:1</p> <hr/> <p style="text-align: center;">B</p> <hr/> <p>B-1 85:24</p> <p>B2 120:1</p> <p>back 5:6 16:19 19:21 23:6 28:1 34:23 38:19 42:14 49:1,4 52:16 53:6 54:16 56:7 58:15,20 65:21 75:18 83:1 95:11 98:11 107:13 110:13 123:7 132:5 139:7,13 150:4 155:16 160:15</p> <p>background 43:13 56:25 168:13</p> <p>backing 22:6</p>	<p>bad 48:16</p> <p>Bailey 6:2 12:10 40:11 45:6,8 67:2,10 104:10 117:8 169:24</p> <p>balancing 169:21</p> <p>Barnett 13:20 154:24 155:2 156:9 157:19 158:3,12,20 159:4,8,16</p> <p>bars 103:15</p> <p>base 15:2</p> <p>based 20:8 67:25 82:1 101:21 114:9,10 120:22</p> <p>basic 105:5,9</p> <p>basically 16:21 32:1 160:6</p> <p>basis 137:6</p> <p>Baughman 7:21 10:15, 20,25 11:3,6 12:4 17:6 18:13 19:7,11,15 20:13, 18,22 22:6,12,15 23:8, 12,16 24:4,12 25:9,20, 23 26:11 27:1,7,14,23 28:4,16,20 29:14,18,22 30:2,5 31:10,25 32:4,7, 18 33:3,6,24 34:13 35:5 36:5 37:9,20 38:13 40:1 46:18,23 47:2,5,10,14, 19 49:6,15,19,22 50:6, 12,18 51:16,21 52:1,3, 6,8,12,16,23 53:3,13,21 54:4,17 55:9,18,22 57:25 58:4 65:4,14,23 66:1,10,14,18,22,25 67:4,9,22 69:7 73:10, 13,15 74:1,14,23 75:8, 15,18,22,25 76:4,7,13 77:8,13 81:14,18,22 87:10 88:25 89:2,3 90:24 91:7,10,13,23 93:7,18,25 95:23 96:16 98:16,20,25 100:5,10 104:15 105:22 106:12, 19,24 107:1,3,11,16,19, 24 108:13,20,24 109:3, 24 110:9,16,22 111:3 113:19,22 117:14,17,21 118:3,9 121:17,21 122:23 123:6,9 126:5 128:3 131:14 132:17,22 133:1,14,20,22 138:2,6,</p>	<p>10,13,20 139:15 142:2, 6 144:21 148:6 149:1, 10,15 150:9 151:1,9 152:2 154:7,10,17 158:10 162:14 165:2 166:22,25 167:13 168:12</p> <p>Baughman's 78:13</p> <p>BC 48:15</p> <p>BC05 48:16</p> <p>BC9206 160:20</p> <p>beautiful 170:21</p> <p>Beiling 11:18</p> <p>Benson 146:9</p> <p>BI 48:15</p> <p>big 8:21 38:5 58:21 146:2</p> <p>bind 74:7</p> <p>bit 11:12 24:21 50:23 104:11 161:17 162:10 164:2</p> <p>BLAIN 85:6</p> <p>blowing 32:8</p> <p>blown 32:20 72:18 167:3,5</p> <p>blurred 163:11,19 164:21</p> <p>BMS 25:17 27:12 90:19</p> <p>BMS2000 25:12 28:14, 17,21,22 29:11,24 34:16</p> <p>board 5:4,22 6:15,17 10:13 11:20 12:1,3,4,6, 8 17:22 18:3 19:16,19, 22 20:6,15 22:4,23 34:5,11,15 35:3,4,15 36:6 37:22 38:1,19,22 40:17 41:24,25 42:8,9 43:16 47:24 48:10,16, 20 51:12 58:19 59:10 82:2 104:18 117:16 118:15 142:18 143:14 146:22 147:10 150:8 152:8 153:17 158:5 159:23 160:19,23 161:4,9 163:1 169:2,21</p>
---	---	---	--

170:3,15	14,23 165:14 166:9,11, 14,18 167:16 168:1,14, 22,24 169:14,17,21,22	brand-new 42:22	
Board's 23:14 35:10 144:24 154:2	boiler/pressure 6:23	Brandeberry 13:16 115:15 117:25 123:8,10	C
body 164:8 168:8	boilers 14:11,24 15:1, 25 34:18 40:9 42:2,4 43:3 52:18 53:10,11,12 65:9 66:4,6 69:1 70:3 71:11 72:9 75:19 76:1, 24 79:14 83:7,20,21 84:5 86:15,23,24 91:19 93:15 97:12 98:8,21 100:20 102:3,5 105:5 115:6,21,22 116:14,17, 21,22 118:21 124:17 125:7,18,21 129:8,23 130:16,18 134:25 135:10,18,19,21,22 136:3 137:24,25 139:9, 12,21,24 140:9 141:12 142:7 146:12,14,24 148:23 151:17 155:4, 23,24 156:4,7 158:25 160:22 161:8,9 167:1 171:3	break 82:23 83:2 108:14,16 137:20	C-2 89:15
boiler 5:4 7:12 9:13 12:21,23 15:8,9,19,21 16:16,17,20,22,24,25 17:17 19:22 20:10 22:3 24:8,9 25:1,5 30:11,22 31:11,13 32:4,9,13,24 34:23 38:20,23 39:12 40:25 43:17,22 44:14, 18 46:4,8,10 47:23 48:7 49:12 50:15 51:1,4,10 52:18,19 53:15,16 54:5, 13,15,20,24 55:3,6,12 57:14 59:15 60:10 62:15 66:16 67:14 68:1 70:7,8,9,10,18,20,22 71:1,8,16,22,23,25 72:3,6,9,14,19,24 73:4, 5 74:17 75:3,4,6 76:2,3 77:17,22 78:23 79:19, 22,24 80:4,5,6 81:20 82:2,3 83:22,25 84:14 85:2,14,15,17,18,24,25 86:1,16,19 88:1,17 89:4,8,9 90:17,25 91:9, 12 93:11,12 94:8,10,14, 19 95:4,19,20,22 96:2, 20 97:10 101:7,11,20, 23,24 103:3,16,17,21, 24 104:2 105:2,9,22 106:1,7 107:9,12 108:10,22 110:1 111:17,19 112:6,18,21 113:7,8,9 114:12 116:1, 7,9,16,18,19 118:4,25 119:6,16 120:11,15,19 122:24,25 123:3 125:11,16,19,20,24 130:3,11,19,21,22,24 131:6 132:2 135:6 136:17,23,25 137:13,15 139:2,17,21 140:1,5,12, 14 141:20 142:1,18 143:2,12,21 146:6,22 147:3,10,11,15,17,21, 22,24,25 148:20,21,25 149:23 150:2,11,18 151:6,13,15 152:9 154:25 160:25 161:6, 18,20 162:6,7,11,16,17, 21 163:9,11,25 164:3,5,	breaks 108:17	C-4 24:25	
Boisico 12:13 40:20	Boisico 12:13 40:20	BREND BERRY 120:10,20,24 121:2,19 122:25 123:14	C2 27:4
book 29:11 61:4 148:17	Boisico 12:13 40:20	Brian 12:2	C4 26:20 27:4,5,6,7
books 64:7	book 29:11 61:4 148:17	briefly 41:20	call 5:8 15:21 21:18 26:20 38:16 39:1 43:18 44:19 68:8 71:5 80:13, 25 82:11 99:17 102:15 105:23,25 106:2,3,4,10 114:18 116:17 124:6 128:22 134:11 145:3,6 147:15,24 153:1 164:17 169:7,8
bottom 51:8 77:11 96:11	books 64:7	Brimmer 12:14 41:1, 17,20 42:18 57:12,16, 24 58:2,8 59:1	called 60:19 74:17 133:2
bound 74:10	bottom 51:8 77:11 96:11	bring 36:15 47:15 49:7, 12 50:9 93:4,19	calling 165:22
Bowers 7:23 9:2 12:6 17:8 19:9 21:7 23:3 35:13 45:2,7,14 46:3,9, 13 56:3,8,12,15,17,24 57:6 73:8 82:5 94:21 95:2,6 97:1 102:2,7 104:16 117:4 123:21 126:7 128:12 134:3 139:16,20 140:15,18, 21,24 141:3,5,11,14,19, 22 145:1 148:8 151:18 153:24 157:17,24 159:1,6 163:8,19 164:16	bound 74:10	bringing 112:25 154:2	calls 15:6
Bowery 13:4 103:11 104:7,12 105:1,13,20 106:15,23,25 107:2,15, 18,22 108:17,21 109:1, 7,21	Bowers 7:23 9:2 12:6 17:8 19:9 21:7 23:3 35:13 45:2,7,14 46:3,9, 13 56:3,8,12,15,17,24 57:6 73:8 82:5 94:21 95:2,6 97:1 102:2,7 104:16 117:4 123:21 126:7 128:12 134:3 139:16,20 140:15,18, 21,24 141:3,5,11,14,19, 22 145:1 148:8 151:18 153:24 157:17,24 159:1,6 163:8,19 164:16	broad 127:18	campus 15:11 17:3 93:2 130:24
	Bowery 13:4 103:11 104:7,12 105:1,13,20 106:15,23,25 107:2,15, 18,22 108:17,21 109:1, 7,21	Brooks 70:6 125:19,21 127:2 130:17 146:14,21	Canonico 6:16,20 7:3 60:23
		brought 47:7 48:1 72:16 99:7 146:22 161:17	capability 46:17
		buck 38:4	capacity 118:10 136:3
		building 5:13,14 72:5 83:24 85:9,11,12,13,14, 20,23 86:25 87:15,16 88:10 92:25 95:11 99:6 125:9 127:22 149:4 165:8,13,14	capital 151:5
		buildings 87:2 93:22	capture 8:20
		built 51:11,13 136:4	captured 19:23
		burn 65:18	card 157:18
		burner 16:6 28:22 29:4, 7 43:18 70:5 116:23 126:24	care 31:21 45:19 47:13 76:9 80:10 84:15 115:19 137:1,11 140:10 152:16
		Burnham 116:21	careful 169:25
		burning 46:15 67:7	caretake 58:24
		business 11:11 14:4 68:22,23 83:5 124:15 129:6 134:22 145:18	Carolina 159:1,9
		busy 95:19 137:23	carryover 52:25
			Carson 13:2
			cart 45:22
			case 48:16,20 57:2,7 58:22,24 93:4,6 138:18 147:18 160:19 161:4,9

162:4	7,10,15 39:5,7,10,20,24	148:12	clarification 29:23
cases 50:17	40:2,5,11,16 43:11	changed 17:12 43:1	36:6,9 46:19 63:19
Cash 12:16 40:24 44:11	45:4,9,12 56:1 58:10	64:14 65:10	90:23 92:4 165:16
54:9,12 55:7,14 63:16,	59:4,8,20,23 60:1,5,15,	changing 63:23 72:16	clarified 121:21 126:22
18,25 64:16 65:7,16,17,	18,22,25 61:3,7,21,24	86:3	clarify 10:16 29:15,20
25 68:20	62:7,14,22 63:3,7,11,	Chapman 9:14,16	41:12 85:7
Cassandra 11:17,18	13,20 64:3,9,11,21 65:2	10:18,22 11:1,4,24 16:1	clarifying 109:2
catch 167:4	67:17,20,23 68:4,7,11,	17:19 18:7 19:13 21:1	classes 166:24
categorized 46:8	13,16,21 69:4,9,13,18	34:24 35:24 39:16 69:4,	classification 76:20
caught 48:16 74:11	73:6,9,11,14 74:19	11 122:3 139:5 156:7	classifications 137:7
CB-HAWK 126:23	76:14,16 77:1,4,10,14	chart 59:9,12,17 60:2	classified 48:6 80:6
CB780 127:2,4,8,10	78:1,4,7,19 79:4,9,16	76:20 111:11,24 118:24	92:12 116:9 130:11
CCR 44:17 46:1	80:1,9,17 81:2,6,11,16,	125:25 126:15 131:19	classifying 79:14
cell 5:19	24 82:6,10,14,16,19,25	149:21 152:5,12 169:18	Clayton 48:1,5 161:6
Celsius 55:8,9	83:4,14,18 84:1,4,8,11,	Chattanooga 168:4	Claytons 48:22
Celsor 117:20	14,20,24 85:3 86:7,10,	check 24:19 32:23 37:3	clean 6:5,10
Centennial 13:9	13 87:6,11 88:23 89:1,	95:10,14 96:6 98:23	clear 106:11 138:21
134:23 135:6 136:25	17 90:9 91:25 92:14	99:3 157:12,21,22	162:24
center 7:12 13:9,22	94:2,8,12,17 95:5,16,25	167:10,12,19,20 168:14	clearance 151:17
68:24 69:5,6,8,10,23,25	96:8,15,22 97:11,16,20,	checked 123:2	cleared 171:10
70:2,21 83:6,10,13	21,22,25 98:2,10,19	checking 32:8,21 37:7	Cleaver 70:6 125:19,21
130:7 132:19 133:10	99:10,13 100:19,23	168:1	127:2 130:17 146:14,21
134:23 135:7 145:19	101:4,9,15 102:4,8,11,	checklist 31:12 32:10	Cleaver-brooks 70:10
146:5 164:13 171:2	14,18,20,23 103:1,7	37:24 38:5 46:20 73:16	client 92:17 161:23
central 15:14 16:17,23	104:13,17 105:21 109:8	94:4,6 96:10 97:24	162:19 168:3 169:1
93:10 94:23	111:6,9,23 112:3,11,14	98:7,12 113:20 122:5,	clients 92:10 169:6
cents 29:3	114:2,4,8,14,17,20,22,	10 149:12 168:4 170:13	close 148:20 156:5,9
certification 164:4,10	25 115:3,11 117:2,5,7,	checks 92:24 116:15	closer 63:10
certified 60:10 147:3,5,	8,10,15 118:18 119:11,	123:1	code 9:23 37:12 44:3
11 163:25 164:13	15,19 120:5 121:5	Chicago 165:10	61:15 71:13,15 110:17
certifies 164:8	122:4,7,17,20 123:16,	chicken 75:7	155:25
Chad 12:19 124:25	19,24 124:2,5,8,10,13,	chief 9:13 10:1,15	codes 16:13 61:13,16,
Chairman 5:2 6:2,11,	21 126:3,6,8,11,18	11:23,24 37:15 123:23	18,20 62:6 71:6,7,8
19 7:5,8,18,22,24 8:2,5,	127:7,12 128:1,7,10,15,	128:14 134:5 144:22	Coen 16:5 24:8 25:10,
7,10,18 9:1,3,6,8,11,16	18,21,24 129:1,4	149:8	25 27:12 28:22 31:24
10:12 11:7,10 12:2	131:10,15,23 132:11,15	chief's 10:13,14	coil-type 49:17,19
14:2,17 17:4,7,9,16,21	133:23 134:1,7,10,13,	chillers 136:2	coiled 48:22
18:1,4,9,25 19:3,8,17	15,18,21 138:23 139:6	choice 168:6	coincided 110:2
20:5 21:2,5,11,14,17,	143:1,5,10,18,23 144:5,	chosen 42:13	cold 14:24
21,23 22:1,11,14,16,25	9,16,19,23 145:2,5,8,	Chris 10:1 11:22 12:25	colleague 54:9
23:5,9,13,19,22 24:2	10,13,16,23 148:4,7,9	121:2 155:18	
26:24 30:7 33:9,13,20,	149:16,19,22,25 150:5,	Chris's 18:24	
25 34:3 35:2,7,9,17,20,	7 151:21,24 152:7,14,	circulate 56:4,6	
23 36:4,19 37:21 38:3,	19,22,25 153:3,5,8,11,	circulating 56:4,7 57:1	
	23 154:20,23 159:11,		
	14,18,20,21,25 160:4,		
	11 161:11 163:23		
	168:18 169:20 170:9		
	171:5,9		
chamber 50:5	change 33:1 36:22		
	37:8 46:20,25 64:19		
	80:23 84:9,12 132:13		
	138:7,25 139:1,8,11		

color 131:21	complete 19:25 20:11 28:21	constructed 148:14	controls 15:2,24 28:6 55:11,12 70:7,9 91:19 97:3 112:16 151:15
column 31:13 32:8,9, 15,17,20 33:1,7 72:15, 18,19 76:8	completed 10:9 146:23 153:22 154:8	consult 169:9	conversation 42:17 167:18
columns 150:20	completely 140:5 144:12	Consulting 12:13 40:20 146:1	conversations 170:24
combust 65:20	completing 5:22	contact 132:7	Conversion 40:7
combusted 43:23	compliance 57:20	contacted 41:17	converted 14:24
combusting 66:2,15	components 28:24	contents 41:9	copies 41:5
comfortable 20:6	computer 154:25	context 168:20	copy 21:9 41:4,11 149:8,9
comment 78:13 80:11, 20 89:18 100:5 121:7 126:19 131:24 149:20	concern 96:23 107:25 108:2 161:17	Continental 50:2	corner 85:11
comments 8:22 11:8 17:23 18:12 19:19 20:10 23:24 30:8 34:1, 4,7 38:12,20,22 64:10 65:3 67:18,25 68:5 76:14 81:8,9 82:2,7 92:1 99:11,22 101:22 104:17 105:21 111:7 113:18 114:11,15 117:15 118:19 119:2 123:17 126:9 128:2,8 131:16 133:24 134:8 144:25 145:3 148:10 151:22 152:8,23	concerned 40:14	contingency 34:21	corporate 146:10
commissioned 81:20	concerns 34:11	contingent 19:24 34:5, 6 35:14 38:17,18 67:24 81:15 101:18,21 114:7 123:22 128:13 134:4 144:21 152:3,4,5,7	Corporation 124:16
communicate 106:1 132:2	concludes 68:22	contingently 20:7 22:2 39:11 68:17 81:25 82:20 102:24 114:9 115:1 124:14 129:5 134:19 145:14 153:9	correct 17:14,15 24:10, 11 50:3 51:24 52:22 64:8 79:12 84:7,13 91:21,22 94:5,16 95:22 96:13,21 100:15 101:16,24,25 102:1 105:7 106:6 109:20 112:2,8,10,13 118:7,8, 17 121:1 132:24 144:7 156:18 159:8
communicated 41:21 42:21	concur 19:22	continually 107:5 137:18	corrected 16:19 59:7 63:6 71:15 113:9 156:17
communicating 137:14	conditioning 140:22	continue 93:2 167:25 168:8	correction 62:21,24
communication 50:5 130:7	conditions 147:23	continued 58:6	corrections 7:15 8:15 101:21
communications 132:19 133:10	confident 167:16	continuing 54:25 137:5	correctly 90:8
companies 168:25	confirm 19:25 38:23 73:20 74:2 102:3,5	continuously 93:1 107:4 108:3 109:6 130:10 132:18	correlate 91:15
company 36:25 49:10 73:20,21 74:2 104:8 105:3 165:24	confirmation 73:19	control 15:10 24:8,14 25:3,10,21 26:9 27:15 28:2 29:5 44:16 55:14, 16 61:10 86:25 87:18 91:2 96:3 97:7,8 125:11,22 139:8 143:6	counsel 12:11
compare 155:25	conflict 5:23 115:8 117:12 124:18 129:9 135:1 145:20	controlled 142:16	country 142:13
compared 155:22	conflicts 14:15 45:6,8, 9 69:16 83:16 103:4	controller 24:15,17,23 25:11 26:22 27:11 28:14 30:1 32:2 86:5 88:14,15,21 90:15 125:24 126:24 127:3,5	County 163:25
competing 170:1	confuse 40:15	controllers 24:22 25:5 76:1 116:23	couple 14:5 41:22 111:10 168:23
	confused 110:23 162:9		court 8:19 11:19
	confusing 50:17,23		courtesy 5:18
	confusion 41:19 43:5		cover 5:11 26:18 46:24 47:3,6 58:5,12 69:7 73:17 74:4,6,8,9,12,16, 24 78:14 83:1 117:18, 19 149:10
	connected 51:4		
	connecting 51:9		
	connection 92:7,8		
	connectivity 92:4		
	consistent 99:15 111:20		
	consortium 165:10		
	constant 36:22 37:8 108:18		

coverage 140:7	Deborah 12:21 153:13 154:7	60:6 78:10,21,22 79:2 86:21 130:9	161:20
covered 88:20 141:18	decades 166:8	design 50:24 53:4,15	discussion 5:19 7:25 17:5 21:15 23:23 24:3 35:21 45:3 51:17,19 68:5 102:12 122:9 124:3 128:19 153:13,17 154:24 160:5,10 165:25 167:15,23 170:10,14, 17,19
covers 97:24	December 8:13,23 10:3 18:3 153:17	designated 58:23 141:25	discussions 158:16
credit 157:17	decided 76:25	desire 34:4 35:11 101:17	dispatch 147:1,8 148:16,19 149:6
criteria 58:7 60:8 108:6	decision 20:2 65:12	desired 34:12	dispatcher 15:12 146:25 147:16,20 162:5
critical 16:15 169:2	decommissioned 72:9 75:4	detail 44:12 75:1 113:3	distance 45:22 87:17 88:20 125:11
curious 53:3 91:3 111:4	dedicated 103:25 106:7,8	details 85:16,25 104:5	distances 97:15
current 33:18 38:17 70:24 138:7 156:14	define 169:14,24	determining 48:2	distributed 59:1
cut 113:24 132:5	defined 105:11	developed 37:23	divide 140:2
cut-off 50:5	definition 36:21 164:17	development 76:22	documentation 42:19, 25 57:19 112:19
cutoff 89:14	degree 50:21	device 108:1	documented 143:4 160:19 167:12
cutoffs 140:1 163:15	deja 146:2	devices 55:16 158:25	documents 60:7
cycle 42:5,8,14	Dejan 146:8	dew 66:6,7,9	Domenic 6:16
	delay 46:10 78:17 122:12	diagram 71:23,24 152:5,13	Don 12:14 41:1
D	delinquencies 10:21	diagrams 72:13 77:23	door 87:25 94:22 95:7 167:5
DA 51:25 54:6 56:7,21, 23 118:4,12 128:4,6 150:12	delinquent 9:20,23 10:22 155:21	dietary 135:13	Doris 13:20 154:24 159:12
daily 30:10,13 57:14, 16,17 139:22 140:18	delinquents 155:25	difference 56:21 67:8	dormant 10:8
Dan 12:10	demand 115:22 129:24 135:11	differentiate 51:1	Doug 13:12,21 69:22 129:19
danger 95:17	Dennis 58:1,22 59:3	differentiates 120:8	Douglas 69:24
DAS 56:20 139:9,10	department 57:18 64:18 147:4,15,25 171:12	differentiation 49:2 50:14 160:24	downcomers 51:5,9 53:19
data 10:2 15:22 16:3 26:13 33:22 72:6 75:3 76:11 118:4 156:13	depend 97:4	digging 25:8	downstairs 93:11
date 41:22 43:5 47:5,18 58:25 75:2 154:8,9 155:16 157:25 158:11	describe 30:10 57:13 104:19,23	direct 5:14	DP 55:16
dated 17:22	describes 24:24	direction 168:16	draft 62:24 63:6
Dave 12:4	describing 65:9	directly 30:24 148:22	drawing 25:24 77:19 109:25 110:7
day 137:18,23 138:18 140:13 158:9	description 17:2 24:7, 23 25:2,12 27:11,19 31:23 36:10 58:18 61:1 64:4 77:6 78:12 122:8 126:23 138:8 168:22 169:18	director 146:10	drawings 18:16 39:17 51:22,24 52:3 71:19
day-to-day 70:19 137:2 138:12	descriptions 15:24	disaster 5:12	
days 115:22 135:11		Discover 157:20	
deerator 16:2 54:16 118:6 146:15		discuss 14:8 23:17 73:7,8 87:7,9 104:14 117:3,4 126:4 130:20 131:11,13 148:5 159:24 160:8 167:24	
		discussed 22:13 41:17 170:20	
		discussing 5:21 55:3	

77:21	effect 102:6 111:15	enjoyable 171:13	excluding 170:1
drum 47:24 51:3,7,23 52:9 53:18	egress 150:24 151:2	enlarge 126:17	existing 40:8 83:22 84:5 97:12 100:20 101:11 140:7,14 142:3
dual 14:25	electric 54:22 56:17, 18,20 57:7 85:14,17 86:1 89:3 90:25 91:12, 15,16 101:7,19,23	enormous 155:22	exit 5:14
due 14:25 18:3 43:1	electricity 57:8	ensure 35:24 58:25 147:22	expect 154:5
duration 64:13 104:23	electronic 41:11 91:2	entering 55:5 87:25	expediency 19:18
Dustin 13:4 103:11 104:4	elements 86:1	entire 58:9 154:16	expediently 39:13
duties 70:15 72:20 113:6 119:4 137:10	elevator 157:2	entities 105:17	expenditure 142:23 144:13
duty 15:8,17 72:4 93:5 112:6	elevators 158:25	enunciate 89:4 110:25	experience 142:11
Dyersburg 115:16,18 125:1,3	Elrod 13:25 14:20 28:11 30:13,19,22 31:1, 7,9 33:16	enunciated 110:5,10	experienced 43:16
dynamic 24:14,19 25:4,11,13,15 26:5,13 27:20 28:2 36:8,12,14, 21,25 37:1,5,6,11,18 38:6	email 156:21,23 157:4	enunciates 107:13,17	expert 6:23 40:25
	emailed 157:1,3	enunciating 110:12,18	experts 113:1
	emailing 155:9	enunciation 108:4	explain 166:10
	emails 109:11	enunciator 26:23 110:12	Express 157:20
	emergency 5:11 15:20,21 53:22 71:4 80:13,24 99:17 105:23 106:3 112:22 131:25 132:4 137:13 150:23	EPA 65:15	extensive 71:7
E	emission 66:19	equal 27:16	external 42:6 49:25 50:2
E-1 135:20	emissions 65:16	equally 141:20 144:6	extinguish 46:16
E-13 91:5,6,7,8,11	encourage 168:8 169:3 170:16	equipment 15:23 24:6 36:10,11 61:12 64:4 121:13 122:8 127:23 135:13 137:4 165:12	extra 14:6 41:7 93:19
e-stop 54:5,6 94:13,22 98:15 101:22 110:15 147:20	end 77:12 122:19 167:16,17 171:16	equipped 70:4	eye 150:5
e-stops 97:12 148:22, 23 150:25	ended 65:21	Ernest 69:20	Eye-hye 55:15
E110 24:8 61:19 127:2	energy 40:7 46:17	Ernie 13:23 14:18	F
ear 106:24 107:1	enforcement 143:13	errors 74:22	facilities 131:1 146:9
earlier 89:20 126:12	engaged 118:1	essence 43:20	facility 45:21 105:3,18 106:11,25 109:5 131:2 137:22 138:18 147:7 154:6 165:9,13
early 158:8	engineer 40:24 41:1 57:18 62:16,17 90:2,4 92:24 93:5 142:12 169:22	estate 165:10	fact 20:8 28:1 43:1 98:21 155:7 162:17 169:22
easier 122:16	engineering 13:7,24 14:19 57:18 64:18 69:21 83:9 103:10 112:16 115:14 124:24 129:13 135:5 146:10 147:4,15,25	estimate 156:25	Fahrenheit 161:3
east 13:25 14:9,20,22 149:4		ETSU 38:18 72:4 76:11	fail-close 54:21
eat 137:19		event 5:11	fair 85:6 92:15
Ebony 12:18		eventually 170:14	fairly 66:3,5,6 142:22
ECS 12:13 40:19 146:1		everyone's 71:20	fall 58:1 169:15
editorial 148:12		evidently 77:3	familiar 110:3
editorials 99:14		examples 97:18	
education 86:25		exceeds 161:2	
		excellent 6:12 8:19	
		excited 142:19	

familiarized 112:22	111:3 119:20	foundation 166:15	gasket 167:5
Farmer 12:25	finish 6:8	four-hour 116:15	gathering 155:13 156:23
fault 16:4,13,15,18 26:18 61:13,15,17,20 62:5 71:6 105:6 110:6, 17,24 125:23	fire 14:25 15:14 167:4,6	Fox 8:24 12:8 21:13 68:3 87:8,12,15,20,23 88:3,6,9,22 92:5,19 114:13 121:7,16 124:1 126:21 127:1,6 131:12 152:21	gauge 163:6
faults 72:12 110:4	fire-tube 51:1,8 52:21 53:12 146:13	framework 169:11	gave 110:23
faux 73:1	Fireeye 16:6,7 24:7,10, 13 27:16,18 37:4 127:2	free 5:6 62:10 95:18	GEB 88:16 89:7,11 94:19 95:11
favor 8:2 9:3 21:19 39:2 68:9 82:12 102:15 114:18 124:6 128:22 134:11 145:6 153:1	Fireeyes 25:25	frequency 31:5	general 76:24 86:24
Federal 66:13	firing 53:24	frequently 64:14	generate 16:16 71:9
feed 53:25 54:24 56:10, 11 57:4 77:22	fits 169:10	front 43:18 48:14 61:4 122:19	generated 44:9
feeding 91:3	fix 114:1	FTES 141:25	generates 26:18
feedwater 51:22 52:19, 24 53:15 54:1,3,13,21 55:10 56:5 71:22 90:24 91:2,9 128:3	fixed 48:24 49:20 161:6	fuel 67:7	generating 51:5 53:20
feel 5:6	flag 34:22	fuels 46:15	generator 44:8 47:22 48:4,6 49:14 50:15 57:14 161:5
feels 146:1	flame 24:18 25:21 26:4 27:15,16 29:8 30:6 34:16,17 44:1,4 46:11 61:22	full 54:15	generators 43:2,19 46:7 47:21,25 48:21 49:11 52:17 150:23 160:16,21
feet 92:6 96:24 103:20 109:23 116:4 125:12 130:3 136:1	flooding 55:1	fun 170:22	gentleman 40:4 74:3 99:7
field 24:21 44:19 45:17 109:15,20	floor 18:11 23:23 24:3 45:13 69:19 73:12 77:21 116:3 150:10	function 26:23 59:14	gentlemen 14:12,17 17:10 19:17 22:1 34:4 35:11 39:10 68:16,19 69:19 73:12 82:19 98:4 102:23 103:8 114:25 115:11 124:13 126:12 129:4 134:18 145:13,24 153:8
figure 75:23 103:17 113:14 115:25 135:16 150:10	floors 135:25	functioning 113:8	George 11:19
file 157:7	flow 53:23 108:18	functions 112:4 119:5 140:19	Georgia 159:6,9
files 157:6	flue 43:23 44:7	funeral 6:21	give 43:13 150:3 155:24 160:12 170:13
fill 133:12	fluid 161:11,13	funny 113:23	giving 9:19,22 11:4 81:7 167:19
final 22:3	Foeller 58:13	furnace 43:20 44:1,8, 14 46:14,16 53:23	glad 142:8
finally 142:20	folks 138:15	furnish 115:23	glass 167:3
find 25:17 26:12 27:3 41:10 64:20 65:1 67:8 77:15,18,24 78:18	follow 64:12 75:18	furnishing 125:8 129:24	glasses 32:22
finding 156:17	follow-up 10:5	future 146:20 170:15	glossary 59:22 169:19
findings 157:8	foods 13:5 103:2,12,13	<hr/> G <hr/>	GMB 86:25
fine 22:17 23:10 40:13 60:7 79:11 80:14,19 84:25 99:18 101:14	foot 87:17 88:10 94:24	G-4 119:8	GMP 100:16,17
	Foreman 81:1	gap 146:2	go-to 41:2
	forever 170:22	Garret 138:10	
	forget 6:4	gas 14:25 43:24,25 46:13 66:8	
	forms 5:23	gases 43:23 44:7	
	forward 14:4,12,14 39:13 69:2 156:1,20		
	fossil 67:6		
	found 9:24 10:19 31:23 41:5,6 91:14 158:11		

golf 45:22	hardwire 92:7 96:4 97:18,24 98:3,15 99:6 100:3	heat 43:1,19 46:6,7 48:20 115:23 129:25 167:4,6	house 15:8 72:1 140:12 142:1	
good 5:2 10:25 17:11 32:21 33:3,23 38:9 40:3 43:4 45:20 51:19 55:18, 25 63:8 64:23,24,25 66:3,21 69:14 74:4 75:5 76:7 77:15 78:8 85:11 106:19 108:24 117:7 121:16 133:22 142:19 150:5,6 153:23,25 154:6,18 155:2,6,24 168:18 169:4 170:18,24 171:5	hardwired 87:22,23 88:9 92:12 94:5,9,10,14 95:2,4,12,21 96:12,20 97:9,12 98:6,8,13,21 100:1 102:3,5 107:17 116:5 136:11 148:22 171:3,4	Heater 6:24 7:3	HRSG 61:8	
good-sized 66:3,5,6	Hargrove 11:25 19:10 22:22 23:2,21 30:9,17, 21,24 31:5,8 35:8,19,23 57:12,22 64:11 89:16, 17,19,24 90:3,12,22 98:1 102:10 104:19 105:10,19 114:6 117:6 120:7,18,21,25 121:3 123:12 127:16 128:17 131:17 134:6 143:1,9, 16 158:17 168:19 169:4	heaters 161:10	HRSGS 47:21	
great 44:12 47:19 58:18 62:2,4 159:17 165:20	hardwiring 101:22	heating 125:9 135:12	Hudgins 13:23 14:18 17:15,18,25 18:2,6,23 20:3,17,20,25 21:3 24:1,11 25:6,19,22 26:6,15 27:6,9,22 28:3, 9 29:25 30:4 31:21 32:1,6,14,25 33:5,12,15 38:14 39:15,22 40:4 69:20 70:1 73:25 74:6, 16,21 75:7,10,13,17,21, 24 76:2,5,10,21 77:2,7, 25 78:3,6,17 79:3,12,25 80:7,16,21,24	helpful 59:10 170:18
ground 83:1 164:3	Harold 12:6 163:23	hey 162:20	huge 155:10	
Group 12:13 13:24 14:19 40:20 69:21	haste 60:1	high-pressure 14:11, 23 40:9 68:25 70:3 83:7 103:3 115:5,21,23 118:21 124:17 125:7,8 129:8,23,24 134:24 135:10 146:12 160:22, 24,25	humidification 135:13	
guard 72:25 95:3 109:9 162:4	hat 58:21	high-steam 89:14	HVAC 86:20 116:11 120:25 136:19,20 139:18	
guess 25:3 26:16 54:17 74:8 85:1 94:2 108:2 111:10 120:1 121:12,24 138:16 139:17 154:13	hate 51:19 78:17	high-temp 160:21	<hr/> I <hr/>	
guessing 78:5	Hawk 70:5,8,10 125:21	higher 50:21 66:9	i.e. 43:22 48:1	
guidance 143:12	HCA 142:12	highly 15:15 168:10	ICS 125:21	
guys 57:10 61:13 83:15 92:9 115:7 120:14 137:8 140:10 168:12	head 25:7 132:25	hits 94:13	idea 109:25	
<hr/> H <hr/>	header 52:25 72:17	hole 29:13 54:19 67:1	identified 32:13 87:1,3 91:1 103:20	
hair 106:22	heading 33:1 168:16	Holly 117:22,23	identify 27:18 60:12 85:15 86:6 110:17 137:25	
hand 165:19	Health 83:10,13 171:2	Holt 12:23	identifying 149:23	
handful 49:9	Healthcare 13:11,13, 15,17 115:4,16 129:7, 14,16,18,20 131:2	Holyfield 13:10 129:17 133:7,19,21	ignoring 71:14	
hands 20:23 22:8 34:20 35:1	hear 53:10,11 89:9 156:3 163:3	Honeywell 36:25 37:17 61:19 110:5 116:23 127:1	II 130:13 136:19	
happen 92:23 97:5	heard 29:11 162:10	honor 60:23	III 76:17 77:12 130:14 136:20	
happened 93:6,8 144:1	hearing 7:19 8:22 21:17 34:3 35:4 38:16 68:7 69:19 81:11 82:10 109:16 114:17 124:5 128:10,21 134:10 145:5 151:25 152:25	hope 171:13	Illinois 159:5	
hard 40:17 41:4,5 71:2 113:15 126:15	hearts 171:10	horsepower 85:15	illustration 46:1 148:13	
hard-coded 86:4		hospital 70:15 71:2 72:8 76:22 115:17,19 118:20 129:14,21,25 135:8,9 142:21 144:14 148:17,23 149:4	illustrations 44:13	
hardware 36:17 98:3		hot 161:10	imagine 169:6	
		hour 118:10 167:9	immediately 36:1	
		hours 17:1 33:19 45:15 70:22 108:15 137:18,23 140:13 165:25 166:19 167:10,20 168:2,5,6,10		

immersion 85:25	79:18 98:17 104:20 130:7 132:19 143:15 156:23 157:5 171:1	interested 54:19 66:1, 16	115:4,9 119:9 122:10 124:16,19 128:11 129:6,10 131:11 132:1 134:22,23 135:2 145:18 153:12 154:24 159:19 160:5,7 170:15 171:10
implementation 58:6		interesting 52:12 61:24 65:23 142:5	itemization 32:8
implemented 37:19	ingress 150:24	interlock 54:10,14	itemized 29:1
implementing 73:23 78:11 138:3 142:15	initial 36:1 112:19 113:4	interlocked 53:25	items 5:21 22:13 23:18, 23 68:23 81:15 153:13 155:10 160:7,9 170:11, 14
importance 168:21	Initially 76:21	internal 42:9,15	
important 141:12	input 36:7 75:9,11,13 88:13	internally 42:5	<hr/> J <hr/>
impossible 93:22	inputs 75:20	International 12:15,17 40:10,21 41:23 42:7	Jackson 129:22
improve 157:8	inside 89:7	interpret 105:5	James 13:6 83:8 103:9 115:13 124:23 129:12 135:4 169:6
inches 32:16	inspected 42:4 43:3 146:16 154:1	interpretation 41:25 42:3 47:25 48:10 50:9 163:1	janitor 73:4
include 20:16 33:2 71:7 72:17 84:18	inspection 10:6 42:6, 15 61:14 85:5 114:7 149:9	interrupt 84:2	Jeff 146:9
included 16:10,25 17:2 31:20 36:2	inspections 9:17 42:1, 9 153:15,18,19,22 154:5 155:8,21	interrupting 165:19	JO 155:15,20 156:12,24 157:11
includes 30:17,19	inspector 9:21,22 12:24	introduce 11:14 14:7 40:23 69:3 146:7	job 8:19,21 17:2 59:14 60:6 61:1 70:23 76:19 77:5 78:9,12,20,21 79:1 80:17 86:21 99:14,20 105:23 110:10 112:4 116:8 119:3,5 130:9 150:6 168:21 169:17
incoming 112:17	inspector's 9:13 149:9	introduced 53:17	jobs 99:18
inconvenience 41:14	inspectors 158:2	introduction 53:14	Johnson 15:10
incorporate 37:11	install 121:22	introductions 5:9	JOL 159:3
incorporated 131:3	installation 122:11 123:13	investigate 148:1	Jones 13:14 129:15 130:23
incorporating 131:1	installations 127:24	investigation 158:16	July 158:8
Independence 158:9	installed 70:3 71:3,4 121:18,25 122:2,22	investment 151:5	June 158:5,7 162:25 171:12
independent 55:16	installing 136:8 146:21	invoices 155:9 156:21	Jurisdiction 155:1,3,5 158:22,23
Indicating 36:18 89:16	instance 133:11	involved 30:25 67:15 83:25 104:21 117:24	jurisdictions 158:21
indirectly 30:25 31:1	institutions 157:23	involvement 57:17	Justin 12:16 40:24
individual 90:1,3,13 93:4 125:16 166:12 169:9	insurance 9:18,21 11:1	issuance 146:6 149:11,14 152:15	
individually 51:15	Integrated 13:3	issue 24:13 36:1 37:22, 23 49:23 50:7 59:13 84:17 94:1	
individuals 45:22 86:15,17 103:21 106:3 108:11 125:12 130:5 147:2 161:24	intent 32:14 48:19,20, 21 70:20 143:2 161:14 163:7	issues 22:24 30:15 55:1 105:7 116:17 158:10,13	
individuals' 86:21	intention 73:3	item 5:10 7:9,10,11 8:12 9:12 14:8,9,13,15 17:5 18:14 23:15 26:14 27:15,17 31:10 35:22 38:2 39:2 40:6 45:10 69:16 80:25 83:4,5,16 87:7 98:11 103:2,5	
Industries 31:2	interest 5:23 45:6,10 103:4 115:8 117:13 124:18 129:9 135:1 145:20		
industry 37:17 43:19 44:5 50:25 98:18 125:5 168:15			
information 16:2,5,8, 12 20:14 22:8 26:7 34:16,18 35:3,15,25 38:19 39:12,16 49:8			

<hr/> K <hr/>	Leclerc 13:4 103:2,12,13	located 15:7 40:9 71:5 88:1 103:14,17,19 115:18 116:3 125:3 129:22 135:7 136:7,8 148:15 153:20	low-water 89:13 139:25 163:15
keeping 112:18 137:5	led 53:7	location 15:7 16:22 71:24 93:10 95:14 107:6 116:1,2 130:2 137:21 142:3 148:14 153:22	lower 85:10 148:16 149:7
Keith 11:25	left 24:21 40:23	locations 142:14 144:1	Lucite 12:14,16 40:9,21,25 41:23 42:7,13 62:18
Kewanee 130:17	legal 12:10	log 16:25 31:14,15,19 32:13 33:17 72:14 112:19	lucky 93:22
kick-off 157:25	lengthiness 16:7	log-in 64:1 90:5,18,20	lunch 133:11
kind 32:23 43:13 49:13 54:9 65:8,9 74:25 78:13 97:1 111:14 113:24 118:11 127:22,24 142:15,24 160:15 162:9,23 163:11 169:1	lengths 87:2	log-in/log-out 90:2	Lynn 5:24 8:14 11:20
Kingsport 103:14	lengthy 16:14	log-out 90:5	<hr/> M <hr/>
Kirby 11:20	letter 46:24 58:5,12 73:17 74:5,24 78:14 117:18,19 149:10	Loggins 13:18 83:11,12 87:22,24 88:11 89:5,23 90:1,4,11,16 92:22 93:9,17,21 94:16,18,25 95:9 96:1,6 99:2 100:16,18 101:14 102:1	M2.1. 78:3
knowing 52:17 164:22	letters 47:3,6 74:6,9 155:15	logic 26:22 27:10,13 30:1 32:2	made 37:25 48:3 50:1 65:12 69:4 71:20 89:20 100:5 101:21 103:15 151:15 152:6,8 157:15 164:2
knowledge 104:23 120:22	level 32:15,21,24 48:24 49:21,24 55:11,12,16 120:17,22 148:16 149:7 161:6	logics 29:5	main 55:14 105:17 130:24 140:15
Knoxville 13:21 146:5	liaison 155:3	logs 31:11,14 32:5 33:18 72:21	maintain 57:19
Kyle 13:10 129:17	light 26:17 31:17 37:10 107:13	long 33:6 95:10 162:1 164:18,25 166:15 170:23	maintenance 30:15 76:24 104:2,4,6 105:14 106:8 116:11,12 120:9 125:15 127:21,23 130:12,13,14
<hr/> L <hr/>	limb 99:3	long-time 6:17	maintenance-related 105:8
labeled 128:6	Linkage 24:16	longer 10:7 42:14,16	major 141:2,3,5
Labor 171:13	list 11:15 15:21 17:11 24:16 27:23 62:15 80:13,25 99:17 105:23,25 106:3 110:6,24 113:2 116:22 125:18,23 136:18 137:12,24	longstanding 98:14	make 5:15,23 8:24 14:5,7 18:12 20:2 21:7 31:19 34:14,21 35:13 47:12 50:19 57:19 58:15 59:5,6,24 78:21 79:10 81:14 86:8 87:8 98:16 99:14 118:5,14,22 131:12 132:7 133:17 138:7 151:7 157:7
lack 165:4	listed 15:20 24:7,20 26:22 28:22 36:14 47:20 62:18 63:1 78:21 79:22 118:5,24 125:20 127:13	looked 38:8	Makes 81:5
large 137:23 140:10 142:22 144:13	listened 162:20	loose 69:15	making 5:20 139:7 166:14
law 162:13	listing 136:15	lose 97:7,8 107:25	man 41:2 58:21 93:19 95:11 147:2
layout 16:24	lists 73:22 85:24 105:23 130:16	lost 6:22 46:16 57:7	management 28:23 85:21,23 89:20
lead 120:11,15 122:25 136:24	literally 148:19	lot 29:9 36:23 41:19 45:22 50:17,25 83:1 127:25 137:1,7 139:20,23 142:17 166:20,22	
leader 37:17 147:6	live 155:23 158:7	love 167:25	
learned 170:12	load 136:2	low 70:5 89:14	
lease 165:13	local 90:15 104:8		
leased 165:9	locate 42:19,24		
leave 20:1 80:19 99:20 101:2 111:16 127:8 133:5			
leaves 133:17			
Lebanon 49:10			

manager 58:15 81:1 105:24 106:4,10 127:17,20,22 138:18 146:9	Marty 6:14 12:12 36:20 40:19 145:25 149:2	mention 6:15,18	moment 7:2,4 155:17
manages 138:16	master 29:4,7	mentioned 26:7 75:25 104:21	monitor 15:17 93:15 109:12 116:7,13,18 118:25 161:21 162:8, 17,21 163:21 168:22
mandate 167:19	Mastercard 157:20	mentioning 28:24 78:14	monitored 17:1 50:21 88:16 146:24
mandated 167:9	match 61:3	mentions 76:17 107:3	monitoring 15:14,16 16:18,19,23,25 61:11 63:14 70:17,25 71:17, 25 72:14 86:15,21 103:24 109:19 119:21 130:6,9 139:12 140:9
mandatory 98:12 113:10	matter 7:1 113:1	messages 16:5 110:13	monitoring/attending 72:3
manmade 108:1	Mcfarland 13:8 135:23 136:10,21,24 137:17 138:2,5,9,11,14 139:14, 19 140:4,17,20,23 141:1,4,7,13,15,21,24 142:4,10 144:8,15	method 86:2	monitors 149:24 162:11
manned 44:17,18,20 45:14,24 108:3 109:6 137:18,21 141:20	means 50:21 93:18 100:11 160:12	microprocessor 15:2	month 120:16 136:5
manner 61:23 143:8	meant 10:21	mind 51:2 52:17 55:4 118:12 138:21 160:14	months 42:6 123:15
manual 17:12,13,17 18:16,22 19:4,8,25 20:9,11 21:8 23:24 24:24 25:2 26:3,5 31:16,20 32:12 34:8 35:16 37:1 38:24 40:8 44:2 58:14,25 59:11 64:22 67:25 71:18,20 72:10 74:5,7,13,17 76:22 77:16 78:25 80:15 82:1 84:19,22 99:15,19 101:21 113:3, 11 114:10 122:1,14 123:22 124:14 126:13, 20 128:13 134:4 139:1, 8 144:24 146:19 147:6 164:18	Mechanic 130:13,14	minds 171:10	Morelock 5:2 6:11,19 7:5,8,18,22,24 8:2,5,7, 10,18 9:1,3,6,8,11 10:12 11:7,10 12:2 14:2,17 17:4,7,9,16,21 18:1,4,9,25 19:3,17 20:5 21:2,5,11,14,17, 21,23 22:1,11,14,16,25 23:5,9,13,19,22 24:2 26:24 30:7 33:9,13,20, 25 34:3 35:2,7,9,17,20 36:4,19 37:21 38:7,10, 15 39:5,7,10,20,24 40:2,5 42:11 43:11 45:4,9,12 56:1 58:10 59:4,8,20,23 60:1,5,15, 18,22,25 61:3,7,21,24 62:7,14,22 63:3,7,11, 13,20 64:3,9,21 65:2 67:17,20,23 68:4,7,11, 13,16,21 69:9,13,18 73:6,9,11,14 74:19 76:14,16 77:1,4,10,14 78:1,4,7,19 79:4,9,16 80:1,9,17 81:2,6,11,16, 24 82:6,10,14,16,19,25 83:4,14,18 84:1,4,8,11, 14,20,24 85:3 86:7,10, 13 87:6,11 88:23 89:1, 17 90:9 91:25 92:14 94:2,8,12,17 95:5,16,25 96:8,15,22 97:11,16,20,
manuals 15:20 18:19 19:16 20:16 41:4 74:8, 10,25 132:6 149:3	mechanical 150:22	mindset 168:1	
manufacturer 37:16	mechanics 73:5	mine 19:10,13 71:19	
manufacturer's 16:11	mechanism 24:19,20 36:13 53:24 54:22 55:6 110:25	minor 141:9	
manufacturers 36:23 137:3	medical 7:12 13:9,22 68:24 69:5,6,8,10,23,25 70:2,21 83:6 134:23 135:7 145:19 146:5 164:13	minute 11:13 84:2 132:8	
manufacturing 85:12 125:3	Medisys 15:10 85:21, 23 88:12,20 90:20 92:6, 19 93:13 148:24	minutes 8:13,16,23 9:11 16:20 93:1,16,17 123:2,7 132:3,9 140:9 166:12,14,16	
March 5:4	meeting 5:5,8 6:3 17:10,24 19:22 23:25 34:8 67:25 82:2 101:22 114:11 153:17 158:5 160:10 163:1 171:11	misprint 41:6	
mark 13:14 32:16 129:15	meetings 170:15	missed 10:17 11:12 74:14 77:3	
market 29:9 54:24	meets 108:6	missing 18:16 19:11 22:5 34:25 39:18 121:10 162:24	
marshal 15:14	member 6:17 12:1,3,5, 7	Mississippi 159:2	
	members 5:22 9:20 20:15 34:15 35:15 38:1 40:16 160:23	mistake 69:5 73:1 149:13	
	members' 19:16	mistaken 48:3 96:13 160:17	
	memos 109:11	mixer 103:22 105:10 111:25 112:12	
	Memphis 13:19 40:22	mobile 137:16	
		mode 53:22	
		modification 31:19	
		modifications 151:4	
		modified 46:21 149:12	
		modulating 54:1,2,21 55:11	

22,25 98:2,10,19 99:10,
13 100:19,23 101:4,9,
15 102:4,8,11,14,18,20,
23 103:1,7 104:13,17
105:21 109:8 111:6,9,
23 112:3,11,14 114:2,4,
8,14,17,20,22,25 115:3,
11 117:2,5,7,10,15
118:18 119:11,15,19
120:5 121:5 122:4,7,17,
20 123:16,19,24 124:2,
5,8,10,13,21 126:3,6,8,
11,18 127:7,12 128:1,7,
10,15,18,21,24 129:1,4
131:10,15,23 132:11,15
133:23 134:1,7,10,13,
15,18,21 138:23 139:6
143:5,10,18,23 144:5,9,
16,19,23 145:2,5,8,10,
13,16,23 148:4,7,9
149:16,19,22 150:5,7
151:21,24 152:7,14,19,
22,25 153:3,5,8,11,23
154:20,23 159:11,14,
18,21,25 160:4,11
161:11 163:23 168:18
169:20 170:9 171:5,9

Morelock's 19:8

morning 5:2 44:23
123:1

mortified 170:22

motion 7:19 8:23 17:5
20:7 21:6,7,12 22:20,
21,23 23:4,6,14,15
35:12,13,18 38:17 45:5
67:21,24 73:7,8 81:12,
14,25 87:7,8 102:6,7
104:14 114:5,6,9 117:3,
4 123:20,21 126:4
128:11,12 131:11,12
134:2,3 144:20 148:4
151:25

motioner 22:21

mounted 149:3,6

move 11:11 14:3 22:22
39:13 155:4 156:24

moved 7:21 17:6 67:22
104:15 126:5 144:21
148:6 152:2

Moving 8:12 40:6

multiple 108:11 133:8
143:25 144:3 150:24

N

names 80:13 99:17,20
139:1

Nashville 135:7

national 51:12 58:19
118:15 170:3

natural 5:12 14:25
43:25 66:8

nature 50:25 169:19

Navy 168:13

nearby 44:17

neat 55:24

necessarily 91:1
110:17 113:2 139:10
168:1

necessity 64:23

needed 17:11 25:4
92:3 110:3 136:3
144:24 159:24 165:16

nets 106:22

network 92:11,20 96:4
97:4,5,7

network-based 92:8

Neville 13:6,7 83:8,9,19
84:1,3,7,10,13,17,21
85:1,4,8 86:9,12,14
87:14,19 88:5,8,19
89:12 90:14,17 91:5,8,
11,22 93:13 96:5,18,24
97:14,19 98:9,21,22
99:25 100:8,15,17,22
101:3,8,12,25 102:25
103:9,10,13 106:6
107:8 108:8 109:22
110:8,11,20 111:2,21
112:2,9,13 113:21
114:1 115:2,13,14,17
117:20 118:8,17 119:8,
13,17,23 121:12,20,24
122:6,15,18,21 124:23,
24 125:2 126:16,25
127:4,10,14 129:12,13,
21 131:8,18,20 132:10,

13,21,25 134:20 135:4,
5 136:6,12 137:12,24
139:4 143:20,24 145:15
170:25

Neville's 168:25

newer 76:2

newest 135:19

nice 59:11,12

nicety 64:22

night 44:24

nitpicky 58:11

nods 132:25

nomenclature 47:23
118:12

normal 113:6

North 129:14,21 159:1

note 40:12 111:10
149:3 150:17

noted 81:15 126:12

notes 85:22 159:10

notice 27:17 146:18

noticed 51:22 72:23

noting 157:7

notion 8:24

NOX 65:24 66:11 70:5

nuisance 71:13,15

number 9:17,23 10:23
24:8,9 25:5 26:2,21
27:10,16 34:18 46:20
51:12 63:2 75:4 81:21
95:11 97:23 99:6
113:20 118:15 133:8
150:11,12 151:6,9,11,
12,13 153:14,18 155:22
156:6 168:13

numbers 71:5 113:24
154:4 155:18

Numeral 76:17 77:12

nurse 162:16

nurses 162:15

nuts 103:15

O

O'GUIN 10:1,4 11:22
19:2 96:14 97:21,23

O2 24:18,24

observed 7:4 83:3

obsolete 26:2

occur 47:9

October 10:2 17:20,22
18:8

offered 44:6

offhand 18:14

office 12:22 15:11 17:3
71:3 130:2 136:7
137:18

officer 116:13,19
118:24 123:5,7 130:15

officers 136:14

offline 26:17

oil 161:10

old-business 40:6

older 70:8

ole 75:5

online 155:1,4,5,9
157:15,21 158:1,22,24

open 18:10 23:23 24:3
27:8,9 44:25 45:2,13
54:25 73:12 141:16
148:2 153:13 170:19

opened 26:9

opener 165:6

opening 79:7 119:2

operate 61:23 100:13
116:14 118:21 125:7
129:22,23 130:23 143:8
164:5

operated 103:24
105:16 135:10 166:3

operates 70:2 135:9

operating 14:23 70:13,
14 75:5 108:10 109:18
139:12 166:4 167:1

<p>operation 38:25 54:7 57:15,17 70:19 86:19, 20 103:25 116:10 120:13 135:24 136:5</p> <p>operational 168:14</p> <p>operations 30:12,14 105:9 112:18 116:13 168:24</p> <p>operator 45:17,25 81:1 86:17,19 103:22 109:23 111:17,25 112:5 116:18 120:11,16 123:1,4 136:25 139:17 140:16 161:19 162:12 163:9,22 169:23</p> <p>operators 30:20,21,23 44:18,19,20 46:1 105:14 130:22 136:23 144:10 163:25 166:9</p> <p>opportunities 132:7</p> <p>opportunity 159:23 160:17</p> <p>opposed 8:5 9:6 21:21 39:5 68:11 82:14 102:18 114:20 124:8 128:24 134:13 145:8 153:3</p> <p>option 20:4 71:13 91:20 157:13</p> <p>order 5:8 7:1</p> <p>org 60:2 126:15 149:21 152:4,11 169:18</p> <p>organizational 59:9, 12,17 72:13 76:20 111:11,24 118:23 125:25 131:19</p> <p>orientation 131:21</p> <p>original 42:19</p> <p>originally 72:8 97:5</p> <p>others' 19:12</p> <p>outlined 16:20</p> <p>output 75:9,19 88:13</p> <p>outputs 75:20</p> <p>outstanding 156:19 157:9</p>	<p>oversee 30:13</p> <p>owned 165:8,9 166:3</p> <p>owner 165:7,11,12,23</p> <p>owner/user 164:11 165:22,23,24</p> <p>owning 166:2</p> <hr/> <p style="text-align: center;">P</p> <hr/> <p>pace 154:12</p> <p>package 39:17 103:14</p> <p>packet 36:3</p> <p>pages 22:5 79:18 80:3 111:13 131:24</p> <p>paid 63:10</p> <p>Paige 12:18</p> <p>panel 26:9 27:8,9 71:3 107:14 108:8 121:9,11 146:19 148:13,14 149:2</p> <p>paragraph 74:12,17,18 118:20 120:3</p> <p>parallel 24:15 25:3 29:6</p> <p>parameters 86:3</p> <p>Pardon 135:19</p> <p>parentheses 59:13</p> <p>parenthetical 74:20 119:1</p> <p>Park 7:11</p> <p>Parks 5:14</p> <p>Parkwest 145:19 146:4,11 164:13</p> <p>part 26:16,23 27:20 31:15,16 32:11,12 34:19,21 36:16 38:5 52:19 54:13 55:2 73:2 85:22 94:6 98:17 106:20 144:13 148:24 149:14 165:14 167:15, 23,24</p> <p>participate 105:11</p> <p>partners 146:7</p>	<p>parts 51:14 105:8 113:11</p> <p>pas 73:1</p> <p>pass 21:9</p> <p>passed 6:24 16:1 42:10</p> <p>passing 6:16</p> <p>password 16:8 63:21 64:1,2,15 86:4 90:10,21 119:24 120:2,4</p> <p>passwords 64:12</p> <p>past 164:21</p> <p>past-due 155:21</p> <p>pat 150:3</p> <p>patient 132:20 133:4,8, 15</p> <p>patients 130:8</p> <p>Patrick 13:18 83:11</p> <p>payments 155:9 157:11,14,18</p> <p>PBX 130:2</p> <p>pellets 125:4</p> <p>people 15:15 59:10 60:10 67:2,14 70:18,23, 25 79:14 107:6 108:14 131:4,7 144:3,4 147:12 163:20,21 166:10,20,23 167:16 168:9 170:5,17, 19</p> <p>percent 62:2 157:3</p> <p>perform 70:14</p> <p>performance 60:8</p> <p>performed 9:18,25 153:15,18,19</p> <p>performs 112:6</p> <p>period 10:2 104:22 168:14</p> <p>periodically 107:21 108:14</p> <p>permit 65:18</p> <p>person 73:22 76:24 90:5,6 93:19,24 94:13 99:18 104:8 105:11,17</p>	<p>106:10 117:18 133:10 139:18 163:12,14</p> <p>personal 80:13 120:3</p> <p>personally 64:17 158:8</p> <p>personnel 5:12 17:3 30:15,18 62:18 70:13, 14 72:2 73:4 106:1,21 107:20 111:12,16 112:17 119:7 132:17 136:13 143:3</p> <p>perspective 136:2</p> <p>pertained 41:23 42:1</p> <p>Pertaining 58:11</p> <p>phone 137:16</p> <p>phones 5:19</p> <p>photo 122:13</p> <p>physical 76:18 79:22 81:1</p> <p>pick 154:12</p> <p>picture 25:24 121:8,15, 25</p> <p>pieces 155:19</p> <p>pilot 44:1</p> <p>pipe 46:13</p> <p>pipng 77:22</p> <p>placard 71:4</p> <p>place 5:13 33:18 54:11 133:18 150:25</p> <p>plan 16:21,24 45:20 83:24 85:9 87:1,3,16 103:18 115:25 125:10 130:1 135:16,17 148:18 150:9</p> <p>planning 155:13</p> <p>plans 77:21</p> <p>plant 14:25 16:22 45:18,19 57:19 58:2,9 76:18 79:20,23 81:1 86:17,18 105:15 116:10 120:13 125:3,16</p> <p>plants 105:16</p>
--	---	--	---

plastic 125:4	premises 45:19	57:2 62:17 63:17 65:9, 22 85:12 103:19,21 107:9 108:19 125:8 127:24 136:8 146:20 147:19 165:17	122:8
plate 38:11	preparing 115:7		provider 169:23
play 86:11	prescriptive 170:6		providing 137:2
PLC 26:10,16 27:13,19 28:24 30:4 63:25	present 14:8,13 65:12 89:22 115:8 135:5	procurement 123:13	provisions 73:23 138:4
pleasure 23:14	presentation 14:5 17:13 79:7 83:15	produce 125:4	proximity 148:20
plenty 151:20	presentations 5:20	produces 25:25	pull 14:6
plug 86:10	presenters 5:18	product 16:5 25:1 46:11	pulled 140:21
plug-and-play 89:21	pressed 147:20	production 105:24 106:4,10,13,21 109:14 125:14 127:23	pump 54:6,15,24
plugged 32:23	pressure 43:21 47:22 89:14 142:17	products 170:2	pumps 54:13 55:17 56:4,11,14 57:1,5
point 66:7,9 88:13 89:19 91:20 140:8 147:13 151:1,3 165:15	pressurized 118:13 146:15	programmable 26:21 27:10,12 30:1 32:2	purchased 85:12 131:3
Polyone 12:20 124:16 125:1,2	pretty 16:13 17:11 45:20 55:21,24 66:3 94:4 120:17 144:6	programmer 25:17 110:5	purpose 15:4 70:12 95:18 97:6
Polysilicon 153:15	prevent 63:14 119:22	programmers 27:18, 24 28:8,25 29:24 30:6	pushing 38:4 158:8
portion 29:4,5,6,7	prevented 89:25	project 41:1 57:17 58:15 62:16	put 29:2 38:11 47:18 51:2,14 59:13 62:2,8,25 88:13 100:3,9,24 113:3, 12 118:25 122:1,16 157:2 162:24 163:2 169:17,18
position 136:16 162:16	previous 99:16	promulgate 143:11	puts 58:14
positioning 24:15 25:3 29:6	primary 140:24	proper 32:24 161:22 163:5	Putting 122:18
positions 130:12 136:18	prime 141:2	properly 59:1 113:8	
possibly 31:17 36:6	printing 113:22	proposal 23:17	<hr/> Q <hr/>
post 111:17 147:2	prior 35:3,6 65:6	propose 31:18 100:1 121:13	qualifications 104:3 164:24 166:10
potable 135:12	priority 156:24	proposed 151:10	qualified 15:16 116:19 136:22 147:13 162:1,12 165:1 166:20,23
pounds 118:10	Pro-ma 125:15	protect 63:23	qualifies 165:6
power 83:20 86:16,18	proactive 156:22	protected 16:9 63:21 64:1 86:4 90:10,21 119:24	qualify 104:5 165:5,11
powerhouse 30:16 135:17,18,19,20,21,24 136:1,4 138:1 140:7 144:2,4,11	problem 19:21 32:22 61:6 63:11,13 97:10 113:9,14 126:13	protection 92:21 106:24 107:1	quarter 10:9 154:11,14
powerhouses 135:15 144:6,12	procedure 23:10 32:11,12 71:4 132:4 137:14	protocol 133:3,6	quarterly 154:25
PPC 24:10,13,15	procedures 15:19,20 112:23 131:25 137:13	provide 38:17 39:18 40:7 76:11 135:11 143:12 153:14 154:24	quarters 154:13
PPC6000 34:20	proceed 84:16 103:8 115:12 124:22	provided 16:10 17:10 26:7 45:25 104:24	question 6:9 19:6 21:18 28:13 30:9 37:9 38:16 39:2,15 47:20 52:14 54:12,18 63:17 64:23,24,25 66:21 68:8 81:19 82:11,21 87:12 91:17 92:2,13,15 94:3
pre-meeting 150:1	PROCEEDINGS 171:16		
precautions 141:17	process 36:22 37:8 40:24 41:2,16,18 43:25 44:10,12,13 51:8 54:10		
preface 146:18			
prefer 20:3			
preference 20:1			

102:15 113:25 114:18 120:7 124:6 128:22 134:11 139:16 143:17 145:6 146:24 152:15 153:1 157:9,11 161:5, 14,15,16 162:2 164:7, 12,15 165:20 167:7	reason 45:15 56:24 106:9 108:1 111:16 127:13,15 133:18 Reba 117:19,22 recall 42:10,11 48:25 51:19 received 41:4,5 43:4 receives 22:4 receiving 120:19 recent 48:11 recently 6:24 14:24 15:13 70:3,7 162:14 166:25 recess 83:3 recirculate 54:16 recirculation 54:14 recognize 6:20 recognizing 161:21 recommend 168:9,11 169:5 recommendation 167:8 169:4 recommended 167:20 record 6:5 40:12 143:2 157:25 170:25 recorded 123:3 170:19 recovery 43:2,19 46:6, 7 48:21 recycle 65:22 red 34:22 reduce 15:5 16:9 70:13 redundant 37:6 56:13, 14 refer 26:3 73:17 118:12 reference 27:2 60:9 78:1 80:2 113:12 referenced 74:12 113:24 references 77:16 referred 29:7	referring 48:19 refers 27:12 105:24 refinery 57:1 reflect 33:18 reflects 38:24 regard 36:1 57:14 151:5 168:24 regeneration 65:19 regional 142:11 regions 158:19 register 11:16 registered 146:16 registration 57:20 registrations 43:4 regular 70:15 regulations 70:24 164:9 165:22 reign 62:10 reinspection 10:7 relating 160:20,21 relationship 16:23 71:25 relative 22:24 reliability 127:17,20 relief 108:18,22 relieved 137:20 reluctant 142:23 remain 64:13 127:11 remember 12:9 57:11 75:10 remind 5:17 reminded 137:10 reminder 6:3 remote 42:18 43:6 45:23,24 46:2 59:15 60:11 71:3,9,17,24 78:24 86:17,23 87:20 88:6 90:20 91:20 94:9, 13,23 95:8,18,23 100:1, 2 103:18,23 105:25	107:4 108:2 109:5,11, 17,19 110:1,13 111:15, 25 112:7,10 116:2,3,5,6 119:6,12,13,21 121:9, 11,15 125:13 130:2,6, 10 131:7 132:1,6,18,23 133:5 136:6,9,13 139:12 146:6 148:13,14 149:1,24 150:3 164:22 remotely 86:22 146:25 renewal 46:25 84:5 100:21 138:24 149:12 renewals 122:15 renewing 41:18 renovation 15:1 rep 16:11 74:2 repairs 141:9 repeat 31:22 replaced 65:6 replacement 44:24 106:17 replacing 105:8 report 9:13,25 10:14 147:21 159:15 REPORTER 11:18 reporters 8:19 reporting 10:2 11:19 30:14 155:14 156:15 represent 40:21 representation 165:23 representative 73:20, 21 130:8 132:20 133:4 representatives 133:9 representing 14:20 74:3 83:9 129:13 146:4 request 22:24 43:7 81:13 117:16 125:6 135:6 requested 15:22 35:14 134:2 requesting 7:12 14:10 42:8 68:25 70:12 73:17 83:6,20 103:2,15 115:5,
<hr/> quick 30:9 59:18 quickly 54:18	<hr/> recognize 6:20 recognizing 161:21 recommend 168:9,11 169:5 recommendation 167:8 169:4 recommended 167:20 record 6:5 40:12 143:2 157:25 170:25 recorded 123:3 170:19 recovery 43:2,19 46:6, 7 48:21 recycle 65:22 red 34:22 reduce 15:5 16:9 70:13 redundant 37:6 56:13, 14 refer 26:3 73:17 118:12 reference 27:2 60:9 78:1 80:2 113:12 referenced 74:12 113:24 references 77:16 referred 29:7	<hr/> replaced 65:6 replacement 44:24 106:17 replacing 105:8 report 9:13,25 10:14 147:21 159:15 REPORTER 11:18 reporters 8:19 reporting 10:2 11:19 30:14 155:14 156:15 represent 40:21 representation 165:23 representative 73:20, 21 130:8 132:20 133:4 representatives 133:9 representing 14:20 74:3 83:9 129:13 146:4 request 22:24 43:7 81:13 117:16 125:6 135:6 requested 15:22 35:14 134:2 requesting 7:12 14:10 42:8 68:25 70:12 73:17 83:6,20 103:2,15 115:5,	
<hr/> R <hr/>			
rabbit 29:12 67:1 radar 55:16 radio 137:15 Randall 13:8 range 66:9 rated 118:10 reached 106:9 read 50:13 64:4 111:12 113:16,23 126:14,15 170:4,20 readable 131:18 readings 116:16 161:25 163:13 166:13 reads 88:15 147:19 151:13 ready 101:7 117:11 158:6 real 165:10 reality 43:8 51:3 realm 161:19 rear 167:3			

20 124:16 129:7 130:18 134:24	responsibilities 30:11 41:12 45:18 57:13 58:12,23 72:21 78:11 120:8 127:19,25 139:23 140:3 141:2 164:19	road 161:22 164:1	SAR1 60:17
requests 46:24	responsibility 58:20 59:2 139:23 140:25 141:6 161:24 162:6 164:11 166:5	Rockwell 28:15	satellite 97:2
require 10:6 122:7 166:11	responsible 20:11 58:6,9,13 59:18 72:2 73:23 78:25 90:7 112:17 137:5 138:3	role 30:10 57:13 143:10	scanners 44:4
required 25:10 30:15 33:11 43:1 44:3 48:7 62:3 96:9,12 120:4 150:25 161:7 162:12	rest 18:18 85:4 154:13	roles 78:23 164:25	scanning 27:17
requirement 25:14 31:16 32:10 37:12 42:1 64:22 66:11 73:16 101:1 122:5 151:16 155:13	restart 79:23 80:5 147:24	Roman 76:17 77:11	schedule 123:12
requirements 31:12 65:16,24 66:12 96:19 111:12 119:5 168:5 170:5	restarting 79:19	room 11:13 86:25 87:18 89:8,10 93:11 96:3 103:17 110:1 116:1 125:11 130:3 133:19 140:5,14 141:20 143:3 146:19,25 147:22 148:16,19,20,21 150:14,17,22 151:13	scheduled 18:2 100:12 112:6
requires 36:12 64:1 94:4	restroom 137:19	rooms 139:21 140:2	schematics 16:24
requiring 10:5,7	resubmit 80:16	Rosa 5:14	science 69:6,10 83:10, 13 171:2
rescind 22:20,21 23:3, 6	retire 138:19	rotate 126:16	scope 155:13
rescinded 22:23	review 8:15 35:24,25 139:2	rotation 131:5	scrapyard 72:11
research 49:5	reviewed 22:3	rover 92:24 93:5	scratch 42:24
resident 40:25	reviewing 157:6	Rowan 117:22	screen 156:16
respect 5:20 75:1 91:21	reviews 22:23 58:20 143:15	rule 71:15 100:14 101:1 111:18 113:12,13 161:7 165:4 166:7	scrubbers 65:15
respond 15:6 144:3,4	revise 34:8 80:15 99:19 143:11	rules 5:5 70:24 143:11 164:9 165:21 169:22	SD-1 77:20
response 7:7,17 8:1,4, 6,9,17 9:5,7,10 11:9 14:16 21:16,20,22,25 34:2 39:4,6,9 45:11 67:19 68:6,10,12,15 69:17 76:15 81:10 82:9, 13,15,18,24 83:17 94:7, 11 99:12 102:13,17,19, 22 103:6 111:8 114:3, 16,19,21,24 115:10 123:18 124:4,7,9,12,20 126:10 128:9,20,23,25 129:3,11 133:25 134:9, 12,14,17 135:3 144:18 145:4,7,9,12,22 149:18 151:23 152:24 153:2,4, 7 154:22 159:13 161:8 171:8	revised 17:13,17 20:9 101:18 148:15 149:7	run 54:25 61:15 93:1,2 95:10 101:5 167:1	SD-4 77:17,18,20,24
	revision 63:1,5 114:10 122:13	running 57:10	seats 14:5
	revisions 37:25 42:25	<hr/> S <hr/>	second 23:1
	revisited 38:1	safe 5:13 143:8	secretary 11:21 109:10
	rewiring 92:10	safeguard 24:18 25:21 26:5 27:15 29:8 30:6 34:16,17 61:23	section 60:14
	Rhone 12:21 153:13,16 154:9,15	safeguards 44:2	security 5:12 15:11 17:3 71:2 72:25 73:3 95:3 109:9 116:12,19 118:24 123:5,6 130:14 136:7,14 137:17 146:25 147:1,8,16,20 148:16, 19 149:3,6 162:4,5
	Rick 13:16 115:15	safety 5:10 40:7 106:20 143:17 167:17	security/janitorial 70:21
	right-hand 85:11	sake 19:18	seeking 34:5
	risers 51:5,8	salvaged 72:11	sees 88:17
	RM7800 127:8	Sam 11:24 155:17 156:4	self-check 24:14 25:5, 11,13,15 26:5,13 27:20 28:2 36:8,12,14,15,24 37:5
	RM7897A 110:5	SAR 45:17 65:18	self-checking 25:13 37:3,7 44:6
			self-reporting 74:21
			Sellers 13:12 129:19
			send 20:25 21:9 39:20

47:15 104:8	short 170:23	142:4	speaking 34:14
sending 8:14 109:11 156:21	shorter 97:15	sit 169:5	specialist 130:7 132:19
senior 40:24 86:16,18	should've 127:14	site 16:21 19:24 20:12 21:9 22:4 26:8 34:9 35:3,6,16 38:23 45:20 51:14 68:1 74:10 81:17, 18 82:3 83:23 85:9 87:1,3,16 100:11 101:23 103:18 109:24 110:10 114:11 115:25 123:22 125:10 128:13 130:1 135:16,17 143:21,25 144:22 147:12 148:18 150:9 152:9 162:2 167:3	specific 98:11 113:2 119:4,5
sense 81:5	show 59:16 91:8,12 116:1 119:25 125:10 135:16,20 148:17 150:2 163:6	sites 150:24	specifically 161:9
sensors 26:17	showed 25:24 52:1 138:16	sitting 109:18	spell 98:12
sentence 76:19 77:12 80:7 111:14 118:20	showing 126:23	situation 93:6 166:17	spent 43:24 46:15 65:18,19 67:7
separate 32:16 33:1 43:21 47:24 50:7 72:18 74:8 105:16 140:5	shown 26:1,18 71:23 77:19 103:17 111:25	situations 41:22 162:3	spot 48:17 96:1
separated 140:2	shows 16:22 24:10 27:8,17 51:22 71:10 89:15 110:6 121:15 130:1 149:12	size 45:21	spray-type 56:23
September 17:10,23 19:20 20:9 23:25 34:7 38:22	shut 16:15,17 46:10,11 71:7,11 94:14,19,25 95:3,20,21 96:2 97:9 108:19,21	sketch 71:23 77:18	spreading 166:18
series 120:2	shutdown 77:16 107:12,13 110:20	sketches 18:17 19:1	spring 75:7 171:14
serve 119:6 147:17 164:25	shutoff 87:25 88:6 89:13 96:20 100:2,4	skill 120:22	square 135:25
service 120:23 146:9 147:7,16 169:13,16,23	shutoffs 87:21	skills 120:8	Sr 62:17
Services 13:24 14:19 69:21	shuts 54:24	slapped 165:19	staff 15:5,7 30:18 70:22 133:9,10 143:6
serving 59:15	shutting 46:9	slot 133:12	staffed 107:4,5,10,20 116:6 132:18 144:7,12
Servos 24:17	sick 106:17	smaller 151:14	staffing 15:5 140:4 143:7
set 91:20 102:7	side 5:15 44:14 67:16 143:13,14	smile 149:25	stages 158:6
Setpoint 13:3	sight 32:22	snack 103:14	stairwell 150:15
settings 63:23	signal 88:15 94:19	SO2 65:20	stamp 51:12
shake 11:11 166:15	signaled 89:10	SO3 65:21	stamped 51:15
share 158:11,13	silence 5:19 7:2,4	Sofix 10:10	standard 43:17
sharing 67:14	similar 76:11 80:2 109:9,16 158:17	sole 15:17	standpoint 53:4 66:19
shed 31:17 37:10	simply 157:4	solid 150:18	start 11:17 24:4 44:23 68:22 73:13 83:15 158:2
sheet 31:15,19 32:13 74:12 75:4 118:4,5	sir 17:18 29:21 30:3,5 31:9 47:1 54:13 57:24 64:17 65:7,17,25 81:22, 23 84:3 88:25 89:23 90:22 105:20 107:2,15, 18 117:25 120:20,24 123:8 133:20,21 140:23	Solutions 13:3	started 53:9 155:14
sheets 15:22 16:3 72:6 76:12		SOP 157:7	starting 135:24
Shelby 163:24		South 159:9	state 9:18,21 10:23 12:23,25 14:1,10,20,22 34:9 40:18 57:20 66:12 146:17 164:2,10
shelf 55:21		space 135:12 150:21	statement 142:24
shift 106:13,15 123:3,4		speak 6:7,8 49:3 104:10	states 58:13 142:14,19 149:11 158:19,21
shifts 44:22 70:16 162:10		speaker 6:8	stating 28:14,19

<p>station 15:8,14,15 16:18,23 44:16 45:24 46:2 71:10,25 72:5 86:18,24 88:7 90:2,4 94:9,23 95:24 100:2 103:18,23 105:25 107:4,21 108:2,4 109:5, 17,19 110:1,13 111:16 112:1 116:2,3,5,6 119:6,14 121:15 125:13 130:2,6,10 131:7 132:18,23 133:5 136:6, 9,13 149:4 162:15</p> <p>stays 137:23</p> <p>steam 42:2,4 43:2,3,19 44:8,9 46:6,7 47:21,24, 25 48:4,6,21 49:11,13, 24 50:3,14 51:3,7,23 52:9,17,18,24 53:18 55:17 56:19 57:7,14 115:23 118:10 125:8 129:24 135:12 160:16, 21,24 161:1,5,8</p> <p>step 133:12</p> <p>sterilization 115:24 129:25</p> <p>sterilizers 135:13</p> <p>Steve 6:24</p> <p>sticklers 74:25</p> <p>stipulates 164:18</p> <p>Stone 11:19</p> <p>stop 49:3 53:22 54:6 94:9</p> <p>stopping 53:23 54:5</p> <p>stops 54:20 108:13</p> <p>story 170:23</p> <p>straight 23:11 93:11</p> <p>stream 55:6</p> <p>streets 95:14 100:6</p> <p>strictly 25:3 73:5 104:1 110:18</p> <p>stuff 47:14 55:25 57:21 63:23 141:23</p> <p>subject 112:25</p>	<p>submit 163:1</p> <p>submitted 17:17 18:7 149:8</p> <p>subsequent 42:5</p> <p>successful 68:1 82:3 101:23 114:11 152:9</p> <p>successive 106:2</p> <p>sufficient 32:19 41:11</p> <p>suit 40:13 170:21</p> <p>super 11:3 49:8 51:16</p> <p>superintendent 58:3</p> <p>Superior 125:19</p> <p>supervisor 12:22 83:12 86:19,20 105:15 116:11 120:13 136:14 138:12</p> <p>supplemental 39:16</p> <p>Supply 105:3</p> <p>Surely 64:14</p> <p>surprised 142:5</p> <p>surprising 142:13</p> <p>Sussman 85:17 91:12</p> <p>switch 77:17</p> <p>sword 62:8</p> <p>system 15:11 16:8 24:25 27:17,20,25 28:21,23 29:8 36:13 43:14 48:22 54:1,3,14 55:1,10,13,15 56:5,10, 13,22 57:2 61:11 63:14, 17 70:5,11 85:10,21,23 88:12,20 89:20,22 90:16,20,25 91:3,9 92:6,11,12,20 93:14 95:18 113:7 119:22,23 121:17 125:22 128:3 138:7 139:9 148:24 154:25 155:6,7,17,20 156:12,14 157:2 158:14</p> <p>systems 16:6 54:10 55:18 92:10 158:18</p>	<p style="text-align: center;">T</p> <p>table 5:6 41:8</p> <p>tackling 19:20</p> <p>tags 16:3</p> <p>takes 9:12 115:3 124:15 137:1 142:20 145:17 159:18</p> <p>taking 26:12 27:3 34:6 106:4 116:16 137:11 141:17 144:10 161:25 166:13 170:10</p> <p>talk 6:6 44:4 46:6 48:19 119:9 120:2 122:9 133:15 136:21 160:13 161:18</p> <p>talked 99:16 139:22 149:2 160:16 166:8</p> <p>talking 26:25 36:2 53:9 56:7 67:3,6 79:19 90:19 92:5 94:21,22 95:6,7,12 113:7 139:24,25 162:21 166:18</p> <p>talks 98:2 120:3</p> <p>tanks 16:2</p> <p>team 147:6</p> <p>Tech 136:19,20</p> <p>technical 23:17 26:13 67:12,15 84:9,11 91:17 138:25 139:8,11 143:14</p> <p>technically 62:3 85:1</p> <p>technician 80:6 104:3, 4,6 112:16 116:7,11,12 121:1 168:22 169:13,16</p> <p>technicians 79:6 120:9 147:7</p> <p>telemetry 116:7</p> <p>temperature 55:5</p> <p>temperatures 66:6</p> <p>ten 10:5 109:23</p> <p>ten-minute 82:22 83:2</p> <p>Tennessee 5:4 13:1, 11,13,15,17,19,22 14:1,</p>	<p>10,20,22 15:12,13 34:10 40:22 49:10 68:24 69:22,25 83:6,10, 13 103:14 115:4,16,18 118:15 129:7,14,16,18, 20,22 131:2 135:8 144:24 146:5,17 152:8 164:10 169:21 171:2</p> <p>term 37:4,5,6,14,18 50:17 89:21 127:21 163:9</p> <p>terminology 72:17 111:20</p> <p>terms 59:22 169:19</p> <p>Terry 12:8</p> <p>test 139:25 155:17 158:15 163:15</p> <p>tested 31:13</p> <p>testing 158:6</p> <p>tests 140:16</p> <p>text 113:15</p> <p>thing 39:19 41:15 47:2 50:23 59:5,9 72:23 92:18 97:1 109:12 111:14 112:12 121:8,10 127:24 152:12 162:25 165:20 167:18 169:6 170:3</p> <p>things 11:11 17:11 67:16 77:23 85:19 98:5 111:10 139:1 141:8,9 164:20 167:14,24 169:18</p> <p>thinking 52:25</p> <p>thought 22:7 31:22 62:25 74:11 77:2</p> <p>three-digit 120:4</p> <p>three-year 42:8</p> <p>threw 41:8</p> <p>throw 92:9</p> <p>throwing 167:4,6</p> <p>tied 54:6 87:21</p> <p>ties 24:19,22 27:21 78:13</p>
--	--	---	---

<p>Tim 12:23</p> <p>time 18:7,12 26:12 27:3 37:14,24,25 39:14,21, 22 40:17 42:13 52:24 57:23 67:3 70:10 92:10 100:13 104:22 107:8 132:1 133:14 137:21 144:2 147:13 151:5 157:13 160:12 165:15 168:17</p> <p>times 48:11 106:16 109:23 142:15,17 143:22 168:13</p> <p>title 41:8 80:17 105:11, 24 127:17,18</p> <p>titled 110:7</p> <p>titles 63:6 99:14,20 116:9 168:20,23</p> <p>today 5:23 10:4 35:11 38:21 70:20,23 83:19 101:10 125:6 152:8 170:12</p> <p>today's 34:7 67:25</p> <p>Todd 13:25 14:19</p> <p>told 79:6</p> <p>tool 47:12</p> <p>top 25:7 51:7 55:21 127:9 156:24</p> <p>topic 160:5 170:17</p> <p>total 9:19,20,22 10:23 11:4 132:8 153:20 154:15</p> <p>totally 80:8 136:5</p> <p>Toth 6:13,14 12:12 28:13,17 29:2,16,21 36:18,19,20 37:13 38:3, 8 40:12,14,19 43:12 45:16 46:5,12,18,22 47:1,4,7,11,16 48:13 49:13,17,20 50:4,11,14, 16,22 51:18,25 52:2,5, 7,10,14,21 53:2,6,14 54:2,8 55:20,25 56:6,9, 14,16,18 57:4,9 58:17 59:6,19,21,24 60:4,13, 16,20,24 61:2,5,17,22 62:1,12,20,23 63:4,9,</p>	<p>12,16 64:6,20,25 65:8 66:5,13,17,20,24 67:4,5 68:19 92:2,16 145:25 146:1 148:11 149:5,13, 21,25 150:6,16 151:3, 11,19 152:4,10,17 153:10 157:10 159:20, 22 160:2,9,14 161:13 162:18 163:17 164:6 165:18 167:11 168:3,17 169:3 170:8</p> <p>Toth's 94:3</p> <p>tower 135:25</p> <p>town 130:24</p> <p>track 154:18 155:20,24</p> <p>tracking 155:8</p> <p>traditionally 109:17 127:21</p> <p>train 113:1</p> <p>trained 15:16 120:12, 14 162:7 163:17 164:5</p> <p>training 12:13 30:25 31:3,6 40:20 71:16 72:21 78:12 104:9,20, 22,24 105:2,12,18 112:15,17,19,20 113:4, 5 120:13,19 130:19,21 131:1,4 136:22 137:2,3, 6 163:5 166:22</p> <p>transcribed 6:5</p> <p>transcript 6:9</p> <p>transfer 46:17</p> <p>transformer 96:25</p> <p>transmitted 15:10 71:2</p> <p>transportation 45:23</p> <p>tray 56:22</p> <p>treat 42:22</p> <p>treated 43:9</p> <p>tri-annual 58:19</p> <p>trim 24:18,25</p> <p>Tristar 13:9 134:23 135:6</p> <p>troubleshooter 76:18, 23 77:11 79:23</p>	<p>troubleshooters 79:20</p> <p>true 49:22</p> <p>tubes 51:5 53:20</p> <p>turn 9:14 49:4 65:20 69:15 83:23 85:8 125:15</p> <p>turned 131:22</p> <p>turnover 137:7</p> <p>two-day 105:2</p> <p>two-edged 62:8</p> <p>two-year 42:5,14</p> <p>tying 111:4</p> <p>type 43:17 51:6 56:22 61:8 118:13</p> <p>types 51:1 54:23 65:15 76:12 158:18</p> <p>typically 52:18 61:11 103:15</p> <p>typing 109:10</p> <p>typo 111:13</p> <hr/> <p style="text-align: center;">U</p> <hr/> <p>ultimate 58:20 166:5</p> <p>ultimately 58:5,8</p> <p>unable 106:1 132:2</p> <p>unattended 48:3,4</p> <p>unauthorized 63:15 89:22 119:22</p> <p>uncorrected 9:24</p> <p>underneath 59:14</p> <p>understand 18:5 48:18 62:18 96:23 97:17 101:17</p> <p>understanding 48:23 98:15,23 105:5 162:19</p> <p>understands 16:14 71:12</p> <p>Understood 24:1</p> <p>unfired 42:2,4 43:2</p>	<p>47:21</p> <p>unique 43:14</p> <p>unit 17:17 19:22 20:10 22:3 25:12 29:4 34:23 38:20,23 39:12 43:24 48:5 49:16,18,19 50:1, 8,24 51:7 52:13 53:21 68:1 82:3 84:15 91:4 101:24 114:12 118:7,13 139:2 143:12 152:9 156:22</p> <p>units 65:4,5 157:7</p> <p>university 13:19 14:1, 21,23 15:6,12 16:14 68:24 69:22,25 70:2 71:12 83:5,10,12 171:1</p> <p>Unlike 61:18</p> <p>update 21:8 40:8 43:8 154:25 170:13 171:6</p> <p>updated 15:22 28:7 85:5 151:7</p> <p>updating 35:15 67:24 82:1 123:22 128:13 134:4 144:23</p> <p>upgraded 70:7,9</p> <p>user 165:24</p> <p>user-friendly 156:12</p> <p>UT 13:22</p> <p>utilize 70:21</p> <p>utilized 37:15 55:13</p> <p>utilizes 32:2</p> <p>utilizing 27:24 28:2,8 37:17 90:25 91:21 92:6</p> <hr/> <p style="text-align: center;">V</p> <hr/> <p>vacation 106:17</p> <p>vaguely 42:10</p> <p>valve 54:21,25</p> <p>valves 54:23</p> <p>Vapor 49:16</p> <p>vaporizers 161:12,13</p> <p>Vapour 48:1,5 49:15,16</p>
--	---	---	--

variance 7:13 9:25
10:8,10 14:10 15:3,4
20:8 22:2,9,24 23:17
33:17,22 34:6 36:12
38:18 39:11 40:8 41:19,
21 42:18,20,22,23 43:6,
9,16 45:15,16 58:7,14
62:4 67:21 68:17,25
70:13 73:18,24 78:11
81:13 82:1,20 83:7,20,
22 93:14 96:19 99:16,
24 100:1,20 101:2,5,6,
11,19 102:24 103:3,16
111:15 114:5,9 115:1,5,
21 117:1,16 123:20
124:14,17 129:5,7
130:18,25 134:2,19,24
135:6 138:4,24 142:3
144:20 145:14,21 146:6
148:25 152:1 153:9
163:7 167:2

variances 10:5 41:23
97:6 161:18 166:18

vein 6:21 37:22

Veljkovic 146:8 147:4
150:1

ventilation 151:18,19

verbal 7:7,17 8:1,6,9,17
9:7,10 11:9 14:16
21:16,22,25 34:2 39:6,9
45:11 67:19 68:6,12,15
69:17 76:15 81:10 82:9,
15,18 83:17 94:7,11
99:12 102:13,19,22
103:6 111:8 114:3,16,
21,24 115:10 123:18
124:4,9,12,20 126:10
128:9,20,25 129:3,11
133:25 134:9,14,17
135:3 144:18 145:4,9,
12,22 149:18 151:23
152:24 153:4,7 154:22
159:13 171:8

verification 38:21
119:20

verified 71:18 100:3

verify 20:11 52:11
98:24 100:22 119:17

versus 48:2 52:18
54:22 67:7 92:8 138:1
148:17 168:15

vessel 6:23 43:21
49:25 50:1 52:19

vessels 9:20 47:22
101:18 153:20 154:1

VI0534 41:24

vicinity 103:23

violations 9:23 10:16,
21 155:25

Visa 157:20

vision 109:15,20

visit 19:25 20:12 21:10
22:4 34:9 35:4,6,16
38:23 68:1 81:17,18
82:3 100:11 101:24
114:12 123:22 128:13
133:15 134:4 144:22
152:9

visited 26:8

visitors 10:13 154:3

visual 108:5 110:15

visualize 109:4

vote 22:18,19

voted 48:5,10

voting 8:8 9:9 21:24
22:7 39:8 68:14 82:17
102:21 114:23 124:11
129:2 134:16 145:11
153:6

vu 146:2

W

Wacker 153:15,18,21

wait 42:15 122:1

waiting 122:21

walking 45:21

walkway 150:19,20

wall 150:19 151:17

wanted 6:15 10:15
36:15 47:15 48:8 50:18
61:1 84:18 85:7 118:1,
14

WARE 31:2

warning 26:16

waste-heat 46:3,8,10
55:6

water 31:13 32:8,9,15,
20,21,24 33:7 48:24
49:20,23 55:11,12 56:4
72:18 76:8 77:22 89:15
91:4 135:12 139:25
140:16 160:25 161:2,3,
6,8 163:15

water-tube 51:2,4,10
53:10,11,16 70:6

ways 19:20

wearing 40:13

weather 18:3

Wednesday 171:12

week 115:23 135:11
158:7

weekend 147:14

West 7:12 13:11,12,14,
17 115:4,16 129:7,13,
15,18,19 131:2

wing 149:4

wire 71:2

word 33:8 36:23,24
37:1,11 132:11 163:20
164:22 165:11

wording 36:7 165:4

words 64:4 133:16
164:13

work 40:18 52:17 80:18
138:15 147:3 162:16
170:10

working 106:21 107:7
140:22 155:4,19 156:11

works 55:4 90:6 138:14

Worley 12:19 124:25
127:16,20 128:5

wow 48:16 49:2 123:9
166:24

WRC 12:18 13:20

writing 10:17 72:10
117:18 163:2

wrong 69:12 79:13
101:16 156:5 163:8

Y

y'all 142:20

yards 88:18

year 42:15 104:25
131:3 154:16 155:5
157:2

years 26:2 42:8,11
47:25 48:12 49:9 55:22
64:15 70:4 120:12
137:1 138:25 142:12
163:10 164:21 165:25

yellow 113:15

you-all 14:2 18:11
69:15 79:11 171:13

Young 13:21 69:22,24
75:12 79:8,15 80:23
81:5,21,23

your-all's 37:23

Z

zinc 57:1